

Decorative radiators for bathrooms
Prices and Technology 2016 - €
Sales International

zehnder

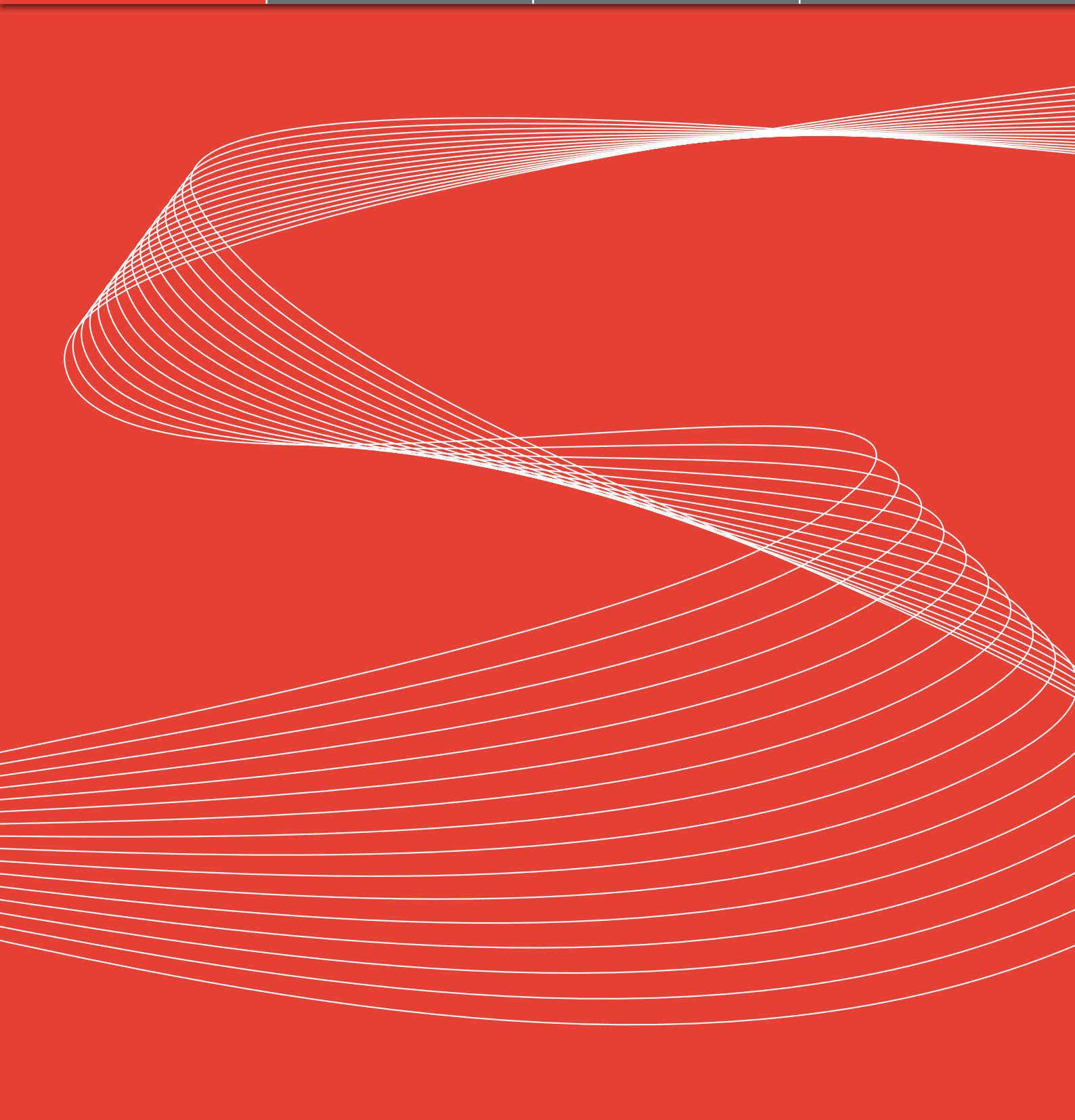
always
around you

Heating

Cooling

Fresh Air

Clean Air



Zehnder – everything you need to create a comfortable, healthy and energy-efficient indoor climate

Heating, cooling, fresh and clean air: at Zehnder, you will find everything you need to create a comfortable, healthy and energy-efficient indoor climate. Zehnder's wide and clearly structured portfolio can offer the right product for any project, be it private, public or commercial, new build or refurbishment. And where service is concerned, you'll find that Zehnder is "always around you".

Heating

At Zehnder, **heating** doesn't just come in the form of decorative radiators. We offer heating solutions in all shapes and sizes, from radiant ceiling panels to heat pumps with integrated ventilation unit.

- Decorative radiators
- Compact energy station with integrated heat pump
- Heating and cooling ceiling systems
- Comfortable indoor ventilation with heat recovery
- Radiant ceiling systems



Zehnder decorative radiators, Zehnder Nestsystems

Cooling

Zehnder also offers sophisticated solutions for indoor **cooling**. These range from cooling ceiling systems to comfortable indoor ventilation with a supply of pre-cooled fresh air.

- Heating and cooling ceiling systems
- Compact energy station with heat pump and brine pipe
- Comfortable indoor ventilation with geothermal heat exchanger for fresh air pre-tempering
- Radiant ceiling systems



Zehnder heating and cooling ceiling systems, Zehnder Nestsystems

Fresh Air

Fresh Air – a product range with a long tradition at Zehnder. Zehnder Comfosystems provide products and solutions for comfortable indoor ventilation with heat recovery for houses and apartments, for new build and for renovation projects.

- Comfortable indoor ventilation
- Compact energy station with integrated ventilation unit



Zehnder Comfosystems

Clean Air

Zehnder Clean Air Solutions provide **clean air** in buildings particularly prone to dust. In residential applications, the comfortable indoor ventilation provided by Zehnder Comfosystems filters external pollutants out of the air.

- Comfortable indoor ventilation with integrated fresh-air filter
- Compact energy unit with integrated fresh-air filter
- Systems for clean air



Zehnder Clean Air Solutions

Premium

	Zehnder Yucca	  	YS..	4
	Zehnder Yucca Asym	  	YA..	8
	Zehnder Yucca Star	 	YAS..	12
	Zehnder Yucca Cover	  	YP..	15
	Zehnder Yucca Mirror	  	YM..	18
	Zehnder Vitalo Spa	 	VIT..	22
	Zehnder Vitalo Bar	 	VIP..	26
	Zehnder Roda Twist Spa Air		RO..	30
	Zehnder Charleston Mirror		CM..	32
	Zehnder Charleston Bar		CPV..	32
	Zehnder Nobis	 	NOB..	35
	Zehnder Fina Bar	 	FIP..	37
	Zehnder Metropolitan Spa	  	MET..	40
	Zehnder Metropolitan Bar	  	MEP..	43
	Zehnder Roda Spa Asym		ROF..	47
	Zehnder Quaro	  	QA..	50
	Zehnder Subway	  	SUB..	55
	Zehnder Universal	  	HU..	60

General Sales and Delivery Conditions:

Our General Sales and Delivery Conditions apply. You can find these under “Legal notice” on our homepage at www.international.zehnder-systems.com.

Quality

	Zehnder Janda Bow		JA..	64
	Zehnder Toga		TO/TG/TE..	68
	Zehnder Forma Asym		LFA..	72
	Zehnder Forma Spa		LF..	76
	Zehnder Klaro		ZSL..	80
	Zehnder Stalox		STX..	84
	Zehnder Cornwall		LVCWC..	86
	Zehnder Zeno		ZN..	88
	Zehnder Zeno Bow		ZNT..	92

Project

	Zehnder Aura		PBZ..	95
	Zehnder Aura Bow		PBTZ..	99
	Zehnder Impa		IMP..	103
	Zehnder Zeta		ZETA..	106

Accessories and general information

Room dividers	109
Accessories	110
Valve parameters	121
Conversion factors	122
Keyword list	123
Colour system	133

Zehnder Comfosystems

Controlled indoor ventilation	129
-------------------------------	-----



Hot water operation



Mixed operation with integrated electric heating element;
hot water models can be converted to mixed operation on site



Mixed operation possible on site



Electric operation



Radiator surface: Chrome



Hot water operation

Zehnder Yucca decorative radiator made from horizontally arranged precision steel tubes and vertical header tubes, without visible welds and fully welded due to capstan welding technology. Sets of 3 horizontal tubes each branch symmetrically, alternately left and right, from the centrally arranged collectors. Towels can be slid in from the side to warm or dry. Single or double-layer version. Header tubes Ø 30 mm, horizontal tubes Ø 20 mm.

Thermal outputs to EN 442, with CE marking.

4 x ½" connection at the ends of the header tubes for flow, return, electric heating element and venting. Connection size 50 mm, suitable for using a special fitting in single- or twin-tube operation. Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome on request. Delivered ready to install with matching wall brackets in colour of radiator.

Electric operation

Zehnder Yucca decorative radiator, electric-only, made from horizontally arranged precision steel tubes and vertical header tubes. Sets of 3 horizontal tubes each branch symmetrically, alternately left and right, from the centrally arranged collectors. Single or double-layer version. Has an integrated electric heating element IRVAR with patented dry-running protection against operation without sufficient heat transfer liquid, VDE tested, splash-proof, for mains power supply of 230 V ± 10%.

Electric heating element IRVAR integrated in left-hand header tube at bottom, with painted cover sleeve. 3-core connection cable, 1.2 m in length, with safety plug. Separate, battery-operated infrared control device for wall mounting for controlling the room temperature or controlling the internal operating temperature from 35 to 70 °C.

Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome on request. Delivered ready to install with matching wall brackets in colour of radiator.

Operating pressure	max. 12,0 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Output	 Watt
Height	 mm
Length	 mm
Model	.....

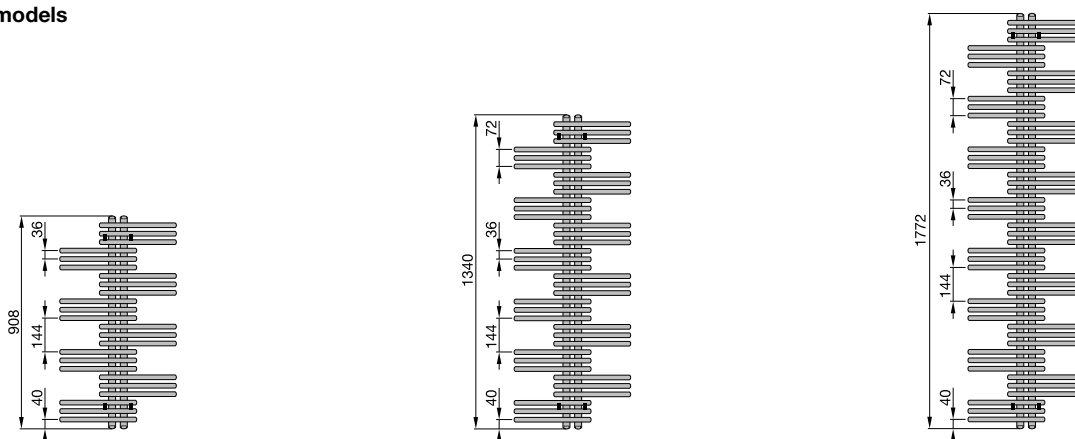
Benefits

- Small depth
- Easy to clean (lambswool cleaning brush)
- Ideal for hanging up towels
- Rounded edges
- Transparent look
- Connection from top possible
- Mixed operation with fitting possible

Special benefits for electric operation with IRVAR

- Optionally regulated room temperature or regulated medium temperature
- Weekly programme
- Timer function
- Dry-running protection
- Ready-to-plug

Overview of models



Connection to hot water central heating system or for mixed operation

Painted version

Model	H	L	Thermal output				Exp.	Classification Electric heating element	V	M	Price RAL 9016	Price ^① Cat. 1	Article number ^② RAL 9016
	mm	mm	EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
Single-layer version													
YS-090-050	908	500	324	230	140	168	1,27	300	2,6	8,4	594,47	683,65	ZY100250B100000
YS-130-050	1340	500	477	339	207	249	1,26	300	4,0	12,4	699,82	804,80	ZY100450B100000
YS-180-050	1772	500	621	443	271	325	1,25	600	5,2	16,6	840,26	966,29	ZY100750B100000
YS-130-060	1340	600	541	385	235	282	1,26	300	4,3	14,0	728,70	837,98	ZY100460B100000
YS-180-060	1772	600	706	503	308	370	1,25	600	5,7	18,6	873,79	1.004,84	ZY100760B100000
YS-130-080	1340	800	661	470	287	345	1,26	600	5,1	17,1	734,92	845,15	ZY100480B100000
YS-180-080	1772	800	863	615	377	452	1,25	600	6,7	22,7	881,59	1.013,81	ZY100780B100000

Double-layer version

YSD-090-050	908	500	484	339	203	246	1,31	300	4,2	14,8	742,73	854,13	ZY200250B100000
YSD-130-050	1340	500	717	506	305	368	1,29	600	6,4	22,0	875,35	1.006,64	ZY200450B100000
YSD-180-050	1772	500	926	657	399	480	1,27	900	8,4	29,4	1.050,10	1.207,61	ZY200750B100000
YSD-130-060	1340	600	823	580	350	423	1,29	600	7,1	25,1	910,44	1.047,01	ZY200460B100000
YSD-180-060	1772	600	1063	754	458	551	1,27	900	9,4	33,4	1.092,22	1.256,04	ZY200760B100000
YSD-130-080	1340	800	1024	722	435	526	1,29	900	8,5	31,2	1.029,05	1.183,39	ZY200480B100000
YSD-180-080	1772	800	1322	937	570	686	1,27	1200	11,4	41,4	1.190,55	1.369,11	ZY200780B100000

Chrome-plated version

Model	H	L	Thermal output				Exp.	Classification Electric heating element	V	M	Price Chrome €	Article number Chrome
	mm	mm	EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							n	Watt	dm³	kg
Single-layer version												
YSC-090-050	908	500	229	161	97	118	1,29	300	2,6	8,4	1.285,42	ZY100250CR00000
YSC-130-050	1340	500	330	233	140	169	1,29	300	4,0	12,4	1.390,60	ZY100450CR00000
YSC-180-050	1772	500	431	303	182	220	1,30	300	5,2	16,6	1.531,75	ZY100750CR00000
YSC-130-060	1340	600	377	266	160	194	1,29	300	4,3	14,0	1.419,62	ZY100460CR00000
YSC-180-060	1772	600	493	347	208	252	1,30	300	5,7	18,6	1.566,94	ZY100760CR00000
YSC-130-080	1340	800	465	328	198	239	1,29	300	5,1	17,1	1.426,43	ZY100480CR00000
YSC-180-080	1772	800	608	428	257	311	1,30	600	6,7	22,7	1.575,48	ZY100780CR00000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

Estimated to be available with electric heating element IRVAR until the middle of 2016, then with new electric heating element (see new products price list, mid-2016).

Electric-only operation

Painted version

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
-------	----------------------	---------	--	------------------------	-----------------------------------	---

Single-layer version

YSE-090-50/RD	1058	500	300	1.224,88	1.347,38	ZY110250B100000
YSE-130-50/RD	1490	500	300	1.323,96	1.456,36	ZY110450B100000
YSE-130-60/RD	1490	600	300	1.352,49	1.487,72	ZY110460B100000
YSE-180-60/RD	1922	600	600	1.558,88	1.714,77	ZY110760B100000
YSE-130-80/RD	1490	800	600	1.323,96	1.456,36	ZY110480B100000
YSE-180-80/RD	1922	800	600	1.567,89	1.724,67	ZY110780B100000

Double-layer version

YSDE-180-60/RD	1922	600	900	1.728,51	1.901,36	ZY210760B100000
YSDE-180-80/RD	1922	800	1200	1.856,86	2.042,53	ZY210780B100000

Chrome-plated version

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price Chrome €	Article number Chrome
-------	----------------------	---------	--	----------------------	--------------------------

Single-layer version

YSEC-090-50/RD	1058	500	300	1.889,61	ZY110250CR00000
YSEC-130-50/RD	1490	500	300	1.988,53	ZY110450CR00000
YSEC-130-60/RD	1490	600	300	2.017,18	ZY110460CR00000
YSEC-180-60/RD	1922	600	300	2.225,74	ZY110760CR00000
YSEC-130-80/RD	1490	800	300	1.989,26	ZY110480CR00000
YSEC-180-80/RD	1922	800	600	2.235,46	ZY110780CR00000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections for flow, return, venting
- 2 x ½" directional air vent
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with non-flammable heat transfer liquid
- Electric heating element IRVAR with infrared control device
- Matching cover sleeve for IRVAR in colour of the radiator
- Mounting accessories in colour of radiator
- Packaging

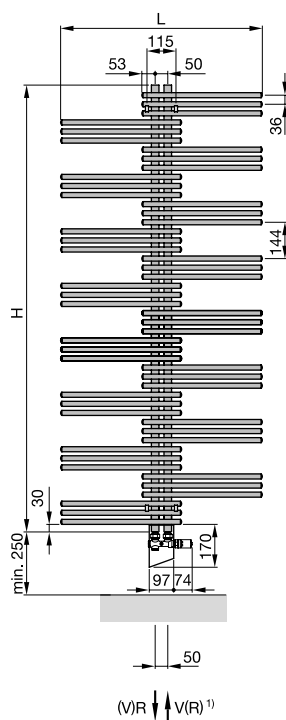
Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	6500011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8-13%)	6500012332	147,23
■ Electric heating elements for mixed operation	-	See page 116 onwards
■ Accessories	-	See page 110
■ Lambswool cleaning brush	601040	40,40
■ Fitting with short cover (hot water operation only), cover in white	976021	115,42
■ Fitting with short cover (hot water operation only), cover in special finish	976029	123,70
■ Fitting with short cover (hot water operation only), cover in chrome	976028	153,28
■ Fitting with long cover (for mixed operation with IRVAR), cover in white	976011	115,42
■ Fitting with long cover (for mixed operation with IRVAR), cover in special finish	976019	123,70
■ Fitting with long cover (for mixed operation with IRVAR), cover in chrome	976018	153,28
■ Zehnder thermostat DH, M 30 x 1.5, white	819050	23,42
■ Zehnder thermostat DH, M 30 x 1.5, chrome	819058	35,68
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

① For special colours in categories 1 and 2, see special solutions and colour chart

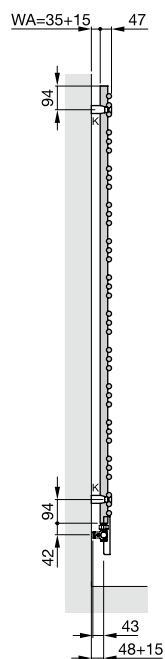
② For article numbers for special colours in category 1, see keyword list

④ Total height incl. electric heating element and cover

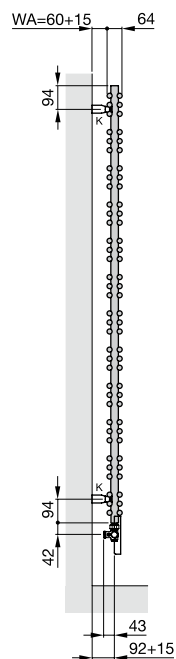
Hot water operation:



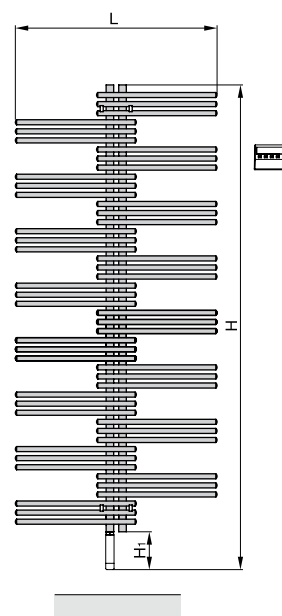
Single-layer



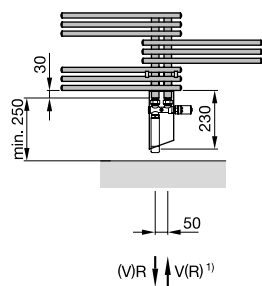
Double-layer



Electric operation:



Mixed operation:



- H = Height
- H₁ = 150 mm
- L = Length
- K = Bracket
- WA = Wall clearance
- V = Flow
- R = Return

1) Flow is possible on both sides of the fitting

Dimensions in mm

Detail of fittings with electric heating element IRVAR and cover plate.



Radiator surface: Chrome



Hot water operation

Zehnder Yucca Asym decorative radiator made from horizontally arranged precision steel tubes and vertical header tubes, without visible welds and fully welded due to capstan welding technology.

Sets of 3 horizontal tubes each branch asymmetrically from the laterally arranged collectors. Towels can be slid in from the side to warm or dry. Single or double-layer version. Header tubes Ø 30 mm, horizontal tubes Ø 20 mm.

Thermal outputs to EN 442, with CE marking.

4 x ½" connection at the ends of the header tubes for flow, return, electric heating element and venting. Connection size 50 mm for using a fitting in single- or twin-tube operation.

Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome on request. Delivered ready to install with matching wall brackets in colour of radiator.

Electric operation

Zehnder Yucca Asym decorative radiator, electric-only, made from horizontally arranged precision steel tubes and vertical header tubes, sets of 3 horizontal tubes each branch asymmetrically from the laterally arranged collectors. Equipped with integrated electric heating element IRVAR with patented dry-running protection against operation without sufficient heat transfer liquid, for mains power supply of 230 V ± 10%. Electric heating element IRVAR integrated in left-hand header tube at bottom, with painted cover sleeve. 3-core connection cable, 1.2 m in length, with safety plug. Separate, battery-operated infrared control device for wall mounting for controlling the room temperature or controlling the internal operating temperature from 35 to 70 °C.

Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome on request. Delivered ready to install with matching wall brackets in colour of radiator.

Operating pressure	max. 12,0 bar	Output	 Watt
Operating temperature	max. 110 °C	Height	 mm
Height	 mm	Length	 mm
Length	 mm	Model	.....
Model	.....		

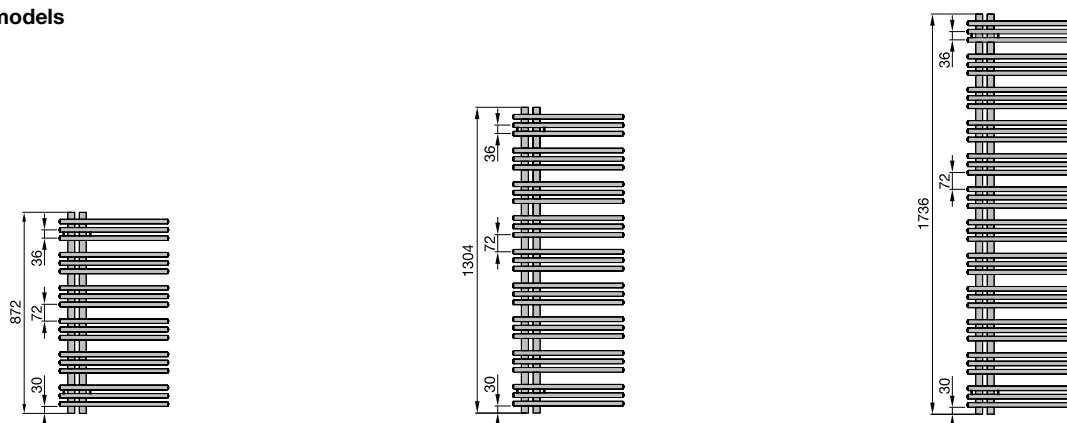
Benefits

- Small depth
- Easy to clean (lambswool cleaning brush)
- Ideal for hanging up towels
- Can be used as a room divider
- Transparent look
- Connection from top possible
- Mixed operation with fitting possible
- Right-hand or left-hand installation possible

Special benefits for electric operation with IRVAR

- Optionally regulated room temperature or regulated medium temperature
- Weekly programme
- Timer function
- Dry-running protection
- Ready-to-plug

Overview of models



Connection to hot water central heating system or for mixed operation

Painted version

Model	H	L	Thermal output				Exp.	Classification Electric heating element	V	M	Price RAL 9016	Price ^① Cat. 1	Article number ^② RAL 9016
	mm	mm	EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt								n	Watt	dm³	kg	€	€
Single-layer version													
YA-130-040	1304	378	430	305	185	223	1,27	300	3,6	11,1	681,08	783,23	ZY300338B100000
YA-170-040	1736	378	571	405	246	296	1,27	300	4,8	14,8	796,56	916,02	ZY300638B100000
YA-090-050	872	478	351	250	152	183	1,26	300	2,8	9,2	583,58	671,10	ZY300148B100000
YA-130-050	1304	478	517	367	223	268	1,27	300	4,2	13,3	708,37	814,64	ZY300348B100000
YA-170-050	1736	478	686	486	296	356	1,27	600	5,6	17,9	828,53	952,80	ZY300648B100000
YA-130-060	1304	578	599	425	258	311	1,27	600	4,7	15,8	735,70	846,04	ZY300358B100000
YA-170-060	1736	578	795	564	342	412	1,27	600	6,3	21,1	860,51	989,59	ZY300658B100000

Double-layer version

YAD-130-040	1304	378	628	443	267	322	1,29	600	5,7	19,4	858,16	986,90	ZY400338B100000
YAD-170-040	1736	378	825	580	348	421	1,30	600	7,7	25,9	1.004,06	1.154,68	ZY400638B100000
YAD-090-050	872	478	529	374	226	273	1,28	300	4,6	16,0	734,92	845,15	ZY400148B100000
YAD-130-050	1304	478	763	538	324	392	1,29	600	6,9	23,9	892,51	1.026,40	ZY400348B100000
YAD-170-050	1736	478	1002	705	423	512	1,30	900	9,1	32,0	1.044,65	1.201,34	ZY400648B100000
YAD-130-060	1304	578	893	630	380	458	1,29	600	8,0	28,7	926,82	1.065,86	ZY400358B100000
YAD-170-060	1736	578	1173	825	495	599	1,30	900	10,6	38,9	1.101,58	1.266,81	ZY400658B100000

Chrome-plated version

Model	H	L	Thermal output				Exp.	Classification Electric heating element	V	M	Price Chrome €	Article number Chrome
	mm	mm	EN 442 ③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
Single-layer version												
YAC-130-040	1304	378	308	217	130	157	1,30	300	3,6	11,1	1.371,88	ZY300338CR000000
YAC-170-040	1736	378	408	286	171	207	1,31	300	4,8	14,8	1.488,24	ZY300638CR000000
YAC-090-050	872	478	254	179	108	130	1,29	300	2,8	9,2	1.272,88	ZY300148CR000000
YAC-130-050	1304	478	371	261	157	189	1,30	300	4,2	13,3	1.400,07	ZY300348CR000000
YAC-170-050	1736	478	492	345	206	250	1,31	300	5,6	17,9	1.521,10	ZY300648CR000000
YAC-130-060	1304	578	432	304	182	221	1,30	300	4,7	15,8	1.427,38	ZY300358CR000000
YAC-170-060	1736	578	572	401	240	291	1,31	600	6,3	21,1	1.552,93	ZY300658CR000000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

Estimated to be available with electric heating element IRVAR until the middle of 2016, then with new electric heating element (see new products price list, mid-2016).

Electric-only operation

Painted version

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
-------	----------------------	---------	--	------------------------	-----------------------------------	---

Single-layer version, right-hand

YAER-130-40/RD	1454	378	300	1.234,67	1.358,12	ZY310338B100000
YAER-090-50/RD	1022	478	300	1.140,85	1.254,92	ZY310148B100000
YAER-130-50/RD	1454	478	300	1.257,20	1.382,91	ZY310348B100000
YAER-130-60/RD	1454	578	600	1.287,94	1.416,73	ZY310358B100000
YAER-170-60/RD	1886	578	600	1.519,10	1.671,03	ZY310658B100000

Single-layer version, left-hand

Yael-130-40/RD	1454	378	300	1.234,67	1.358,12	ZY3K0338B100000
Yael-090-50/RD	1022	478	300	1.140,85	1.254,92	ZY3K0148B100000
Yael-130-50/RD	1454	478	300	1.257,20	1.382,91	ZY3K0348B100000
Yael-130-60/RD	1454	578	600	1.287,94	1.416,73	ZY3K0358B100000
Yael-170-60/RD	1886	578	600	1.519,10	1.671,03	ZY3K0658B100000

Double-layer version, right-hand

YADER-130-50/RD	1454	478	600	1.561,14	1.717,24	ZY410348B100000
YADER-170-60/RD	1886	578	900	1.750,27	1.925,31	ZY410658B100000

Double-layer version, left-hand

YADEL-130-50/RD	1454	478	600	1.561,14	1.717,24	ZY4K0348B100000
YADEL-170-60/RD	1886	578	900	1.750,27	1.925,31	ZY4K0658B100000

Chrome-plated version

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price Chrome €	Article number Chrome
-------	----------------------	---------	--	----------------------	--------------------------

Single-layer version, right-hand

YAECR-130-40/RD	1454	378	300	1.899,22	ZY310338CR00000
YAECR-090-50/RD	1022	478	300	1.803,97	ZY310148CR00000
YAECR-130-50/RD	1454	478	300	1.922,60	ZY310348CR00000
YAECR-130-60/RD	1454	578	300	1.953,39	ZY310358CR00000
YAECR-170-60/RD	1886	578	600	2.185,25	ZY310658CR00000

Single-layer version, left-hand

YAECL-130-40/RD	1454	378	300	1.899,22	ZY3K0338CR00000
YAECL-090-50/RD	1022	478	300	1.803,97	ZY3K0148CR00000
YAECL-130-50/RD	1454	478	300	1.922,60	ZY3K0348CR00000
YAECL-130-60/RD	1454	578	300	1.953,39	ZY3K0358CR00000
YAECL-170-60/RD	1886	578	600	2.185,25	ZY3K0658CR00000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections for flow, return, venting
- 2 x ½" directional air vent
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with non-flammable heat transfer liquid
- Electric heating element IRVAR with infrared control device
- Matching cover sleeve for IRVAR in colour of the radiator
- Mounting accessories in colour of radiator
- Packaging

① For special colours in categories 1 and 2, see special solutions and colour chart

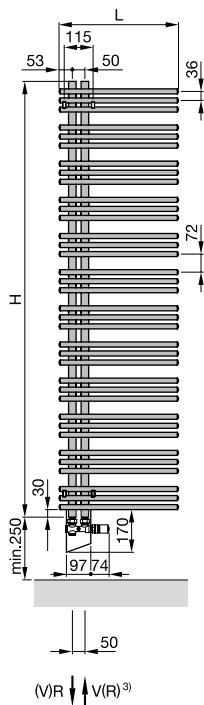
② For article numbers for special colours in category 1, see keyword list

④ Total height incl. electric heating element and cover

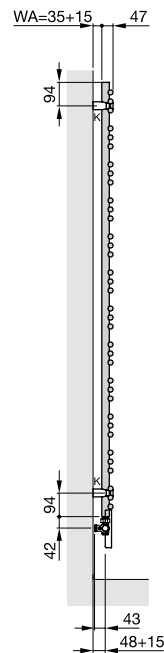
Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	6500011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8-13%)	6500012332	147,23
■ Electric heating elements for mixed operation	-	See page 116 onwards
■ Accessories	-	See page 110
■ Lambswool cleaning brush	601040	40,40
■ Fitting with short cover (hot water operation only), cover in white	976021	115,42
■ Fitting with short cover (hot water operation only), cover in special finish	976029	123,70
■ Fitting with short cover (hot water operation only), cover in chrome	976028	153,28
■ Fitting with long cover (for mixed operation with IRVAR), cover in white	976011	115,42
■ Fitting with long cover (for mixed operation with IRVAR), cover in special finish	976019	123,70
■ Fitting with long cover (for mixed operation with IRVAR), cover in chrome	976018	153,28
■ Zehnder thermostat DH, M 30 x 1.5, white	819050	23,42
■ Zehnder thermostat DH, M 30 x 1.5, chrome	819058	35,68
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

Hot water operation:

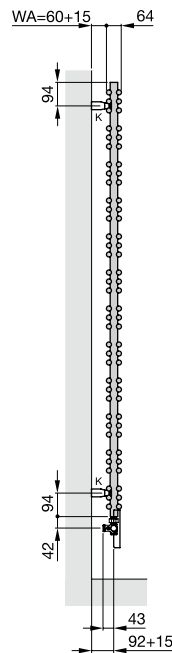
Right-hand version



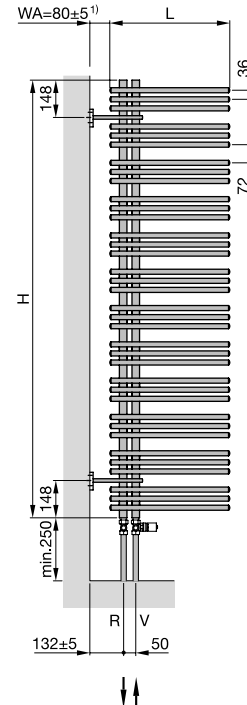
Single-layer



Double-layer



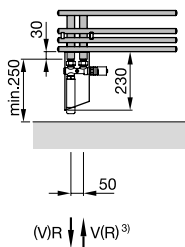
Room divider installation ²⁾



Mixed operation:

Detailed view

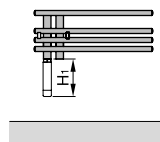
Right-hand version



Electric operation:

Detailed view

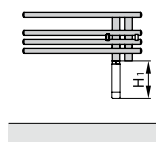
Right-hand version



Electric operation:

Detailed view

Left-hand version



H = Height
H₁ = 150 mm
L = Length
K = Bracket
WA = Wall clearance
V = Flow
R = Return

¹⁾ Brackets with modified wall clearance on request

²⁾ Mixed operation with room divider installation only possible when T-piece is used (see accessories)

³⁾ Flow is possible on both sides of the fitting

Fitting with integrated electric heating element
IRVAR and cover

Dimensions in mm

Zehnder Yucca Star

Product description



Radiator surface: Chrome



Suitable for open heating systems

Hot water operation

Zehnder Yucca Star decorative radiator made from horizontally arranged precision brass tubes, without visible welds and fully welded due to capstan welding technology.

Sets of tubes of 5 horizontal tubes each branch asymmetrically from the centrally arranged collectors. Towels can be slid in from the side to warm or dry. Single-layered version. Manifold tubes Ø 30 mm, horizontal tubes Ø 20 mm.

Thermal output to EN 422, with CE marking.

4 x 1/2" connection at the ends of the manifold tubes for flow, return and air vent. Connection 50 mm for connection in single or double tube operation.

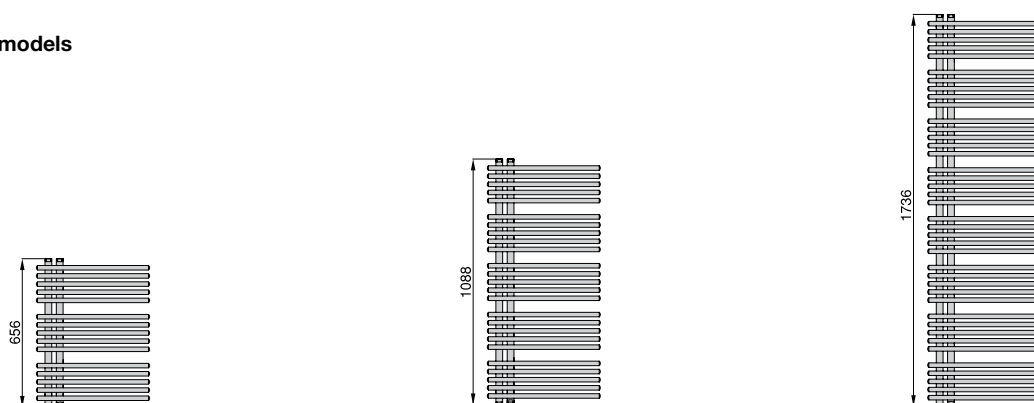
Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome. Delivered ready to install with matching wall brackets in colour of radiator.

Benefits

- Small depth
- Easy to clean (lambswool cleaning brush)
- Convenient hanging of towels from the side
- Rounded edges
- Transparent look
- For open and closed heating systems
- Right-handed or left-handed installation possible

Maximum operating pressure	max. 12,0 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Overview of models



Connection to hot water central heating system, open heating systems or for mixed operation

Painted version

Model	H	L	Thermal output				Exp.	Classification of immersion heater	V	M	Price RAL 9016 €	Price① Cat. 1 €
	mm	mm	EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
Single-layered version												
YAS-070-050	656	500	309	220	135	162	1,25	-	2,6	6,0	659,58	758,51
YAS-120-050	1088	500	492	349	212	254	1,28	300	4,4	9,8	894,08	1.028,19
YAS-180-050	1736	500	759	535	323	390	1,29	600	6,8	15,8	1.267,85	1.458,01

Chrome-plated version

Model	H	L	Thermal output				Exp.	Classification of immersion heater Watt	V dm³	M kg	Price Chrome €
	mm	mm	EN 442® Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
Single-layered version											
YASC-070-050	656	500	203	143	86	104	1,30	-	2,6	6,0	1.248,65
YASC-120-050	1088	500	338	238	143	173	1,30	300	4,4	9,8	1.517,00
YASC-180-050	1736	500	544	381	228	276	1.31	300	6.8	15.8	1.942.05

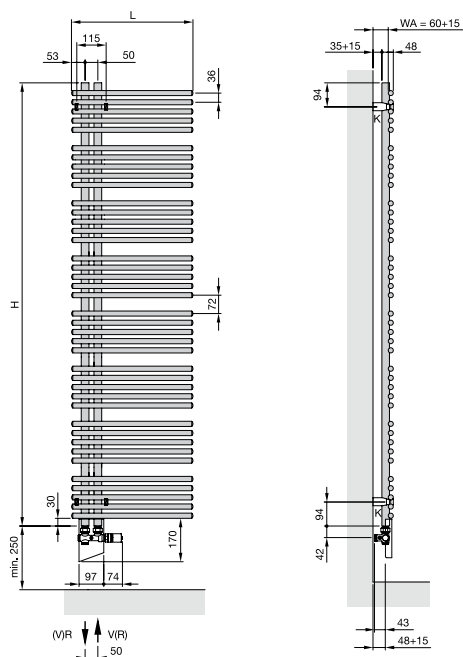
Standard scope of delivery for hot water operation and open heating systems

- Powder coating to DIN 55900, RAL 9016
- 2 x ½" connections, for flow, return, air vent
- Mounting accessories in colour of radiator
- 2 x ½" chrome air vents
- Packaging

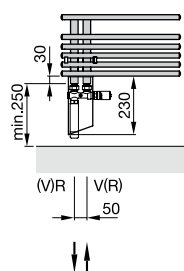
① For special colours in categories 1 and 2, see "Special versions" and colour chart
 ② For article numbers for special colours in category 1, see last page and colour chart
 ③ Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Special version on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	6500011640	98,15
■ Surface in metal look: stainless steel look, surcharge on cat. 1 (reduced output approx. 8-13%)	6500012332	147,23
■ Immersion heaters for mixed operation	-	See page 116 onwards
■ Accessories	-	See page 110
■ Lambswool cleaning brush	601040	40,40
■ Connection fittings with short cover (pure central heating operation), cover in white	976021	115,42
■ Connection fittings with short cover (pure central heating operation), cover in special finish	976029	123,70
■ Connection fittings with short cover (pure central heating operation), cover in chrome	976028	153,28
■ Connection fittings with long cover (for mixed operation), cover in white	976011	115,42
■ Connection fittings with long cover (for mixed operation), cover in special finish	976019	123,70
■ Connection fittings with long cover (for mixed operation), chrome-plated cover	976018	153,28
■ Zehnder thermostat DH, M 30 x 1.5, white	819050	23,42
■ Zehnder thermostat DH, M 30 x 1.5, chrome	819058	35,68
■ Zehnder Comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

Hot water operation and open heating systems: Right-handed version



Mixed operation: Detailed view Right-handed version



H = Height
 L = Length
 K = Bracket
 WA = Wall clearance
 V = Flow
 R = Return

Dimensions in mm

Zehnder Yucca Cover

Product description



Radiator colour: Beige Quartz



Hot water operation

Zehnder Yucca Cover decorative radiator made from horizontal precision steel tubes and vertical header tubes, which are covered by a radiation panel. No visible welds and fully welded due to capstan welding technology. Sets of 5 horizontal tubes each branch asymmetrically from the laterally arranged collectors. Towels can be slid in from the side to warm or dry. Header tubes Ø 30 mm, horizontal tubes Ø 20 mm.

Thermal output measured according to EN 442, with CE marking.
4 x ½" connections at the ends of the header tubes, at bottom for installing the fitting and at top for venting. Fittings for single- and twin-tube systems (connection size 50 mm) with preset valve on right, flow possible on both sides, with Zehnder thermostat; with ½" female thread connection for electric heating element at bottom left (an electric heating element can be retrofitted when the fitting is removed). Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request, can be combined with painted, chrome or stainless-steel cover. Delivered ready to install with matching wall brackets in colour of radiator.

Operating pressure	max. 12,0 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Benefits

- Easy to clean
- Ideal use: towels can be hung up from the side
- New design with 5-tube arrangement
- Ready to connect with fittings
- Hidden wall attachment
- Mixed operation possible

Electric operation

Zehnder Yucca Cover decorative radiator, electric-only, made from horizontal precision steel tubes and vertical header tubes, which are covered by a radiation cover. No visible welds and fully welded due to capstan welding technology. Sets of 5 horizontal tubes each branch asymmetrically from the laterally arranged collectors. Towels can be slid in from the side to warm or dry. Header tubes Ø 30 mm, horizontal tubes Ø 20 mm.

Electric heating element IRVAR, for mains power supply of 230 V ± 10% installed in the left header tube at the bottom, with painted cover sleeve and connection cable (1.2 m long). Separate, battery-operated infrared control device for wall mounting for controlling the room temperature or controlling the internal operating temperature from 35 to 70 °C.

Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request, can be combined with painted, chrome or stainless-steel cover. Delivered ready to install with matching wall brackets in colour of radiator.

Output	 Watt
Height	 mm
Length	 mm
Model	.....

Special benefits for electric operation with IRVAR

- Optionally regulated room temperature or regulated medium temperature
- Weekly programme
- Timer function
- Dry-running protection
- Ready-to-plug

Connection to hot water central heating system or for mixed operation

Painted version, one- or two-tone, or cover in brushed stainless steel^⑤

Model	H	L	Thermal output				Exp.	Classification Electric heating element	V	M	Price RAL 9016	Price ^① Cat. 1	Article number ^② RAL 9016
	mm	mm	EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt								n	Watt	dm³	kg	€	€
Right-hand version													
YPR-150-60	1612	582	711	503	304	367	1,28	600	5,9	22,4	1.051,15	1.189,26	ZY801158B1B1000
YPR-180-60	1828	582	805	566	340	411	1,30	600	6,7	25,5	1.186,97	1.352,48	ZY801258B1B1000
Left-hand version													
YPL-150-60	1612	582	711	503	304	367	1,28	600	5,9	22,4	1.051,15	1.189,26	ZY821158B1B1000
YPL-180-60	1828	582	805	566	340	411	1,30	600	6,7	25,5	1.186,97	1.352,48	ZY821258B1B1000

Version with tubes painted in RAL 9016 or colour category 1, chrome-plated cover

Model	H	L	Thermal output				Exp.	Classification Electric heating element	V	M	Price	Article number
	mm	mm	EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							n	Watt	dm³	kg	€	RAL 9016 / Chrom
Right-hand version												
YPR-150-60	1612	582	683	483	292	352	1,28	600	5,9	22,4	1.544,20	ZY801158B1CR000
YPR-180-60	1828	582	772	543	326	394	1,30	600	6,7	25,5	1.703,98	ZY801258B1CR000
Left-hand version												
YPL-150-60	1612	582	683	483	292	352	1,28	600	5,9	22,4	1.544,20	ZY821158B1CR000
YPL-180-60	1828	582	772	543	326	394	1,30	600	6,7	25,5	1.703,98	ZY821258B1CR000

Estimated to be available with electric heating element
IRVAR until the middle of 2016, then with new electric
heating element (see new products price list, mid-2016).

Electric-only operation

Painted version, one- or two-tone, or cover in brushed stainless steel^⑤

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
Right-hand version						
YPER-150-60/RD	1685	582	600	1.506,53	1.644,64	ZY811158B1B1000
YPER-180-60/RD	1901	582	600	1.737,09	1.902,58	ZY811258B1B1000
Left-hand version						
YPEL-150-60/RD	1685	582	600	1.506,54	1.644,63	ZY8K1158B1B1000
YPEL-180-60/RD	1901	582	600	1.737,09	1.902,58	ZY8K1258B1B1000

Version with tubes painted in RAL 9016 or colour category 1, chrome-plated cover

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price €	Article number RAL 9016 / Chrom
Right-hand version					
YPER-150-60/RD	1685	582	600	1.977,90	ZY811158B1CR000
YPER-180-60/RD	1901	582	600	2.225,57	ZY811258B1CR000
Left-hand version					
YPEL-150-60/RD	1685	582	600	1.977,90	ZY8K1158B1CR000
YPEL-180-60/RD	1901	582	600	2.225,57	ZY8K1258B1CR000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers of special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ Total height incl. electric heating element

⑤ For versions with stainless-steel cover, use the colour code "BP" in the article number,
Price = special colour category 1 (for radiators in RAL 9016 or colour category 1)

Standard scope of delivery for hot water operation

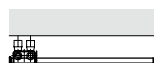
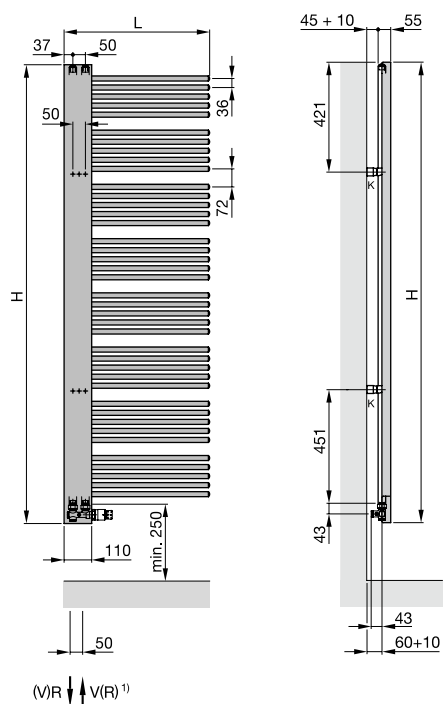
- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections for flow, return, venting
- Fitting with connection for electric heating element, concealed under cover, Zehnder thermostat
- 2 x ½" directional air vent
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

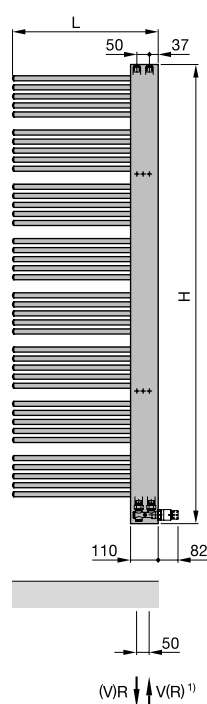
- Powder coating to DIN 55900, RAL 9016
- Filled with non-flammable heat transfer liquid
- Electric heating element IRVAR with infrared control device
- Matching sleeve for IRVAR in colour of cover
- Mounting accessories in colour of radiator
- Packaging

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	6500011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8-13%)	6500012332	147,23
■ Electric heating elements for mixed operation	-	See page 116 onwards
■ Lambswool cleaning brush	601040	40,40

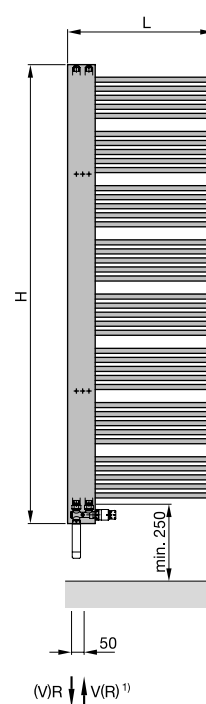
Hot water operation: Right-hand version



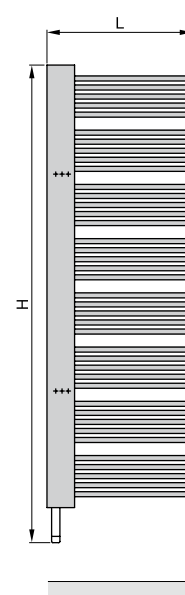
Left-hand version



Mixed operation:



Electric operation:



H = Height
L = Length
V = Flow
R = Return
K = Bracket

1) Flow is possible on both sides of the fitting

Dimensions in mm

Zehnder Yucca Mirror

Product description



Radiator surface: Chrome



Hot water operation

Zehnder Yucca Mirror decorative radiator made from horizontally arranged precision steel tubes and vertical header tubes. Fully welded. Thermal output to EN 442, with CE marking.
8 sets of 5 horizontal tubes each branch laterally right or left from the header tubes. The asymmetrically arranged header tubes are covered by a mirror that gives the radiator a clear, linear design.
Vertical header tubes Ø 30 mm, horizontal tubes Ø 20 mm.
For connecting to the hot water central heating system; 2 x ½" connections at bottom, spacing 50 mm and 2 x ½" at top for venting.
Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome on request. Delivered ready to install with matching wall brackets in colour of radiator.

Electric operation

Zehnder Yucca Mirror decorative radiator, electric-only, made from horizontally arranged precision steel tubes and vertical header tubes. Fully welded. 8 sets of 5 horizontal tubes each branch laterally right or left from the header tubes. The asymmetrically arranged header tubes are concealed by a mirror.
Vertical header tubes Ø 30 mm, horizontal tubes Ø 20 mm.
Electric heating element IRVAR, for mains power supply of 230 V ± 10% installed in the left header tube at the bottom, with painted cover sleeve and connection cable (1.2 m long). Separate, battery-operated infrared control device for wall mounting for controlling the room temperature or controlling the internal operating temperature from 35 to 70 °C.
Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome on request. Delivered ready to install with matching wall brackets in colour of radiator.

Operating pressure	max. 12,0 bar	Output	 Watt
Operating temperature	max. 110 °C	Height	1903 mm
Height	1766 mm	Length	600 mm
Length	600 mm	Model	.....
Model	.....		

Benefits

- Modern, simple look
- Right-hand or left-hand installation possible
- Classic mirror shape

Special benefits for electric operation with IRVAR

- Optionally regulated room temperature or regulated medium temperature
- Weekly programme
- Timer function
- Dry-running protection
- Ready-to-plug

Connection to hot water central heating system

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
YM-180-60	1766	600	755	531	319	386	1,30	600	6,7	30,0	1.658,34	1.807,84	ZY701258B100000

Chrome-plated version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Chrome €	Article number Chrome
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
YMC-180-60	1766	600	528	368	219	266	1,33	300	6,7	30,0	2.485,80	ZY701258CR00000

Estimated to be available with electric heating element
IRVAR until the middle of 2016, then with new electric
heating element (see new products price list, mid-2016).

Electric-only operation

Painted version

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number RAL 9016
-------	----------------------	---------	--	------------------------	-----------------------------------	----------------------------

Right-hand version

YMER-180-60/RD	1903	600	600	2.210,73	2.343,12	ZY711258B100000
-----------------------	------	-----	-----	-----------------	-----------------	-----------------

Left-hand version

YMEL-180-60/RD	1903	600	600	2.210,73	2.343,12	ZY7K1258B100000
-----------------------	------	-----	-----	-----------------	-----------------	-----------------

Chrome-plated version

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price Chrome €	Article number Chrome
-------	----------------------	---------	--	----------------------	--------------------------

Right-hand version

YMECR-180-60/RD	1903	600	300	3.002,81	ZY711258CR00000
------------------------	------	-----	-----	-----------------	-----------------

Left-hand version

YMECL-180-60/RD	1903	600	300	3.002,81	ZY7K1258CR00000
------------------------	------	-----	-----	-----------------	-----------------

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ Total height incl. electric heating element

Zehnder Yucca Mirror

Prices and technical specifications



Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x 1/2" connections for flow, return, venting
- 2 x 1/2" directional air vent
- Mounting accessories in colour of radiator
- Mirror
- Packaging

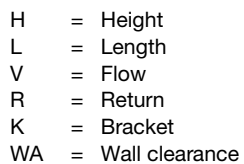
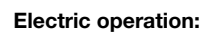
Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with non-flammable heat transfer liquid
- Electric heating element IRVAR with infrared control device
- Matching sleeve for IRVAR in colour of radiator
- Mirror
- Mounting accessories in colour of radiator
- Packaging

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	6500011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8-13%)	6500012332	147,23
■ Fitting with long or short cover in colour of the radiator	-	See page 119
■ Electric heating elements for mixed operation	-	See page 116 onwards
■ Lambswool cleaning brush	601040	40,40
■ Zehnder thermostat SH, M 30 x 1.5, white	819080	25,46
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	35,76
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

zehnder

Hot water operation:
Right-hand version



1) Flow is possible on both sides of the fitting

Dimensions in mm

Product description



Radiator surface: Anodised aluminium



Hot water operation

Zehnder Vitalo Spa decorative radiator with smooth aluminium front and back plus copper tube heating register in graphite/aluminium construction. Surrounding, sealed frame of black polyamide. One or two cut-outs, depending on the height, to keep towels warm. Thermal output to EN 442, with CE marking. With two ½" female thread connections for flow and return, positioned at bottom centre, spacing 50 mm. Completto version with concealed Zehnder EasyFit connection box with flow/return 2 x ¾" external thread to the rear, centred 50 mm clearance, including valve and adjustment dial and folding mechanism for installation. Radiator with powder coating, in colour RAL 9016 as standard, or in special colour or with an anodised aluminium surface on request, delivered ready to install with wall brackets and packaging.

Electric operation

Zehnder Vitalo Spa decorative radiator with smooth aluminium front and back plus heating cable in graphite/aluminium construction. Surrounding, sealed frame of black polyamide. One or two cut-outs, depending on the height, to keep towels warm. With CE marking. Operated by separate battery-driven remote control device and no visible control elements on the radiator. VDE tested, with round-pin plug, cable length 1.2 m, for supply voltage of 230 V ± 10%, room temperature control with variously adjustable operating modes. Radiator with powder coating, in colour RAL 9016 as standard, or in special colour or with an anodised aluminium surface on request, delivered ready to install with wall brackets and packaging.

Operating pressure	max. 10 bar	Output	 Watt
Operating pressure Zehnder EasyFit	max. 6 bar	Height	 mm
Operating temperature	max. 80 °C	Length	 mm
Height	 mm	Model	.....
Length	 mm		
Model	.....		

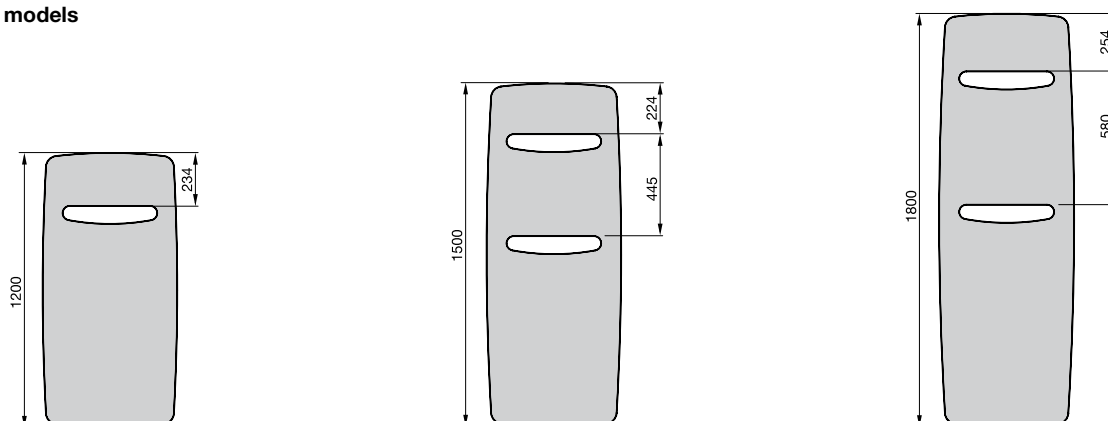
Benefits

- Innovative technology for efficient heating
- Extremely slim and noticeably light
- High proportion of radiation
- A striking profile for a distinctive look
- Cut-out(s) to heat towels
- Hygienic and simple to clean
- Supports integrated connection thanks to Zehnder EasyFit

Special benefits for electric operation

- Fast thermal radiation
- Remote control device can be positioned as required
- Regulated room temperature
- Daily and weekly programme
- Timer function
- Ready-to-plug

Overview of models



Connection to hot water central heating system, 50 mm centre connections

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Electric output Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
VIT-120-050	1200	490	483	349	218	260	1,20	-	0,6	7,1	852,45	995,75	ZV200349B100000
VIT-150-050	1500	490	605	435	269	322	1,22	-	0,7	8,4	1.006,29	1.150,64	ZV200449B100000
VIT-180-050	1800	490	714	516	322	384	1,20	-	0,8	10,2	1.125,35	1.313,97	ZV200649B100000
VIT-120-060	1200	590	595	426	263	315	1,23	-	0,7	8,6	878,79	1.025,26	ZV200359B100000
VIT-150-060	1500	590	703	507	315	376	1,21	-	0,8	9,8	1.037,90	1.185,42	ZV200459B100000
VIT-180-060	1800	590	869	626	390	465	1,21	-	1,0	11,9	1.160,13	1.351,90	ZV200659B100000
VIT-180-070	1800	690	1036	742	458	549	1,23	-	1,1	14,0	1.276,04	1.468,86	ZV200669B100000

Connection to hot water central heating system, Zehnder EasyFit connection box

Painted version

Model	H ^④ mm	L mm	Thermal output				Exp. n	Electric output Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
VITK-120-050	1225	490	483	349	218	260	1,20	-	0,6	9,6	1.094,80	1.238,10	ZV210349B100000
VITK-150-050	1525	490	605	435	269	322	1,22	-	0,7	10,9	1.248,64	1.392,99	ZV210449B100000
VITK-180-050	1825	490	714	516	322	384	1,20	-	0,8	12,7	1.367,70	1.556,32	ZV210649B100000
VITK-120-060	1225	590	595	426	263	315	1,23	-	0,7	11,1	1.121,14	1.267,61	ZV210359B100000
VITK-150-060	1525	590	703	507	315	376	1,21	-	0,8	12,3	1.280,25	1.427,77	ZV210459B100000
VITK-180-060	1825	590	869	626	390	465	1,21	-	1,0	14,4	1.402,48	1.594,25	ZV210659B100000
VITK-180-070	1825	690	1036	742	458	549	1,23	-	1,1	16,5	1.518,39	1.711,21	ZV210669B100000

Electric-only operation

Painted version

Model	H mm	L mm	Electric output Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
VITE-150-050/FD	1500	490	500	1.318,18	1.462,54	ZV220449B100000
VITE-180-050/FD	1800	490	750	1.474,13	1.662,74	ZV220649B100000
VITE-150-060/FD	1500	590	750	1.359,27	1.506,79	ZV220459B100000
VITE-180-060/FD	1800	590	750	1.520,49	1.711,21	ZV220659B100000
VITE-180-070/FD	1800	690	1000	1.671,17	1.864,00	ZV220669B100000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see the keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ Total height incl. Zehnder EasyFit connection box

Electric-only operation

Anodised aluminium version

Model	H mm	L mm	Electric output Watt	Price Anod. alu. €	Article number
VITES-150-50/FD	1500	490	350	1.462,54	ZV230449B800000
VITES-180-50/FD	1800	490	500	1.662,74	ZV230649B800000
VITES-150-60/FD	1500	590	500	1.506,79	ZV230459B800000
VITES-180-60/FD	1800	590	500	1.711,21	ZV230659B800000
VITES-180-70/FD	1800	690	750	1.864,00	ZV230669B800000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 2 x 1/2" connections for flow/return, central, 50 mm
- 1/2" chrome directional air vent
- Mounting accessories in colour of radiator
- Packaging
- 2 x double nipple 3/4" external thread x 1/2" external thread for joining to fitting

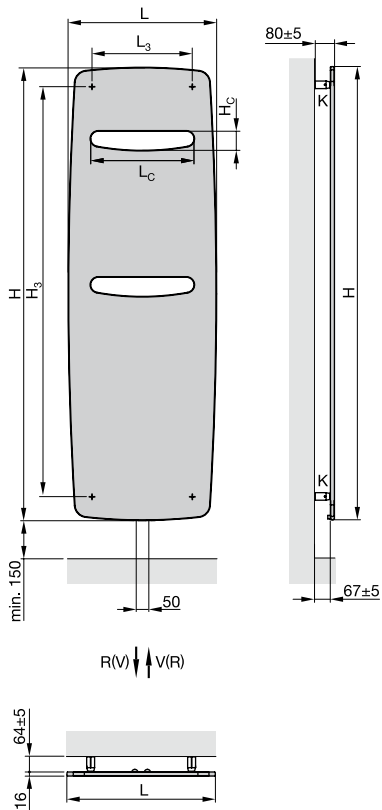
Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Remote control device, incl. batteries, selectable operating modes: off, frost protection, economy, automatic, comfort
- Mounting accessories in colour of radiator
- Packaging

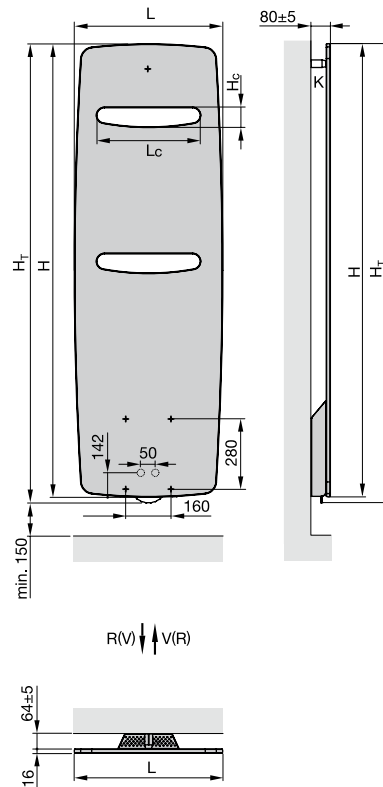
Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	A700011640	98,15
■ Surface in metal look: Anodised aluminium	-	As in Cat. 1
■ Integrated valve incl. thermostat; note Zehnder EasyFit table	-	See table
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120
■ Fitting, straight	841168	See page 119
■ Fitting, angled	841158	See page 119

Technology

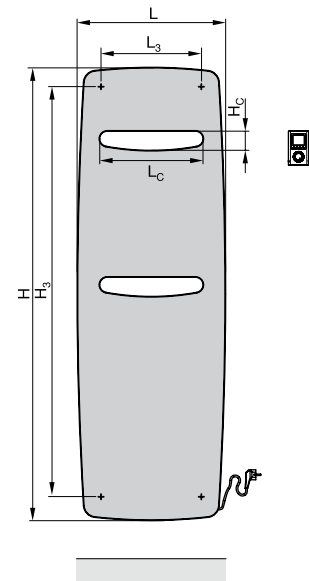
Hot water operation: Wall mounting



Hot water operation with Zehnder EasyFit connection box¹⁾:



Electric operation:



Dimensions of cut-outs and fixing points

H mm	L mm	H _C mm	L _C mm	H ₃ mm	L ₃ mm
1200	490	69	330	1043	320
1500	490	69	330	1344	310
1800	490	69	330	1645	299
1200	590	76	410	1032	421
1500	590	76	410	1333	410
1800	590	76	410	1635	399
1800	690	85	495	1621	500

- H = Height
- L = Length
- H_T = Total height, H + 25 mm
- H_C = Height of cut-out ²⁾
- L_C = Length of cut-out ²⁾
- H₃ = Spacing of vertical attachment
- L₃ = Spacing of horizontal attachment
- V = Flow
- R = Return
- K = Bracket

Dimensions in mm

¹⁾ Without internal by-pass for single-tube operation

²⁾ Number of cut-outs: 1 x for H = 1200 mm, 2 x for H = 1500 and 1800 mm

Zehnder Vitalo Bar

Product description



Radiator colour: Violet



Hot water operation

Zehnder Vitalo Bar decorative radiator with smooth aluminium front and back plus copper tube heating register in graphite/aluminium construction. Surrounding, sealed frame of black polyamide. Includes one or two chrome towel rails, depending on the model. Thermal output to EN 442, with CE marking. With two 1/2" female thread connections for flow and return, positioned at bottom centre, spacing 50 mm. Completo version with concealed Zehnder EasyFit connection box with flow/return 2 x 3/4" external thread to the rear, centred 50 mm clearance, including valve and adjustment dial and folding mechanism for installation. Radiator with powder coating, in colour RAL 9016 as standard, or in special colour or with an anodised aluminium surface on request, delivered ready to install with wall brackets and packaging.

Electric operation

Zehnder Vitalo Bar decorative radiator with smooth aluminium front and back plus heating cable in graphite/aluminium construction. Surrounding, sealed frame of black polyamide. Includes one or two chrome towel rails, depending on the model. With CE marking. Operated by separate battery-driven remote control device and no visible control elements on the radiator. VDE tested, with round-pin plug, cable length 1.2 m, for supply voltage of 230 V ± 10%, room temperature control with variously adjustable operating modes. Radiator with powder coating, in colour RAL 9016 as standard, or in special colour or with an anodised aluminium surface on request, delivered ready to install with wall brackets and packaging.

Operating pressure	max. 10 bar
Operating pressure Zehnder EasyFit	max. 6 bar
Operating temperature	max. 80 °C
Height	 mm
Length	 mm
Model	.....

Output	 Watt
Height	 mm
Length	 mm
Model	.....

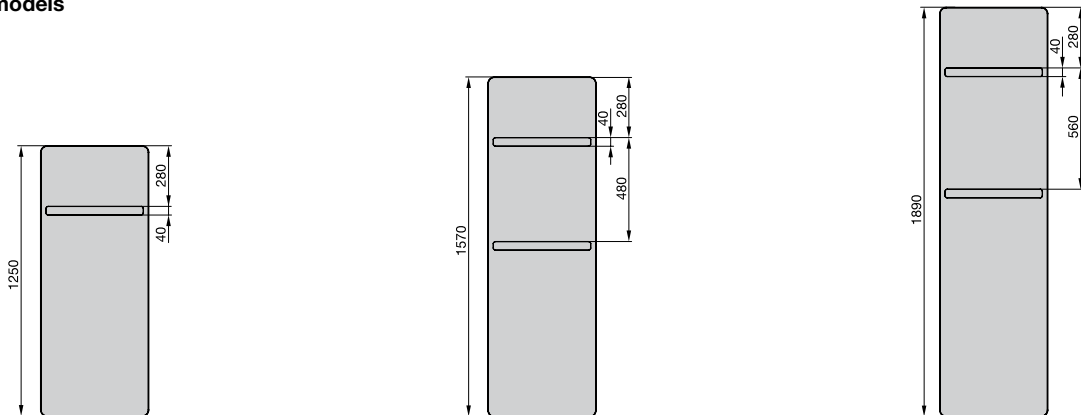
Benefits

- Innovative technology for efficient heating
- Extremely slim and noticeably light
- High proportion of radiation
- A striking profile for a distinctive look
- Simple accommodation of textiles with towel rail accessible from one side
- Hygienic and simple to clean
- Supports integrated connection thanks to Zehnder EasyFit

Special benefits for electric operation

- Fast thermal radiation
- Remote control device can be positioned as required
- Regulated room temperature
- Daily and weekly programme
- Timer function
- Ready-to-plug

Overview of models



Connection to hot water central heating system, 50 mm centre connections

Painted version with towel rail in chrome

Model	H mm	L mm	Thermal output				Exp. n	Electric output W	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
VIP-125-040	1250	400	465	334	207	248	1,22	-	0,7	7,0	950,44	1.093,74	ZV101240B100000
VIP-160-040	1570	400	546	394	246	294	1,20	-	0,7	9,3	1.121,14	1.266,55	ZV101640B100000
VIP-190-040	1890	400	673	485	302	360	1,21	-	0,9	10,9	1.254,96	1.443,57	ZV101940B100000
VIP-125-050	1250	500	555	399	247	295	1,22	-	0,8	8,7	969,40	1.115,87	ZV101250B100000
VIP-160-050	1570	500	676	487	303	362	1,21	-	0,9	11,4	1.144,32	1.291,84	ZV101650B100000
VIP-190-050	1890	500	834	601	374	446	1,21	-	1,1	12,7	1.280,25	1.472,02	ZV101950B100000
VIP-125-060	1250	600	641	462	287	343	1,21	-	0,9	10,5	999,97	1.147,48	ZV101260B100000
VIP-160-060	1570	600	806	581	361	431	1,21	-	1,0	13,6	1.181,20	1.341,37	ZV101660B100000
VIP-190-060	1890	600	994	716	446	532	1,21	-	1,3	14,6	1.320,29	1.513,11	ZV101960B100000

Connection to hot water central heating system, Zehnder EasyFit connection box

Painted version with towel rail in chrome

Model	H ^④ mm	L mm	Thermal output				Exp. n	Electric output Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
VIPK-125-040	1275	400	465	334	207	248	1,22	-	0,7	9,5	1.192,79	1.336,09	ZV111240B100000
VIPK-160-040	1595	400	546	394	246	294	1,20	-	0,7	11,8	1.363,49	1.508,90	ZV111640B100000
VIPK-190-040	1915	400	673	485	302	360	1,21	-	0,9	13,4	1.497,31	1.685,92	ZV111940B100000
VIPK-125-050	1275	500	555	399	247	295	1,22	-	0,8	11,2	1.211,76	1.358,22	ZV111250B100000
VIPK-160-050	1595	500	676	487	303	362	1,21	-	0,9	13,9	1.386,67	1.534,19	ZV111650B100000
VIPK-190-050	1915	500	834	601	374	446	1,21	-	1,1	15,2	1.522,60	1.714,38	ZV111950B100000
VIPK-125-060	1275	600	641	462	287	343	1,21	-	0,9	13,0	1.242,32	1.389,84	ZV111260B100000
VIPK-160-060	1595	600	806	581	361	431	1,21	-	1,0	16,1	1.423,55	1.583,72	ZV111660B100000
VIPK-190-060	1915	600	994	716	446	532	1,21	-	1,3	17,1	1.562,64	1.755,46	ZV111960B100000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see the keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ Total height incl. Zehnder EasyFit connection box

Electric-only operation

Painted version with towel rail in chrome

Model	H mm	L mm	Electric output Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
VIPE-125-040/FD	1250	400	350	1.226,51	1.370,87	ZV121240B100000
VIPE-160-040/FD	1570	400	500	1.447,78	1.592,15	ZV121640B100000
VIPE-190-040/FD	1890	400	500	1.619,54	1.808,15	ZV121940B100000
VIPE-160-050/FD	1570	500	500	1.477,29	1.624,81	ZV121650B100000
VIPE-190-050/FD	1890	500	750	1.653,26	1.845,03	ZV121950B100000
VIPE-190-060/FD	1890	600	1000	1.703,84	1.896,66	ZV121960B100000

Anodised aluminium version, with towel rail in chrome

Model	H mm	L mm	Electric output Watt	Price Anod. alu. €	Article number
VIPES-160-40/FD	1570	400	350	1.592,15	ZV131640B800000
VIPES-190-40/FD	1890	400	500	1.808,15	ZV131940B800000
VIPES-160-50/FD	1570	500	500	1.624,81	ZV131650B800000
VIPES-190-50/FD	1890	500	500	1.845,03	ZV131950B800000
VIPES-190-60/FD	1890	600	750	1.896,66	ZV131960B800000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 2 x ½" connections for flow/return, central, 50 mm
- ½" decorative chrome directional air vent
- Towel rail in chrome (1 x for 1250 mm height, 2 x for 1570 and 1890 mm height)
- Mounting accessories in colour of radiator
- Packaging
- 2 x double nipple ¾" external thread x ½" external thread for joining to fitting

Standard scope of delivery for electric operation

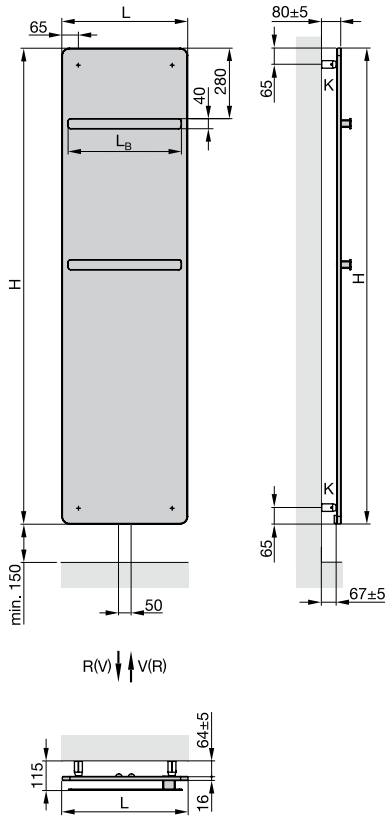
- Powder coating to DIN 55900, RAL 9016
- Remote control device, incl. batteries, selectable operating modes: off, frost protection, economy, automatic, comfort
- Towel rail in chrome (1 x for 1250 mm height, 2 x for 1570 and 1890 mm height)
- Mounting accessories in colour of radiator
- Packaging

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	A700011640	98,15
■ Surface in metal look: Anodised aluminium	-	As in Cat. 1
■ Integrated valve incl. thermostat; note Zehnder EasyFit table	-	See table
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120
■ Fitting, straight	841168	See page 119
■ Fitting, angled	841158	See page 119

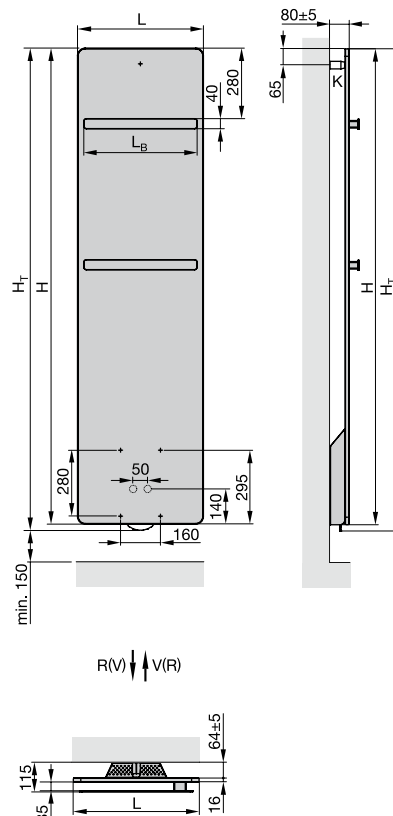
① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see the keyword list

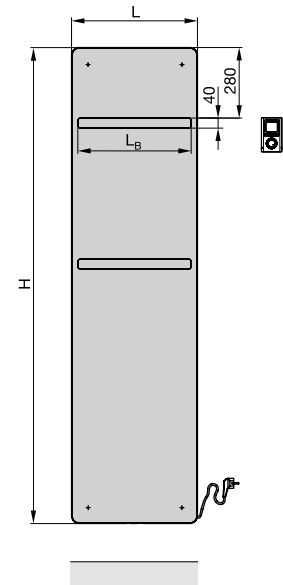
Hot water operation:
Wall mounting



Hot water operation with Zehnder EasyFit connection box¹⁾:



Electric operation:



- H = Height
- H_T = Total height, H + 25 mm
- L = Length
- L_B = Length of towel rail, L - 50 mm²⁾
- V = Flow
- R = Return
- K = Bracket

Dimensions in mm

¹⁾ Without internal by-pass for single-tube operation

²⁾ Towel rail 1 x for H = 1250 mm, 2 x for H = 1570 and 1890 mm

Zehnder Roda Twist Spa Air

Product description



Radiator colour: Strawberry



Electric operation

Zehnder Roda Twist Spa Air decorative radiator for electric-only operation; made from horizontally arranged precision flat tubes and vertical header tubes, without visible welds, fully welded. Single-sided, asymmetrically arranged flat tubes 70 x 11 mm branching laterally from the collector Ø 38 mm; radiator can be pivoted 180° from the wall; towels can be slid in from the side to warm or dry. Dual electrical heating systems, comprising electric heating element integrated into the outer collector and concealed heating fans arranged behind the radiator with flow direction downwards and forwards. Common mains power supply of 230 V ± 10% for electric heating element and heating fans, connection cable 1.2 m with Euro plug; splash-proof, IP 24, with CE marking; separate battery-operated infrared control device for controlling the electric heating element and for controlling the heating fan with different operating modes; decorative radiator filled with heat transfer liquid. Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request. Delivered ready to install with wall brackets incl. cover in colour of radiator.

Benefits

- Practical access to the hand towel from the side
- Pivotable by 180°
- Separate or mixed operation of heating element and fan possible
- Boost function for rapid heating
- Radiant heat and reheating time
- Daily programme
- Extra hygiene through cleanable air filter
- Ready-to-plug

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Electric heating element with selectable operating modes: manual (above room temperature), daily programme, off
- Electric heating fan with timer function, incl. over-heat protection
- Infrared control device incl. batteries
- Radiator filled with heat transfer liquid
- Mounting accessories for wall mounting with pivot function
- Packaging

Output	 Watt
Height	 mm
Length	 mm
Model	.....

Zehnder Roda Twist Spa Air



Prices and technical specifications

Electric-only operation

Painted version

Model	H ^① mm	L mm	Heating fan output Watt	Classification Electric heating element Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
-------	----------------------	---------	-------------------------------	--	------------------------	-----------------------------------	---

Right-hand version

ROER-100-55/IPS	966	550	1000	500	981,53	1.103,67	ZRE30155B100000
ROER-140-55/IPS	1344	550	1000	750	1.067,14	1.192,69	ZRE30255B100000
ROER-190-55/IPS	1837	550	1000	1000	1.258,88	1.424,37	ZRE30355B100000

Left-hand version

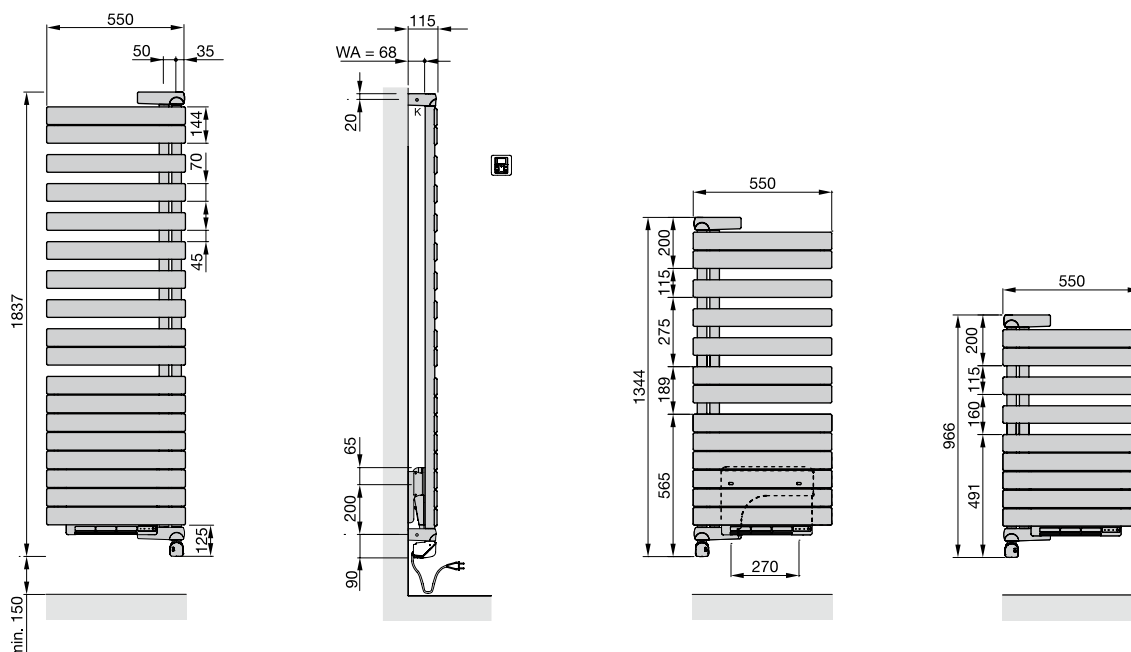
ROEL-100-55/IPS	966	550	1000	500	981,53	1.103,67	ZRE40155B100000
ROEL-140-55/IPS	1344	550	1000	750	1.067,14	1.192,69	ZRE40255B100000
ROEL-190-55/IPS	1837	550	1000	1000	1.258,88	1.424,37	ZRE40355B100000

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	R200011640	98,15
■ Towel rail, magnetic, overall length 399 mm	471108	179,91
■ Towel hook, magnetic	470328	90,50

Electric operation:

Left-hand version

Right-hand version



WA = Wall clearance

K = Bracket

Dimensions in mm

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Total height incl. electric heating element and bracket

Zehnder Charleston Mirror / Zehnder Charleston Bar



Product description



Radiator colour: Traffic White



Radiator colour: Traffic White

Hot water operation

Zehnder Charleston Mirror radiator as multi column radiator with vertical precision round tubes and header, fully welded. The individual elements are welded together into finished blocks. Header in sheet steel, round tubes in steel Ø 25 mm, mirror 230 x 1792 mm. Thermal output to EN 442, with CE marking. An integrated mirror covers six elements and improves the function and look of the radiator. Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request. Delivered ready to install with holders and wall brackets in colour of radiator. Connections for flow and return in ½" same-side on right from below and ½" venting on side at top (connections possible at bottom left through rotation).

Hot water operation

Zehnder Charleston Bar radiator with towel rail as 2-column or 3-column radiator with vertical precision round tubes and header, fully welded. The individual elements are welded together into finished blocks. Header in sheet steel, round tubes in steel Ø 25 mm. Thermal output to EN 442, with CE marking. The function of the radiator is supplemented by the chrome-plated towel rail for drying and warming towels. Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request. Delivered ready to install with holders and wall brackets in colour of radiator. Connections for flow and return in ½", central, spacing 50 mm from bottom to bottom. ½" venting on the side at the top.

Operating pressure	max. 10,0 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Operating pressure	max. 10,0 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Benefits

- Classic design
- Additional benefits: mirror, shelf
- High thermal output
- Connection left or right at bottom, 50 mm
- Matching fitting for Zehnder Vario

Benefits

- High thermal output
- Classic, timeless design
- Towel rail with variable mounting options
- Central connections, 50 mm
- Matching fitting for Zehnder Vario

Zehnder Charleston Mirror / Zehnder Charleston Bar



Prices and technical specifications

Connection to hot water central heating system

Zehnder Charleston Mirror – painted version with mirror

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ W	70/55/24 W	55/45/24 W	55/45/20 W							
CM 2180-12	1792	577	1429	1019	624	749	1,25	-	18,9	39,2	792,06	910,78	ZC422712B100000
CM 2180-16	1792	761	1942	1377	837	1007	1,27	-	25,5	49,3	927,89	1.067,14	ZC422716B100000

Connection to hot water central heating system

Zehnder Charleston Bar – painted version with chrome towel rail

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							

2-column version

CPV 2150-10	1492	485	1038	734	444	536	1,28	-	13,0	21,9	618,24	710,98	ZCA24310B115000
CPV 2180-10	1792	485	1244	872	522	632	1,31	-	15,0	26,0	671,02	771,67	ZCA24410B115000
CPV 2150-12	1492	577	1246	881	533	643	1,28	-	15,6	26,2	676,49	777,96	ZCA24312B115000
CPV 2180-12	1792	577	1493	1047	626	759	1,31	-	18,0	31,0	739,81	850,79	ZCA24412B115000
CPV 2150-14	1492	669	1453	1027	622	750	1,28	-	18,2	30,4	748,02	860,23	ZCA24314B115000
CPV 2180-14	1792	669	1742	1222	731	885	1,31	-	21,0	36,1	821,93	945,22	ZCA24414B115000
CPV 2150-16	1492	761	1661	1174	711	857	1,28	-	20,8	34,6	806,27	927,21	ZCA24316B115000
CPV 2180-16	1792	761	1991	1396	835	1012	1,31	-	24,0	41,1	890,73	1.024,34	ZCA24416B115000

3-column version

CPV 3150-10	1500	485	1402	983	588	712	1,31	-	20,0	34,7	743,38	854,87	ZCA34310B115000
CPV 3180-10	1800	485	1656	1155	686	833	1,33	-	24,0	41,2	840,86	966,99	ZCA34410B115000
CPV 3150-12	1500	577	1683	1180	706	855	1,31	-	24,0	41,3	826,64	950,63	ZCA34312B115000
CPV 3180-12	1800	577	1987	1386	823	999	1,33	-	28,8	49,1	943,65	1.085,21	ZCA34412B115000
CPV 3150-14	1500	669	1963	1377	824	997	1,31	-	28,0	47,8	923,22	1.061,71	ZCA34314B115000
CPV 3180-14	1800	669	2318	1617	960	1166	1,33	-	33,6	56,9	1.059,71	1.218,67	ZCA34414B115000
CPV 3150-16	1500	761	2243	1573	941	1140	1,31	-	32,0	54,4	1.006,49	1.157,47	ZCA34316B115000
CPV 3180-16	1800	761	2650	1848	1097	1333	1,33	-	38,4	64,7	1.162,49	1.336,86	ZCA34416B115000

Standard scope of delivery for Zehnder Charleston Mirror

- Powder coating to DIN 55900, RAL 9016
- 2 x ½" connections from and to bottom, same side 50 mm, flow outside, return inside
- ½" directional air vent
- Mounting accessories in colour of radiator
- Mirror
- Packaging

Standard scope of delivery for Zehnder Charleston Bar

- Powder coating to DIN 55900, RAL 9016
- 2 x ½" central connections 50 mm
- ½" chrome directional air vent
- Mounting accessories in colour of radiator
- Towel rail, length 412 mm for 10 and 12 elements or 596 mm for 14 and 16 elements
- Packaging

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	5600011640	98,15
■ Wooden shelf, beech wood, painted in silk matt for Zehnder Charleston Mirror	421030	210,73
■ Accessories	-	See page 110
■ Zehnder Vario fitting with cover in RAL 9016	976531	79,73
■ Zehnder Vario fitting with cover in special colour	976539	100,74
■ Zehnder thermostat LH2, M 30 x 1.5, white	819140	23,42
■ Zehnder thermostat LH2, M 30 x 1.5, chrome	819148	40,35
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

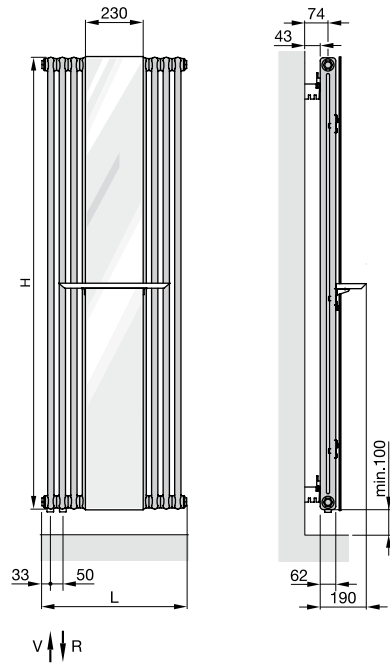
③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

Zehnder Charleston Mirror / Zehnder Charleston Bar

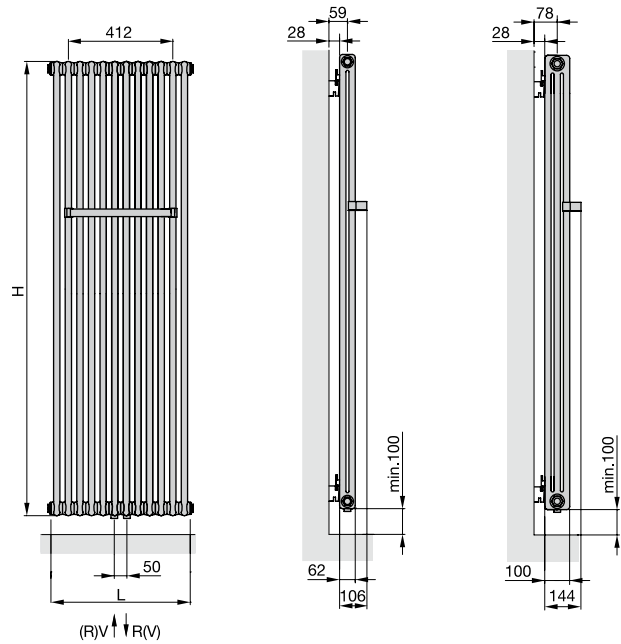


Technology

Hot water operation: Zehnder Charleston Mirror



Zehnder Charleston Bar

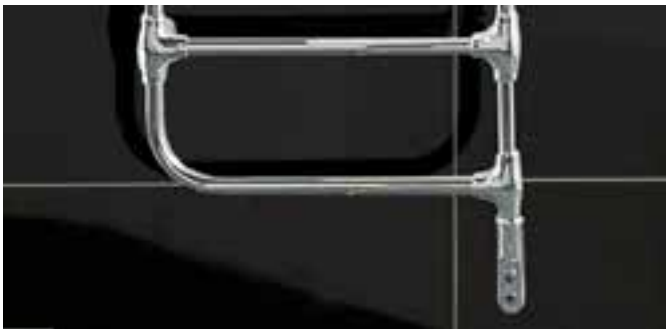


- H = Height
- L = Length incl. plug
- V = Flow
- R = Return

Dimensions in mm



Radiator surface: Chrome



Hot water operation

Zehnder Nobis decorative radiator with traditional styling for wall-mounted installation. Made from horizontally arranged precision tubes connected with vertical header tubes through rounded connector pieces, brass material, tube diameter 25 mm. Large cut-outs for hanging towels in and over. Thermal output tested to EN 442, with CE marking. 2 x ½" female thread connections to bottom, 50 mm connection centre. Radiator in chrome incl. fixing and directional air vent.

Operating pressure	max. 12,0 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Benefits

- Extravagance for the stylish bathroom
- Top-grade chrome finish
- 50 mm connection
- Graceful look
- Ideal for hanging up towels

Electric operation

Zehnder Nobis decorative radiator, electric-only, with traditional styling for wall-mounted installation. Made from horizontally arranged precision tubes connected with vertical header tubes through rounded connector pieces, brass material, tube diameter 25 mm. Large cut-outs for hanging towels in and over. With integrated electric heating element DBM. Splash-proof, output 150 W, for supply voltage of 230 V ± 10%. With 3-core connection cable, 1.2 m in length, with safety plug. The radiator is filled with heat transfer liquid. Radiator in chrome incl. fixing.

Output	 Watt
Height	 mm
Length	 mm
Model	.....

Special benefits for electric operation

- Medium temperature can be set on 3 levels
- Timer function
- Dry-running protection
- Ready-to-plug
- Without separate control device

Connection to hot water central heating system

Chrome-plated version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Chrome €	Article number Chrome
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
NOB-100-050	965	500	185	131	79	95	1,28	-	2,0	6,6	921,05	ZNO00150CR00000
NOB-150-050	1520	500	288	203	122	147	1,30	-	3,2	10,8	1.281,70	ZNO00250CR00000

Electric-only operation

Chrome-plated version

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price Chrome €	Article number Chrome
NOBE-100-050/DD	1104	500	150	1.520,24	ZNOA0150CR00000

Standard scope of delivery for hot water operation

- Chrome-plated surface
- 2 x ½" connections for flow/return, central, 50 mm
- ½" chrome directional air vent
- Mounting accessories in colour of radiator
- Packaging

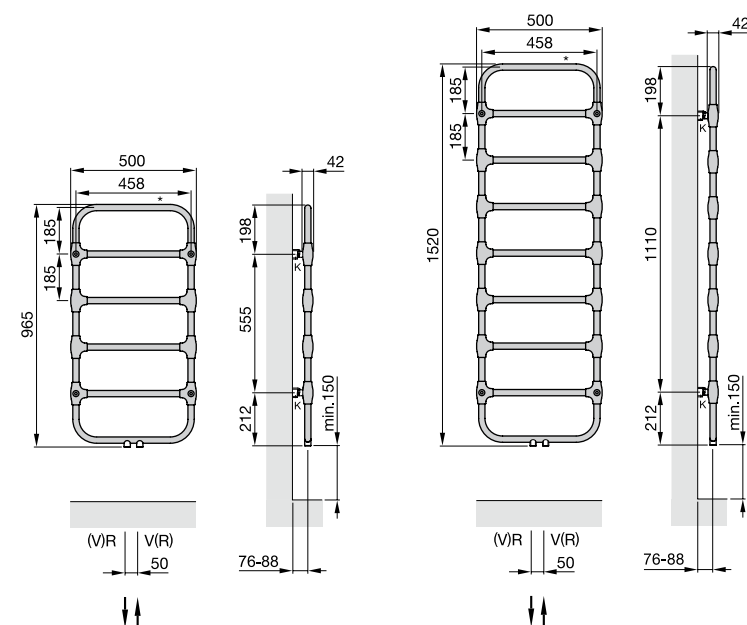
Standard scope of delivery for electric operation

- Chrome-plated surface
- Filled with heat transfer liquid
- With integrated electric heating element DBM, bottom right.
Manually selectable operating modes: medium temperature approx. 70 °C, approx. 40 °C; frost protection, off; 2-hour timer function.
- Mounting accessories and packaging

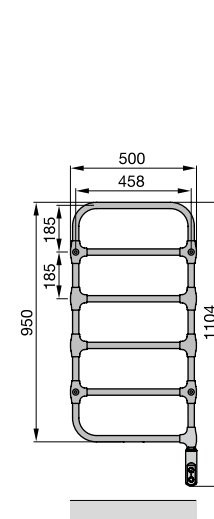
Special solution on request (surcharge)	Article number	Price €
■ Zehnder thermostat DH, M 30 x 1.5, chrome	819058	35,68
■ Zehnder comfort fittings, valve unit series XE, angled version, ½", chrome	628128	113,75
■ Zehnder comfort fittings, return screw connection series XE, angled version, ½", chrome	632128	113,75
■ Zehnder Comfort fittings with cross handwheel (Tara)	832328	360,45

Hot water operation:

Wall mounting



Electric operation:



Depth 61 mm
V = Flow
R = Return
K = Bracket(s)
* = Venting

Dimensions in mm

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ Total height incl. electric heating element

Zehnder Fina Bar

Product description



Radiator colour: Traffic White



Hot water operation

Zehnder Fina Bar decorative radiator with smooth front made of sheet steel in vertical version, rear side with water-bearing plastic tube register, surrounding aluminium profile at rear for accommodating connection and fixing elements, spring-fitted side covers on both sides made of anodised aluminium which adjust to the respective wall clearance, including chrome towel rail for variable installation heights. Thermal output to EN 442, with CE marking.

With 2 x 1/2" female thread connections for flow/return at bottom centre, spacing 50 mm, suitable for retrofitting with connectors mounted at variable positions in the frame profile, 1/2" directional air vent at top. Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request. Delivered ready to install with wall brackets and packaging.

Operating pressure	max. 10,0 bar
Operating temperature	max. 85 °C
Height	 mm
Length	 mm
Model	.....

Benefits

- Elegant, unobtrusive design
- Hygienic and easy to clean
- Side covers for clean look
- Connections can be placed from below to suit any dimension
- One or more individually height-adjustable towel rails

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- Pre-installed side covers made of anodised aluminium
- Towel rail in chrome
- 2 x 1/2" female thread connections from bottom to bottom, central, 50 mm pre-assembled, can be adjusted on site
- 1/2" chrome directional air vent
- Mounting accessories
- Packaging

Electric operation

Zehnder Fina Bar decorative radiator, electric-only, with a smooth front made of sheet steel in a vertical design. Surrounding aluminium profile at the rear for accommodating fixing elements. Spring-fitted side covers on both sides made of anodised aluminium which adjust to the respective wall clearance, including chrome towel rail for variable installation heights. Aluminium heater pad with a double-insulated heating cable, integrated between the steel front and rear with fins.

With CE marking. Separate battery-driven remote control device and no visible control elements on the radiator. Splash-proof for mains power supply of 230 V ± 10%. Connection cable (1.2 m long) with Euro plug. Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request. Delivered ready to install with wall brackets and packaging.

Output	 Watt
Height	 mm
Length	 mm
Model	.....

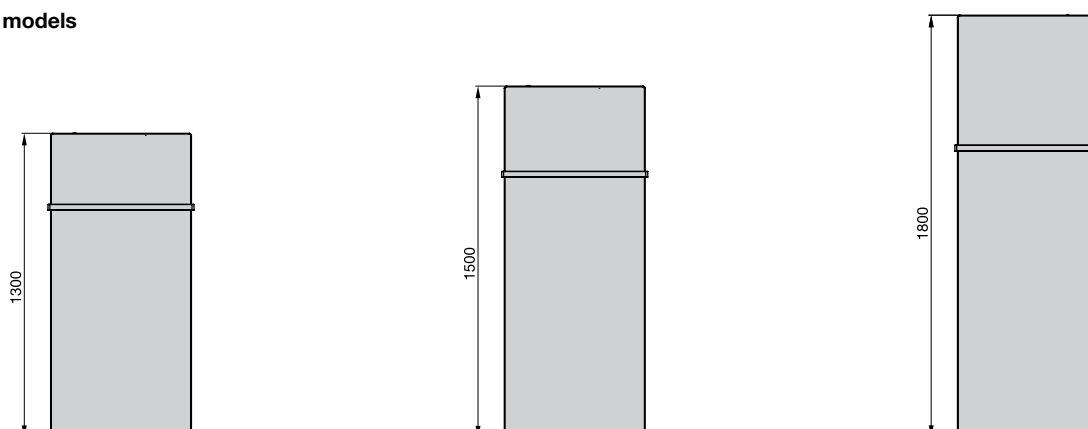
Special benefits for electric operation

- Fast thermal radiation
- Remote control device can be positioned as required
- Regulated room temperature
- Daily and weekly programme
- Timer function
- Ready-to-plug

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Remote control device, incl. batteries, selectable operating modes: off, frost protection, economy, automatic, comfort
- Pre-installed side covers made of anodised aluminium
- Towel rail in chrome
- Mounting accessories
- Packaging

Overview of models



Connection to hot water central heating system

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
FIP-130-050	1300	500	735	520	315	380	1,28	-	1,7	13,8	758,43	888,98	ZFP01650B100000
FIP-150-050	1500	500	833	589	357	431	1,28	-	2,3	15,4	783,35	915,10	ZFP01850B100000
FIP-180-050	1800	500	962	681	413	498	1,28	-	3,1	17,7	816,59	987,49	ZFP02150B100000
FIP-130-060	1300	600	882	624	378	456	1,28	-	2,0	16,6	775,05	906,80	ZFP01660B100000
FIP-150-060	1500	600	999	707	429	517	1,28	-	2,7	18,4	802,34	945,95	ZFP01860B100000
FIP-180-060	1800	600	1154	817	496	597	1,28	-	3,7	21,2	828,45	1.000,55	ZFP02160B100000
FIP-130-070	1300	700	1029	728	441	532	1,28	-	2,4	19,3	786,91	930,52	ZFP01670B100000
FIP-150-070	1500	700	1166	825	500	603	1,28	-	3,2	21,5	820,15	976,81	ZFP01870B100000
FIP-180-070	1800	700	1347	954	578	697	1,28	-	4,3	24,8	866,43	1.051,59	ZFP02170B100000

Electric-only operation

Painted version

Model	H mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
FIPE-130-050/P	1300	500	450	1.372,17	1.502,72	ZFP11650B100000
FIPE-150-050/P	1500	500	550	1.394,72	1.526,47	ZFP11850B100000
FIPE-180-050/P	1800	500	650	1.458,99	1.629,89	ZFP12150B100000
FIPE-180-060/P	1800	600	750	1.540,17	1.712,26	ZFP12160B100000
FIPE-180-070/P	1800	700	1000	1.592,03	1.777,19	ZFP12170B100000

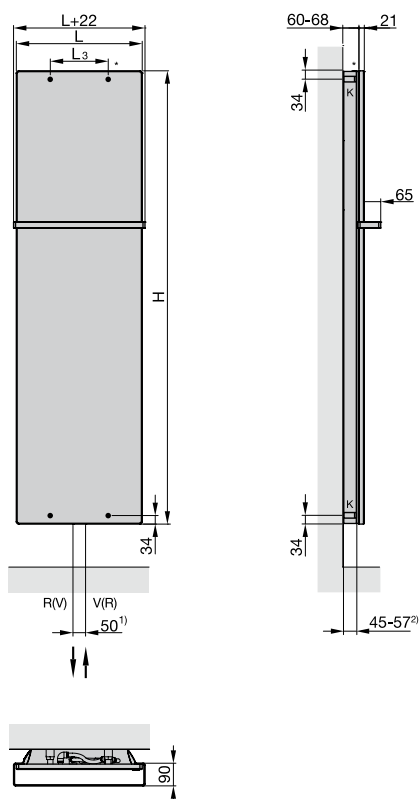
Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	FI00011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8%)	FI00012332	147,23
■ Towel rail in chrome for radiator length 500 mm	468158	118,68
■ Towel rail in chrome for radiator length 600 mm	468168	118,68
■ Towel rail in chrome for radiator length 700 mm	468178	118,68
■ Zehnder thermostat SH, M 30 x 1.5, white	819080	25,46
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	35,76
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120
■ Zehnder Vario fitting with cover in RAL 9016	976531	79,73
■ Zehnder Vario fitting with cover in special colour	976539	100,74

① For special colours in categories 1 and 2, see special solutions and colour chart

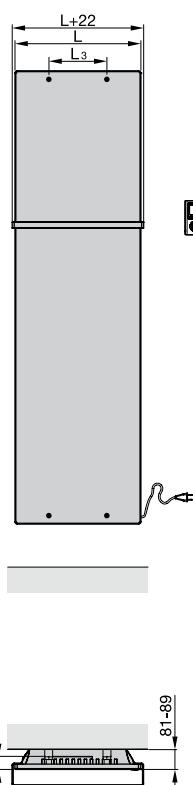
② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

Hot water operation: Wall mounting



Electric operation:



- H = Height
- L = Length
- K = Bracket
- V = Flow ½"
- R = Return ½"
- * = Venting ½"
- N = Connection centre $N \leq L - 110$ mm
- L₃ = Fixing dimension, $L - 270$ mm

- 1) Modified clearance possible through horizontal shifting of the connections, replacement of flow/return possible by interchanging the EasyTube connection hoses. Max. boss spacing only possible by reversing the connection blocks.
- 2) Distance from wall to middle of connection

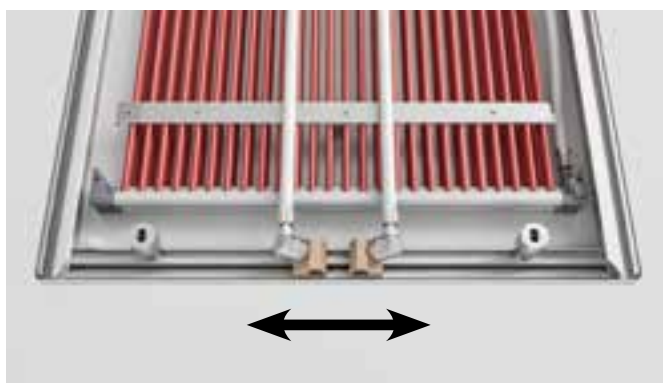
Dimensions in mm



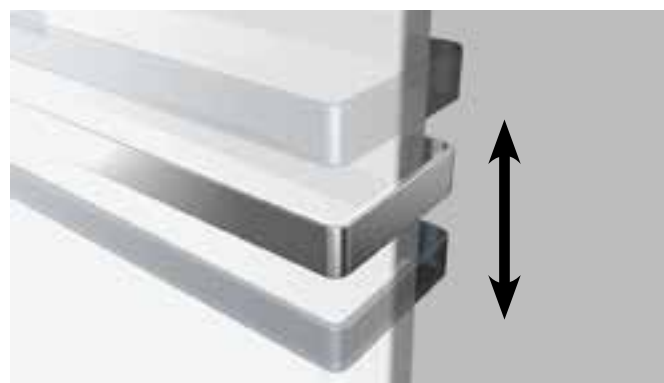
Self-adjusting side covers adapt to the wall clearance.



The side covers extend to the wall.



The flexible Zehnder EasyTube connections – perfect for refurbishments, too.



Towel rail is easy to adjust and can be positioned at any height.



Radiator colour: Orange Quartz



Hot water operation

Zehnder Metropolitan Spa decorative radiator for use as a bathroom and towel radiator. Flat-looking radiator with recessed slits, made from horizontally arranged flat tubes 70 x 8 mm, which are connected with a surrounding triangular profile frame without visible welded joints. With one or more openings (depending on height) for hanging towels. Thermal output to EN 442, with CE marking. With 4 connections at bottom, 2 x central ½" for flow/return, spacing 50 mm and 2 x ½", outside left and right, with directional air vent. Connections for Completto version: Flow/return 2 x ¾" external thread to the rear, centred 50 mm spacing, including valve and thermostat integrated into front panel. Connections for mixed operation: Flow/return 2 x ½" at bottom centre, spacing 50 mm and factory covered integrated electric heating element SAFIR, bottom right, with separate control device. Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request. Delivered ready to install with matching wall brackets and packaging.

Electric operation

Zehnder Metropolitan Spa decorative radiator, electric-only, for use as a bathroom and towel radiator. Flat-looking radiator with recessed slits, made from horizontally arranged flat tubes 70 x 8 mm, which are connected with a surrounding triangular profile frame without visible welded joints. With one or more openings (depending on height) for hanging towels. Electric heating element SAFIR integrated attractively in the frame profile, with connection cable (1.2 m long). Installation at bottom right. Patented dry running protection against operation without sufficient heat transfer liquid, splash-proof, for mains power supply of 230 V ± 10%. Standard version with powder coating, in colour RAL 9016, in special colour on request. Filled with heat transfer liquid. Separate, battery-operated infrared control device for wall mounting for controlling the room temperature. Delivered ready to install with matching wall brackets.

Operating pressure	max. 4,0 bar
Hot water central heating operating temperature	max. 110 °C
Mixed operation operating temperature (model METM)	max. 95 °C
Height	 mm
Length	 mm
Model	.....

Output	 Watt
Height	 mm
Length	 mm
Model	.....

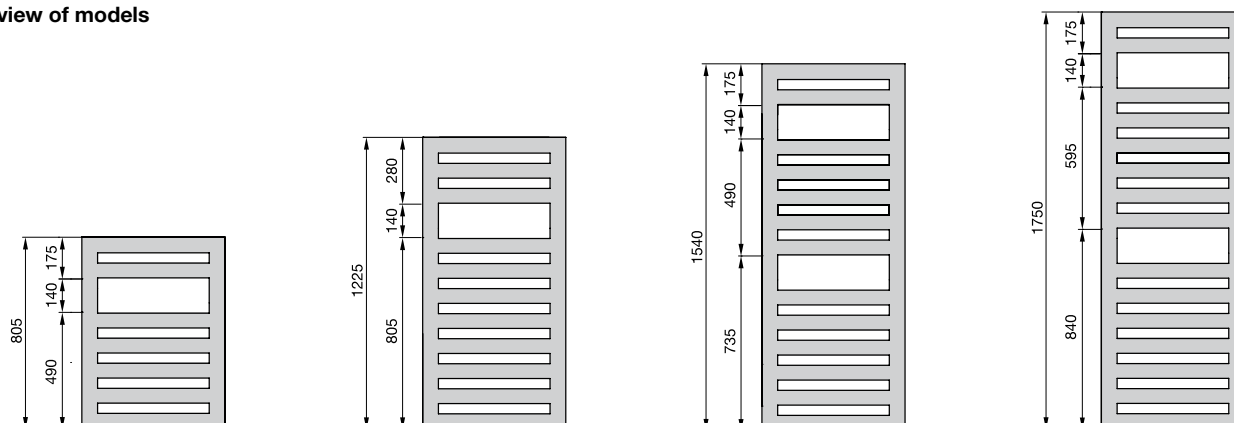
Benefits

- Innovative radiator with flat design
- Ideal towel hanging through large cut-out
- Individually positionable design towel hook
- Elegant solutions for valve integration on request
- Mixed operation: attractively integrated electric heating element SAFIR

Special benefits for electric operation with SAFIR

- Room temperature control
- Daily and weekly programme
- Timer function
- Dry-running protection
- Ready-to-plug

Overview of models



Connection to hot water central heating system

Painted version

Model	H④ mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price① Cat. 1 €	Article number② RAL 9016
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
MET-080-040	805	400	327	233	143	171	1,25	-	3,5	6,5	473,65	587,79	ZM201140B100000
MET-120-040	1225	400	474	337	206	247	1,26	-	4,8	9,8	525,01	648,28	ZM201240B100000
MET-150-040	1540	400	582	414	252	303	1,26	-	5,4	11,5	620,87	745,27	ZM201540B100000
MET-180-040	1750	400	654	466	285	343	1,25	-	6,5	13,7	693,92	855,98	ZM201640B100000
MET-080-050	805	500	388	276	168	202	1,26	-	3,8	7,8	482,78	599,20	ZM201150B100000
MET-120-050	1225	500	561	399	243	293	1,26	-	5,2	11,7	536,43	661,97	ZM201250B100000
MET-150-050	1540	500	690	489	297	358	1,27	-	5,9	13,5	633,43	760,11	ZM201550B100000
MET-180-050	1750	500	775	551	336	404	1,26	-	7,3	16,3	708,76	873,12	ZM201650B100000
MET-080-060	805	600	445	315	192	231	1,27	-	4,2	9,1	498,77	620,87	ZM201160B100000
MET-120-060	1225	600	645	457	278	335	1,27	-	5,7	13,5	553,54	680,24	ZM201260B100000
MET-150-060	1540	600	792	560	339	409	1,28	-	6,5	15,6	652,83	790,93	ZM201560B100000
MET-180-060	1750	600	889	630	383	461	1,27	-	8,0	19,0	730,45	895,94	ZM201660B100000

Connection for mixed operation with integrated electric heating element

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price① Cat. 1 €	Article number② RAL 9016
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
METM-080-040/ID	805	400	327	233	143	171	1,25	300	3,4	7,0	769,45	884,80	ZM211140B100000
METM-150-040/ID	1540	400	582	414	252	303	1,26	500	5,3	12,0	957,48	1.083,21	ZM211440B100000
METM-180-040/ID	1750	400	654	466	285	343	1,25	600	6,4	14,2	1.025,53	1.189,34	ZM211640B100000
METM-120-050/ID	1225	500	561	399	243	293	1,26	500	5,1	12,2	873,27	1.000,16	ZM211250B100000
METM-150-050/ID	1540	500	690	489	297	358	1,27	600	5,8	14,0	978,23	1.106,29	ZM211450B100000
METM-180-050/ID	1750	500	775	551	336	404	1,26	750	7,1	16,8	1.047,45	1.213,57	ZM211650B100000
METM-180-060/ID	1750	600	889	630	383	461	1,27	900	7,8	19,5	1.079,76	1.247,04	ZM211660B100000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ For Completto version (with integrated valve), note greater height; total height H_T = H + 175 mm

Electric-only operation

Painted version

Model	H mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
METE-080-040/ID	805	400	300	785,24	899,37	ZM221140B100000
METE-150-040/ID	1540	400	500	965,56	1.089,97	ZM221540B100000
METE-180-040/ID	1750	400	600	1.034,04	1.196,11	ZM221640B100000
METE-120-050/ID	1225	500	500	879,96	1.005,50	ZM221250B100000
METE-150-050/ID	1540	500	600	986,10	1.112,79	ZM221550B100000
METE-180-050/ID	1750	500	750	1.055,74	1.220,07	ZM221650B100000
METE-180-060/ID	1750	600	900	1.088,81	1.254,30	ZM221660B100000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections for flow, return
- Completo: Pre-adjustable valve AV9, chrome thermostat, connections: 2 x ¾" external thread (to the rear)
- Mixed operation: Electric heating element SAFIR, pre-assembled on the right, with infrared control device, incl. batteries, selectable operating modes: off, frost protection, economy, auto, comfort
- ½" chrome directional air vent
- Mounting accessories in colour of radiator
- Packaging

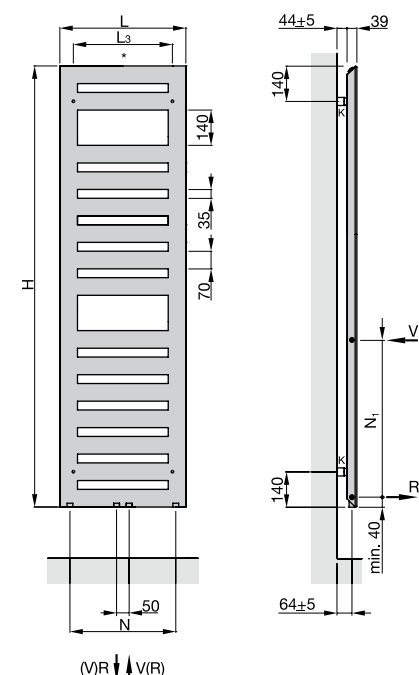
Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid
- Electric heating element SAFIR with infrared control device, incl. batteries, selectable operating modes: off, frost protection, economy, auto, comfort
- Mounting accessories in colour of radiator
- Packaging

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	M100011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8%)	M100012332	147,23
■ Integrated valve including thermostat; please take note of greater height ($H_T = H + 175$ mm, see drawing)	-	235,66
■ Side connection (both left or right); any connection size	-	124,61
■ Towel hook, for attaching, set of 2, chrome	480438	38,15
■ Towel rail for hanging towels on the side, for radiators of length 400, chrome	468038	104,36
■ Towel rail for hanging towels on the side, for radiators of length 500, chrome	468048	104,36
■ Towel rail for hanging towels, for radiators of length 600, chrome	468058	104,36
■ Towel rail for hanging towels, for radiators of length 900, chrome	468078	124,49
■ Zehnder thermostat SH, M 30 x 1.5, white	819080	25,46
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	35,76
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

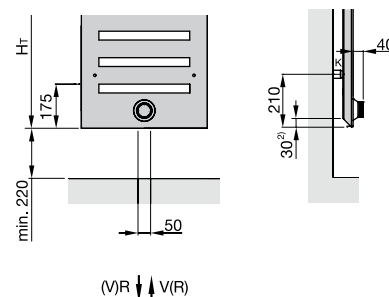
Hot water operation:

Wall mounting



Integrated valve (Completo)¹⁾

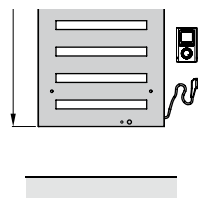
Detailed view



- H = Height
- L = Length
- L₃ = Fixing dimension, L - 107 mm
- K = Bracket
- V = Flow ½"
- R = Return ½"
- * = Venting ½"

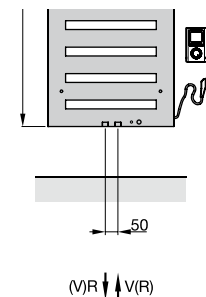
Electric operation:

Detailed view



Mixed operation:

Detailed view



- N = Connection centre, L - 80 mm
- N₁ = Connection centre for side connection
- H_T = Total height, H + 175 mm

Dimensions in mm

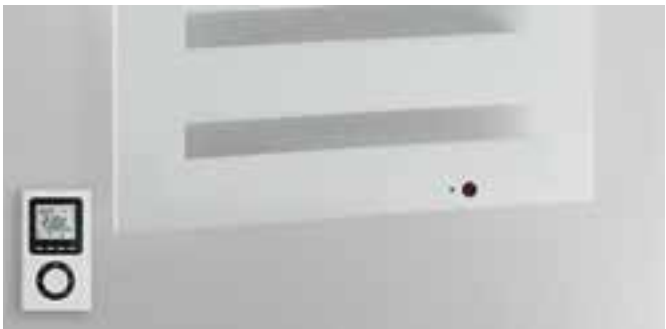
- 1) Without internal by-pass for single-tube operation, not possible with mixed operation
- 2) Distance from bottom edge of radiator to middle of connection

Zehnder Metropolitan Bar

Product description



Radiator colour: Traffic White



Hot water operation

Zehnder Metropolitan Bar decorative radiator for use as a bathroom and towel radiator. Flat-looking radiator with recessed slits, made from horizontally arranged flat tubes 70 x 8 mm, which are connected with a surrounding triangular profile frame without visible welded joints. With even structure incl. towel rail. Thermal output to EN 442, with CE marking. With 4 connections at bottom, 2 x central 1/2" for flow/return, spacing 50 mm and 2 x 1/2", outside left and right, with directional air vent.

Connections for Complete version: Flow/return 2 x 3/4" external thread to the rear, centred 50 mm clearance, including valve and thermostat integrated into front panel.

Connections for mixed operation: Flow/return 2 x 1/2" at bottom centre, spacing 50 mm and factory covered integrated electric heating element SAFIR, bottom right, with separate control device.

Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request. Delivered ready to install with matching wall brackets and packaging.

Electric operation

Zehnder Metropolitan Bar decorative radiator, electric-only, for use as a bathroom and towel radiator. Flat-looking radiator with recessed slits, made from horizontally arranged flat tubes 70 x 8 mm, which are connected with a surrounding triangular profile frame without visible welded joints. With even structure incl. towel rail. Electric heating element SAFIR integrated attractively in the frame profile, with connection cable (1.2 m long). Installation at bottom right. Patented dry running protection against operation without sufficient heat transfer liquid, splash-proof, for mains power supply of 230 V ± 10%. Standard version with powder coating, in colour RAL 9016, in special colour on request. Filled with heat transfer liquid. Separate, battery-operated infrared control device for wall mounting for controlling the room temperature. Delivered ready to install with matching wall brackets.

Operating pressure	max. 4,0 bar
Hot water central heating operating temperature	max. 110 °C
Mixed operation operating temperature (model MEPM)	max. 95 °C
Height	 mm
Length	 mm
Model	.....

Output	 Watt
Height	 mm
Length	 mm
Model	.....

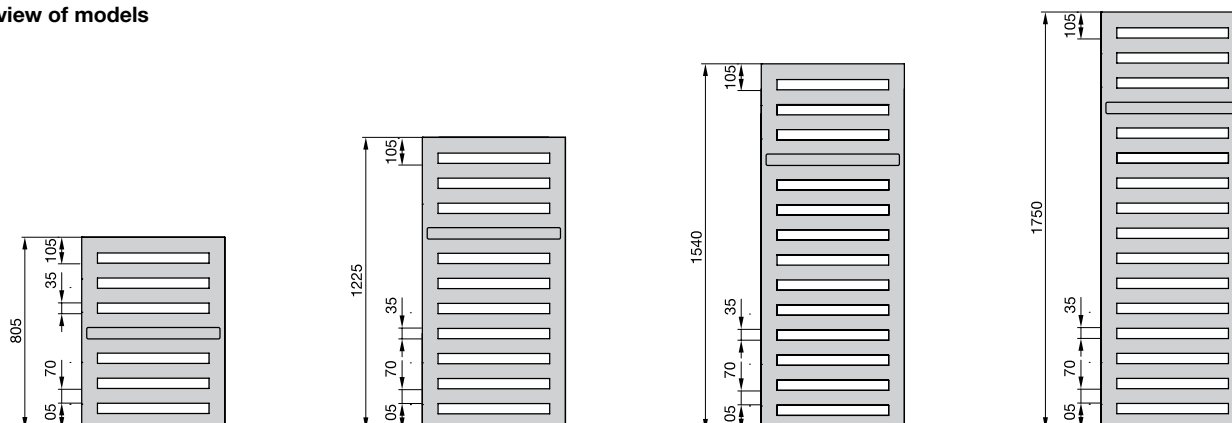
Benefits

- Innovative radiator with flat design
- Model with towel rail for easy hanging of towels
- Individually positionable design towel hook
- Elegant solutions for valve integration on request
- Mixed operation: attractively integrated electric heating element SAFIR

Special benefits for electric operation with SAFIR

- Room temperature control
- Daily and weekly programme
- Timer function
- Dry-running protection
- Ready-to-plug

Overview of models



Connection to hot water central heating system

Painted version with chrome-plated towel rail

Model	H④ mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm³	M kg	Price RAL 9016 €	Price① Cat. 1 €	Article number② RAL 9016
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
MEP-080-040	805	400	323	228	137	166	1,29	-	3,5	6,8	559,25	673,38	ZM101140B100000
MEP-120-040	1225	400	469	332	201	242	1,28	-	4,9	10,3	614,03	737,29	ZM101240B100000
MEP-150-040	1540	400	582	418	259	310	1,22	-	5,5	12,0	712,19	836,58	ZM101540B100000
MEP-180-040	1750	400	663	467	282	340	1,29	-	6,7	14,4	788,65	950,73	ZM101640B100000
MEP-080-050	805	500	387	273	165	199	1,29	-	4,0	8,2	569,51	685,93	ZM101150B100000
MEP-120-050	1225	500	563	398	241	291	1,28	-	5,5	12,4	625,45	750,98	ZM101250B100000
MEP-150-050	1540	500	730	523	323	387	1,23	-	6,2	14,4	725,88	852,56	ZM101550B100000
MEP-180-050	1750	500	795	561	338	408	1,29	-	7,6	17,4	803,48	967,83	ZM101650B100000
MEP-080-060	805	600	449	317	191	231	1,29	-	4,4	9,7	585,49	707,62	ZM101160B100000
MEP-120-060	1225	600	653	462	279	337	1,28	-	6,1	14,5	642,56	769,25	ZM101260B100000
MEP-150-060	1540	600	871	624	385	461	1,23	-	7,0	16,8	746,42	884,52	ZM101560B100000
MEP-180-060	1750	600	922	650	392	473	1,29	-	8,5	20,4	826,32	991,80	ZM101660B100000

Painted version with chrome-plated towel rail for installation below windows

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm³	M kg	Price RAL 9016 €	Price① Cat. 1 €	Article number② RAL 9016
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
MEP-060-090	595	900	447	314	189	228	1,30	-	4,7	10,1	622,03	746,42	ZM100790B100000
MEP-070-090	700	900	517	364	218	264	1,30	-	5,2	11,8	635,72	760,11	ZM100990B100000

Connection for mixed operation with integrated electric heating element

Painted version with chrome-plated towel rail

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm³	M kg	Price RAL 9016 €	Price① Cat. 1 €	Article number② RAL 9016
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
MEPM-080-040/ID	805	400	323	228	137	166	1,29	300	3,4	7,6	864,03	979,40	ZM111140B100000
MEPM-150-040/ID	1540	400	582	418	259	310	1,22	500	5,4	12,8	1.078,61	1.204,34	ZM111440B100000
MEPM-180-040/ID	1750	400	663	467	282	340	1,29	600	6,6	15,2	1.142,06	1.305,86	ZM111640B100000
MEPM-120-050/ID	1225	500	563	398	241	291	1,28	500	5,4	13,3	981,70	1.108,60	ZM111250B100000
MEPM-150-050/ID	1540	500	730	523	323	387	1,23	750	6,1	15,4	1.091,29	1.219,34	ZM111450B100000
MEPM-180-050/ID	1750	500	795	561	338	408	1,29	750	7,5	18,3	1.163,96	1.330,16	ZM111650B100000
MEPM-180-060/ID	1750	600	922	650	392	473	1,29	900	8,4	21,4	1.197,42	1.364,69	ZM111660B100000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ For Completo version (with integrated valve), note greater height; total height H_t = H + 175 mm

Electric-only operation

Painted version with chrome-plated towel rail

Model	H mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
MEPE-080-040/ID	805	400	300	878,82	992,95	ZM121140B100000
MEPE-150-040/ID	1540	400	500	1.085,38	1.209,79	ZM121540B100000
MEPE-180-040/ID	1750	400	600	1.149,31	1.311,37	ZM121640B100000
MEPE-120-050/ID	1225	500	500	987,24	1.112,79	ZM121250B100000
MEPE-150-050/ID	1540	500	600	1.097,95	1.224,64	ZM121550B100000
MEPE-180-050/ID	1750	500	750	1.170,99	1.335,34	ZM121650B100000
MEPE-180-060/ID	1750	600	900	1.205,25	1.370,72	ZM121660B100000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections for flow, return
- Completto: Pre-adjustable valve AV9, chrome thermostat, connections: 2 x ¾" external thread (to the rear)
- Mixed operation: Electric heating element SAFIR, pre-assembled on the right, with infrared control device, incl. batteries, selectable operating modes: off, frost protection, economy, auto, comfort
- ½" chrome directional air vent
- Towel rail in chrome
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid
- Electric heating element SAFIR with infrared control device, incl. batteries, selectable operating modes: off, frost protection, economy, auto, comfort
- Towel rail in chrome
- Mounting accessories in colour of radiator
- Packaging

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	M100011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8%)	M100012332	147,23
■ Integrated valve including thermostat; please take note of greater height ($H_T = H + 175$ mm, see drawing)	-	235,66
■ Side connection (both left or right); any connection size	-	124,61
■ Towel hook, for attaching, set of 2, chrome	480438	38,15
■ Towel rail for hanging towels on the side (295 mm in length), for radiators of length 400, chrome	468038	104,36
■ Towel rail for hanging towels on the side (395 mm in length), for radiators of length 500, chrome	468048	104,36
■ Towel rail for hanging towels (495 mm in length), for radiators of length 600, chrome	468058	104,36
■ Towel rail for hanging towels (795 mm in length), for radiators of length 900, chrome	468078	124,49
■ Zehnder thermostat SH, M 30 x 1.5, white	819080	26,10
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	36,65
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

① For special colours in categories 1 and 2, see special solutions and colour chart

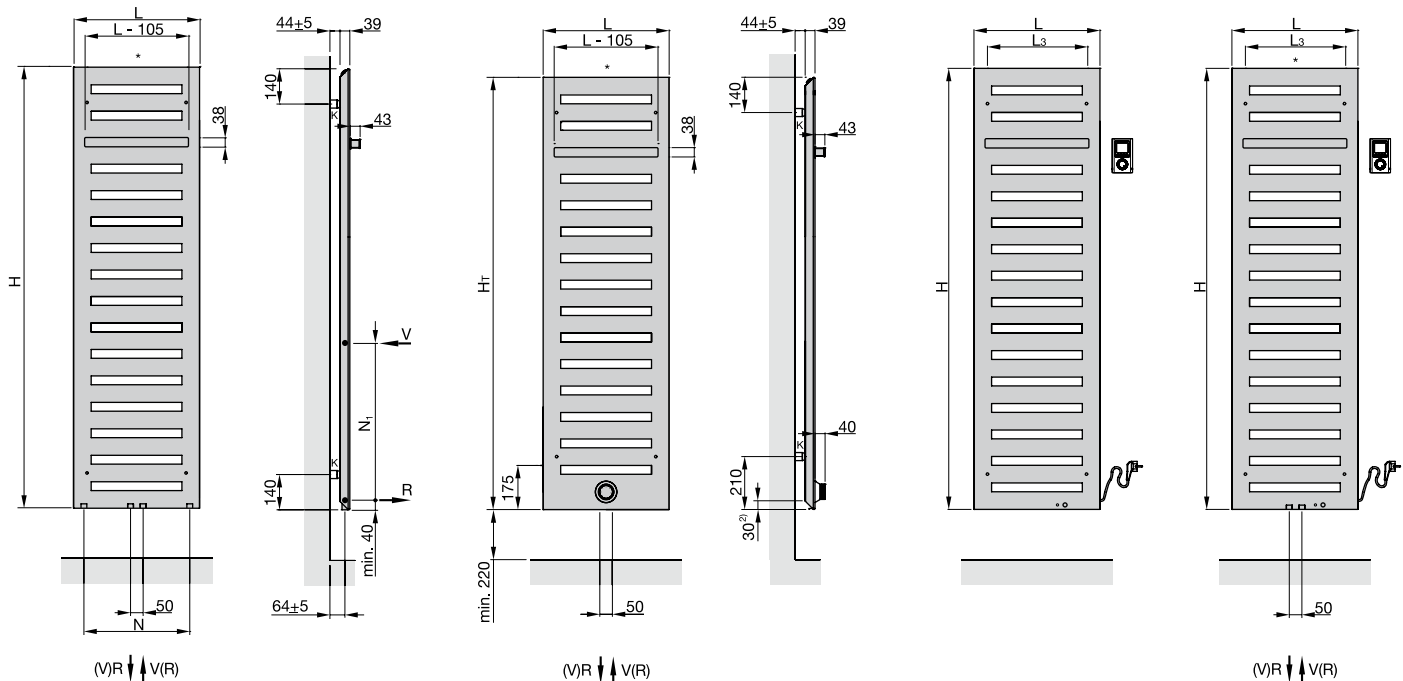
② For article numbers for special colours in category 1, see keyword list

Hot water operation: Wall mounting

Integrated valve (Completo)¹⁾

Electric operation:

Mixed operation:



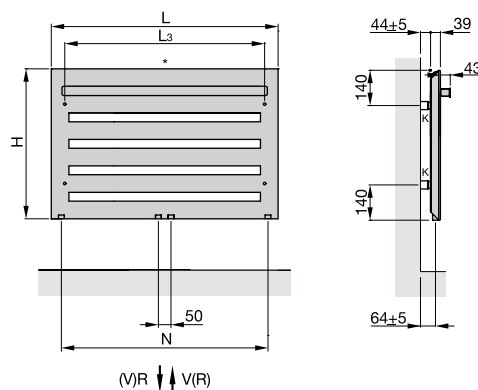
Hot water operation:

Version for installation below windows

- H = Height
- L = Length
- L₃ = Fixing dimension, L - 107 mm
- K = Bracket
- V = Flow ½"
- R = Return ½"
- * = Venting ½"
- N = Connection centre, L - 80 mm
- N₁ = Connection centre for side connection
- H_T = Total height, H + 175 mm

Dimensions in mm

- 1) Without internal by-pass for single-tube operation, not possible with mixed operation
- 2) Distance from bottom edge of radiator to middle of connection



Zehnder Roda Spa Asym

Product description



Radiator colour: Pacific Blue



Hot water operation

Zehnder Roda Spa Asym decorative radiator made from horizontally arranged precision flat tubes and vertical header tubes, without visible welds and fully welded.

Single-sided, asymmetrically arranged flat tubes 70 x 11 mm branching laterally from the collector Ø 38 mm; towels can be easily slid in from the side to warm.

Thermal output tested to EN 442, with CE marking. With connections at bottom, 2 x ½" for flow/return, connection centre 50 mm, with directional air vent.

Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request. Delivered ready to install with wall brackets in colour of radiator.

Operating pressure	max. 4 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Benefits

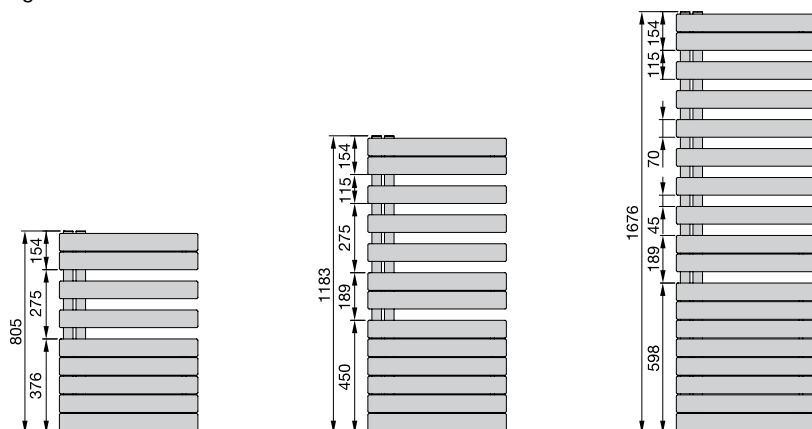
- Open access from both sides makes it very convenient for hanging and sliding towels in from the side
- Diverse range of models with left-hand or right-hand version

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 2 x ½" connections for flow, return
- ⅛" directional air vent
- Mounting accessories in colour of radiator
- Packaging

Overview of models

Right-hand version



Connection to hot water central heating system

Painted version

Model	H	L	Thermal output				Exp.	Classification Electric heating element	V	M	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016	
	mm	mm	EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt								
Right-hand version														
ROFR-080-055	805	550	429	307	189	227	1,24	-	4,3	10,1	482,13	605,82	ZRF50455B100000	
ROFR-120-055	1183	550	594	424	260	312	1,25	-	6,3	14,5	552,04	679,19	ZRF50555B100000	
ROFR-170-055	1676	550	809	574	350	421	1,26	-	8,8	20,0	684,65	852,23	ZRF50655B100000	
Left-hand version														
ROFL-080-055	805	550	429	307	189	227	1,24	-	4,3	10,1	482,13	605,82	ZRF60455B100000	
ROFL-120-055	1183	550	594	424	260	312	1,25	-	6,3	14,5	552,04	679,19	ZRF60555B100000	
ROFL-170-055	1676	550	809	574	350	421	1,26	-	8.8	20.0	684.65	852.23	ZRF60655B100000	

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	R200011640	98,15
■ Zehnder thermostat LH2, M 30 x 1.5, white	819140	23,42
■ Zehnder thermostat LH2, M 30 x 1.5, chrome	819148	40,35
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see colour chart

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

Zehnder Roda Spa Asym

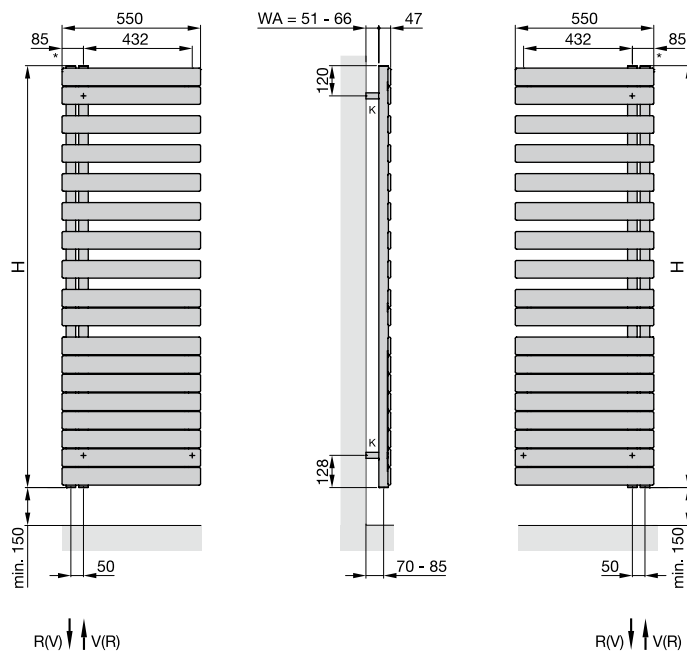
Technology



Hot water operation:

Right-hand version

Left-hand version



- WA = Wall clearance
- K = Bracket
- V = Flow 1/2"
- R = Return 1/2"
- * = Venting 1/8"

Dimensions in mm



Radiator colour: Volcanic



Hot water operation

Zehnder Quaro decorative radiator made from horizontally arranged precision steel tubes with surrounding square tubes, fully welded, invisible welds due to laser welding technology. Square tubes 25 x 25 mm, regularly arranged in the frame of square 30 x 30 mm tube. Thermal output tested to EN 442, with CE marking.

With recessed connections on lower square tube, central 1/2" for flow/return, connection centre 50 mm and outside left and right 1/2" for electric heating element, with directional air vent.

Connections for mixed operation: Flow/return 2 x 1/2" at bottom centre, spacing 50 mm and electric heating element SAFIR integrated at factory, bottom right, with separate control device.

Radiator with powder coating, in colour RAL 9016 as standard, in special colour, chrome or version in brushed V4A stainless steel on request.

Delivered ready to install with matching wall brackets and packaging.

Room divider version: Radiator without attachment welded to rear for wall bracket, incl. room divider mounting set.

Electric operation

Zehnder Quaro decorative radiator, electric-only, made from horizontally arranged precision steel tubes with surrounding square tubes, fully welded, invisible welds due to laser welding technology.

With integrated electric heating element SAFIR at bottom right, VDE tested, with patented dry-running protection against operation without sufficient heat transfer liquid, splash-proof for mains power supply of 230 V ± 10%. 3-core connection cable, 1.2 m in length, with safety plug. Separate, battery-operated infrared control device for wall mounting for controlling the room temperature.

Delivered ready to install with matching wall brackets. Standard version with powder coating, in colour RAL 9016, in special colour on request.

Decorative radiator filled with heat transfer liquid.

Operating pressure	max. 10,0 bar
Hot water central heating operating temperature	max. 110 °C
Mixed operation operating temperature (model QAM)	max. 95 °C
Height	 mm
Length	 mm
Model	.....

Output	 Watt
Height	 mm
Length	 mm
Model	.....

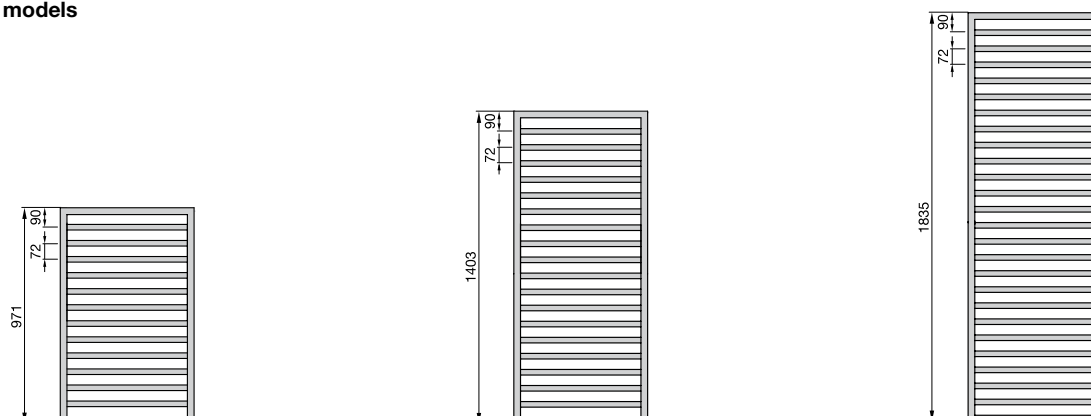
Benefits

- Geometric clarity with consistent look
- Many different heights at which to hang a towel
- Hygienic and easy to clean
- Discreetly concealed brackets
- Also available as room divider version
- Mixed operation: attractively integrated electric heating element SAFIR

Special benefits for electric operation with SAFIR

- Room temperature control
- Daily and weekly programme
- Timer function
- Dry-running protection
- Ready-to-plug

Overview of models



Connection to hot water central heating system

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
QA-100-030	971	300	299	214	131	158	1,24	300	3,3	5,7	439,24	550,15	ZQ100130B100000
QA-140-030	1403	300	421	301	185	222	1,24	300	4,7	7,9	461,43	582,34	ZQ100230B100000
QA-180-030	1835	300	543	389	240	288	1,23	300	6,0	10,1	613,39	770,90	ZQ100330B100000
QA-100-045	971	450	420	300	185	222	1,23	300	4,4	7,8	464,76	575,68	ZQ100145B100000
QA-140-045	1403	450	590	423	261	312	1,23	500	6,3	10,6	488,05	608,96	ZQ100245B100000
QA-180-045	1835	450	761	545	337	403	1,23	600	8,1	13,8	645,55	803,06	ZQ100345B100000
QA-100-060	971	600	533	382	236	282	1,23	300	5,5	9,8	490,26	608,96	ZQ100160B100000
QA-140-060	1403	600	749	537	331	397	1,23	600	7,9	13,4	515,79	649,99	ZQ100260B100000
QA-180-060	1835	600	966	692	427	512	1,23	900	10,2	17,0	678,83	839,67	ZQ100360B100000

Chrome-plated version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Chrome €	Article number Chrom
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
QAC-100-030	971	300	189	133	80	97	1,30	-	3,3	5,8	921,76	ZQ100130CR00000
QAC-140-030	1403	300	270	190	114	138	1,30	300	4,7	7,6	969,45	ZQ100230CR00000
QAC-180-030	1835	300	348	245	147	178	1,30	300	6,0	10,3	1.282,23	ZQ100330CR00000
QAC-100-045	971	450	267	188	114	137	1,29	300	4,4	7,9	973,89	ZQ100145CR00000
QAC-140-045	1403	450	381	269	162	196	1,29	300	6,3	10,8	1.023,80	ZQ100245CR00000
QAC-180-045	1835	450	491	345	207	252	1,29	300	8,1	13,8	1.353,23	ZQ100345CR00000
QAC-100-060	971	600	341	241	146	176	1,28	300	5,5	10,0	1.026,02	ZQ100160CR00000
QAC-140-060	1403	600	486	343	207	250	1,29	300	7,9	13,3	1.079,26	ZQ100260CR00000
QAC-180-060	1835	600	627	442	267	322	1,29	600	10,2	17,0	1.424,22	ZQ100360CR00000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

Connection to hot water central heating system

Stainless-steel version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Stainless steel €	Article number Stainless steel
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
QAI-100-030	971	300	229	162	99	119	1,27	-	3,3	6,0	1.142,49	ZQ2001300000000
QAI-140-030	1403	300	321	228	138	167	1,27	300	4,7	8,3	1.203,49	ZQ2002300000000
QAI-180-030	1835	300	415	294	179	215	1,27	300	6,2	10,6	1.725,92	ZQ2003300000000
QAI-100-045	971	450	321	228	139	167	1,26	300	4,5	7,8	1.220,12	ZQ2001450000000
QAI-140-045	1403	450	450	320	195	235	1,26	300	6,3	10,8	1.284,47	ZQ2002450000000
QAI-180-045	1835	450	581	413	252	303	1,26	300	8,1	13,8	1.839,06	ZQ2003450000000
QAI-100-060	971	600	407	289	176	212	1,26	300	5,7	9,6	1.296,65	ZQ2001600000000
QAI-140-060	1403	600	572	407	248	298	1,26	300	7,9	13,3	1.364,32	ZQ2002600000000
QAI-180-060	1835	600	738	525	320	385	1,26	600	10,2	17,0	1.952,20	ZQ2003600000000

Connection for mixed operation with integrated electric heating element

Painted version

Model	H④ mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price① Cat. 1 €	Article number② RAL 9016
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
QAM-100-045/ID	1001	450	420	300	185	222	1,23	300	4,4	7,8	805,28	916,21	ZQ110145B100000
QAM-140-045/ID	1433	450	590	423	261	312	1,23	500	6,3	10,6	870,74	991,63	ZQ110245B100000
QAM-180-045/ID	1865	450	761	545	337	403	1,23	600	8,1	13,8	1.029,35	1.186,85	ZQ110345B100000
QAM-140-060/ID	1433	600	749	537	331	397	1,23	600	7,9	13,4	948,37	1.082,59	ZQ110260B100000
QAM-180-060/ID	1865	600	966	692	427	512	1,23	900	10,2	17,0	1.068,16	1.229,00	ZQ110360B100000

Chrome-plated version

Model	H④ mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Chrome €	Article number Chrom
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
QAMC-140-045/ID	1433	450	381	269	162	196	1,29	300	6,3	10,8	1.798,02	ZQ110245CR00000
QAMC-180-045/ID	1865	450	491	345	207	252	1,29	300	8,1	13,8	2.139,66	ZQ110345CR00000
QAMC-140-060/ID	1433	600	486	343	207	250	1,29	300	7,9	13,3	1.984,36	ZQ110260CR00000
QAMC-180-060/ID	1865	600	627	442	267	322	1,29	600	10,2	17,0	2.225,05	ZQ110360CR00000

Stainless-steel version

Model	H④ mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Stainless steel €	Article number Stainless steel
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
QAMI-140-045/ID	1433	450	450	320	195	235	1,26	300	6,3	10,8	1.754,75	ZQ2102450000000
QAMI-180-045/ID	1865	450	581	413	252	303	1,26	500	8,1	13,8	2.317,13	ZQ2103450000000
QAMI-140-060/ID	1433	600	572	407	248	298	1,26	500	7,9	13,3	1.913,39	ZQ2102600000000
QAMI-180-060/ID	1865	600	738	525	320	385	1,26	600	10,2	17,0	2.483,50	ZQ2103600000000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ Total height incl. electric heating element

Electric-only operation

Painted version

Model	H④ mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price① Cat. 1 €	Article number② RAL 9016
QAE-100-045/ID	1001	450	300	805,28	916,21	ZQ1G0145B100000
QAE-140-045/ID	1433	450	500	870,74	991,63	ZQ1G0245B100000
QAE-180-045/ID	1865	450	600	1.029,35	1.186,85	ZQ1G0345B100000
QAE-140-060/ID	1433	600	600	948,37	1.082,59	ZQ1G0260B100000
QAE-180-060/ID	1865	600	900	1.068,16	1.229,00	ZQ1G0360B100000

Chrome-plated version

Model	H④ mm	L mm	Classification Electric heating element Watt	Price Chrome €	Bestell-Nr. Chrom
QAE-140-045/ID	1433	450	300	1.798,02	ZQ1G0245CR00000
QAE-180-045/ID	1865	450	300	2.139,66	ZQ1G0345CR00000
QAE-140-060/ID	1433	600	300	1.984,36	ZQ1G0260CR00000
QAE-180-060/ID	1865	600	600	2.225,05	ZQ1G0360CR00000

Stainless-steel version

Model	H④ mm	L mm	Classification Electric heating element Watt	Price Stainless steel €	Bestell-Nr. Stainless steel
QAEI-140-045/ID	1433	450	300	1.754,75	ZQ2G02450000000
QAEI-180-045/ID	1865	450	500	2.317,12	ZQ2G03450000000
QAEI-140-060/ID	1433	600	500	1.913,39	ZQ2G02600000000
QAEI-180-060/ID	1865	600	600	2.483,50	ZQ2G03600000000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections, connection centre 50 mm female thread for flow/return and left-hand or right-hand electric heating element (on site)
- Mixed operation: Electric heating element SAFIR, pre-assembled on the right, with infrared control device, incl. batteries, selectable operating modes: off, frost protection, economy, auto, comfort. Electric heating element cover in colour of radiator
- Design directional air vent, chrome ½"
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid
- Electric heating element SAFIR with infrared control device, incl. batteries, selectable operating modes: off, frost protection, economy, auto, comfort
- Mounting accessories and cover of the electric heating element in colour of radiator
- Packaging

① For special colours in categories 1 and 2, see special solutions and colour chart

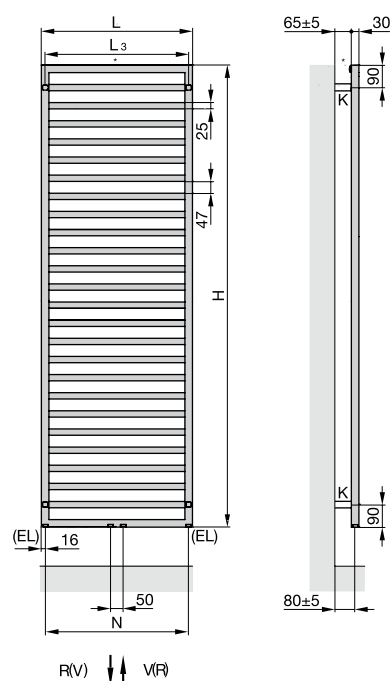
② For article numbers for special colours in category 1, see keyword list

④ Total height incl. electric heating element

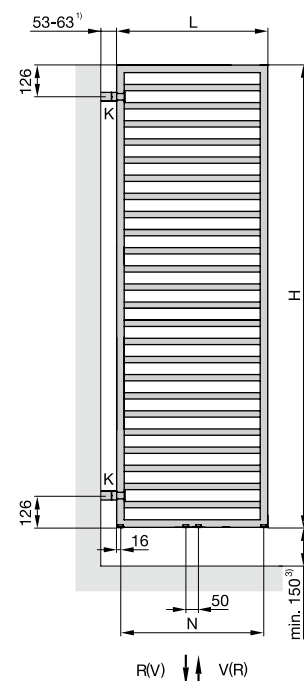
Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	QA00011640	98,15
■ Room divider version with two wall brackets and foot support, white, chrome, special colour	-	171,93
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8-13 %)	-	143,22
■ Room divider version with two wall brackets without foot support, white, chrome, special colour	-	133,11
■ Models for electric operation in room divider version	-	On request
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120
■ Zehnder thermostat SH, M 30 x 1.5, white	819080	25,46
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	35,76
■ Zehnder thermostat SH, M 30 x 1.5, stainless steel	819082	35,76

Hot water operation:

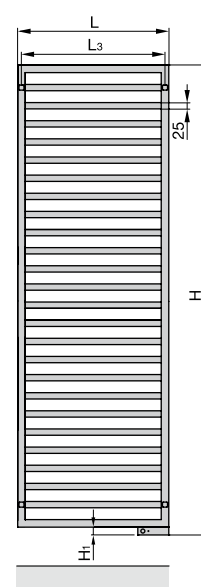
Wall mounting
(with welded bracket attachment)



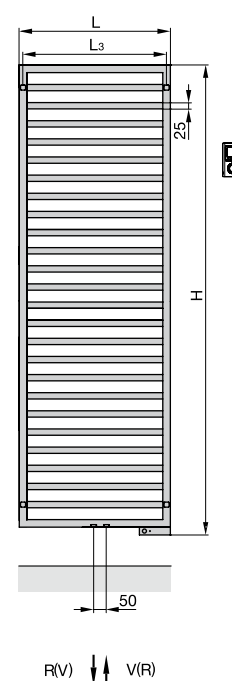
Room divider installation
(special solution without bracket fixture
welded on the back)²⁾



Electric operation:



Mixed operation:



- H = Height
- H₁ = 30 mm
- L = Length
- K = Bracket
- V = Flow 1/2"
- R = Return 1/2"
- * = Venting 1/2"
- N = Connection centre
- L₃ = Fixing dimension, L - 30 mm

- 1) Lengthening possible with brackets for larger wall clearance
- 2) The standard version of the radiator is not suitable for room divider installation
- 3) Max. 170 mm for installation with foot support in standard length

Dimensions in mm



Radiator surface: Chrome



Hot water operation

Zehnder Subway decorative radiator made from horizontally arranged precision steel tubes with surrounding square tubes, fully welded, invisible welds due to laser welding technology. Round tubes Ø 23 mm, regularly arranged in the frame of square 30 x 30 mm tube. Thermal output tested to EN 442, with CE marking.

With recessed connections on lower square tube, centre ½" for flow/return, connection centre 50 mm and outside left and right ½" for electric heating element, with directional air vent.

Connections for mixed operation: Flow/return 2 x ½" at bottom centre, spacing 50 mm and electric heating element SAFIR integrated at factory, bottom right, with separate control device.

Radiator with powder coating, in colour RAL 9016 as standard, in special colour, chrome or version in brushed V4A stainless steel on request.

Delivered ready to install with matching wall brackets and packaging.

Room divider version: Radiator without threaded bolts for wall bracket, incl. room divider mounting set.

Electric operation

Zehnder Subway decorative radiator, electric-only, made from horizontally arranged precision steel tubes with surrounding square tubes, fully welded, invisible welds due to laser welding technology.

With integrated electric heating element SAFIR at bottom right, VDE tested, with patented dry-running protection against operation without sufficient heat transfer liquid, splash-proof for mains power supply of 230 V ± 10%. 3-core connection cable, 1.2 m in length, with safety plug. Separate, battery-operated infrared control device for wall mounting for controlling the room temperature.

Delivered ready to install with matching wall brackets. Standard version with powder coating, in colour RAL 9016, special colour, chrome or version in brushed V4A stainless steel on request.

Decorative radiator filled with heat transfer liquid.

Operating pressure	max. 10,0 bar
Hot water central heating operating temperature	max. 110 °C
Mixed operation operating temperature (model SUBM)	max. 95 °C
Height	 mm
Length	 mm
Model	.....

Output	 Watt
Height	 mm
Length	 mm
Model	.....

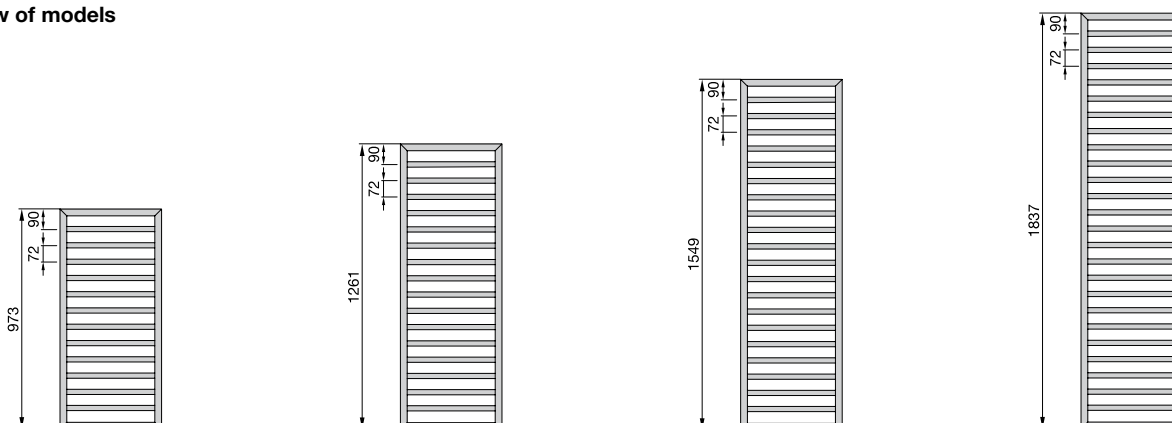
Benefits

- Classic design
- Outside frame lends geometric look
- Generous spacing to hang towels
- Variant in brushed stainless steel
- Also available as room divider version
- Special 150 mm connection available
- Extra model for use as guest WC radiator
- Mixed operation: attractively integrated electric heating element SAFIR

Special benefits for electric operation with SAFIR

- Room temperature control
- Daily and weekly programme
- Timer function
- Dry-running protection
- Ready-to-plug

Overview of models



Connection to hot water central heating system

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
SUB-100-045	973	450	401	286	175	210	1,25	300	3,5	6,7	262,61	351,38	ZS300445B100000
SUB-130-045	1261	450	509	363	222	267	1,25	300	4,5	8,6	302,68	356,33	ZS300145B100000
SUB-150-045	1549	450	615	438	268	322	1,25	600	5,4	10,6	356,09	409,73	ZS300245B100000
SUB-180-045	1837	450	715	511	314	377	1,24	600	6,3	12,2	398,82	458,65	ZS300345B100000
SUB-100-060	973	600	499	356	218	262	1,25	300	4,3	8,3	276,86	372,11	ZS300460B100000
SUB-130-060	1261	600	639	455	279	335	1,25	600	5,4	10,5	318,10	371,76	ZS300160B100000
SUB-150-060	1549	600	772	550	337	405	1,25	600	7,2	12,5	375,08	431,35	ZS300260B100000
SUB-180-060	1837	600	898	642	395	473	1,24	900	7,7	14,7	420,20	483,21	ZS300360B100000

Chrome-plated version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Chrome €	Article number Chrome
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
SUBC-100-045	973	450	265	188	114	137	1,27	300	3,5	6,5	648,91	ZS300445CR000000
SUBC-130-045	1261	450	336	238	145	174	1,27	300	4,5	8,4	715,75	ZS300145CR000000
SUBC-150-045	1549	450	413	293	178	214	1,27	300	5,4	10,1	845,12	ZS300245CR000000
SUBC-180-045	1837	450	486	345	209	252	1,27	300	6,3	11,8	944,82	ZS300345CR000000
SUBC-100-060	973	600	329	234	143	172	1,26	300	4,3	8,1	683,56	ZS300460CR000000
SUBC-130-060	1261	600	408	290	177	213	1,26	300	5,4	10,2	753,73	ZS300160CR000000
SUBC-150-060	1549	600	502	357	218	262	1,26	300	7,2	12,3	889,05	ZS300260CR000000
SUBC-180-060	1837	600	590	419	256	308	1,26	600	7,7	14,3	994,67	ZS300360CR000000

Stainless-steel version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Stainless steel €	Article number Stainless steel
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
SUBI-100-045	973	450	287	203	124	149	1,27	300	3,5	6,7	812,71	ZS40044500000000
SUBI-130-045	1261	450	370	262	159	192	1,27	300	4,5	8,7	897,35	ZS40014500000000
SUBI-150-045	1549	450	445	315	192	231	1,27	300	5,4	10,4	1.068,29	ZS40024500000000
SUBI-180-045	1837	450	523	370	224	270	1,28	300	6,3	12,2	1.284,30	ZS40034500000000
SUBI-100-060	973	600	356	253	154	186	1,26	300	4,3	8,3	864,16	ZS40046000000000
SUBI-130-060	1261	600	447	318	194	233	1,26	300	5,4	10,4	953,13	ZS40016000000000
SUBI-150-060	1549	600	538	383	235	282	1,25	300	7,2	12,4	1.134,75	ZS40026000000000
SUBI-180-060	1837	600	633	454	280	335	1,23	600	7,7	14,4	1.363,83	ZS40036000000000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

Connection to hot water central heating system – Version for guest WC

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
SUB-060-045	613	450	310	221	135	162	1,25	-	2,3	5,2	247,67	316,15	ZS300545B100000

Chrome-plated version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Chrome €	Article number EN 442 chrome
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
SUBC-060-045	613	450	205	145	88	106	1,27	-	2,3	5,0	519,30	ZS300545CR00000

Stainless-steel version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Stainless steel €	Article number Stainless steel
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
SUBI-060-045	613	450	221	157	95	115	1,27	-	2,3	5,1	651,68	ZS4005450000000

Connection for mixed operation with integrated electric heating element

Painted version

Model	H ^④ mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
SUBM-130-45/ID	1291	450	509	363	222	267	1,25	500	4,5	8,6	689,51	817,47	ZS310145B100000
SUBM-150-45/ID	1579	450	615	438	268	322	1,25	600	5,4	10,6	749,93	879,07	ZS310245B100000
SUBM-180-45/ID	1867	450	715	511	314	377	1,24	600	6,3	12,2	868,96	1.012,31	ZS310345B100000
SUBM-130-60/ID	1291	600	639	455	279	335	1,25	600	5,4	10,5	728,36	859,85	ZS310160B100000
SUBM-150-60/ID	1579	600	772	550	337	405	1,25	750	7,2	12,5	821,00	964,36	ZS310260B100000
SUBM-180-60/ID	1867	600	898	642	395	473	1,24	900	7,7	14,7	899,20	1.070,99	ZS310360B100000

Chrome-plated version

Model	H ^④ mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Chrome €	Article number Chrome
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
SUBMC-130-45/ID	1291	450	336	238	145	174	1,27	300	4,5	8,4	1.309,19	ZS310145CR00000
SUBMC-150-45/ID	1579	450	413	293	178	214	1,27	300	5,4	10,1	1.543,71	ZS310245CR00000
SUBMC-180-45/ID	1867	450	486	345	209	252	1,27	300	6,3	11,8	1.780,57	ZS310345CR00000
SUBMC-130-60/ID	1291	600	408	290	177	213	1,26	300	5,4	10,2	1.380,66	ZS310160CR00000
SUBMC-150-60/ID	1579	600	502	357	218	262	1,26	500	7,2	12,3	1.716,68	ZS310260CR00000
SUBMC-180-60/ID	1867	600	590	419	256	308	1,26	600	7,7	14,3	1.871,87	ZS310360CR00000

Stainless-steel version

Model	H ^④ mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Stainless steel €	Article number Stainless steel
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
SUBMI-130-45/ID	1291	450	370	262	159	192	1,27	300	4,5	8,7	1.435,90	ZS4101450000000
SUBMI-150-45/ID	1579	450	445	315	192	231	1,27	300	5,4	10,4	1.694,17	ZS4102450000000
SUBMI-180-45/ID	1867	450	523	370	224	270	1,28	500	6,3	12,2	2.050,23	ZS4103450000000
SUBMI-130-60/ID	1291	600	447	318	194	233	1,26	300	5,4	10,4	1.538,54	ZS4101600000000
SUBMI-150-60/ID	1579	600	538	383	235	282	1,25	500	7,2	12,4	1.882,55	ZS4102600000000
SUBMI-180-60/ID	1867	600	633	454	280	335	1,23	600	7,7	14,4	2.106,44	ZS4103600000000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ Total height incl. electric heating element

Electric-only operation

Painted version

Model	H④ mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price① Cat. 1 €	Article number② RAL 9016
SUBE-130-45/ID	1291	450	500	673,01	740,31	ZS3G0145B100000
SUBE-150-45/ID	1579	450	600	731,17	804,29	ZS3G0245B100000
SUBE-180-45/ID	1867	450	600	868,96	1.012,31	ZS3G0345B100000
SUBE-130-60/ID	1291	600	600	728,36	859,85	ZS3G0160B100000
SUBE-150-60/ID	1579	600	750	801,21	881,32	ZS3G0260B100000
SUBE-180-60/ID	1867	600	900	899,20	1.070,99	ZS3G0360B100000

Chrome-plated version

Model	H④ mm	L mm	Classification Electric heating element Watt	Price Chrome €	Article number Chrome
SUBEC-130-45/ID	1291	450	300	1.277,18	ZS3G0145CR00000
SUBEC-150-45/ID	1579	450	300	1.506,27	ZS3G0245CR00000
SUBEC-180-45/ID	1867	450	300	1.780,57	ZS3G0345CR00000
SUBEC-130-60/ID	1291	600	300	1.380,66	ZS3G0160CR00000
SUBEC-150-60/ID	1579	600	500	1.674,83	ZS3G0260CR00000
SUBEC-180-60/ID	1867	600	600	1.825,56	ZS3G0360CR00000

Stainless-steel version

Model	H④ mm	L mm	Classification Electric heating element Watt	Price Stainless steel €	Article number Stainless steel
SUBEI-130-45/ID	1291	450	300	1.400,62	ZS4G01450000000
SUBEI-150-45/ID	1579	450	300	1.652,26	ZS4G02450000000
SUBEI-180-45/ID	1867	450	500	2.050,23	ZS4G03450000000
SUBEI-130-60/ID	1291	600	300	1.538,54	ZS4G01600000000
SUBEI-150-60/ID	1579	600	500	1.836,24	ZS4G02600000000
SUBEI-180-60/ID	1867	600	600	2.054,65	ZS4G03600000000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections for flow, return, left-hand or right-hand electric heating element (on site)
- Mixed operation: Electric heating element SAFIR, pre-assembled on the right, with infrared control device, incl. batteries, selectable operating modes: off, frost protection, economy, auto, comfort. Electric heating element cover in colour of radiator
- ½" chrome directional air vent
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid
- Electric heating element SAFIR with infrared control device, incl. batteries, selectable operating modes: off, frost protection, economy, auto, comfort
- Mounting accessories and cover of the electric heating element in colour of radiator
- Packaging

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	U100011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8%)	U100012332	147,23
■ Room divider version with two wall brackets and foot support, white, chrome, special colour	-	171,93
■ Room divider version with two wall brackets without foot support, white, chrome, special colour	-	133,11
■ Models for electric operation in room divider version	-	On request
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120
■ Zehnder thermostat SH, M 30 x 1.5, white	819080	25,46
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	35,76
■ Zehnder thermostat SH, M 30 x 1.5, stainless steel	819082	35,76
■ Connection from bottom to bottom, central, spacing 150 mm	U100062530	57,06

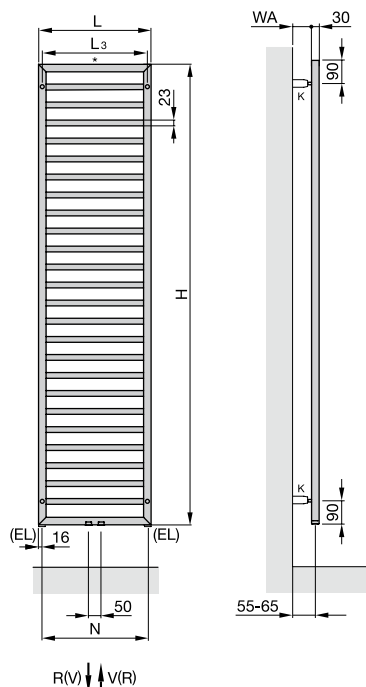
① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

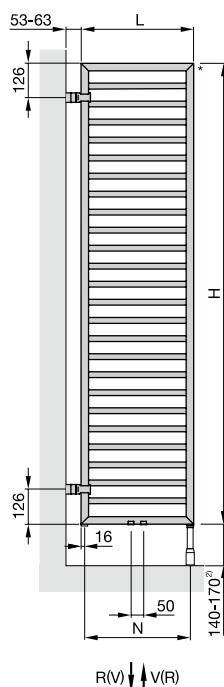
④ Total height incl. electric heating element

Hot water operation:

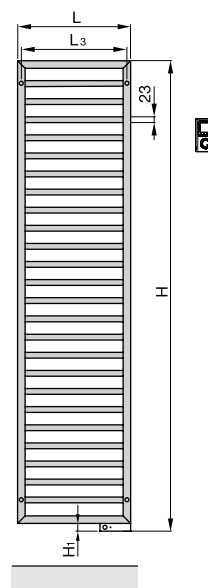
Wall mounting
(with welded-on threaded bolts)



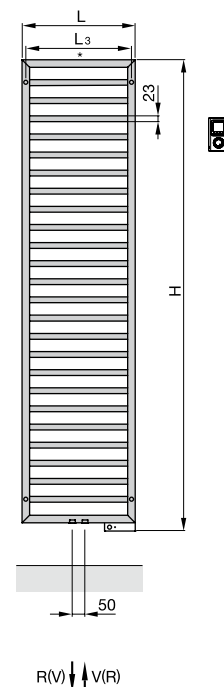
Room divider installation
(special solution without welded-on threaded bolts)¹⁾



Electric operation:

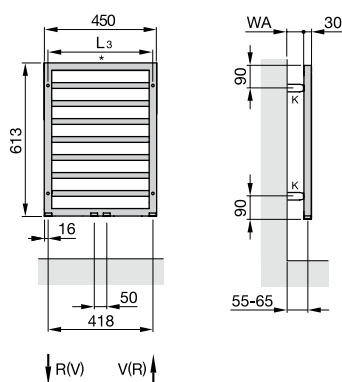


Mixed operation:



Hot water operation:

Version for guest WC



- H = Height
- H₁ = 30 mm
- L = Length
- EL = Connection for electric heating element
- K = Bracket
- V = Flow 1/2"
- R = Return 1/2"
- * = Venting 1/2"
- N = Connection centre
- WA = Wall clearance 40 - 50 mm
- L₃ = Fixing dimension, L - 30 mm

- 1) The standard version of the radiator is not suitable for room divider installation
- 2) For installation with foot support in standard length

Dimensions in mm



Radiator surface: Chrome



Radiator colour: Traffic White

Hot water operation

Zehnder Universal decorative radiator made from horizontally arranged precision steel tubes with surrounding square tubes, fully welded, invisible welds due to laser welding technology. Horizontal round tubes Ø 23 mm, with surrounding square tubes 30 x 30 mm. Thermal output tested to EN 442, with CE marking. With recessed connections on lower square tube, centre, ½" for flow/return and outside left and right ½" for electric heating element, with directional air vent. As a retrofit model with 2 x ½" recessed connections on the side, traversable right or left, connection dimension fits old DIN, cast or panel radiators with a connection centre of 500 or 900 mm. Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome on request, with packaging. Delivered ready to install with matching wall brackets.

Electric operation

Zehnder Universal decorative radiator, electric-only, made from horizontally arranged precision steel tubes with surrounding square tubes, fully welded, invisible welds due to laser welding technology. With integrated electric heating element NOVAR with connection cable (1.2 m long). Installation at bottom right. Delivered ready to install with matching wall brackets. Standard version with powder coating, in colour RAL 9016, in special colour or chrome on request. Decorative radiator filled with heat transfer liquid.

Operating pressure	max. 11,5 bar	Output	 Watt
Operating temperature	max. 110 °C	Height	 mm
Height	 mm	Length	 mm
Length	 mm	Model	.....
Model	.....		

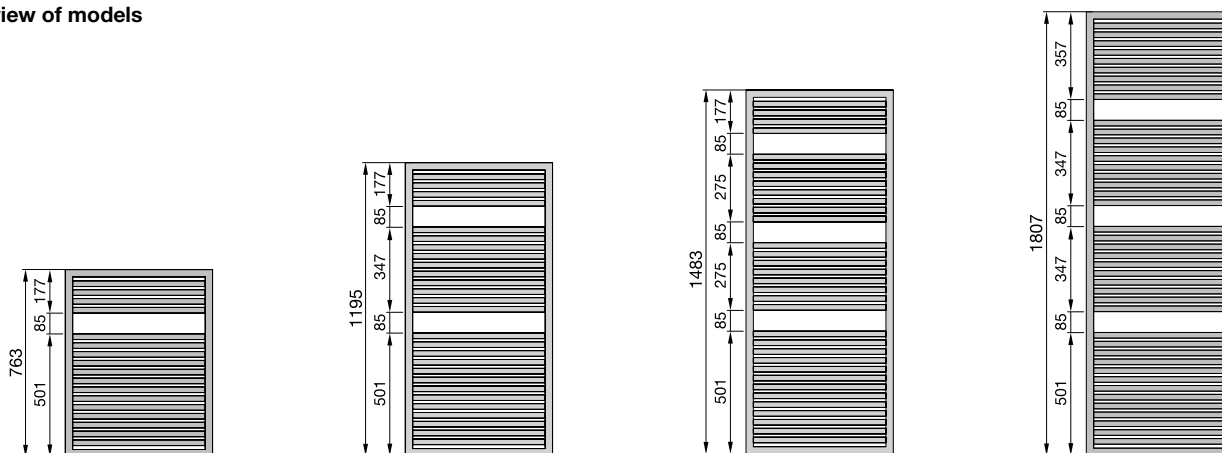
Benefits

- Classic design
- Small wall clearance
- Outside frame lends geometric look
- Many sizes and special models
- Side connections for easy replacement of old DIN standard radiators
- Satisfied customers due to short renovation time for radiator replacement

Special benefits for electric operation with NOVAR

- Medium temperature can be set to 2 levels
- Timer function
- Dry-running protection
- Ready-to-plug
- Without separate control device

Overview of models



Connection to hot water central heating system or for mixed operation

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							

Single-layer version

HU-120-045	1195	450	553	392	238	287	1,27	300	5,7	11,2	518,15	641,43	ZU100245B100000
HU-180-045	1807	450	831	591	360	433	1,26	600	8,4	16,3	683,64	845,73	ZU100445B100000
HU-070-050	763	500	401	287	176	211	1,24	300	4,1	8,4	472,51	588,92	ZU100150B100000
HU-120-050	1195	500	613	436	266	320	1,26	600	6,2	12,1	527,29	653,98	ZU100250B100000
HU-150-050	1483	500	752	536	328	394	1,25	600	7,5	14,7	622,02	748,70	ZU100350B100000
HU-180-050	1807	500	919	653	399	479	1,26	900	9,2	17,7	695,06	859,41	ZU100450B100000
HU-070-060	763	600	477	341	210	251	1,24	300	4,8	9,6	491,91	614,02	ZU100160B100000
HU-120-060	1195	600	735	522	319	383	1,26	600	7,3	14,0	535,28	661,97	ZU100260B100000
HU-150-060	1483	600	890	634	389	466	1,25	600	8,7	16,9	633,43	771,53	ZU100360B100000
HU-180-060	1807	600	1093	779	477	573	1,25	900	10,8	20,5	706,47	871,97	ZU100460B100000
HU-120-075	1195	750	918	654	401	481	1,25	600	8,9	16,8	576,36	714,47	ZU100275B100000
HU-180-075	1807	750	1355	971	599	718	1,23	1200	13,1	24,6	763,55	941,60	ZU100475B100000
HU-180-100	1807	1000	1792	1291	803	959	1,21	1200	17,1	31,6	863,98	1.064,84	ZU1004A0B100000

Double-layer version

HUD-120-050	1195	500	992	699	422	509	1,29	600	12,6	24,1	978,11	1.103,66	ZU200250B100000
HUD-180-050	1807	500	1420	1004	608	733	1,28	900	18,8	35,3	1.288,55	1.452,89	ZU200450B100000
HUD-120-060	1195	600	1191	842	510	615	1,28	600	14,8	27,7	1.006,64	1.133,33	ZU200260B100000
HUD-180-060	1807	600	1705	1209	734	884	1,27	900	22,0	40,6	1.327,34	1.492,85	ZU200460B100000
HUD-120-075	1195	750	1489	1058	646	776	1,26	900	18,0	33,0	1.117,34	1.255,46	ZU200275B100000
HUD-180-075	1807	750	2131	1515	924	1111	1,26	1200	26,8	48,5	1.476,88	1.654,92	ZU200475B100000
HUD-180-100	1807	1000	2841	2030	1248	1497	1,24	1200	34,8	61,6	1.595,57	1.796,43	ZU2004A0B100000

Painted version – Models for simple radiator replacement

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
HU-180-050-NA50	1807	500	919	653	399	479	1,26	-	9,2	17,7	764,68	929,02	ZU100450B1N5000
HU-180-050-NA90	1807	500	919	653	399	479	1,26	-	9,2	17,7	764,68	929,02	ZU100450B1N9000
HU-180-060-NA50	1807	600	1093	779	477	573	1,25	-	10,8	20,5	776,09	941,60	ZU100460B1N5000
HU-180-060-NA90	1807	600	1093	779	477	573	1,25	-	10,8	20,5	776,09	941,60	ZU100460B1N9000

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

Connection to hot water central heating system or for mixed operation

Chrome-plated version, single-layer

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Chrome €	Article number Chrome
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
HUC-120-045	1195	450	387	274	167	201	1,27	300	5,7	11,2	1.120,77	ZU100245CR00000
HUC-180-045	1807	450	582	414	252	303	1,26	300	8,4	16,3	1.479,15	ZU100445CR00000
HUC-070-050	763	500	281	201	123	148	1,24	300	4,1	8,4	1.050,02	ZU100150CR00000
HUC-120-050	1195	500	429	305	186	224	1,26	300	6,2	12,1	1.142,46	ZU100250CR00000
HUC-150-050	1483	500	526	375	230	276	1,25	300	7,5	14,7	1.349,04	ZU100350CR00000
HUC-180-050	1807	500	643	457	279	335	1,26	600	9,2	17,7	1.509,97	ZU100450CR00000
HUC-070-060	763	600	334	239	147	176	1,24	300	4,8	9,6	1.142,46	ZU100160CR00000
HUC-120-060	1195	600	515	366	223	269	1,26	300	7,3	14,0	1.204,10	ZU100260CR00000
HUC-150-060	1483	600	623	444	272	327	1,25	600	8,7	16,9	1.455,19	ZU100360CR00000
HUC-180-060	1807	600	765	545	334	401	1,25	600	10,8	20,5	1.589,85	ZU100460CR00000
HUC-120-075	1195	750	643	458	281	337	1,25	300	8,9	16,8	1.358,16	ZU100275CR00000
HUC-180-075	1807	750	949	680	420	503	1,23	900	13,1	24,6	1.793,01	ZU100475CR00000

Estimated to be available with electric heating element NOVAR until the middle of 2016, then with new electric heating element (see new products price list, mid-2016).

Electric-only operation

Painted version, single-layer

Model	H④	L	Classification Electric heating element	Price	Price①	Article number②
	mm	mm	Watt	RAL 9016 €	Cat. 1 €	RAL 9016
HE-070-045/ND	858	450	300	827,45	941,60	ZU140145B100000
HE-120-045/ND	1290	450	300	945,01	1.068,28	ZU140245B100000
HE-180-045/ND	1902	450	600	1.111,64	1.273,71	ZU140445B100000
HE-120-050/ND	1290	500	600	953,00	1.078,55	ZU140250B100000
HE-180-050/ND	1902	500	900	1.135,61	1.299,96	ZU140450B100000
HE-120-060/ND	1290	600	600	973,54	1.100,23	ZU140260B100000
HE-180-060/ND	1902	600	900	1.183,55	1.349,04	ZU140460B100000
HE-180-075/ND	1902	750	1200	1.245,18	1.423,22	ZU140475B100000

Chrome-plated version, single-layer

Model	H④	L	Classification Electric heating element	Price Chrome	Article number Chrome
	mm	mm	Watt	€	
HEC-120-045/ND	1290	450	300	1.721,12	ZU140245CR00000
HEC-180-045/ND	1902	450	300	1.912,85	ZU140445CR00000
HEC-120-050/ND	1290	500	300	1.724,54	ZU140250CR00000
HEC-180-050/ND	1902	500	600	1.951,67	ZU140450CR00000
HEC-120-060/ND	1290	600	300	1.773,61	ZU140260CR00000
HEC-180-060/ND	1902	600	600	2.039,54	ZU140460CR00000
HEC-180-075/ND	1902	750	900	2.151.39	ZU140475CR00000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections for flow, return, electric heating element
- Retrofit model: 2 x ½" connections at side, 1 x ½" at bottom
- ¼" directional air vent
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid
- With integrated electric heating element NOVAR (with selector switch), right-mounted, electric heating element cover generally white
- Mounting accessories in colour of radiator
- Packaging

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

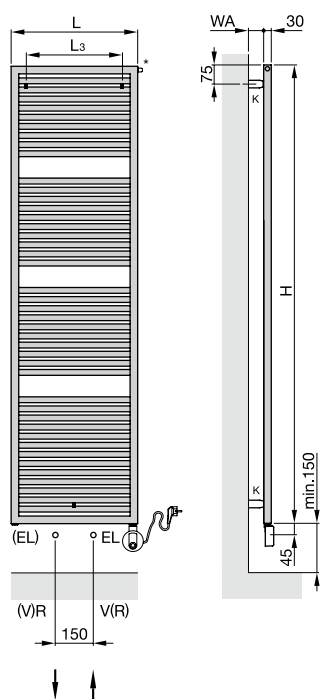
③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

④ Total height incl. electric heating element

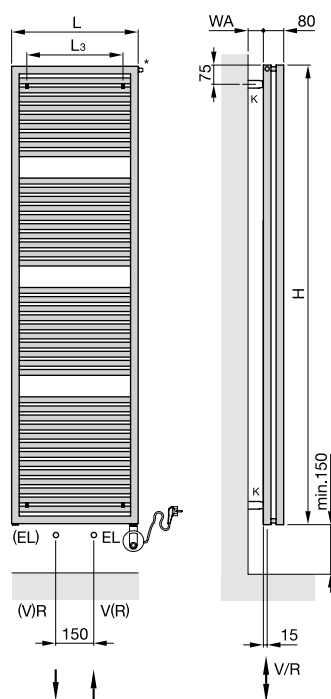
Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	2200011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 8-13%)	2200012332	147,23
■ Electric operation with comfort level Premium IRVAR	-	On request
■ Electric heating elements for mixed operation	-	See page 116 onwards
■ Accessories	-	See page 110
■ Lambswool cleaning brush	601040	40,40
■ Special shapes, versions for roof slopes and special sizes	According to sketch	On request
■ Double-layer special models (60% more thermal output)	According to sketch	On request
■ Retrofit model with optional connection size on side (same-end or opposite-end)	2200000600	124,61
■ Connections from and to top (only possible outside)	2200000600	124,61
■ Any connection size from and to bottom, at least 50 mm	2200062430	68,55
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

Hot water operation:

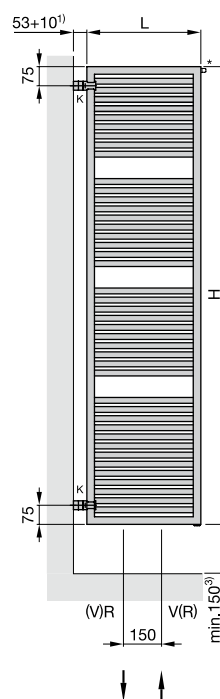
Wall mounting
Single-layer



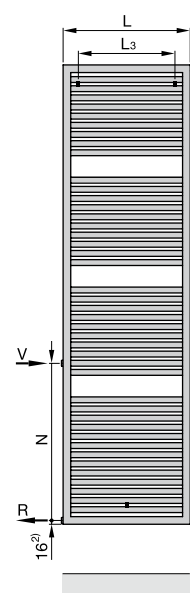
Double-layer



Room divider installation

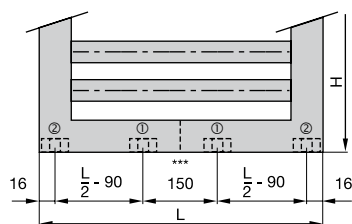


Retrofit model Left-hand connections



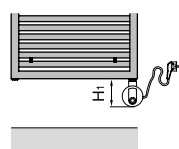
Hot water operation:

Detailed view



Electric operation:

Detailed view



- H = Height
- H₁ = 95 mm
- L = Length
- EL = Connection for electric heating element
- K = Bracket
- V = Flow 1/2"
- R = Return 1/2"
- * = Venting 1/4"
- *** = Baffle
- WA = Wall clearance 55-65 mm
- L₃ = Fixing dimension, L - 150 mm
- N = Connection centre

- ① = Connection 1/2" for hot water
- ② = Connection 1/2" for electric heating element

- 1) Lengthening possible with brackets for larger wall clearance, see page 88.
- 2) Return max. 100 mm from bottom edge of radiator possible.
- 3) For installation with foot support in standard length: max. 170 mm.

Dimensions in mm



Radiator surface: Dark Purple



Hot water operation

Zehnder Janda decorative radiator made from curved, horizontally arranged precision steel tubes Ø 23 mm with vertical, fully welded D-profile tubes 30 x 35 mm. Invisible welds due to laser welding technology.

Thermal output tested to EN 442, with CE marking.

Flow/return connection in centre ½" or outside left and right ½", connection 50 mm for connection fitting, connection for immersion heater 2 x ½" at bottom on D-profile tube; air vent to top ¼". Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request.

Delivered ready to install with matching wall brackets, packaging.

Maximum operating pressure	max. 11,5 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Benefits

- Convenient for hanging towels through attractive curvature of the tubes
- Large cut-outs
- Harmonious design
- Connections optionally on right/left
- Mixed operation possible with T-piece
- Top-grade chrome finish

Electric operation

Zehnder Janda decorative radiator, electric-only, made from curved, horizontally arranged precision steel tubes Ø 23 mm with vertical, fully welded D-profile tubes 30 x 35 mm.

Invisible welds due to laser welding technology. With integrated immersion heater DBM with connection cable 1,2 m long, installed at bottom right. Delivered ready to install with matching wall brackets. Standard version with powder coating in colour RAL 9016, in special colour or chrome on request, with packaging.

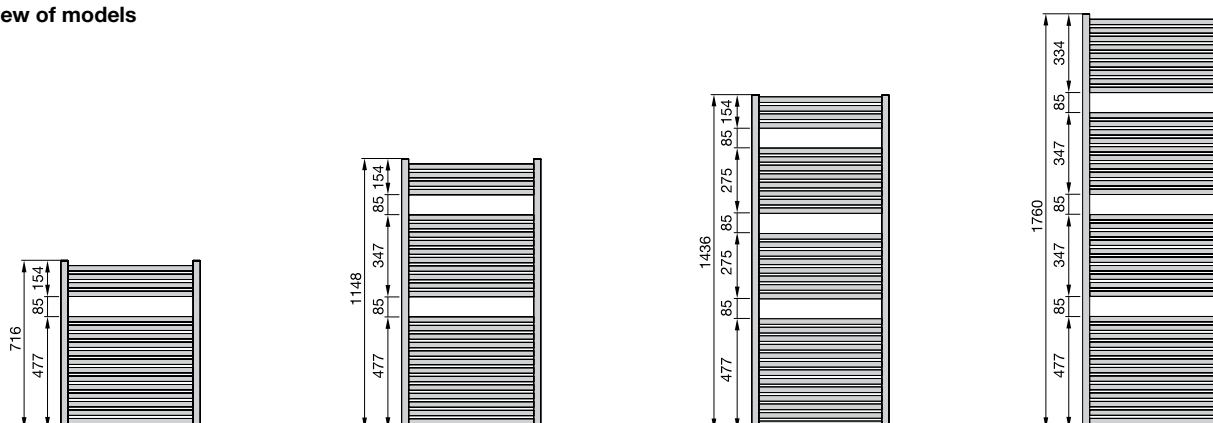
Decorative radiator filled with non-flammable heat transfer liquid.

Output	 Watt
Height	 mm
Length	 mm
Model	.....

Special benefits for electric operation with DBM

- Medium temperature can be set on 3 levels
- Timer function
- Dry running protection
- Ready to plug in
- Without separate control device

Overview of models



Connection to hot water central heating system or for mixed operation

Painted version, connection on side

Model	H mm	L mm	Thermal output			Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €
			EN 442 ^② Watt	70/55/24 Watt	55/45/24 Watt						
JAB-070-050	716	495	359	257	159	1,23	300	3,7	6,5	296,07	412,49
JAB-120-050	1148	495	565	404	248	1,24	300	6,0	10,5	318,91	444,46
JAB-150-050	1436	495	701	500	306	1,23	300	7,3	13,1	458,33	527,09
JAB-180-050	1760	495	862	616	379	1,24	600	9,1	16,4	436,47	600,80
JAB-070-060	716	595	424	305	189	1,22	300	4,3	7,6	326,90	449,01
JAB-120-060	1148	595	668	477	294	1,24	600	6,9	12,1	330,32	457,00
JAB-150-060	1436	595	825	588	360	1,25	600	8,5	14,8	472,22	543,05
JAB-180-060	1760	595	1028	737	455	1,23	900	10,6	18,8	451,30	616,78
JAB-120-075	1148	745	824	592	367	1,22	600	8,3	14,2	363,39	499,78
JAB-180-075	1760	745	1276	917	568	1,22	1200	12,8	22,5	492,38	670,43

Painted version, connection central 50 mm

Model	H mm	L mm	Thermal output			Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^② Watt	70/55/24 Watt	55/45/24 Watt							
JAB-070-050-05	716	495	359	257	159	1,23	300	3,7	6,5	344,68	461,09	ZT400250B100000
JAB-120-050-05	1148	495	565	404	248	1,24	300	6,0	10,5	367,51	493,05	ZT400450B100000
JAB-180-050-05	1760	495	862	616	379	1,24	600	9,1	16,4	485,07	649,41	ZT400850B100000
JAB-070-060-05	716	595	424	305	189	1,22	300	4,3	7,6	375,50	497,62	ZT400260B100000
JAB-120-060-05	1148	595	668	477	294	1,24	600	6,9	12,1	378,91	505,60	ZT400460B100000
JAB-180-060-05	1760	595	1028	737	455	1,23	900	10,6	18,8	499,90	665,38	ZT400860B100000
JAB-120-075-05	1148	745	824	592	367	1,22	600	8,3	14,5	409,73	547,83	ZT400475B100000
JAB-180-075-05	1760	745	1276	917	568	1,22	1200	12,8	22,5	540,99	719,02	ZT400875B100000

Chrome-plated version

Model	H mm	L mm	Thermal output			Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Chrome €	Article number Chrome
			EN 442 ^② Watt	70/55/24 Watt	55/45/24 Watt						
JABC-070-050	716	495	240	169	101	1,30	300	3,7	6,5	787,51	ZJ100250CR00000
JABC-120-050	1148	495	379	267	160	1,30	300	6,0	10,5	857,14	ZJ100450CR00000
JABC-180-050	1760	495	596	419	252	1,30	600	9,1	16,4	1.132,19	ZJ100850CR00000
JABC-070-060	716	595	285	201	121	1,29	300	4,3	7,6	857,14	ZJ100260CR00000
JABC-120-060	1148	595	451	318	192	1,29	300	6,9	12,1	903,92	ZJ100460CR00000
JABC-180-060	1760	595	709	499	299	1,30	600	10,6	18,8	1.190,38	ZJ100860CR00000

① For special colours in categories 1 and 2, see "Special versions" and colour chart

② Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Electric-only operation – with immersion heater DBM

Painted version

Model	H ^② mm	L mm	Classification of immersion heater Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number RAL 9016
JAE-070-050/DD	836	495	300	501,09	554,73	ZJ1A0250B100000
JAE-120-050/DD	1268	495	600	574,56	632,02	ZJ1A0450B100000
JAE-150-050/DD	1556	495	750	630,67	693,75	ZJ1A0650B100000
JAE-180-050/DD	1880	495	900	686,79	755,47	ZJ1A0850B100000
JAE-120-060/DD	1268	595	600	678,03	752,63	ZJ1A0460B100000
JAE-180-060/DD	1880	595	1200	738,90	812,78	ZJ1A0860B100000
JAE-120-075/DD	1268	746	750	973,91	1.081,04	ZJ1A0475B100000
JAE-180-075/DD	1880	746	1200	1.080,82	1.199,73	ZJ1A0875B100000

Chrome-plated version

Model	H ^② mm	L mm	Classification of immersion heater Watt	Price Chrome €	Article number Chrome
JAEC-070-050/DD	836	495	200	1.072,96	ZJ1A0250CR00000
JAEC-120-050/DD	1268	495	300	1.206,57	ZJ1A0450CR00000
JAEC-150-050/DD	1556	495	500	1.436,39	ZJ1A0850CR00000
JAEC-180-060/DD	1880	595	600	1.643,49	ZJ1A0660CR00000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 2 x ½" connections for flow, return
- ¼" air vent
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid
- With integrated immersion heater DBM, right-mounted
- Electric heating element cover in white (radiators in RAL 9016) or chrome (all other surfaces)
- Mounting accessories in colour of radiator
- Packaging

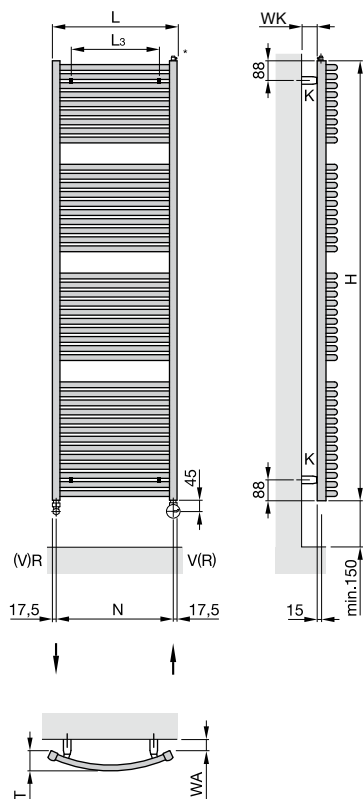
Special version on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	5400011640	98,15
■ Surface in metal look: stainless steel look, surcharge on cat. 1 (reduced output approx. 13%)	5400012332	147,23
■ Immersion heaters and T-piece for mixed operation	-	See page 116 onwards
■ Accessories	-	See page 110
■ Lambswool cleaning brush	601040	40,40
■ Zehnder Comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120
■ Zehnder thermostat SH, M 30 x 1.5, white	819080	25,46
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	35,76

① For special colours in categories 1 and 2, see "Special versions" and colour chart

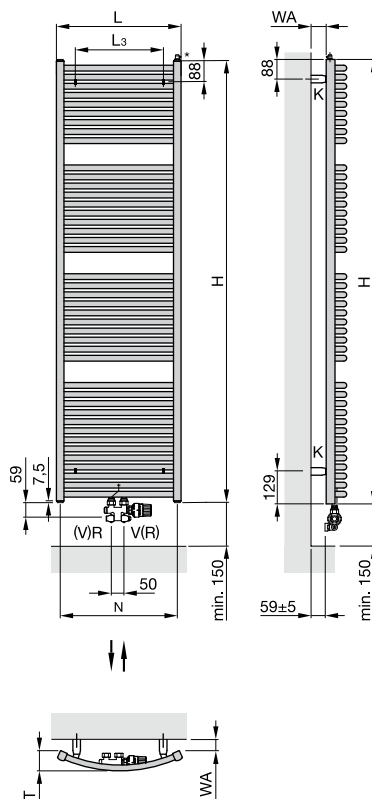
② Total height incl. immersion heater

Hot water operation:

Wall mounting

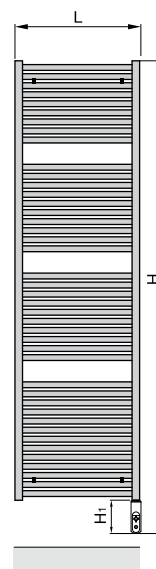


with connection fittings
for Zehnder Vario



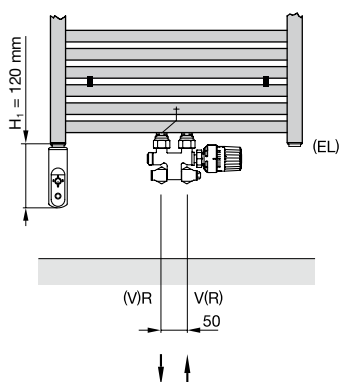
Electric operation:

with immersion heater
DBM



Mixed operation:

Connection to hot water central heating
system with immersion heater (fig. with DBM)
and Zehnder Vario



- H = Height
- H₁ = 120 mm
- L = Length
- EL = Connection for immersion heater
- T = Depth 80 mm
- K = Bracket(s)
- WA = Wall clearance 35 - 45 mm
- V = Flow ½"
- R = Return ½"
- * = Air vent ¼"
- N = Boss spacing
- L - 35 mm (normal operation),
L - 112 mm (mixed operation)
- L₃ = Fixing dimension, L - 200 mm

Dimensions in mm



Radiator surface: Chrome



Hot water operation

Zehnder Toga decorative radiator made from horizontally arranged precision steel tubes with vertical, fully welded D-profile tubes and invisible welds due to laser welding technology. Round tube Ø 23 mm, D-tube 30 x 35 mm.

Thermal output tested to EN 422, with CE marking.

Flow/return connection in centre ½" or outside left and right ½", connection 50 mm for connection fitting, connection for immersion heater 2 x ½" at bottom on D-profile tube; air vent to top ¼". Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request.

Delivered ready to install with matching wall brackets, packaging.

Electric operation

Zehnder Toga decorative radiator, electric-only, is made from horizontally arranged precision steel tubes with vertical, fully welded D-profile tubes and invisible welds due to laser welding technology. With integrated immersion heater DBM. Splash-proof, for supply voltage 230 V ± 10%.

With 3-core connection cable, 1,2 m in length, with safety plug. Decorative radiator filled with non-flammable heat transfer liquid. Delivered ready to install with matching wall brackets. Standard version with powder coating, in colour RAL 9016, in special colour or chrome on request.

Maximum operating pressure	max. 11,5 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Output	 Watt
Height	 mm
Length	 mm
Model	.....

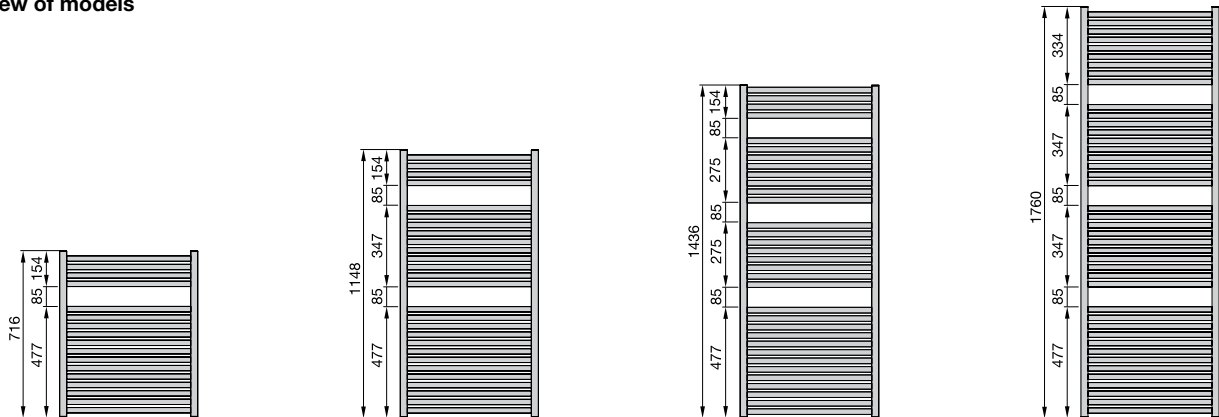
Benefits

- Harmonious design through D-profile of vertical tubes
- Can be used as a room divider
- Large cut-outs
- Wide range of models
- Top-grade chrome finish

Special benefits for electric operation with DBM

- Medium temperature can be set on 3 levels
- Timer function
- Dry running protection
- Ready to plug in
- Without separate control device

Overview of models



Connection to hot water central heating system or for mixed operation

Painted version, connection from below

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €
			EN 442 ^② Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
TG-070-045	716	450	326	234	144	184	1,23	300	3,4	6,4	181,95	296,06
TG-120-045	1148	450	513	367	225	275	1,24	300	5,3	9,4	221,89	345,16
TG-180-045	1760	450	780	557	343	432	1,24	600	8,6	14,5	309,77	471,85
TG-070-050	716	500	359	257	159	203	1,23	300	3,7	6,4	199,06	315,48
TG-120-050	1148	500	565	404	248	305	1,24	300	5,8	10,1	229,87	355,42
TG-150-050	1436	500	701	500	306	376	1,25	600	7,4	11,6	302,03	441,32
TG-180-050	1760	500	862	616	379	476	1,24	600	9,3	15,6	318,91	483,26
TG-070-060	716	600	424	305	189	240	1,22	300	4,3	7,3	221,89	344,00
TG-120-060	1148	600	668	477	294	366	1,24	600	6,9	11,6	239,01	365,69
TG-150-060	1436	600	825	588	360	450	1,25	600	8,5	14,3	319,30	451,81
TG-180-060	1760	600	1028	737	455	563	1,23	900	10,8	18,0	330,32	495,81
TG-120-075	1148	750	824	591	365	457	1,23	600	8,4	13,9	261,83	399,93
TG-180-075	1760	750	1276	917	568	696	1,22	1200	12,9	21,5	361,14	539,18
TG-180-100	1760	1000	1690	1221	763	913	1,20	1200	16,5	27,4	397,64	598,52

Painted version, connection central 50 mm

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							
TG-070-045-05	716	450	326	234	144	173	1,23	300	3,4	6,4	230,55	344,68	ZT300245B100000
TG-120-045-05	1148	450	513	367	225	270	1,24	300	5,3	9,4	270,50	393,75	ZT300445B100000
TG-180-045-05	1760	450	780	557	343	411	1,24	600	8,6	14,5	358,37	520,46	ZT300845B100000
TG-070-050-05	716	500	359	257	159	190	1,23	300	3,7	6,4	247,67	364,09	ZT300250B100000
TG-120-050-05	1148	500	565	404	248	298	1,24	300	5,8	10,1	278,49	404,02	ZT300450B100000
TG-150-050-05	1436	500	701	500	306	367	1,25	600	7,4	11,6	344,70	501,76	ZT300650B100000
TG-180-050-05	1760	500	862	616	379	454	1,24	600	9,3	15,6	367,51	531,86	ZT300850B100000
TG-070-060-05	716	600	424	305	189	226	1,22	300	4,3	7,3	270,50	392,61	ZT300260B100000
TG-120-060-05	1148	600	668	477	294	352	1,24	600	6,9	11,6	287,61	414,29	ZT300460B100000
TG-150-060-05	1436	600	825	588	360	432	1,25	600	8,5	13,4	354,97	511,22	ZT300660B100000
TG-180-060-05	1760	600	1028	737	455	544	1,23	900	10,8	18,0	378,91	544,42	ZT300860B100000
TG-120-075-05	1148	750	824	591	365	436	1,23	600	8,4	13,9	310,45	448,53	ZT300475B100000
TG-180-075-05	1760	750	1276	917	568	679	1,22	1200	12,9	21,5	409,73	587,79	ZT300875B100000
TG-180-100-05	1760	1000	1690	1221	763	909	1,20	1200	16,5	27,4	446,25	647,13	ZT3008A0B100000

① For special colours in categories 1 and 2, see "Special versions" and colour chart

② Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Connection to hot water central heating system or for mixed operation

Chrome-plated version

Model	H mm	L mm	Thermal output			Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Chrome €	Article number Chrome
			EN 442② Watt	70/55/24 Watt	55/45/24 Watt						
TGC-070-050	716	500	240	169	101	1,30	300	3,7	6,7	648,00	ZT100250CR00000
TGC-120-050	1148	500	379	267	160	1,30	300	5,8	10,5	763,76	ZT100450CR00000
TGC-150-050	1436	500	478	335	201	1,31	300	7,4	13,1	923,51	ZT100650CR00000
TGC-180-050	1760	500	596	419	252	1,30	300	9,3	17,3	1.008,62	ZT100850CR00000
TGC-120-060	1148	600	451	317	190	1,30	300	6,9	12,0	818,68	ZT100460CR00000
TGC-180-060	1760	600	709	499	299	1,30	600	10,8	19,4	1.080,35	ZT100860CR00000

Electric-only operation

Painted version

Model	H③ mm	L mm	Classification of immersion heater Watt	Price RAL 9016 €	Price① Cat. 1 €	Article number② RAL 9016
TE-070-050/DD	836	500	300	477,07	593,48	ZT1A0250B100000
TE-120-050/DD	1268	500	600	566,09	691,64	ZT1A0450B100000
TE-150-050/DD	1556	500	750	666,52	793,22	ZT1A0650B100000
TE-180-050/DD	1880	500	900	729,29	893,65	ZT1A0850B100000
TE-120-060/DD	1268	600	600	583,22	709,90	ZT1A0460B100000
TE-180-060/DD	1880	600	1200	761,25	926,75	ZT1A0860B100000
TE-180-075/DD	1880	750	1200	852,56	1.030,61	ZT1A0875B100000

Chrome-plated version

Model	H③ mm	L mm	Classification of immersion heater Watt	Price Chrome €	Article number Chrome
TEC-070-050/DD	836	500	200	1.036,33	ZT1A0250CR00000
TEC-120-050/DD	1268	500	300	1.228,07	ZT1A0450CR00000
TEC-150-050/DD	1556	500	500	1.456,32	ZT1A0650CR00000
TEC-180-060/DD	1880	600	750	1.650,35	ZT1A0860CR00000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 2 x ½" connections for flow, return
- ¼" air vent, right
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid
- With integrated immersion heater DBM
- Mounting accessories in colour of radiator
- Packaging
- Immersion heater cover in white (radiators in RAL 9016) or chrome (all other surfaces)

Special version on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	2800011640	98,15
■ Surface in metal look: stainless steel look, surcharge on cat. 1 (reduced output approx. 13%)	2800012332	147,23
■ Use as room divider with separate mounting accessories	-	See page 110
■ Immersion heaters and T-piece for mixed operation	-	See page 116 onwards
■ Accessories	-	See page 110
■ Lambswool cleaning brush	601040	40,40
■ Zehnder Comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120
■ Zehnder thermostat SH, M 30 x 1.5, white	819080	25,46
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	35,76

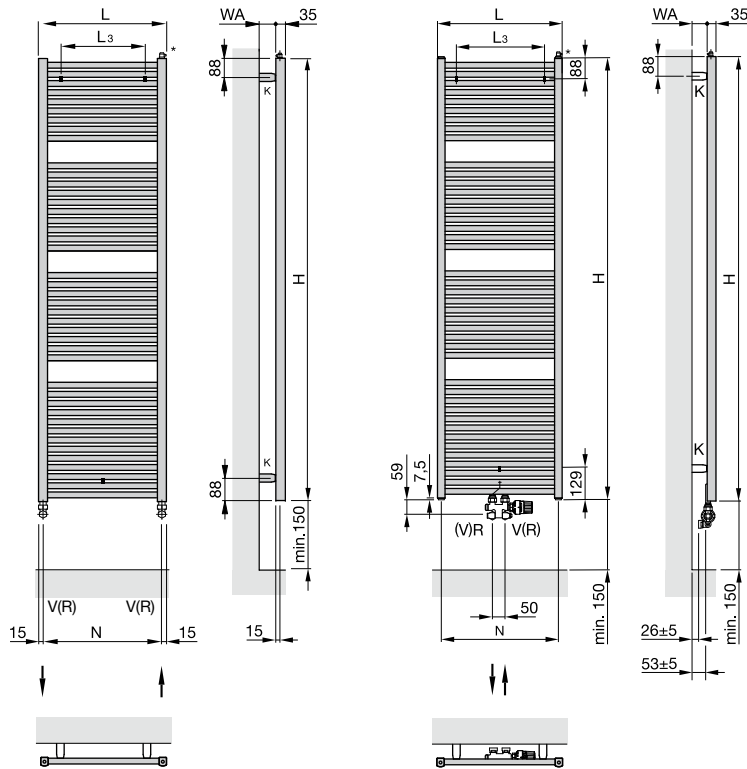
① For special colours in categories 1 and 2, see "Special versions" and colour chart

② Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

③ Total height incl. immersion heater

Hot water operation:

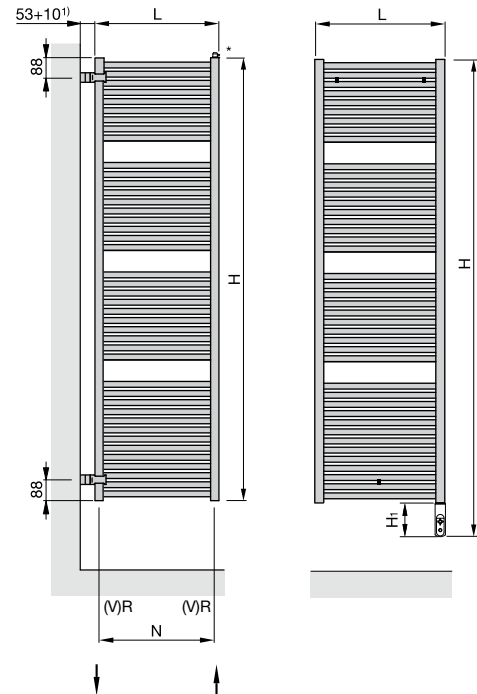
Wall mounting
connection on side



Room divider installation

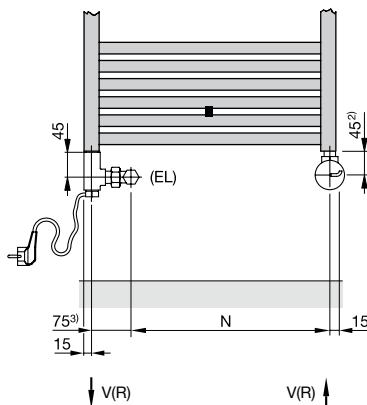
Electric operation:

with immersion heater DBM



Mixed operation:

Connection to hot water central heating
with immersion heater (fig. with RICA) and
T-piece in return



- 1) Extensions to 103 mm possible with room divider brackets for larger wall clearance
- 2) Dimensions only apply to standard valves of the AV series (comfort fittings = 59 mm)
- 3) Dimensions apply only to standard return screw connection combi 3 (comfort fittings = 89 mm)

- H = Height
H₁ = 120 mm
L = Length
K = Bracket
WA = Wall clearance 55 - 65 mm
V = Flow ½"
R = Return ½"
* = Air vent ¼"
EL = Connection for immersion heater
N = Boss spacing = L - 30 mm
L₃ = Fixing dimension, L - 150 mm

Dimensions in mm

Zehnder Forma Asym

Product description



Radiator colour: Traffic White



Hot water operation

Zehnder Forma Asym decorative radiator made from horizontally arranged precision steel tubes welded to vertically arranged round tubes. Invisible connection due to capstan welding technology. Horizontal tubes each branch asymmetrically from the laterally arranged collectors. Horizontal steel tubes Ø 25 mm, vertical header tubes Ø 38 mm. Thermal output tested to EN 442, with CE marking. With connections at bottom, 2 x ½" for flow/return, connection centre 50 mm. Alternatively with additional 2 x ½" centre connections, spacing 50 mm for flow/return. Radiator with powder coating, in colour RAL 9016 as standard, in special colour on request. Delivered ready to install with matching wall brackets.

Electric operation

Zehnder Forma Asym decorative radiator, electric-only, made from horizontally arranged precision steel tubes welded to vertically arranged round tubes with invisible welds due to capstan welding technology. Horizontal steel tubes Ø 25 mm, vertical header tubes Ø 38 mm. With integrated electric heating element DBM (in outer collector). Splash-proof, for supply voltage 230 V ± 10%. With 3-core connection cable, 1.2 m in length, with safety plug. Decorative radiator filled with heat transfer liquid. Delivered ready to install with matching wall brackets. Standard version with powder coating, in colour RAL 9016, in special colour on request.

Operating pressure	max. 10 bar
Operating temperature	max. 95 °C
Height	 mm
Length	 mm
Model	.....

Output	 Watt
Height	 mm
Length	 mm
Model	.....

Benefits

- Relaxed look through cross-connected tubes
- Open access from both sides makes it very convenient for hanging and sliding towels in from the side
- Large wall clearance for snugly towels
- Diverse range of models with left-hand or right-hand version
- Mixed operation possible with centre connections as an option

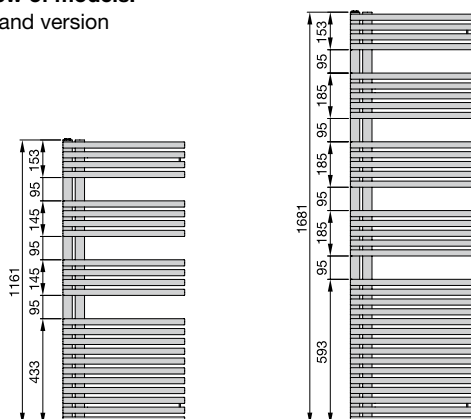
Special benefits for electric operation with DBM

- Medium temperature can be set to 3 levels
- Timer function
- Dry-running protection
- Ready-to-plug
- Without separate control device

zehnder

zehnder

Right-hand version



Painted version

Model	H	L	Thermal output				Exp.	Classification Electric heating element	V	M	Price RAL 9016	Price ^① Cat. 1	Article number ^② RAL 9016	
	mm	mm	EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt								n
Right-hand version														
LFAR-120-050	1161	496	547	389	237	285	1,26	-	7,0	12,1	454,38	581,52	ZF500250B100000	
LFAR-170-050	1681	496	778	552	335	404	1,27	-	10,1	17,1	608,58	775,04	ZF500550B100000	
LFAR-120-060	1161	596	628	446	272	327	1,26	-	8,0	13,8	476,99	605,31	ZF500260B100000	
LFAR-170-060	1681	596	894	634	385	464	1,27	-	11,4	19,6	637,36	804,95	ZF500560B100000	
Left-hand version														
LFAL-120-050	1161	496	547	389	237	285	1,26	-	7,0	12,1	454,38	581,52	ZF600250B100000	
LFAL-170-050	1681	496	778	552	335	404	1,27	-	10,1	17,1	608,58	775,04	ZF600550B100000	
LFAL-120-060	1161	596	628	446	272	327	1,26	-	8,0	13,8	476,99	605,31	ZF600260B100000	
LFAL-170-060	1681	596	894	634	385	464	1,27	-	11,4	19,6	637,36	804,95	ZF600560B100000	

Painted version

Model	H	L	Thermal output				Exp.	Classification Electric heating element	V	M	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
	mm	mm	EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt								n
Right-hand version													
LFAR-120-050-05	1161	496	547	389	237	285	1,26	300	7,0	12,1	513,36	644,06	ZF700250B100000
LFAR-170-050-05	1681	496	778	552	335	404	1,27	600	10,1	17,1	671,88	843,00	ZF700550B100000
LFAR-120-060-05	1161	596	628	446	272	327	1,26	600	8,0	13,8	536,61	668,52	ZF700260B100000
LFAR-170-060-05	1681	596	894	634	385	464	1,27	900	11,4	19,6	701,47	873,75	ZF700560B100000
Left-hand version													
LFAL-120-050-05	1161	496	547	389	237	285	1,26	300	7,0	12,1	513,36	644,06	ZF800250B100000
LFAL-170-050-05	1681	496	778	552	335	404	1,27	600	10,1	17,1	671,88	843,00	ZF800550B100000
LFAL-120-060-05	1161	596	628	446	272	327	1,26	600	8,0	13,8	536,61	668,52	ZF800260B100000
LFAL-170-060-05	1681	596	894	634	385	464	1,27	900	11,4	19,6	701,47	873,75	ZF800560B100000

③ Thermal output according to EN 442, ΔT 50 K (75/65/20 °C)

Electric-only operation

Painted version

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
-------	----------------------	---------	--	------------------------	-----------------------------------	---

Right-hand version

LFAER-120-50/DD	1281	496	500	700,07	827,21	ZF5A0250B100000
LFAER-170-50/DD	1801	496	750	903,61	1.070,06	ZF5A0550B100000
LFAER-120-60/DD	1281	596	600	732,96	861,28	ZF5A0260B100000
LFAER-170-60/DD	1801	596	900	947,82	1.115,40	ZF5A0560B100000

Left-hand version

LFAEL-120-50/DD	1281	496	500	700,07	827,21	ZF6A0250B100000
LFAEL-170-50/DD	1801	496	750	903,61	1.070,06	ZF6A0550B100000
LFAEL-120-60/DD	1281	596	600	732,96	861,28	ZF6A0260B100000
LFAEL-170-60/DD	1801	596	900	947,82	1.115,40	ZF6A0560B100000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 2 x ½" connections for flow, return
- ½" directional air vent
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid, frost-proof to -10 °C
- With integrated electric heating element DBM, manually selectable operating modes: medium temperature approx. 70 °C, medium temperature approx. 40 °C, frost protection, off; additional programme button for 2-hour timer function, selectable medium temperatures 40/70 °C.
- Electric heating element cover in white (radiators in RAL 9016) or chrome (all other surfaces)
- Mounting accessories in colour of radiator
- Packaging

Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	7600011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 13%)	7600012332	147,23
■ Zehnder thermostat LH2, M 30 x 1.5, white	819140	23,42
■ Zehnder thermostat LH2, M 30 x 1.5, chrome	819148	40,35
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

① For special colours in categories 1 and 2, see special solutions and colour chart

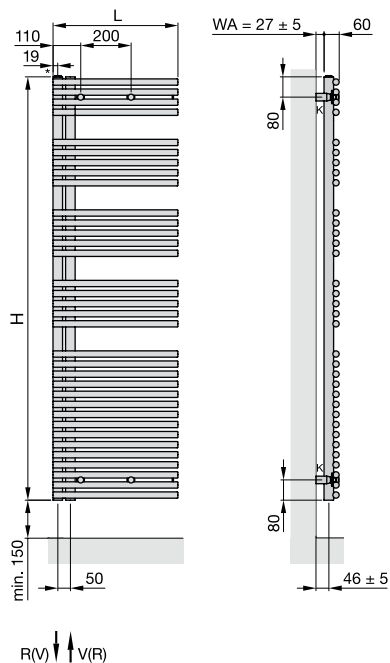
② For article numbers for special colours in category 1, see colour chart

④ Total height incl. electric heating element

Hot water operation:

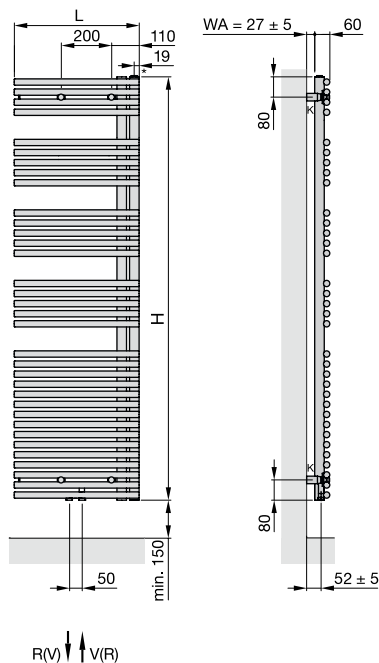
Wall mounting

Right-hand version



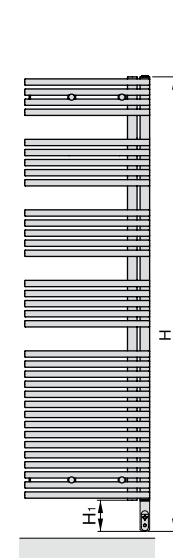
50 mm centre connections

Left-hand version



Electric operation:

Left-hand version

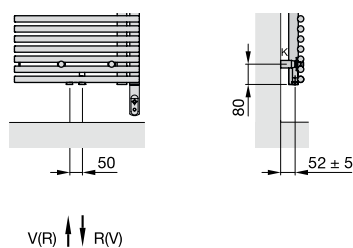


Mixed operation:

Connection to hot water central heating with

50 mm centre connections

(with electric heating element DBM)



- H = Height
- H₁ = 120 mm
- L = Length
- K = Bracket
- WA = Wall clearance
- V = Flow ½"
- R = Return ½"
- * = Venting ½"

Dimensions in mm

Zehnder Forma Spa

Product description



Radiator colour: Beige Quartz



Hot water operation

Zehnder Forma Spa decorative radiator made from horizontally arranged precision steel tubes welded to vertically arranged round tubes. Invisible connection due to capstan welding technology. Single or double-layer version.

Horizontal steel tubes Ø 25 mm, vertical header tubes Ø 38 mm.

Thermal output tested to EN 442, with CE marking.

With centre connections, ½" for flow/return, connection centre 50 mm and outside left and right, ½" for electric heating element, with directional air vent. Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome on request; with packaging. Delivered ready to install with matching wall brackets.

Electric operation

Zehnder Forma Spa decorative radiator, electric-only, made from horizontally arranged precision steel tubes welded to vertically arranged round tubes with invisible welds due to capstan welding technology. Horizontal steel tubes Ø 25 mm, vertical header tubes Ø 38 mm.

With integrated electric heating element DBM. Splash-proof, for supply voltage 230 V ± 10%. With 3-core connection cable, 1.2 m in length, with safety plug. Decorative radiator filled with heat transfer liquid.

Delivered ready to install with matching wall brackets. Standard version with powder coating, in colour RAL 9016, in special colour or chrome on request.

Operating pressure	max. 10 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Output	 Watt
Height	 mm
Length	 mm
Model	.....

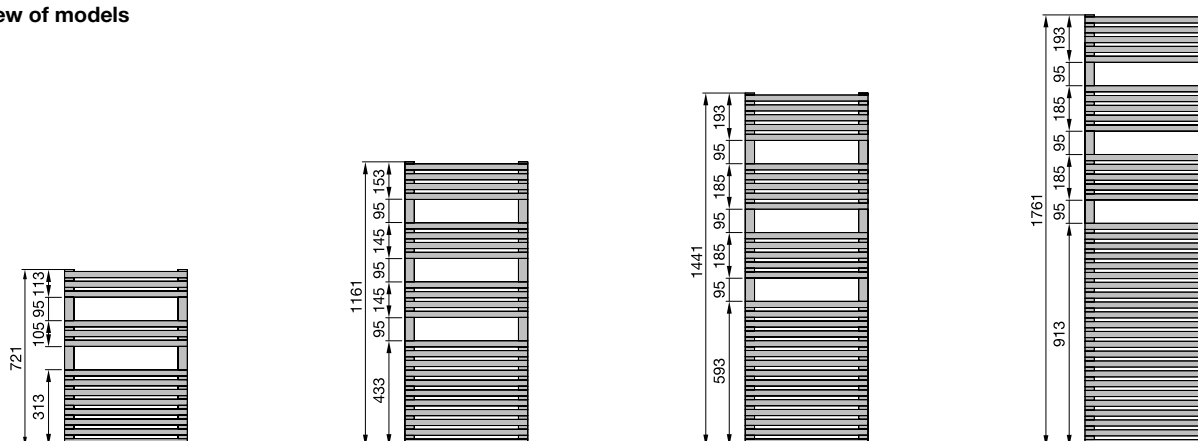
Benefits

- Relaxed look through cross-connected tubes
- Double-layer models for high thermal output
- Large wall clearance for snugly towels
- Centre connections
- Available with matching Vario fitting
- Mixed operation possible without T-piece

Special benefits for electric operation with DBM

- Medium temperature can be set to 3 levels
- Timer function
- Dry-running protection
- Ready-to-plug
- Without separate control device
- Electric heating element cover in white (radiators in RAL 9016) or chrome (all other surfaces)

Overview of models



Connection to hot water central heating system or for mixed operation

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €	Article number ^② RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt							

Single-layer version

LF-070-050-05	721	496	378	270	166	199	1,24	300	4,2	7,4	373,23	489,63	ZF200150B100000
LF-120-050-05	1161	496	612	437	269	322	1,24	300	6,8	12,1	407,46	533,01	ZF200250B100000
LF-150-050-05	1441	496	796	570	352	422	1,23	600	8,7	15,6	446,25	572,94	ZF200350B100000
LF-180-050-05	1761	496	973	699	433	518	1,22	900	10,9	19,6	545,55	709,90	ZF200450B100000
LF-070-060-05	721	596	442	318	197	235	1,22	300	4,7	8,5	384,63	506,74	ZF200160B100000
LF-120-060-05	1161	596	707	508	315	376	1,22	600	7,7	13,9	428,00	554,69	ZF200260B100000
LF-150-060-05	1441	596	927	668	416	496	1,21	900	9,9	18,0	505,60	643,69	ZF200360B100000
LF-180-060-05	1761	596	1133	814	505	603	1,22	900	12,5	22,6	571,80	737,29	ZF200460B100000
LF-180-075-05	1761	746	1416	1018	631	754	1,22	1200	14,8	26,8	617,45	795,50	ZF200475B100000

Double-layer version

LFD-120-050-05	1161	496	848	604	370	444	1,25	-	10,8	19,9	713,32	838,88	ZF400250B100000
LFD-150-050-05	1441	496	1092	776	474	569	1,26	-	14,3	26,3	784,09	910,78	ZF400350B100000
LFD-180-050-05	1761	496	1299	923	563	677	1,26	-	17,9	32,6	844,57	1.008,92	ZF400450B100000
LFD-120-060-05	1161	596	1012	721	442	530	1,25	-	12,6	23,1	704,20	830,88	ZF400260B100000
LFD-180-060-05	1761	596	1535	1091	666	800	1,26	-	20,8	38,0	865,13	1.030,61	ZF400460B100000

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						

Single-layered version, connection on side

LF-070-050	721	496	378	270	166	199	1,24	300	4,2	7,0	313,82	430,23
LF-120-050	1161	496	612	437	269	322	1,24	300	6,8	11,5	348,06	473,60
LF-180-050	1761	496	973	699	433	518	1,22	900	10,9	18,6	486,14	650,50
LF-070-060	721	596	442	318	197	235	1,22	300	4,7	8,0	325,23	447,33
LF-120-060	1161	596	707	508	315	376	1,22	600	7,7	13,2	368,60	495,28
LF-150-060	1441	596	927	668	416	496	1,21	900	9,9	17,5	446,20	584,28
LF-180-060	1761	596	1133	814	505	603	1,22	900	12,5	21,4	512,40	677,88
LF-180-075	1761	746	1416	1018	631	754	1,22	1200	14,8	26,8	558,05	736,10

Double-layered version, connection on side

LFD-120-050	1161	496	848	604	370	444	1,25	-	10,8	24,0	653,93	779,47
LFD-150-050	1441	496	1092	776	474	569	1,26	-	14,3	30,0	724,68	851,38
LFD-180-050	1761	496	1299	923	563	677	1,26	-	17,9	37,0	785,17	949,52
LFD-120-060	1161	596	1012	721	442	530	1,25	-	12,6	26,0	644,80	771,48
LFD-180-060	1761	596	1535	1091	666	800	1,26	-	20,8	42,0	805,73	971,20

① For special colours in categories 1 and 2, see special solutions and colour chart

② For article numbers for special colours in category 1, see keyword list

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

Chrome-plated version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price Chrome €	Article number Chrome
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
LFC-070-050-05	721	496	254	181	111	133	1,25	300	4,2	7,4	758,98	ZF200150CR00000
LFC-120-050-05	1161	496	402	283	170	205	1,30	300	6,8	12,1	814,90	ZF200250CR00000
LFC-150-050-05	1441	496	512	362	219	264	1,28	300	8,7	15,6	962,14	ZF200350CR00000
LFC-180-050-05	1761	496	636	447	269	325	1,30	600	10,9	19,6	1.148,71	ZF200450CR00000
LFC-120-060-05	1161	596	464	333	207	247	1,22	300	7,7	13,9	859,41	ZF200260CR00000
LFC-180-060-05	1761	596	744	522	312	378	1,31	600	12,4	22,6	1.133,33	ZF200460CR00000

Chrome-plated version, connection on side

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Chrome €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
LFC-070-050	721	496	254	181	110	132	1,26	300	4,2	7,4	699,57
LFC-120-050	1161	496	402	283	170	205	1,30	300	6,8	12,1	755,51
LFC-150-050	1441	496	512	362	219	264	1,28	300	8,7	15,6	902,74
LFC-180-050	1761	496	636	447	269	325	1,30	600	10,9	20,0	1.089,30
LFC-120-060	1161	596	516	371	230	275	1,22	300	7,7	13,9	800,01

Connection to hot water central heating & open heating system or for mixed operation

Stainless steel version - adaptable to open heating systems

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Stainless steel €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
LFI-070-050	721	496	267	190	116	140	1,25	-	4,3	6,3	833,41
LFI-120-050	1161	496	430	305	159	224	1,26	300	6,9	10,5	991,58
LFI-150-050	1441	496	546	386	233	282	1,28	600	8,9	13,5	1.174,08
LFI-180-050	1761	496	683	482	292	352	1,28	600	11,1	16,9	1.399,15
LFI-120-060	1161	596	493	350	213	257	1,26	300	7,9	12,0	1.125,40

Electric-only operation

Painted version

Model	H④	L	Classification Electric heating element Watt	Price RAL 9016	Price① Cat. 1	Article number RAL 9016
	mm	mm		€	€	
LFE-070-050/DD	841	496	300	548,98	665,39	ZF1A0150B100000
LFE-120-050/DD	1281	496	500	649,41	774,96	ZF1A0250B100000
LFE-180-050/DD	1881	496	900	836,59	1.000,94	ZF1A0450B100000
LFE-120-060/DD	1281	596	600	680,23	806,91	ZF1A0260B100000
LFE-180-060/DD	1881	596	900	877,68	1.043,17	ZF1A0460B100000

Chrome-plated version

Model	H④	L	Classification Electric heating element Watt	Price Chrome €	Article number Chrome
	mm	mm			
LFEC-120-050/DD	1281	496	300	1.411,81	ZF1A0250CR00000
LFEC-180-050/DD	1881	496	600	1.816,98	ZF1A0450CR00000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections for flow, return, electric heating element
- ½" directional air vent
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid
- With integrated electric heating element DBM, bottom right, manually selectable operating modes: medium temperature approx. 70 °C, medium temperature approx. 40 °C, frost protection, off; additional programme button for 2-hour timer function, selectable medium temperatures 40/70 °C.
- Mounting accessories in colour of radiator
- Packaging

① For special colours in categories 1 and 2, see special solutions and colour chart

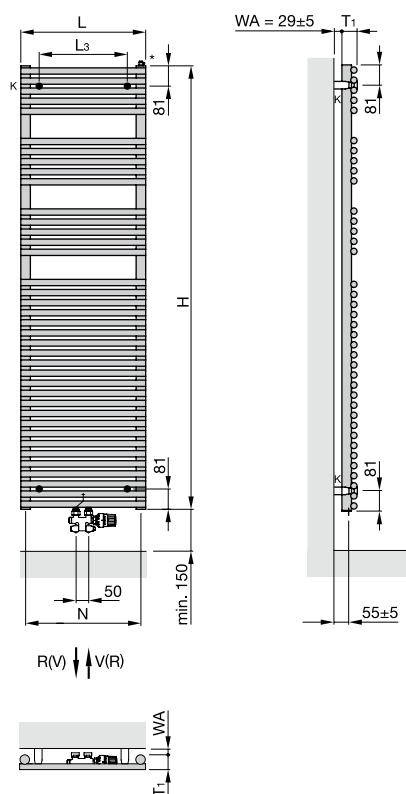
② For article numbers for special colours in category 1, see keyword list

④ Total height incl. electric heating element

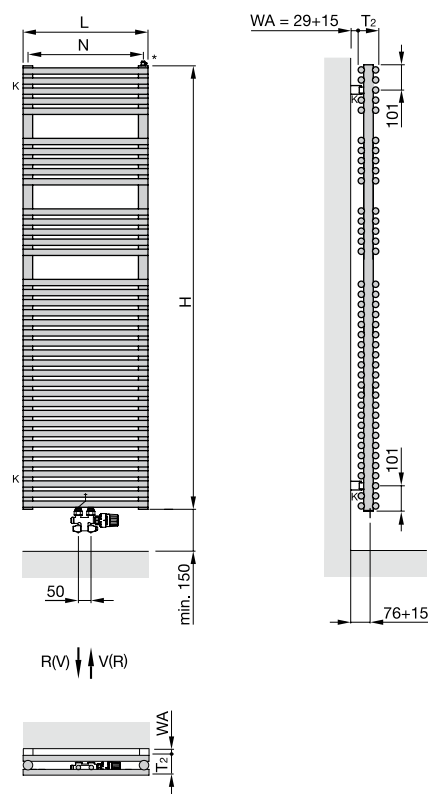
Special solution on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)	7600011640	98,15
■ Surface in metal look: stainless-steel look, surcharge on cat. 1 (reduced output approx. 13%)	7600012332	147,23
■ Electric heating elements for mixed operation	-	See page 116 onwards
■ Zehnder Vario fitting with integrated valve and cover in white	976531	79,73
■ Zehnder Vario fitting with integrated valve and cover in special colour	976539	100,74
■ Zehnder Vario fitting with integrated valve and cover in chrome	976538	100,74
■ Zehnder thermostat LH2, M 30 x 1.5, white	819140	23,42
■ Zehnder thermostat LH2, M 30 x 1.5, chrome	819148	40,35
■ Zehnder comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120

Hot water operation:

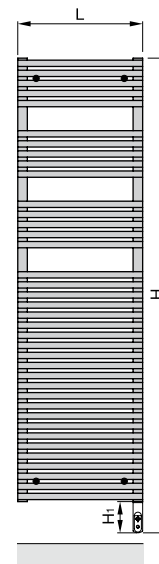
Wall mounting
Single-layer



Wall mounting
Double-layer

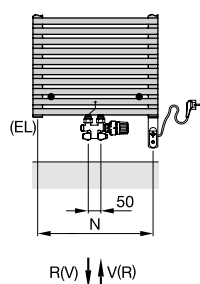


Electric operation:



Mixed operation:

Connection to hot water central heating with
electric heating element (fig. with DBM)



- H = Height
- H₁ = 120 mm
- L = Length
- T₁ = Depth 60 mm
- T₂ = Depth 82 mm
- K = Bracket
- WA = Wall clearance
- V = Flow ½"
- R = Return ½"
- * = Venting ½" + blanking plugs ½"
- EL = Connection for electric heating element
- N = Connection centre, L - 38 mm
- L₃ = Fixing dimension, L - 150 mm

Dimensions in mm



Radiator surface: Chrome



Hot water operation

Zehnder Klaro makes a strong impression through its look and functionality. And the reason is its sophisticated tube design and variable wall clearance. The radiator is ideal for heating towels.

Zehnder Klaro decorative radiator made from horizontally arranged precision steel tubes Ø 23 mm with vertical, fully welded round tubes Ø 38 mm and invisible welds due to laser welding technology. Thermal output tested to EN 422, with CE marking.

Connections at top and bottom of the manifold tubes for flow, return, air vent, blanking plug, 4 x ½" female thread. Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome, with packaging. Delivered ready to install with matching wall brackets.

Electric operation

Zehnder Klaro decorative radiator, electric-only, made from horizontally arranged precision steel tubes Ø 23 mm with vertical, fully welded round tubes Ø 38 mm and invisible welds due to laser welding technology.

Equipped with integrated immersion heater TIMERPROG or DBM with connection cable 1,2 m long without plug, for mains supply of 230 V ± 10%, Appliance class II.

Radiator with powder coating, in colour RAL 9016 as standard, in special colour or chrome, with packaging. Delivered ready to install with matching wall brackets.

Maximum operating pressure	max. 11,5 bar	Output	 Watt
Operating temperature	max. 120 °C	Height	 mm
Height	 mm	Length	 mm
Length	 mm	Model	.....
Model	.....		

Benefits

- Flexible installation through bracket's variable wall clearance
- Mixed operation possible with T-piece
- Top-grade chrome finish

Special benefits for electric operation with TIMERPROG

- Variable temperature adjustment
- Timer function
- Dry running protection

Special benefits of hot water operation

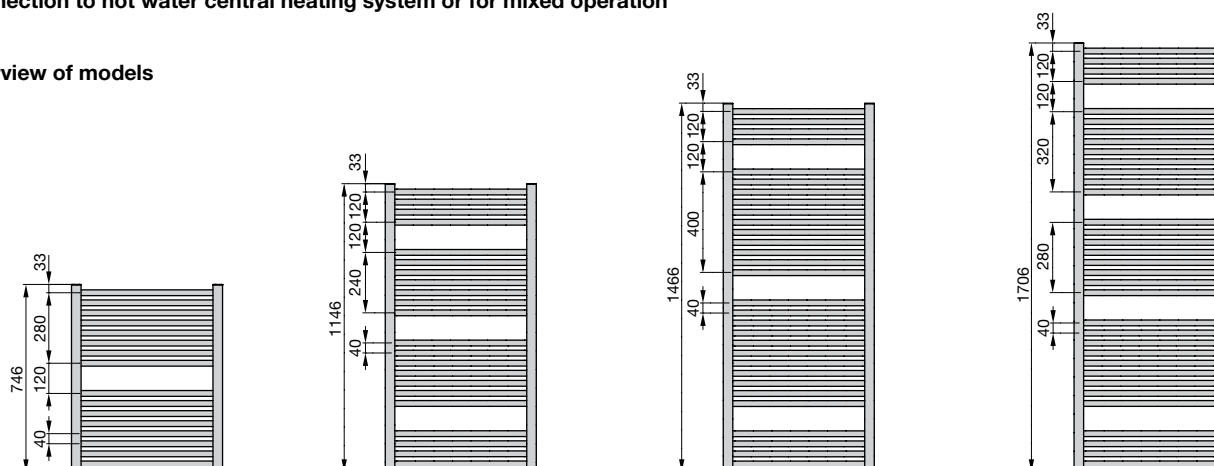
- High output due to internal tube design

Special benefits for electric operation with DBM

- Medium temperature can be set on 3 levels
- Timer function
- Dry running protection

Connection to hot water central heating system or for mixed operation

Overview of models



Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €	Price ^① Cat. 1 €
			EN 442 ^② Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
ZSL-080-045	746	450	354	252	155	186	1,25	300	3,6	5,4	183,20	298,22
ZSL-120-045	1146	450	521	369	224	270	1,27	300	5,4	8,1	212,92	337,13
ZSL-150-045	1466	450	653	462	279	337	1,28	600	6,9	10,2	251,27	379,77
ZSL-170-045	1706	450	751	527	315	382	1,31	600	7,9	11,2	281,00	448,41
ZSL-080-050	746	500	388	277	169	203	1,25	300	3,8	5,8	188,99	306,31
ZSL-120-050	1146	500	571	406	248	298	1,26	300	5,8	8,7	219,80	346,32
ZSL-150-050	1466	500	716	506	306	370	1,28	600	7,4	10,9	259,34	390,20
ZSL-170-050	1706	500	824	579	348	421	1,30	600	8,5	12,2	290,14	459,91
ZSL-080-060	746	600	455	324	199	238	1,25	300	4,3	6,7	197,60	320,68
ZSL-120-060	1146	600	670	476	291	349	1,26	600	6,6	9,8	232,44	360,12
ZSL-150-060	1466	600	839	593	359	433	1,28	600	8,5	12,3	272,51	415,17
ZSL-170-060	1706	600	966	683	413	499	1,28	900	9,6	14,2	307,76	478,71
ZSL-170-075	1706	750	1154	814	491	592	1,29	900	11,1	17,8	323,39	507,31

Chrome-plated version

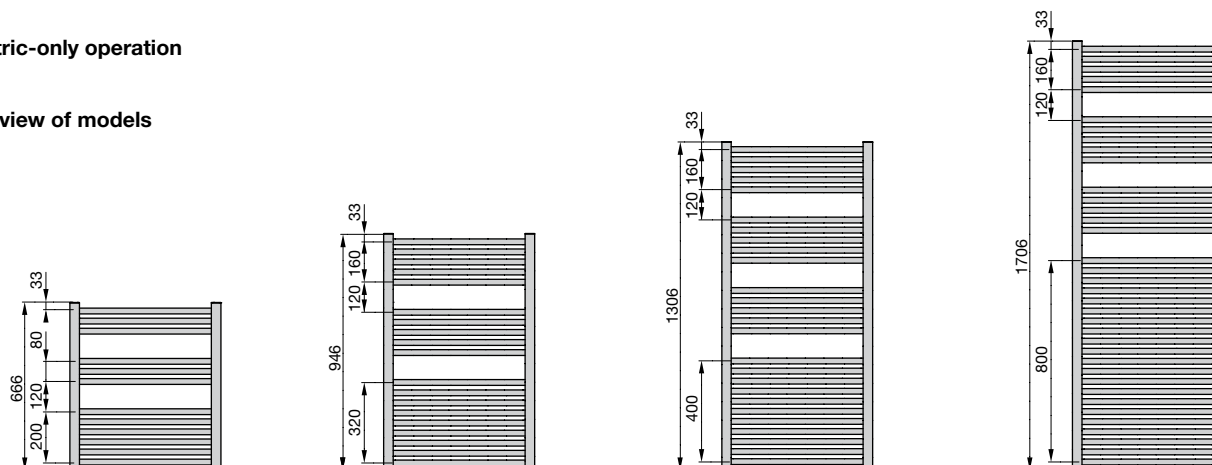
Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Chrome €
			EN 442 ^② Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
ZSLC-080-050	746	500	283	199	120	145	1,30	-	3,8	5,8	653,99
ZSLC-120-050	1146	500	368	258	154	187	1,31	300	5,8	8,7	769,34
ZSLC-150-050	1466	500	475	334	201	239	1,33	300	7,4	10,5	950,08
ZSLC-170-050	1706	500	601	423	254	307	1,30	600	8,5	12,2	1.007,75
ZSLC-080-060	746	600	332	234	141	170	1,29	300	4,3	6,7	691,22
ZSLC-120-060	1146	600	489	343	205	248	1,31	300	6,6	9,8	813,14
ZSLC-150-060	1466	600	560	400	239	285	1,31	300	8,5	12,3	1.029,93
ZSLC-170-060	1706	600	705	494	296	358	1,31	600	9,6	14,2	1.089,61

① For special colours in categories 1 and 2, see "Special versions" and colour chart

② Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Electric-only operation

Overview of models



Electric-only operation (with TIMERPROG)

Painted version

Model	H ^② mm	L mm	Classification of immersion heater Watt	Price RAL 9016 €	Price ^① Cat. 1 €
ZSLE-120-040/TF	993	400	300	353,17	470,48
ZSLE-150-040/TF	1353	400	500	430,93	557,44
ZSLE-080-050/TF	713	500	300	302,41	417,42
ZSLE-120-050/TF	993	500	500	422,01	545,10
ZSLE-150-050/TF	1353	500	750	441,26	568,93
ZSLE-180-050/TF	1753	500	1000	519,34	682,66

Electric-only operation (with DBM)

Painted version

Model	H ^② mm	L mm	Classification of immersion heater Watt	Price RAL 9016 €	Price ^① Cat. 1 €
ZSLE-120-50/DF	1066	500	300	422,01	545,10
ZSLE-150-50/DF	1426	500	500	441,26	568,93
ZSLE-180-50/DF	1826	500	750	519,34	682,66

Chrome-plated version

Model	H ^② mm	L mm	Classification of immersion heater Watt	Price Chrome €
ZSLEC-120-50/DF	1066	500	300	975,13
ZSLEC-150-50/DF	1426	500	500	1.255,00
ZSLEC-180-50/DF	1826	500	750	1.602,62

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 4 x ½" connections for flow, return, air vent and plug
- 1 air vent ½" and 1 blind plug ½"
- Mounting accessories in colour of radiator
- Packaging

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid
- With integrated immersion heater TIMERPROG in white or DBM (radiator RAL 9016: cover in white; radiator all other surfaces: cover in chrome), right-mounted
- Mounting accessories in colour of radiator
- Packaging

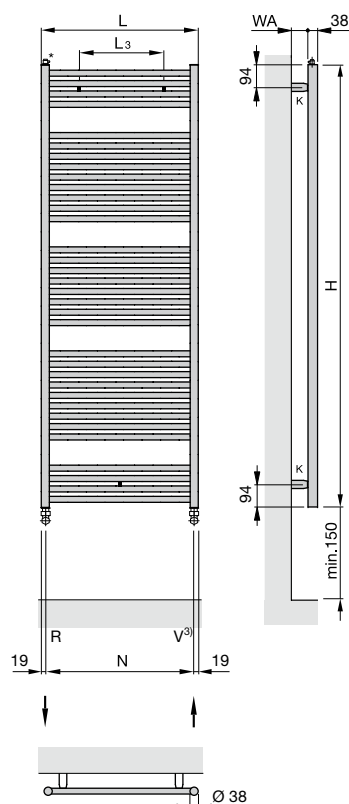
Special version on request (surcharge)	Article number	Price €
■ Special colour to category 2 (surcharge on cat. 1)		98,15
■ Surface in metal look: stainless steel look, surcharge on cat. 1 (reduced output approx. 13%)		147,23
■ Immersion heaters and T-piece for mixed operation	-	See page 116 onwards
■ Accessories	-	See page 110
■ Lambswool cleaning brush	601040	40,40
■ Zehnder Comfort fittings (series XE) in white, chrome and stainless steel	-	See page 120
■ Zehnder thermostat SH, M 30 x 1.5, white	819080	25,46
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	35,76

① For special colours in categories 1 and 2, see "Special versions" and colour chart

② Total height incl. immersion heater

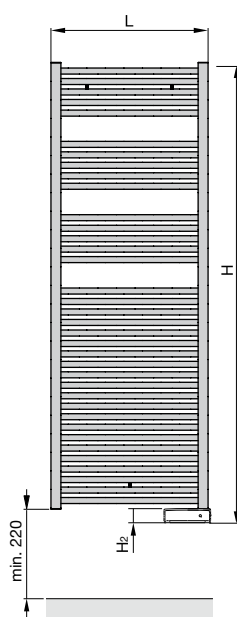
Hot water operation:

Wall mounting
connection on side

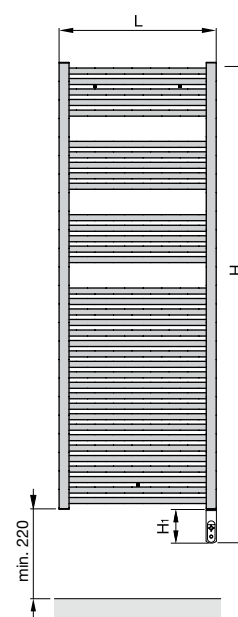


Electric operation:

with immersion heater TIMERPROG

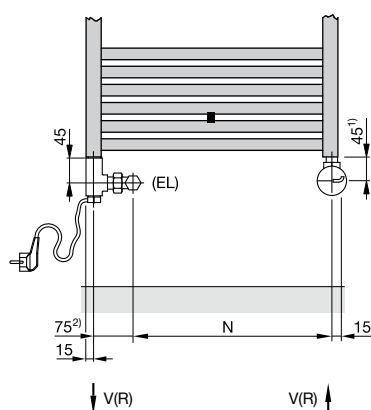


with immersion heater DBM



Mixed operation:

Connection to hot water central heating
with immersion heater (fig. with RICA) and
T-piece in return



Special benefits for electric operation with TIMERPROG

- Variable temperature adjustment
- Timer function
- Dry running protection



H	=	Height
H ₁	=	120 mm
H ₂	=	47 mm
L	=	Length
K	=	Bracket
WA	=	Wall clearance 51 - 61 mm
V	=	Flow ½"
R	=	Return ½"
*	=	Air vent ½"
EL	=	Connection for immersion heater
N	=	Boss spacing = L - 38 mm
L ₃	=	Fixing dimension, L - 200 mm

Dimensions in mm

1) Dimensions only apply to standard valves of the AV series
(comfort fittings = 59 mm)

2) Dimensions apply only to standard return screw
connection combi 3 (comfort fittings = 89 mm)

3) Changing of flow/return by turning radiator on its own axis



Radiator surface: Chrome



Hot water operation & open heating systems

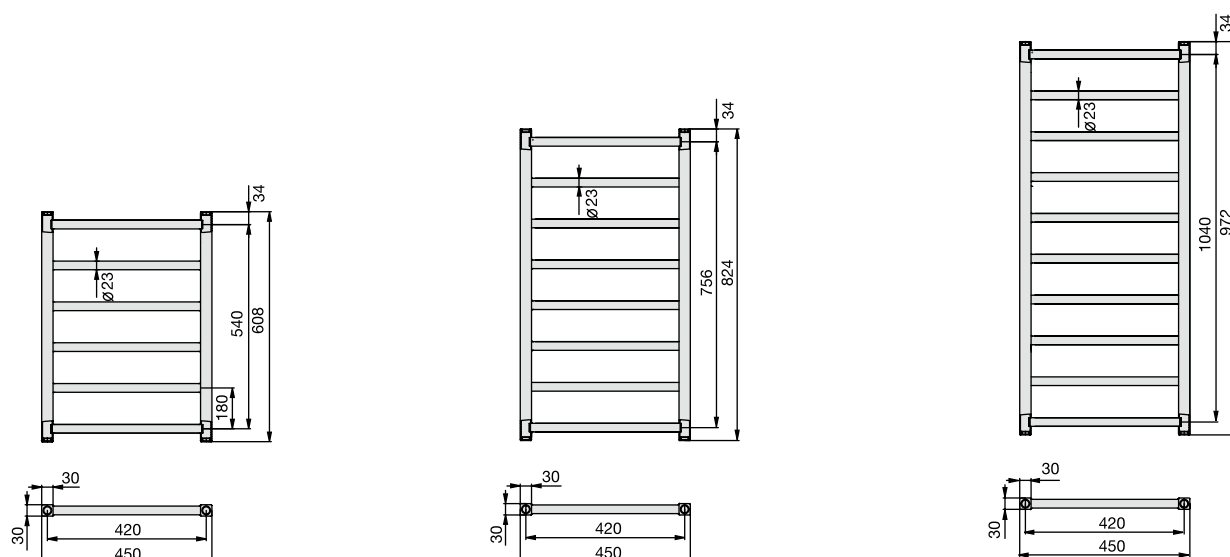
Zehnder Stalox decorative radiator made from V4A polished stainless steel comprising horizontally arranged round tubes welded with vertical, square manifold tubes. Square manifold tubes 30 x 30 mm, horizontal round tubes Ø 23 mm. Thermal output to EN 422, with CE marking. 2x ½" connection at the ends of the manifold tubes for flow, return and air vent. Delivered ready to install with matching wall brackets in stainless steel look and packaging. On request, also available with powder coating in colour RAL 9016.

Benefits

- For open heating system
- Entry-level model suitable for all types of tender businesses
- Small depth
- Flow and return freely selectable
- Classic design with square collectors
- Transparent look

Maximum operating pressure	max. 12 bar
Operating temperature	max. 120 °C
Height	 mm
Length	 mm
Model	.....

Overview of models



Connection to hot water central heating and open heating systems

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
STX-060-045	608	450	190	145	83	102	1,20	-	1,7	3,4	307,29
STX-080-045	824	450	247	189	108	133	1,20	200	2,3	4,5	343,03
STX-100-045	1040	450	310	237	135	166	1,21	300	2,8	5,6	409,50

High gloss stainless steel version

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Stainless steel €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
STXI-060-045	608	450	125	96	55	68	1,17	-	1,6	3,7	437,99
STXI-080-045	824	450	167	128	73	88	1,25	-	2,2	4,9	504,46
STXI-100-045	1040	450	209	160	91	109	1,26	200	2,6	6,3	593,48

Standard scope of delivery for hot water & open heating operation

- High gloss stainless steel or on request powder coating to DN 55900, RAL 9016
- 2 x 1/2" connections at bottom on the manifold tube
- Air vent 1/4"
- Mounting accessories in stainless steel look
- Packaging

Special version on request (surcharge)	Article number	Price €
■ Zehnder Comfort fittings (series XE) in white, chrome	-	See page 120

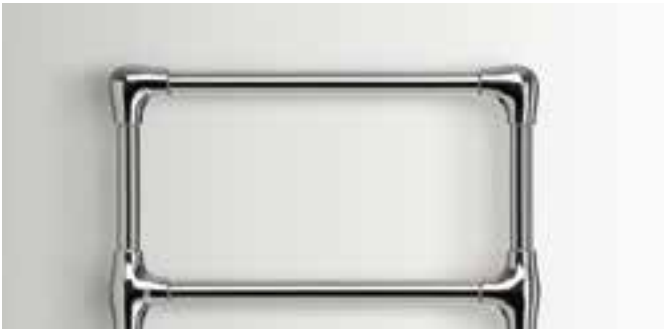
① For special colours in categories 1 and 2, see "Special versions" and colour chart
 ② For article numbers for special colours in category 1, see last page and colour chart
 ③ Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Zehnder Cornwall

Product description



Radiator surface: Chrome



Hot water operation & open heating systems

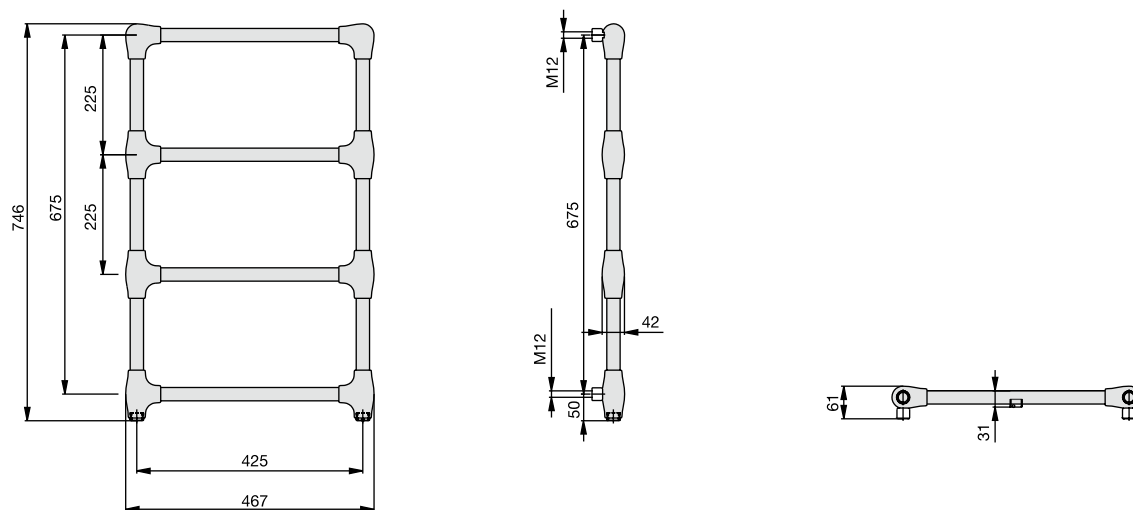
Zehnder Cornwall decorative radiator comprising horizontally arranged round tubes made from brass that are welded onto the vertical manifold tubes through rounded connector pieces. Horizontal manifold tubes Ø 25 mm, vertical manifold tubes Ø 25 mm, connector piece 42 mm. Thermal output to EN 422, with CE marking. 2 x ½" connection at the ends of the manifold tubes for flow and return. Air vent in top, horizontal round tube, ¼", centre. Delivered ready to install with matching wall brackets in chrome and packaging. Standard version in chrome.

Benefits

- For open heating system
- Unique and hand-made
- Streamlined design
- Ultimate chrome quality
- Transparent look
- Ideal for hanging up towels

Maximum operating pressure	max. 10 bar
Operating temperature	max. 120 °C
Height	 mm
Length	 mm
Model	.....

Overview of models



Connection to hot water central heating and open heating systems

Chrome-plated version

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm³	M kg	Price Chrome €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
LVCWC-75-47	746	467	135	103	59	71	1,24	-	1,4	5,6	824,95

Standard scope of delivery for hot water operation

- Chrome-plated surface
- 2 x ½" connections at bottom on the manifold tube
- Air vent ½"
- Mounting accessories in colour of radiator
- Packaging

Special version on request (surcharge)		Article number	Price €
■ Zehnder Comfort fittings, valve unit series XE, angled version ½" chrome		628128	113,75
■ Zehnder Comfort fittings, return connection series XE, angled version ½" chrome		632128	113,75
■ Zehnder thermostat SH, M 30 x 1.5, chrome		819088	35,76
■ Zehnder Comfort Minimalist fittings, chrome ½" x 15 mm		850318	201,59

③ Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)



Radiator colour: Traffic White



Radiator colour: Traffic White

Hot water operation

Zehnder Zeno decorative radiator made from horizontally arranged round tubes and vertical, fully welded header tubes with square profile and invisible welds due to laser welding technology. Round tubes Ø 23 mm, header tubes 30 x 30 mm. Thermal output tested to EN 442, with CE marking. Connections at top and bottom of the header tubes for flow, return, venting, blanking plugs, 4 x ½" female thread or additionally with 50 mm connection 2 x ½" female thread in centre. Flow and return freely selectable on bottom end of the square tubes. Alternatively with 6 x ½" centre connections, spacing 50 mm, flow and return freely selectable. Available as a retrofit model with recessed connections on the header tube on the side (½" for flow/return), optionally on right or left, connection size fits old DIN, cast or panel radiators with a connection centre of 500 or 900 mm. Radiator painted with powder coating in colour RAL 9016 as standard, in chrome on request. Delivered ready to install with matching wall brackets (white) and packaging.

Operating pressure	max. 11,5 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Benefits

- Entry-level model suitable for all types of property
- Classic design with square headers
- Small depth
- Flow and return freely selectable
- Side connections for easy replacement of old DIN standard radiators

Electric operation

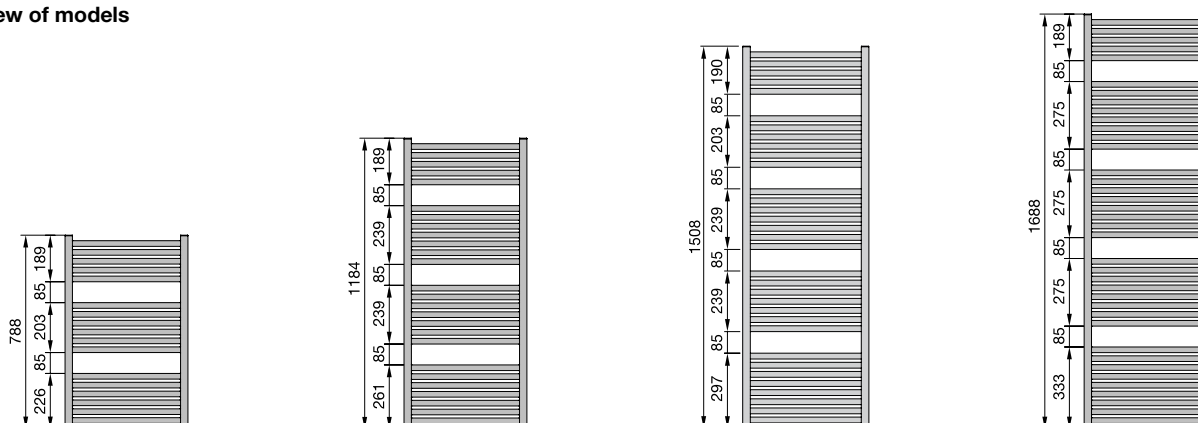
Zehnder Zeno decorative radiator, electric-only, made from horizontally arranged round tubes and vertical, fully welded header tubes with square profile and invisible welds due to laser welding technology. Round tube Ø 23 mm, header tube 30 x 30 mm. With integrated electric heating element DBM. Splash-proof, for supply voltage 230 V ± 10%. With 3-core connection cable, 1.2 m in length, with safety plug. Radiator is filled with heat transfer liquid and painted with powder coating in colour RAL 9016; in chrome on request. Delivered ready to install with matching wall brackets (white) and packaging.

Output	Watt
Height	 mm
Length	 mm
Model	.....

Special benefits for electric operation with DBM

- Medium temperature can be set to 3 levels
- Timer function
- Dry-running protection
- Ready-to-plug
- Without separate control device

Overview of models



Connection to hot water central heating system or for mixed operation

Minimum quantity per order: 5 pcs.

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Article number RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
ZN-080-045	788	450	341	243	149	179	1,25	300	3,5	6,4	180,76	ZZ100145B100000
ZN-120-045	1184	450	509	362	221	265	1,26	300	5,2	9,6	199,81	ZZ100245B100000
ZN-150-045	1508	450	646	458	278	335	1,27	600	6,6	12,3	246,81	ZZ100445B100000
ZN-170-045	1688	450	731	518	315	379	1,27	600	7,5	13,9	259,60	ZZ100345B100000
ZN-080-050	788	500	377	269	165	198	1,25	300	3,8	6,9	184,85	ZZ100150B100000
ZN-120-050	1184	500	562	399	244	293	1,26	300	5,7	10,3	203,87	ZZ100250B100000
ZN-170-050	1688	500	807	574	350	421	1,26	600	8,2	15,0	265,06	ZZ100350B100000
ZN-080-060	788	600	447	318	194	233	1,26	300	4,3	7,9	197,10	ZZ100160B100000
ZN-120-060	1184	600	667	474	289	348	1,26	600	6,6	11,8	214,75	ZZ100260B100000
ZN-150-060	1508	600	846	601	367	441	1,26	600	8,4	14,2	260,66	ZZ100460B100000
ZN-170-060	1688	600	957	680	415	499	1,26	900	9,4	17,2	277,26	ZZ100360B100000
ZN 120-075	1184	750	822	584	356	429	1,26	600	7,9	14,0	221,55	ZZ100275B100000
ZN-170-075	1688	750	1179	840	515	618	1,25	1200	11,4	20,5	296,30	ZZ100375B100000
ZN-170-100	1688	1000	1543	1106	683	817	1,23	1200	14,6	26,0	338,45	ZZ1003A0B100000

Connection to hot water central heating system with 50 mm centre connections

Minimum quantity per order: 5 pcs.

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Article number RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
ZN-080-045-05	788	450	341	243	149	179	1,25	300	3,5	6,4	213,71	ZZ200145B100000
ZN-120-045-05	1184	450	509	362	221	265	1,26	300	5,2	9,6	231,95	ZZ200245B100000
ZN-150-045-05	1508	450	646	458	278	335	1,27	600	6,6	12,3	278,79	ZZ200445B100000
ZN-170-045-05	1688	450	731	518	315	379	1,27	600	7,5	13,9	291,90	ZZ200345B100000
ZN-080-050-05	788	500	377	269	165	198	1,25	300	3,8	6,9	216,95	ZZ200150B100000
ZN-120-050-05	1184	500	562	399	244	293	1,26	300	5,7	10,3	235,85	ZZ200250B100000
ZN-170-050-05	1688	500	807	574	350	421	1,26	600	8,2	15,0	297,11	ZZ200350B100000
ZN-080-060-05	788	600	447	318	194	233	1,26	300	4,3	7,9	229,36	ZZ200160B100000
ZN-120-060-05	1184	600	667	474	289	348	1,26	600	6,6	11,8	247,59	ZZ200260B100000
ZN-150-060-05	1508	600	846	601	367	441	1,26	600	8,4	15,2	292,66	ZZ200460B100000
ZN-170-060-05	1688	600	957	680	415	499	1,26	900	9,4	17,2	310,15	ZZ200360B100000
ZN-120-075-05	1184	750	822	584	356	429	1,26	600	7,9	14,0	254,12	ZZ200275B100000
ZN-170-075-05	1688	750	1179	840	515	618	1,25	1200	11,4	20,5	328,38	ZZ200375B100000
ZN-170-100-05	1688	1000	1543	1106	683	817	1,23	1200	14,6	26,0	371,41	ZZ2003A0B100000

③ Thermal output to EN 442, Δ T 50 K (75/65/20 °C)

For connecting to the hot water central heating system

Painted version – Models for simple radiator replacement

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Article number RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
ZN-120-045-NA50	1184	450	509	362	221	265	1,26	300	5,2	9,6	314,02	ZZ500245B1N5000
ZN-120-045-NA90	1184	450	509	362	221	265	1,26	300	5,2	9,6	314,02	ZZ500245B1N9000
ZN-150-045-NA50	1508	450	646	458	278	335	1,27	600	6,6	11,0	366,62	ZZ500445B1N5000
ZN-150-045-NA90	1508	450	646	458	278	335	1,27	600	6,6	11,0	366,62	ZZ500445B1N9000
ZN-170-045-NA50	1688	450	731	518	315	379	1,27	600	7,5	13,9	380,21	ZZ500345B1N5000
ZN-170-045-NA90	1688	450	731	518	315	379	1,27	600	7,5	13,9	380,21	ZZ500345B1N9000
ZN-120-060-NA50	1184	600	667	474	289	348	1,26	600	6,6	11,8	335,35	ZZ500260B1N5000
ZN-120-060-NA90	1184	600	667	474	289	348	1,26	600	6,6	11,8	335,35	ZZ500260B1N9000
ZN-150-060-NA50	1508	600	846	601	367	441	1,26	600	8,4	14,1	380,48	ZZ500460B1N5000
ZN-150-060-NA90	1508	600	846	601	367	441	1,26	600	8,4	14,1	380,48	ZZ500460B1N9000
ZN-170-060-NA50	1688	600	957	680	415	499	1,26	900	9,4	17,2	397,87	ZZ500360B1N5000
ZN-170-060-NA90	1688	600	957	680	415	499	1,26	900	9,4	17,2	397,87	ZZ500360B1N9000

Electric-only operation

Painted version

Model	H ^④ mm	L mm	Classification Electric heating element Watt	Price RAL 9016 €	Article number RAL 9016
ZNE-080-050/DD	908	500	300	337,90	ZZ1A0150B100000
ZNE-120-050/DD	1304	500	500	375,26	ZZ1A0250B100000
ZNE-170-050/DD	1808	500	600	484,40	ZZ1A0350B100000
ZNE-120-060/DD	1304	600	600	444,37	ZZ1A0260B100000
ZNE-170-060/DD	1808	600	900	497,41	ZZ1A0360B100000
ZNE-170-075/DD	1808	750	1200	544,96	ZZ1A0375B100000

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 2 x ½" connections for flow, return or 4 x ½" connections for flow, return, electric heating element
- Retrofit model: 2 x ½" connections, at side
- ½" directional air vent
- Packaging
- Mounting accessories, white

Standard scope of delivery for electric operation

- Powder coating to DIN 55900, RAL 9016
- Filled with heat transfer liquid, frost-proof to -10 °C
- With integrated electric heating element DBM, mounted on right
- Mounting accessories, white
- Packaging
- Electric heating element cover in white

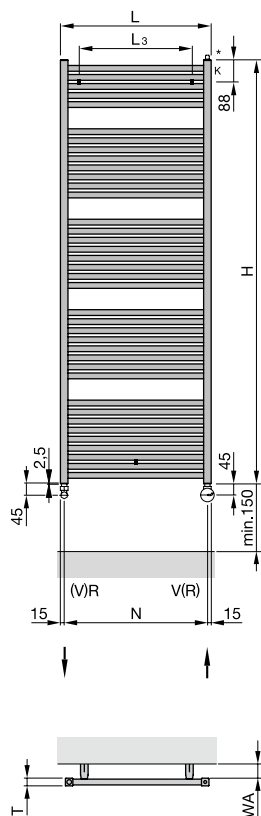
Special solution on request (surcharge)	Article number	Price €
■ Use as room divider with separate mounting accessories	-	See page 110
■ Electric operation for comfort setting Economy RICA	-	On request
■ Electric heating element RICA 300 for mixed operation	893100	139,45
■ Electric heating element RICA 600 for mixed operation	893200	147,35
■ Electric heating element RICA 900 for mixed operation	893300	152,90
■ Electric heating element RICA 1200 for mixed operation	893400	160,85
■ T-piece for mixed operation	-	See page 116
■ Mounting accessories for extended wall clearance up to 130 mm, white	952021	78,50
■ Accessories	-	See page 110
■ Lambswool cleaning brush	601040	40,40

③ Thermal output to EN 442, ΔT 50 K (75/65/20 °C)

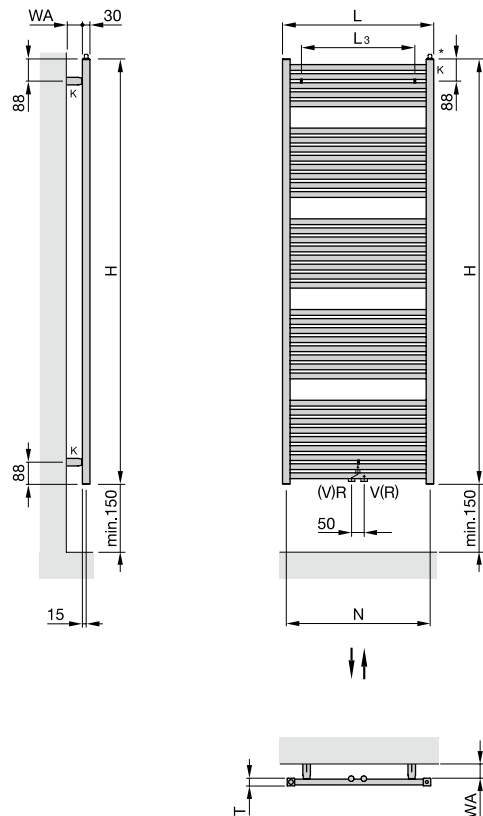
④ Total height incl. electric heating element

Hot water operation:

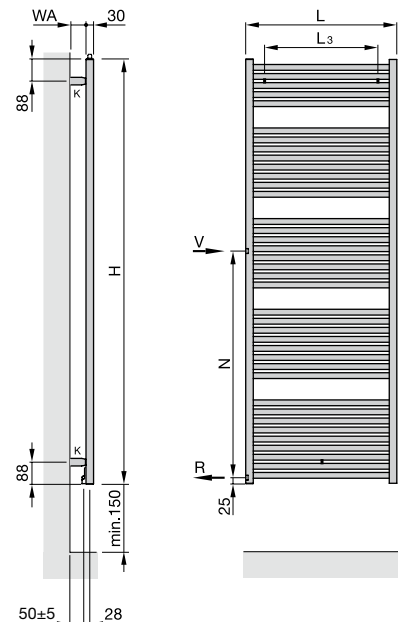
Wall mounting



Wall mounting, centre connections 50 mm



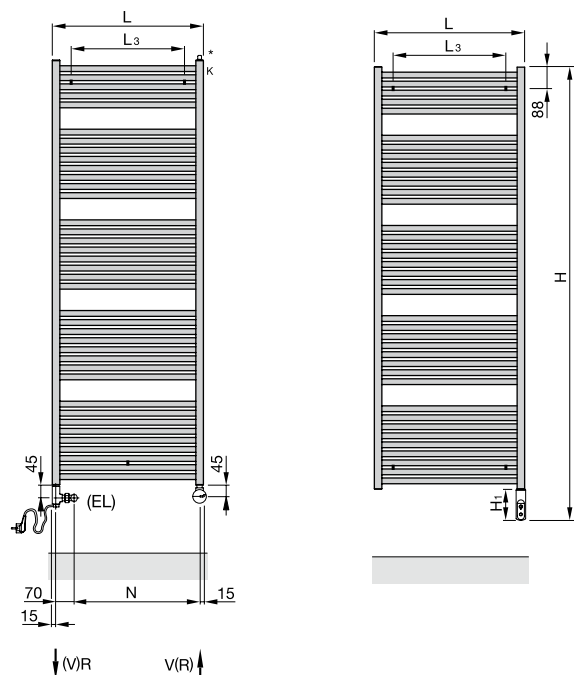
Retrofit model



Mixed operation:

(Fig. with electric heating element RICA)

Electric operation:



- H = Height
- H₁ = 120 mm
- L = Length
- T = Depth
- K = Bracket
- V = Flow ½"
- R = Return ½"
- * = Venting/blanking plugs ½"
- EL = Connection for electric heating element
- N = Connection centre
- WA = Wall clearance 60 ± 5 mm
- L₃ = Fixing dimension, L - 150 mm

Dimensions in mm

Zehnder Zeno Bow

Product description



Radiator colour: Traffic White



Hot water operation

Zehnder Zeno Bow decorative radiator made from horizontally arranged curved tubes made from round tubes and vertical, fully welded header tubes with square profile and invisible welds due to laser welding technology. Round tubes Ø 23 mm, header tubes 30 x 30 mm. Thermal output tested to EN 442, with CE marking. Connections at top and bottom of the header tubes for flow, return, venting, blanking plugs, 4 x 1/2" female thread or additionally with 50 mm connection 2 x 1/2" female thread in centre. Flow and return freely selectable on bottom end of the square tubes. Alternatively with 6 x 1/2" centre connections, spacing 50 mm, flow and return freely selectable. Radiator painted with powder coating in colour RAL 9016. Delivered ready to install with matching wall brackets (white) and packaging.

Operating pressure	max. 11,5 bar
Operating temperature	max. 110 °C
Height	 mm
Length	 mm
Model	.....

Benefits

- Entry-level model suitable for all types of property
- Classic design with square headers
- Attractive curvature
- Flow and return freely selectable
- Convenient for hanging up towels thanks to large wall clearance

Standard scope of delivery for hot water operation

- Powder coating to DIN 55900, RAL 9016
- 2 x 1/2" connections for flow, return or 4 x 1/2" connections for flow, return, electric heating element
- 1/2" directional air vent
- Packaging
- Mounting accessories, white

Connection to hot water central heating system or for mixed operation

Minimum quantity
per order: 10 pcs.

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Article number RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
ZNT-080-050	788	495	377	269	165	198	1,25	300	3,8	6,9	236,49	ZZ300150B100000
ZNT-120-050	1184	495	562	399	244	293	1,26	300	5,7	10,3	260,96	ZZ300250B100000
ZNT-150-050	1508	495	713	507	309	372	1,26	600	7,2	13,2	311,12	ZZ300450B100000
ZNT-170-050	1688	495	807	574	350	421	1,26	600	8,2	15,0	338,45	ZZ300350B100000
ZNT-080-060	788	595	447	318	194	233	1,26	300	4,3	7,9	252,81	ZZ300160B100000
ZNT-120-060	1184	595	667	474	289	348	1,26	600	6,6	11,8	275,94	ZZ300260B100000
ZNT-150-060	1508	595	846	601	367	441	1,26	600	8,4	14,1	332,58	ZZ300460B100000
ZNT-170-060	1688	595	957	680	415	499	1,26	900	9,4	17,2	356,11	ZZ300360B100000
ZNT-120-075	1184	745	822	584	356	429	1,26	600	7,9	14,0	284,07	ZZ300275B100000
ZNT-170-075	1688	745	1179	840	515	618	1,25	1200	11,4	20,5	379,23	ZZ300375B100000

Connection to hot water central heating system with 50 mm centre connections

Minimum quantity
per order: 10 pcs.

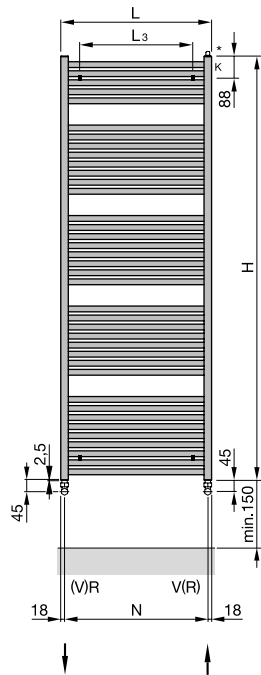
Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification Electric heating element Watt	V dm ³	M kg	Price RAL 9016 €	Article number RAL 9016
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt						
ZNT-080-050-05	788	495	377	269	165	198	1,25	300	3,8	6,9	268,45	ZZ400150B100000
ZNT-120-050-05	1184	495	562	399	244	293	1,26	300	5,7	10,3	293,21	ZZ400250B100000
ZNT-150-050-05	1508	495	713	507	309	372	1,26	600	7,2	13,2	343,12	ZZ400450B100000
ZNT-170-050-05	1688	495	807	574	350	421	1,26	600	8,2	15,0	371,41	ZZ400350B100000
ZNT-080-060-05	788	595	447	318	194	233	1,26	300	4,3	7,9	285,39	ZZ400160B100000
ZNT-120-060-05	1184	595	667	474	289	348	1,26	600	6,6	11,8	308,84	ZZ400260B100000
ZNT-150-060-05	1508	595	846	601	367	441	1,26	600	8,4	14,1	364,59	ZZ400460B100000
ZNT-170-060-05	1688	595	957	680	415	499	1,26	900	9,4	17,2	388,35	ZZ400360B100000
ZNT-120-075-05	1184	745	822	584	356	429	1,26	600	7,9	14,0	316,68	ZZ400275B100000
ZNT-170-075-05	1688	745	1179	840	515	618	1,25	1200	11,4	20,5	411,80	ZZ400375B100000

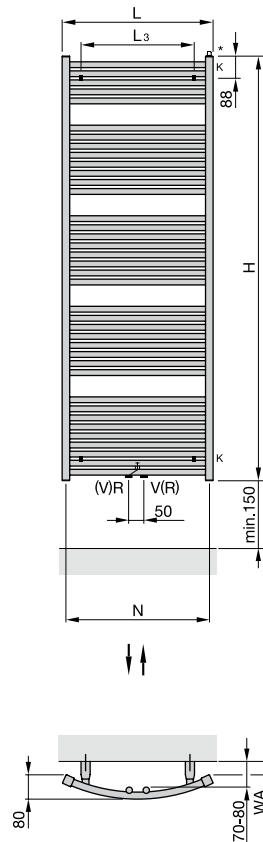
Special solution on request (surcharge)	Article number	Price €
■ Electric heating element RICA 300 for mixed operation	893100	139,44
■ Electric heating element RICA 600 for mixed operation	893200	147,36
■ Electric heating element RICA 900 for mixed operation	893300	152,90
■ Electric heating element RICA 1200 for mixed operation	893400	160,84
■ Other electric heating elements for mixed operation	-	See page 116 onwards
■ T-piece for mixed operation	-	See page 116

③ Thermal output to EN 422, ΔT 50 K (75/65/20 °C)

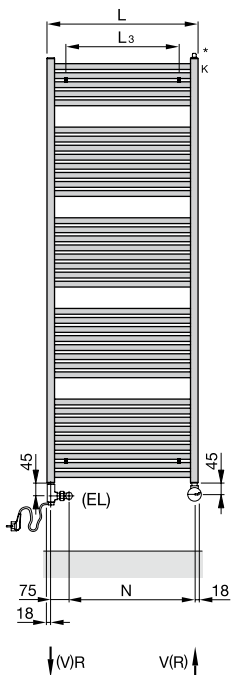
Hot water operation:



Hot water operation: 50 mm centre connections



Mixed operation: (Fig. with electric heating element RICA)

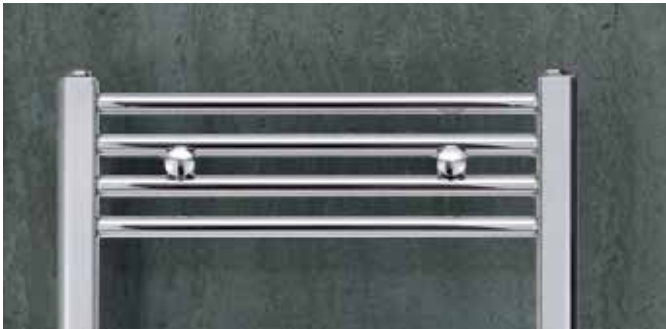


- H = Height
- L = Length
- T = Depth 80 mm
- K = Bracket
- V = Flow 1/2"
- R = Return 1/2"
- * = Venting/blanking plugs 1/2"
- EL = Connection for electric heating element
- N = Connection centre
- WA = Wall clearance 35-45 mm
- L₃ = Fixing dimension, L - 200 mm

Dimensions in mm



Radiator surface: Traffic White



Hot water operation

Zehnder Aura decorative radiator made from horizontally arranged precision steel tubes with vertical D-profile tubes. Round tube Ø 22 mm, D-tube 30 x 40 mm. Thermal output tested to EN 422, with CE marking. 4x ½" for flow/return in the manifold tube with air vent ¼". Alternatively with centre connections ½", distance 50 mm, flow and return freely selectable. Delivered ready to install with matching wall brackets. Radiator with powder coating, in colour RAL 9016 as standard, in chrome on request, with packaging.

Maximum operating pressure	max. 10,0 bar
Operating temperature	max. 90 °C
Height	 mm
Length	 mm
Model	.....

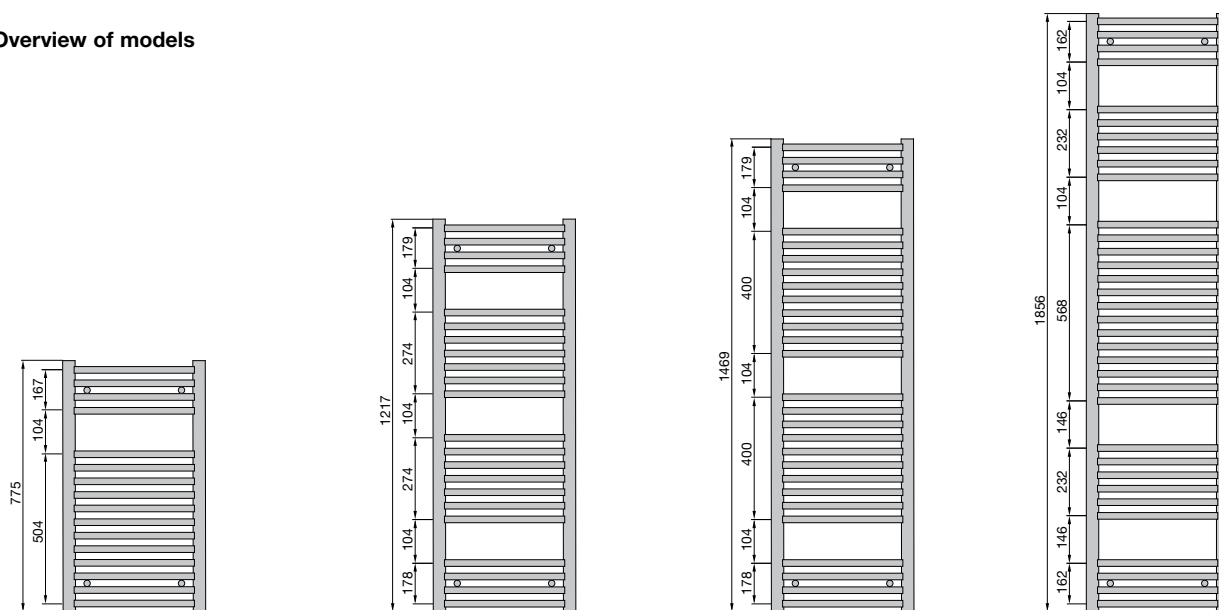
Benefits

- Harmonious design through D-profile of vertical tubes
- Large cut-outs
- Top-grade chrome finish
- Easy to clean
- Entry-level model for all types of tender businesses
- Mixed operation possible with T-piece

Standard scope of delivery

- Powder coating to DIN55900, RAL 9016
- 2 x ½" connections for flow, return or 4 x ½" connections for flow, return, immersion heater
- 1 x blind plug ½" or 3 x blind plug ½" for version with middle connection
- 1 x air vent ½"
- Accessories in colour of radiator
- Packaging

Overview of models



Connection to hot water central heating system or for mixed operation

Minimum quantity per order: 1 pallet per model

Painted version, connection from bottom

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
PBZ-080-045	775	450	327	234	146	176	1,20	300	3,4	5,3	72,61
PBZ-120-045	1217	450	468	335	207	248	1,23	300	4,8	7,7	104,47
PBZ-150-045	1469	450	575	410	253	303	1,24	300	6,0	9,6	115,09
PBZ-180-045	1856	450	719	511	314	379	1,24	600	7,4	12,0	131,70
PBZ-080-050	775	500	358	257	161	193	1,20	300	3,6	5,8	74,74
PBZ-120-050	1217	500	512	365	225	271	1,23	300	5,2	8,3	107,65
PBZ-150-050	1469	500	631	449	276	332	1,24	600	6,5	10,4	118,13
PBZ-180-050	1856	500	788	560	344	415	1,24	600	8,0	12,8	137,01
PBZ-080-060	775	600	418	303	190	226	1,19	300	4,1	6,6	77,93
PBZ-120-060	1217	600	598	424	262	317	1,23	600	5,9	9,6	112,96
PBZ-150-060	1469	600	740	525	324	392	1,23	600	7,4	11,9	124,36
PBZ-180-060	1856	600	925	656	404	487	1,24	900	9,1	14,6	144,38

Painted version, connection central 50 mm

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
PBZ-080-045-05	775	450	327	234	146	176	1,20	300	3,4	5,3	83,82
PBZ-120-045-05	1217	450	468	335	207	248	1,23	300	4,8	7,7	116,63
PBZ-150-045-05	1469	450	575	410	253	303	1,24	300	6,0	9,6	127,57
PBZ-180-045-05	1856	450	719	511	314	379	1,24	600	7,4	12,0	144,68
PBZ-080-050-05	775	500	358	257	161	193	1,20	300	3,6	5,8	86,01
PBZ-120-050-05	1217	500	512	365	225	271	1,23	300	5,2	8,3	119,92
PBZ-150-050-05	1469	500	631	449	276	332	1,24	600	6,5	10,4	130,70
PBZ-180-050-05	1856	500	788	560	344	415	1,24	600	8,0	12,8	150,15
PBZ-080-060-05	775	600	418	303	190	226	1,19	300	4,1	6,6	89,29
PBZ-120-060-05	1217	600	598	424	262	317	1,23	600	5,9	9,6	125,38
PBZ-150-060-05	1469	600	740	525	324	392	1,23	600	7,4	11,9	137,10
PBZ-180-060-05	1856	600	925	656	404	487	1,24	900	9,1	14,6	157,73

③ Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Connection to hot water central heating system or for mixed operation

Minimum quantity per
order: 1 pallet per model

Chrome-plated version, connection from bottom

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Chrome €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
PBCZ-080-045	775	450	206	145	87	105	1,30	-	3,4	5,5	142,62
PBCZ-120-045	1217	450	303	213	128	155	1,30	300	4,8	8,0	194,27
PBCZ-150-045	1469	450	368	259	155	188	1,30	300	6,0	9,8	227,45
PBCZ-180-045	1856	450	468	329	198	239	1,30	300	7,4	12,2	266,51
PBCZ-080-050	775	500	230	161	98	119	1,28	-	3,6	5,9	147,03
PBCZ-120-050	1217	500	330	232	140	169	1,29	300	5,2	8,5	200,28
PBCZ-150-050	1469	500	407	284	171	209	1,29	300	6,5	10,5	234,49
PBCZ-180-050	1856	500	513	360	217	262	1,30	300	8,0	13,0	274,75
PBCZ-080-060	775	600	271	195	119	142	1,25	-	4,1	6,7	151,17
PBCZ-120-060	1217	600	390	273	165	201	1,28	300	5,9	9,6	206,47
PBCZ-150-060	1469	600	481	338	204	248	1,28	300	7,4	11,9	243,63
PBCZ-180-060	1856	600	607	425	257	312	1,29	600	9,1	14,7	290,82

Chrome-plated version, connection central 50 mm

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Chrome €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
PBCZ-080-050-05	775	500	230	161	98	119	1,28	-	3,6	5,9	160,48
PBCZ-120-050-05	1217	500	330	232	140	169	1,29	300	5,2	8,5	215,31
PBCZ-150-050-05	1469	500	407	284	171	209	1,29	300	6,5	10,5	250,55
PBCZ-180-050-05	1856	500	513	360	217	262	1,30	300	8,0	13,0	292,02
PBCZ-080-060-05	775	600	271	195	119	142	1,25	-	4,1	6,7	164,73
PBCZ-120-060-05	1217	600	390	273	165	201	1,28	300	5,9	9,6	221,69
PBCZ-150-060-05	1469	600	481	338	204	248	1,28	300	7,4	11,9	259,97
PBCZ-180-060-05	1856	600	607	425	257	312	1,29	600	9,1	14,7	308,58

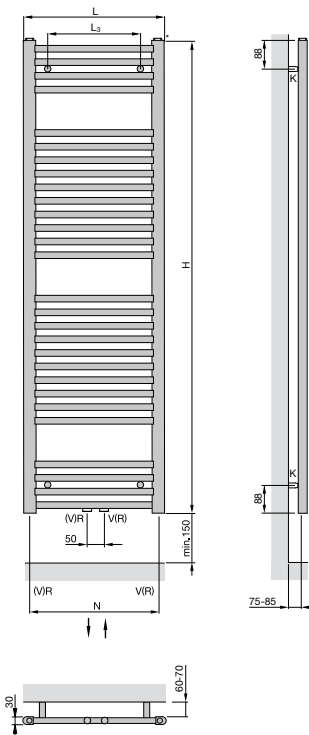
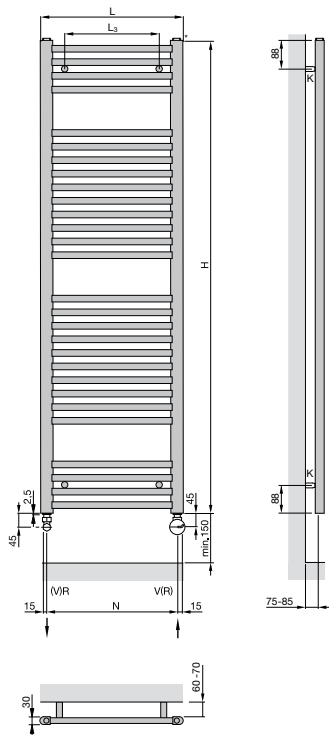
Accessories (surcharge)	Article number	Price €
■ Valve block 50 mm, straight	841168	115,88
■ Valve block 50 mm, angled	841158	115,88
■ Zehnder thermostat LH2, M 30 x 1.5, white	819140	23,42
■ Zehnder thermostat LH2, M 30 x 1.5, chrome	819148	40,35

③ Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Hot water operation:

Wall mounting

Wall mounting
centre connections 50 mm

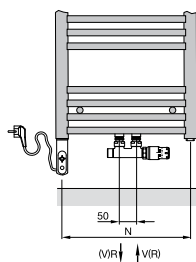


- H = Height
- L = Length
- K = Bracket
- V = Flow 1/2"
- R = Return 1/2"
- N = Boss spacing, L - 44 mm
- L₃ = Length - 150 mm

Dimensions in mm

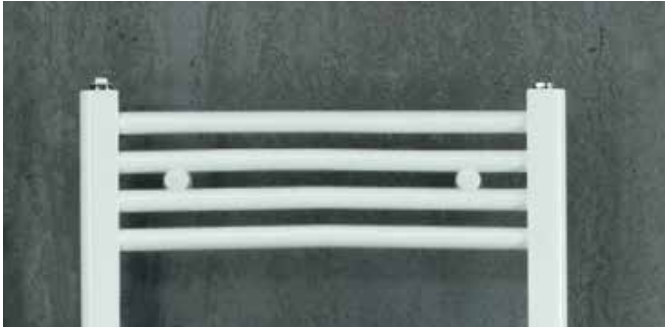
Mixed operation:

with valve block 50 mm angled
and immersion heater DBM





Radiator surface: Chrome



Hot water operation

Zehnder Aura Bow decorative radiator made from horizontally arranged precision steel curved tubes with vertical D-profile tubes. Round tube Ø 22 mm, D-tube 30 x 40 mm. Thermal output tested to EN 422, with CE marking. 4x ½" for flow/return in the manifold tube with air vent ¼". Alternatively with centre connections ½", distance 50 mm, flow and return freely selectable. Delivered ready to install with matching wall brackets. Radiator with powder coating, in colour RAL 9016 as standard, in chrome on request, with packaging.

Maximum operating pressure	max. 10,0 bar
Operating temperature	max. 90 °C
Height	 mm
Length	 mm
Model	.....

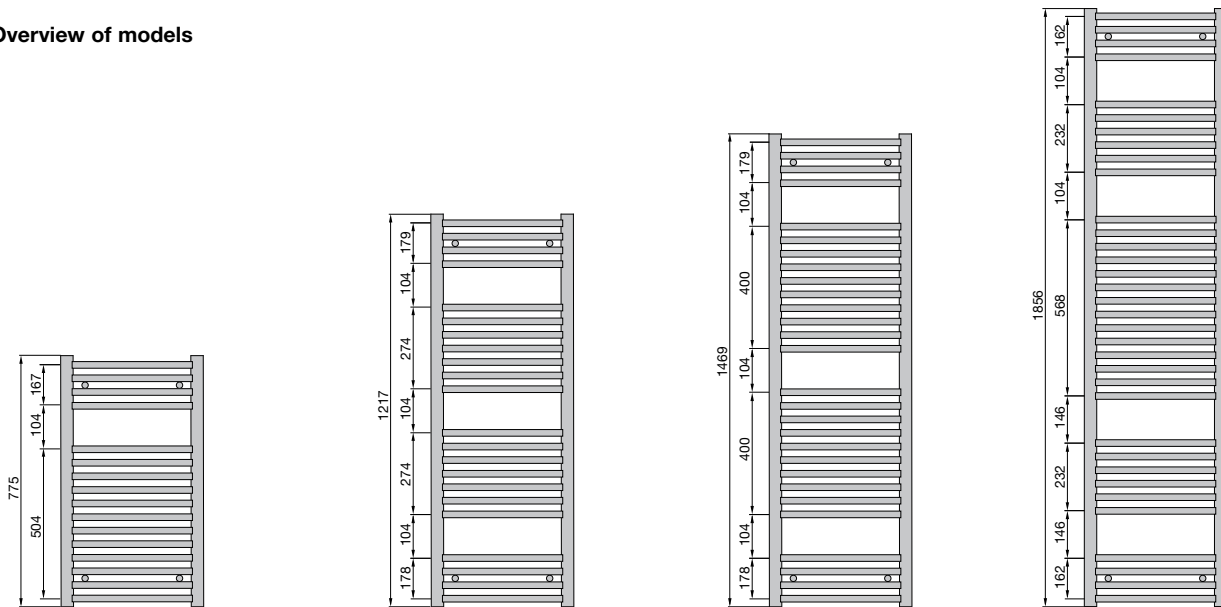
Benefits

- Harmonious design through D-profile of vertical tubes
- Large cut-outs
- Top-grade chrome finish
- Easy to clean
- Entry-level model for all types of tender businesses
- Attractive curvature

Standard scope of delivery

- Powder coating to DIN55900, RAL 9016
- 2 x ½" connections for flow, return or 4 x ½" connections for flow, return, immersion heater
- 1 x blind plug ½" or 3 x blind plug ½" for version with middle connection
- 1 x air vent ½"
- Accessories in colour of radiator
- Packaging

Overview of models



Connection to hot water central heating system or for mixed operation

Minimum quantity per order: 1 pallet per model

Painted version, connection from bottom

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
PBTZ-080-050	775	494	358	257	161	193	1,20	300	3,6	5,8	84,58
PBTZ-120-050	1217	494	512	365	225	271	1,23	300	5,2	8,3	118,48
PBTZ-150-050	1469	494	631	450	276	332	1,24	600	6,5	10,4	129,27
PBTZ-180-050	1856	494	788	560	344	415	1,24	600	8,0	12,8	148,71
PBTZ-080-060	775	595	418	303	190	226	1,19	300	4,1	6,6	87,86
PBTZ-120-060	1217	595	598	424	262	317	1,23	600	5,9	9,6	123,95
PBTZ-150-060	1469	595	740	525	324	392	1,23	600	7,4	11,9	135,68
PBTZ-180-060	1856	595	925	656	404	487	1,24	900	9,1	14,6	156,30

Painted version, connection central 50 mm

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
PBTZ-080-050-05	775	494	358	257	161	193	1,20	300	3,6	5,8	93,61
PBTZ-120-050-05	1217	494	512	365	225	271	1,23	300	5,2	8,3	127,50
PBTZ-150-050-05	1469	494	631	450	276	332	1,24	600	6,5	10,4	138,29
PBTZ-180-050-05	1856	494	788	560	344	415	1,24	600	8,0	12,8	157,73
PBTZ-080-060-05	775	595	418	303	190	226	1,19	300	4,1	6,6	96,88
PBTZ-120-060-05	1217	595	598	424	262	317	1,23	600	5,9	9,6	132,98
PBTZ-150-060-05	1469	595	740	525	324	392	1,23	600	7,4	11,9	144,71
PBTZ-180-060-05	1856	595	925	656	404	487	1,24	900	9,1	14,6	165,33

③ Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Connection to hot water central heating system or for mixed operation

Minimum quantity per order: 1 pallet per model

Chrome-plated version, connection from bottom

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Chrome €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
PBTCZ-080-050	775	494	230	161	98	119	1,28	-	3,6	5,9	163,59
PBTCZ-120-050	1217	494	330	232	140	169	1,29	300	5,2	8,5	212,07
PBTCZ-150-050	1469	494	407	284	171	209	1,29	300	6,5	10,5	246,29
PBTCZ-180-050	1856	494	513	360	217	262	1,30	300	8,0	13,0	286,54
PBTCZ-080-060	775	595	271	195	119	142	1,25	-	4,1	6,7	162,96
PBTCZ-120-060	1217	595	390	273	165	201	1,28	300	5,9	9,6	218,27
PBTCZ-150-060	1469	595	481	338	204	248	1,28	300	7,4	11,9	255,43
PBTCZ-180-060	1856	595	607	425	257	312	1,29	600	9,1	14,7	302,62

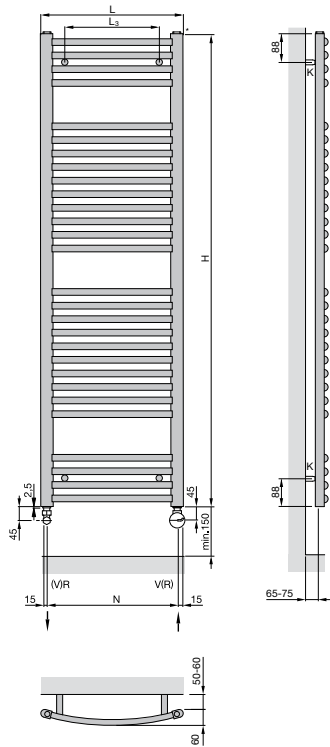
Chrome-plated version, connection central 50 mm

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Chrome €
			EN 442③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
PBTCZ-080-050-05	775	494	230	161	98	119	1,28	-	3,6	5,9	172,62
PBTCZ-120-050-05	1217	494	330	232	140	169	1,29	300	5,2	8,5	221,10
PBTCZ-150-050-05	1469	494	407	284	171	209	1,29	300	6,5	10,5	255,31
PBTCZ-180-050-05	1856	494	513	360	217	262	1,30	300	8,0	13,0	295,57
PBTCZ-080-060-05	775	595	271	195	119	142	1,25	-	4,1	6,7	171,99
PBTCZ-120-060-05	1217	595	390	273	165	201	1,28	300	5,9	9,6	227,30
PBTCZ-150-060-05	1469	595	481	338	204	248	1,28	300	7,4	11,9	264,46
PBTCZ-180-060-05	1856	595	607	425	257	312	1,29	600	9,1	14,7	311,65

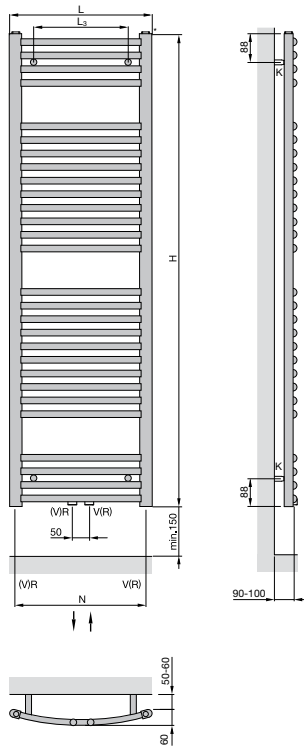
Accessories (surcharge)	Article number	Price €
■ Valve block 50 mm, straight	841168	115,88
■ Valve block 50 mm, angled	841158	115,88
■ Zehnder thermostat LH2, M 30 x 1.5, white	819140	23,42
■ Zehnder thermostat LH2, M 30 x 1.5, chrome	819148	40,35

③ Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Hot water operation:
Wall mounting



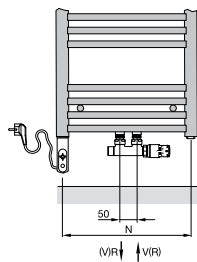
Wall mounting
centre connections 50 mm



- H = Height
L = Length
K = Bracket
V = Flow 1/2"
R = Return 1/2"
N = Boss spacing, L - 44 mm
T = 60 mm
L₃ = Length - 150 mm

Dimensions in mm

Mixed operation:
with valve block 50 mm angled
and immersion heater DBM





Radiator surface: Chrome



Hot water operation

Zehnder Impa stands out because of its subtle elegance and practical functionality. The geometric design with the square tube elements is a perfect fit for any bathroom. The generous clearance between the sets of tubes makes hanging and warming towels easy. The radiator is available in white and with a high-quality chrome finish.

Benefits

- Timeless design with square headers is ideal for classic bathrooms
- Small radiator depth ideal for narrow rooms
- Easy cleaning with the lambswool cleaning brush from Zehnder
- Generous spaces between the tubes convenient for hanging towels

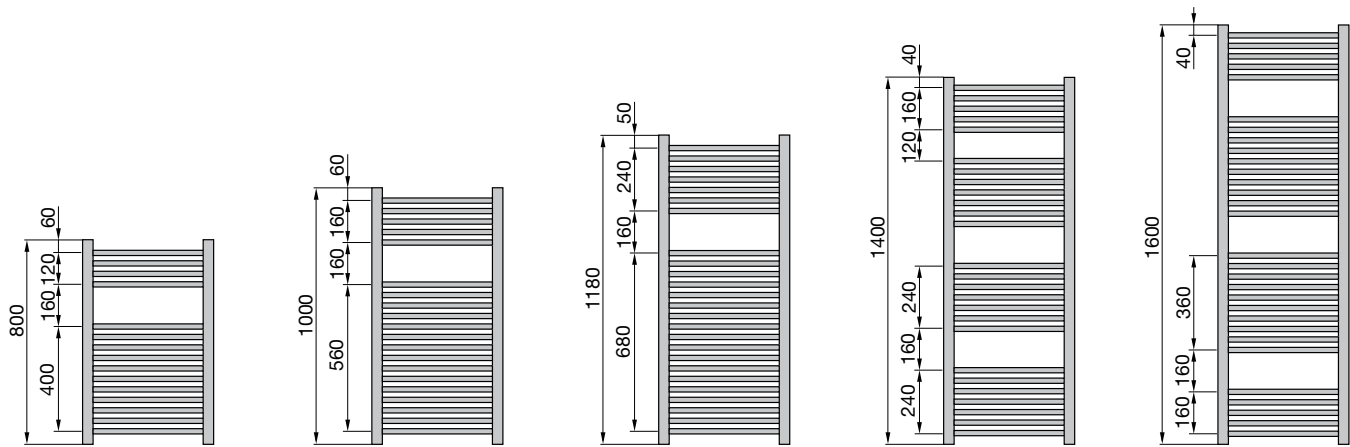
Maximum operating pressure
Operating temperature
Height
Length
Model

max. 13,0 bar
max. 90 °C
..... mm
..... mm
.....

Standard scope of delivery

- Powder coating to DIN55900, RAL 9016
- 4 x ½" connections for flow/ return, air vents
- 1 x blind plug ½"
- 1 x air vent ½"
- Accessories in colour of radiator
- Packaging

Overview of models



Connection to hot water central heating system or for mixed operation

Minimum quantity per order: 10 pcs

Painted version

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
IMP-080-050	800	500	364	262	163	194	1,22	300	4,2	7,3	179,20
IMP-100-050	1000	500	460	330	203	244	1,23	300	5,4	9,5	199,40
IMP-120-050	1180	500	548	392	241	289	1,24	300	6,5	11,5	229,60
IMP-140-050	1400	500	636	453	278	333	1,25	600	7,4	13,0	239,40
IMP-160-050	1600	500	717	510	311	374	1,26	600	8,3	14,5	249,20

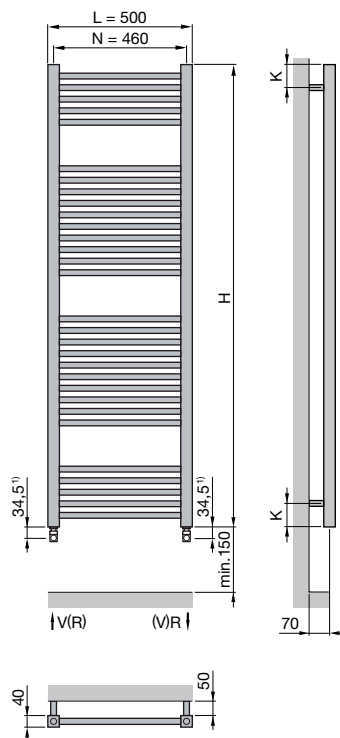
Chrome-plated version

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
IMPC-080-050	800	500	214	152	93	112	1,26	-	4,2	7,2	268,40
IMPC-100-050	1000	500	272	193	117	141	1,27	-	5,4	9,3	313,60
IMPC-120-050	1180	500	323	228	138	167	1,28	300	6,5	11,3	360,80
IMPC-140-050	1400	500	387	273	164	199	1,29	300	7,4	12,8	414,60
IMPC-160-050	1600	500	445	313	188	227	1,30	300	8,3	14,1	459,20

③ Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Hot water operation:

Wall mounting



- H = Height
- L = Length
- K = Bracket (H800/H1000=100;
H1180=90; H1400/H1600=80)
- V = Flow 1/2"
- R = Return 1/2"
- N = Boss spacing

1) Dimensions apply only to Hotcube valve, see accessories.

Dimensions in mm

Accessories (surcharge)

Hotcube set:

- 1 valve (no thermostatic valve) angled, chrome
- 1 lockshield valve, angled, chrome
- 1 pair of compression fittings for copper pipe
ø 12 mm, 14 mm and 15 mm
- 1 pair of compression fittings for multilayer pipe
ø 14 x 2 mm, 16 x 2 mm and 16 x 2,25 mm



Article number

853688

Price €

189,37

Zehnder Zeta

Product description



Radiator surface: Traffic White



Hot water operation

Subtle elegance and clear lines. With the flat design of its horizontal tube elements, Zehnder Zeta combines form and function in the bathroom. The generous clearance between the sets of tubes makes hanging and warming towels easy. The radiator is available in white and with a quality chrome finish.

Maximum operating pressure	max. 4,0 bar
Operating temperature	max. 90 °C
Height	 mm
Length	 mm
Model	.....

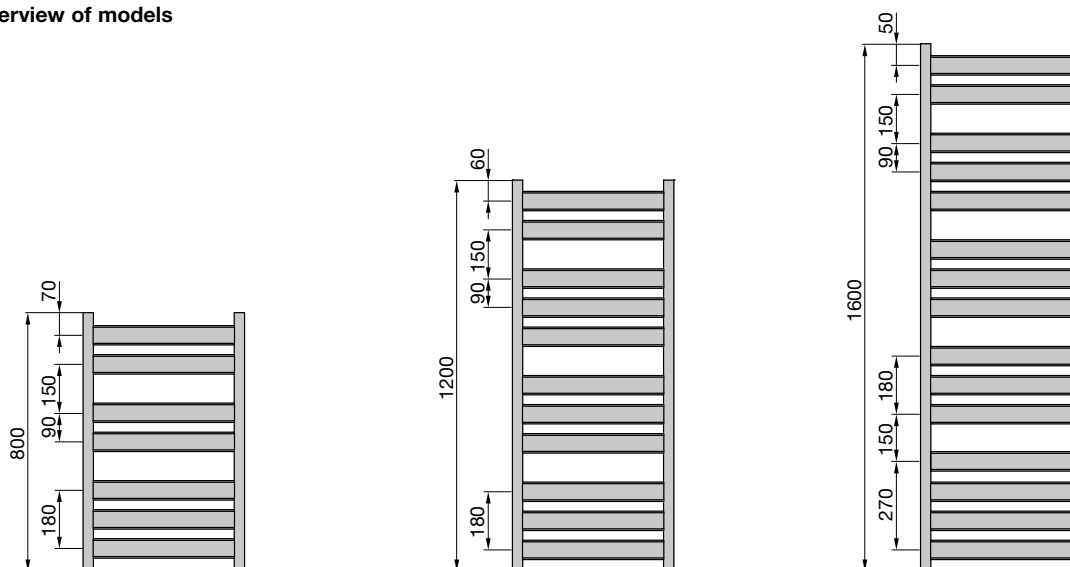
Benefits

- Radiator with flat design
- Flexible installation through right and left connection options

Standard scope of delivery

- Powder coating to DIN55900, RAL 9016
- 4 x ½" connections for flow/ return, air vents
- 1 x blind plug ½"
- 1 x air vent ½"
- Accessories in colour of radiator
- Packaging

Overview of models



Connection to hot water central heating system

Painted version

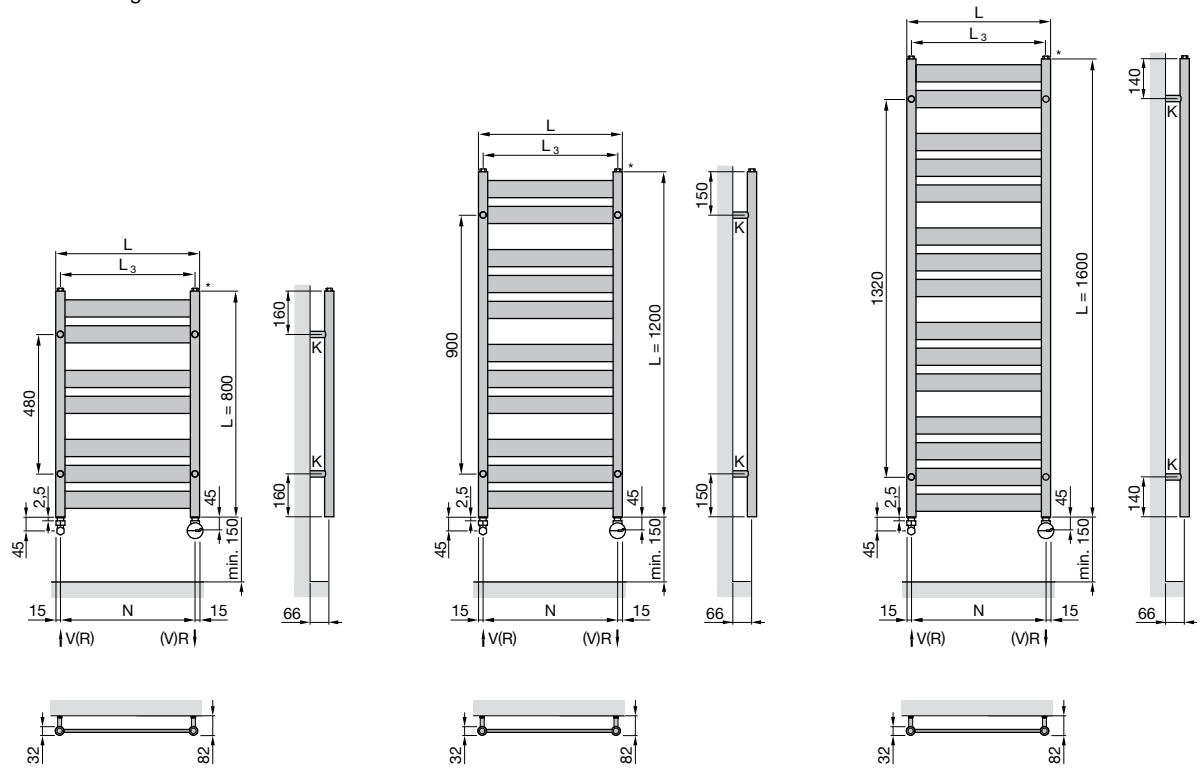
Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price RAL 9016 €
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
ZETA-PQ6-080-050	800	500	322	230	141	170	1,24	300	2,2	6,4	180,40
ZETA-PQ6-120-050	1200	500	476	340	209	253	1,24	300	3,7	10,1	229,60
ZETA-PQ6-160-050	1600	500	647	463	285	340	1,23	600	4,6	13,3	290,08
ZETA-PQ6-080-060	800	600	377	271	168	201	1,22	300	2,6	7,4	191,68
ZETA-PQ6-120-060	1200	600	566	405	249	298	1,22	300	4,4	11,3	247,03
ZETA-PQ6-160-060	1600	600	746	533	328	397	1,23	600	5,5	15,3	317,75

Chrome-plated version

Model	H mm	L mm	Thermal output				Exp. n	Classification of immersion heater Watt	V dm ³	M kg	Price Chrome €
			EN 442 ^③ Watt	70/55/24 Watt	55/45/24 Watt	55/45/20 Watt					
ZETA-PQ6C-080-050	800	500	203	144	88	106	1,26	-	2,2	6,4	293,15
ZETA-PQ6C-120-050	1200	500	303	214	130	156	1,28	300	3,7	10,0	360,80
ZETA-PQ6C-160-050	1600	500	394	279	169	205	1,27	300	4,6	13,2	459,20
ZETA-PQ6C-080-060	800	600	235	168	103	123	1,25	-	2,6	7,4	310,58
ZETA-PQ6C-120-060	1200	600	353	250	151	183	1,27	300	4,4	11,4	391,55
ZETA-PQ6C-160-060	1600	600	457	322	194	237	1,28	300	5,5	15,3	498,15

③ Thermal output measured according to EN 442, ΔT 50 K (75/65/20 °C)

Hot water operation: Wall mounting



- H = Height
- L = Length
- K = Bracket
- V = Flow ½"
- R = Return ½"
- N = Boss spacing, L - 32 mm
- L₃ = Length - 32 mm

Dimensions in mm

Accessories (surcharge)	Article number	Price €
■ Zehnder Comfort fittings, valve unit series XE, angled version ½" chrome	628128	113,75
■ Zehnder Comfort fittings, return connection series XE, angled version ½" chrome	632128	113,75
■ Zehnder thermostat SH, M 30 x 1.5, chrome	819088	35,76

Zehnder room dividers

With additional benefits in terms of interior design

zehnder



Zehnder Yucca Asym

For room divider mounting set, see following pages



Zehnder Universal

For room divider mounting set, see following pages



Zehnder Toga

For room divider mounting set, see following pages



Zehnder Subway

For room divider version, see Zehnder Subway product pages

Room divider mounting sets

Accessories



Description	Responsible for performing task	Article no.	Price €	Application
Room divider mounting set 2 wall brackets with clamp jaws; cover for wall panel incl. screws and anchors; directional air vents (½"); installation instructions; for wall clearance 80 mm	Standard colour Special colour Chrome-plated	936011 936019 936018	148,14 178,80 195,50	Zehnder Yucca Asym
Room divider mounting set without foot support 2 wall brackets comprising wall sleeve (38 mm); sliding part; clamp for square profile; directional air vent (¼"); fixings; installation instructions; for wall clearance 53 mm	Standard colour Special colour Chrome-plated	931101 931109 931108	87,76 106,69 101,99	Zehnder Universal, Zehnder Zeno
Room divider mounting set with foot support 2 wall brackets comprising wall sleeve (38 mm); sliding part; clamp for square profile; directional air vent (¼"); floor sleeve (60 mm); spacer (M 10 x 125); fixings; installation instructions; for wall clearance 53 mm	Standard colour Special colour Chrome-plated	931131 931139 931138	106,69 125,69 120,96	Zehnder Universal, Zehnder Zeno
Room divider mounting set without foot support 2 wall brackets comprising wall sleeve (38 mm); sliding part; clamp for D-profile; directional air vent (¼"); fixings; installation instructions; for wall clearance 53 mm	Standard colour Special colour Chrome-plated	931111 931119 931118	87,76 106,69 101,99	Zehnder Toga
Room divider mounting set with foot support 2 wall brackets comprising wall sleeve (38 mm); sliding part; clamp for D-profile; floor sleeve (60 mm); spacer (M 10 x 125); fixings; installation instructions; for wall clearance 53 mm	Standard colour Special colour Chrome-plated	931141 931149 931148	106,69 125,69 120,96	Zehnder Toga electric operation
Room divider mounting set, long, without foot support 2 wall brackets comprising wall sleeve (88 mm); sliding part; clamp for square profile; directional air vent (¼"); fixings; installation instructions; for wall clearance 103 mm	Standard colour Special colour Chrome-plated	931201 931209 931208	114,08 132,32 126,77	Zehnder Universal
Room divider mounting set, long, without foot support 2 wall brackets comprising wall sleeve (88 mm); sliding part; clamp for D-profile; directional air vent (¼"); fixings; installation instructions; for wall clearance 103 mm	Standard colour Special colour Chrome-plated	931211 931219 931218	114,08 132,32 126,77	Zehnder Toga
Room divider mounting set, long, with foot support 2 wall brackets comprising wall sleeve (88 mm); sliding part; clamp for square profile; directional air vent (¼"); floor sleeve (60 mm); spacer (M 10 x 125); fixings; installation instructions; for wall clearance 103 mm	Standard colour Special colour Chrome-plated	931231 931239 931238	133,06 151,29 145,73	Zehnder Universal
Room divider mounting set, long, with foot support 2 wall brackets comprising wall sleeve (88 mm); sliding part; clamp for D-profile; directional air vent (¼"); floor sleeve (60 mm); spacer (M 10 x 125); fixings; installation instructions; for wall clearance 103 mm	Standard colour Special colour Chrome-plated	931241 931249 931248	133,06 151,29 145,73	Zehnder Toga electric operation
Room divider mounting set with foot support* 2 wall brackets comprising wall sleeve (38 mm) and clamp; 1 floor sleeve (50 mm); 1 spacer (M 10 x 125 mm); 1 decorative directional air vent (½"); 1 blanking plug (½"), chrome-plated, fixings; installation instructions; for wall clearance 53 mm * Only for post-ordering, as contained in scope of delivery when ordering the Zehnder Subway and Zehnder Quaro as a room divider model. Due to welded-on threaded bolts, the standard version of the radiator is not suitable for room divider installation.	Standard colour Special colour Chrome-plated	931151 931159 931158	106,69 125,69 120,96	Zehnder Subway, Zehnder Quaro (each available as a room divider version)
Separate foot support, for room divider installation	Standard colour Special colour Chrome-plated	931301 931309 931308	32,29 48,42 47,57	

Mounting sets for repeat ordering

Accessories



Description	Responsible for performing task	Article no.	Price €	Application
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (54 mm) and clamp; 4 plastic anchors (10 x 70 mm); 4 hexagonal screws with slot (6 x 80 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); 2 directional air vents (½"); installation instructions	Standard colour Special colour Chrome-plated	935011 935019 935018	75,88 123,03 170,20	Zehnder Yucca, Zehnder Yucca Asym, Zehnder Yucca Mirror, Yucca Star
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (54 mm) and clamp; 4 plastic anchors (10 x 70 mm); 4 hexagonal screws with slot (6 x 80 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); installation instructions	Standard colour Special colour Chrome-plated	935021 935029 935028	66,99 114,16 161,30	Zehnder Yucca electric operation
Mounting set 4 wall brackets comprising wall sleeve (40 mm) with threaded pin; 4 combination spacers; 2 wall brackets with clamp; 4 plastic anchors (10 x 70 mm); 4 hexagonal screws with slot (6 x 80 mm), galvanised; 2 hexagonal screws (M 6 x 45), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); 2 directional air vents (½"); installation instructions	Standard colour Special colour Chrome-plated	935031 935039 935038	117,82 132,11 136,88	Zehnder Yucca Cover
Mounting set 4 wall brackets comprising wall sleeve (40 mm) with threaded pin; 4 combination spacers; 2 wall brackets with clamp; 4 plastic anchors (10 x 70 mm); 4 hexagonal screws with slot (6 x 80 mm), galvanised; 2 hexagonal screws (M 6 x 45), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); installation instructions	Standard colour Special colour Chrome-plated	935041 935049 935048	115,45 124,97 129,73	Zehnder Yucca Cover electric operation
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; 4 spacers with thread; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key SW 2,5 mm; 1 decorative directional air vent (½"); installation instructions	Standard colour Special colour	962161 962169	65,29 86,31	Zehnder Vitalo Spa / Bar
Mounting set 1 wall bracket comprising wall sleeve (60 mm) with threaded pin; 1 spacer with thread; 1 chain with 2 chain fasteners; 5 plastic anchors (8 x 40 mm); 5 hexagonal screws with slot (6 x 50 mm), galvanised; 5 washers, galvanised; 1 Allen key SW 2,5 mm; 1 decorative directional air vent (½"); installation instructions	Standard colour Special colour	962171 962179	65,29 86,31	Zehnder Vitalo Spa / Bar with EasyFit connection box
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; 4 spacers with thread; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); installation instructions	Standard colour Special colour	962181 962189	65,29 86,31	Zehnder Vitalo Spa / Bar electric operation
Mounting set 4 wall brackets CVD0; 4 brackets BH; 2 retaining springs; installation instructions	Standard colour Special colour	774401 774409	16,69 43,93	Zehnder Charleston Mirror / Bar
Mounting set 4 wall brackets in chrome comprising wall sleeve (50 mm) with threaded pin; 4 spacers (25 mm) with thread; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws (10 x 45 mm), galvanised; 4 washers, galvanised; decorative directional air vent (½"); 1 Allen key (SW 2,5 mm); installation instructions	Chrome-plated	926428	117,37	Zehnder Nobis

Mounting sets for repeat ordering

Accessories



Description	Responsible for performing task	Article no.	Price €	Application
Mounting set 4 wall sleeves (40 mm) with threaded pin; 4 plastic anchors (10 x 70 mm); 4 hexagonal screws with slot (6 x 80 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 5 mm); 1 vent tool; installation instructions	Standard colour	914641	40,49	Zehnder Fina Bar
Mounting set 4 wall sleeves (40 mm) with threaded pin; 4 plastic anchors (10 x 70 mm); 4 hexagonal screws with slot (6 x 80 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 5 mm); installation instructions	Standard colour	914631	40,49	Zehnder Fina Bar electric operation
Mounting set 4 wall brackets comprising wall sleeve (40 mm) with threaded pin, spacer (32 mm)*; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); 1 decorative directional air vent (½"); 2 blanking plugs (½"), chrome-plated; 1 vent tool; installation instructions	Standard colour Special colour	962071 962079	75,88 123,03	Zehnder Metropolitan Spa / Bar (can also be used for mixed operation)
Mounting set 4 wall brackets comprising wall sleeve (40 mm) with threaded pin, spacer (32 mm)*; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); installation instructions	Standard colour Special colour	962081 962089	66,99 114,16	Zehnder Metropolitan Spa / Bar electric operation
Mounting set 4 wall brackets comprising wall sleeve (50 mm) with threaded pin; spacer with thread (M 12); 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 40 mm), galvanised; 4 washers, galvanised; installation instructions	Standard colour Special colour	962671 962679	68,24 116,30	Zehnder Roda Spa Asym
Mounting set 4 wall sleeves (60 mm); 4 socket screws (4 x 20 mm); 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 80 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 3 mm); 1 decorative directional air vent (½"); 2 blanking plugs (½"), chrome-plated; 1 vent tool; installation instructions	Standard colour Special colour Chrome-plated Stainless steel	952201 952209 952208 952200	79,24 128,46 177,72 177,72	Zehnder Quaro
Mounting set 4 wall sleeves (60 mm); 4 socket screws (4 x 20 mm); 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 80 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 3 mm); installation instructions	Standard colour Special colour Chrome-plated Stainless steel	952211 952219 952218 952210	69,95 119,21 168,43 168,43	Zehnder Quaro electric operation
Mounting set 4 wall brackets comprising wall sleeve (40 mm) with threaded pin, spacer (32 mm); 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); 1 decorative directional air vent (½"); 2 blanking plugs (½"), chrome-plated; 1 vent tool; installation instructions	Standard colour Special colour Chrome-plated	952101 952109 952108	75,88 123,03 170,20	Zehnder Subway
Mounting set 4 wall brackets comprising wall sleeve (40 mm) with threaded pin, spacer (32 mm); 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); installation instructions	Standard colour Special colour Chrome-plated	954101 954109 954108	66,99 114,16 161,30	Zehnder Subway electric operation
Mounting set 3 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and clamp; 3 plastic anchors (8 x 40 mm); 3 hexagonal screws with slot (6 x 50 mm), galvanised; 3 washers, galvanised; 1 Allen key (SW 2,5 mm); 1 directional air vent (¼"); installation instructions	Standard colour Special colour Chrome-plated	952001 952009 952008	47,37 83,14 88,09	Zehnder Universal

Mounting sets for repeat ordering

Accessories



Description	Responsible for performing task	Article no.	Price €	Application
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and clamp; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); 1 directional air vent (¼"); installation instructions	Standard colour Special colour	952091 952099	64,32 137,60	Zehnder Universal double-layer
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and clamp; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); installation instructions	Standard colour Special colour Chrome-plated	954001 954009 954008	64,32 137,60 145,78	Zehnder Universal electric operation
Mounting set 3 wall brackets for mounting with extended wall clearance, can be shortened on site; 3 hexagonal screws with slot (6 x 50 mm), galvanised; 1 directional air vent (¼"); installation instructions	Standard colour	952021	78,50	Zehnder Universal (retrofit), Zehnder Toga (retrofit)
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and bevelled clamp; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); 1 directional air vent (¼"); installation instructions	Standard colour Special colour Chrome-plated	926131 926139 926138	52,28 78,40 96,10	Zehnder Janda Bow hot water/ electric operation
Mounting set 3 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and clamp; 3 plastic anchors (8 x 40 mm); 3 hexagonal screws with slot (6 x 50 mm), galvanised; 3 washers, galvanised; 1 Allen key (SW 2,5 mm); 1 directional air vent (¼"); installation instructions	Standard colour Special colour Chrome-plated	926021 926029 926028	47,37 83,14 88,09	Zehnder Toga
Mounting set 3 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and clamp; 3 plastic anchors (8 x 40 mm); 3 hexagonal screws with slot (6 x 50 mm), galvanised; 3 washers, galvanised; 1 Allen key (SW 2,5 mm); installation instructions	Standard colour Special colour Chrome-plated	925021 925029 925028	47,37 83,14 88,09	Zehnder Toga electric operation
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and clamp; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); 1 directional air vent (½"); installation instructions	Standard colour Special colour	923131 923139	65,53 140,18	Zehnder Forma Asym
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and clamp; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); installation instructions	Standard colour Special colour	923141 923149	65,53 140,18	Zehnder Forma Asym electric operation
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and clamp; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 4 washers, galvanised; 1 Allen key (SW 2,5 mm); 1 directional air vent (½"); installation instructions	Standard colour Special colour Chrome-plated Stainless steel	923021 923029 923028 923060	64,32 137,60 145,78 145,78	Zehnder Forma Spa
Mounting set 4 wall brackets comprising wall sleeve (50 mm) with threaded pin; 4 spacers (25 mm) with thread; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws (10 x 45 mm), galvanised; 4 washers, galvanised; directional air vent (½"); blanking plug (½"); installation instructions	Standard colour Special colour	923041 923049	39,53 79,06	Zehnder Forma Spa double-layer

Mounting sets for repeat ordering

Accessories



Description	Responsible for performing task	Article no.	Price €	Application
Mounting set 4 wall brackets comprising wall sleeve (60 mm) with threaded pin; combination spacer (40 mm) and clamp; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws with slot (6 x 50 mm), galvanised; 3 washers, galvanised; 1 Allen key (SW 2,5 mm); blanking plug (½")	Standard colour Special colour Chrome-plated	923031 923039 923038	64,32 137,60 145,78	Zehnder Forma Spa electric operation
Mounting set 3 wall brackets comprising wall sleeve (60 mm) with threaded pin; 3 spacers with thread; 3 plastic anchors (8 x 40 mm); 3 hexagonal screws (5,5 x 50 mm), galvanised; 3 washers, galvanised; 1 Allen key (SW 2,5 mm); 1 air vent 1/2"; 1 blanking plug 1/2"; installation instructions	Standard colour Special colour Chrome-plated	926271 926279 926278	90,20 116,20 136,20	Zehnder Klaro
Mounting set 3 wall brackets comprising wall sleeve (60 mm) with threaded pin; 3 spacers with thread; 3 plastic anchors (8 x 40 mm); 3 hexagonal screws (5,5 x 50 mm), galvanised; 3 washers, galvanised; 1 Allen key (SW 2,5 mm); installation instructions	Standard colour Special colour Chrome-plated	926291 926299 926298	88,30 110,30 132,00	Zehnder Klaro electric
Mounting set 4 wall brackets comprising wall sleeve (40 mm) with threaded pin, distance piece (32 mm); 4 plastic anchors 8 x 40 mm; 4 hexagonal screws with slot 6 x 50 mm, galvanised; 4 washers, galvanised; 1 Allen key SW 2,5 mm; 1 air vent ½"; 1 blanking plug ½", chrome-plated; 1 venting key	Standard colour Chrome-plated	928051 928052	74,03 166,05	Zehnder Stalox
Mounting set 4 wall brackets in chrome comprising wall sleeve with threaded pin; 4 spacers with thread; 4 plastic anchors (8 x 40 mm); 4 hexagonal screws (5,5 x 50 mm), galvanised; 4 washers, galvanised; decorative directional air vent (½"); 1 vent tool; installation instructions	Chrome-plated	926438	117,37	Zehnder Cornwall
Mounting set 3 wall brackets incl. screws and anchors; 1 directional air vent (½"), 1 blanking plug (½"); installation instructions	Standard colour	926251	47,23	Zehnder Zeno
Mounting set 4 wall brackets incl. screws and anchors; installation instructions	Standard colour	926321	64,32	Zehnder Zeno electric operation
Mounting set 4 wall brackets incl. screws and anchors; 1 directional air vent (½"), 1 blanking plug (½"); installation instructions	Standard colour	926161	52,28	Zehnder Zeno Bow
Mounting set 4 wall brackets comprising wall sleeve with fixing screws and cover; 4 distance pieces; 4 plastic anchors; 4 screws 5,5 x 50 mm, 4 washers, 1 air vent 1/2", 1 blanking plug 1/2"	White (straight version) White (curved version) Chrome (straight version) Chrome (curved version)	926511 926521 926518 926528	29,76 38,10 45,02 55,93	Zehnder Aura
Mounting set 4 wall brackets with threaded pin; 4 plastic anchors; 4 screws 5,5 x 50 mm, 4 washers; 1 air vent 1/2", 1 blanking plug 1/2"; 1 Allen key 2,5 mm	White Chrome-plated	926731 926738	42,00 48,00	Zehnder Impa
Mounting set 4 wall brackets with threaded pin; 4 plastic anchors; 4 screws 5,5 x 50 mm, 4 washers; 1 air vent 1/2", 1 blanking plug 1/2"; 1 Allen key 2,5 mm	White Chrome-plated	926681 926688	29,76 45,02	Zehnder Zeta

Description		Length in mm ¹⁾	Article no.	Price €	Application
Towel rail High-quality towel rail in brass, chrome-plated, with 2-point attachment for symmetric installation; max. load 10 kg		364 (324) 472 (432) 616 (576)	461038 462038 463038	101,63 110,10 118,56	Universal, Toga, Zeno
		449 (396) 548 (495)	462138 463138	110,10 118,56	Kleo Bar
Towel hook High quality double hook in brass, chrome-plated in combination with satinated glass, with 1-point attachment, max. load 10 kg		102 102 102	470018 470188 470038	63,51 63,51 63,51	Yucca ²⁾ Charleston Mirror / Bar Universal, Toga, Janda Bow, Zeno, Zeno Bow
Paper roll holder High-quality design in brass, chrome-plated in combination with satinated glass, with 1-point attachment; asymmetric max. load 5 kg		210 210	475018 475038	69,72 69,72	Yucca ²⁾ Universal, Toga, Janda Bow, Zeno, Zeno Bow
Towel rail High-quality towel rail in brass, chrome-plated, with concealed attachment for asymmetric (max. 395 mm) or symmetric installation; max. load 5 kg (asym.) or 10 kg (sym.)		295 [400] 395 [500] 495 [600] 795 [900]	468038 468048 468058 468078	104,36 104,36 104,36 124,49	Metropolitan Spa / Bar
Towel hook Set of 2 high-quality towel hooks in steel, chrome-plated, with soft insert for simple attachment; max. load 5 kg			480438	38,15	Metropolitan Spa / Bar
Towel rail High-quality design in steel, chrome-plated, with concealed attachment at 2 points behind the radiator; max. load 10 kg		522 [500] 622 [600] 722 [700]	468158 468168 468178	118,68 118,68 118,68	Fina Bar
Towel rail High-quality design in brass, chrome-plated, with 2-point magnetic holder; max. load 10 kg		399 (297) 432 (330) 531 (429)	471108 471118 471128	179,91 187,63 206,39	Nova Mirror, Roda Twist Spa Air, Metropolitan Spa / Bar
Towel hook High-quality double hook in brass, chrome-plated, with 1-point magnetic holder; max. load 5 kg		100	470328	90,50	Nova Mirror, Roda Twist Spa Air, Metropolitan Spa / Bar
Towel rail Version with brass rail and plastic holders, chrome-plated, with 2-point attachment for symmetric installation; max. load 5 kg		357 (297) 390 (330) 489 (429)	472008 472018 472028	45,03 48,71 52,38	Universal, Toga
Towel hook Version in plastic, chrome-plated, with 1-point attachment; max. load 5 kg		60	470308	17,18	Yucca ²⁾ , Universal, Toga, Janda Bow, Zeno, Zeno Bow
Lambswool cleaning brush 3-finger brush with real lambswool trimming for optimum cleaning of the tubes, and all points that are hard to access			601040 601020	40,40 35,98	Yucca ²⁾ , Universal, Toga, Janda Bow, Zeno, Zeno Bow Charleston Mirror / Bar

¹⁾ Overall length of the holder at the outermost points; figure in round brackets for fixing dimension for 2-point attachment; figure in square brackets for related radiator length.

²⁾ Yucca, Yucca Asym, Yucca Cover, Yucca Mirror.

Electric heating elements for mixed operation

Accessories

zehnder

Electric heating element IRVAR 1¹⁾

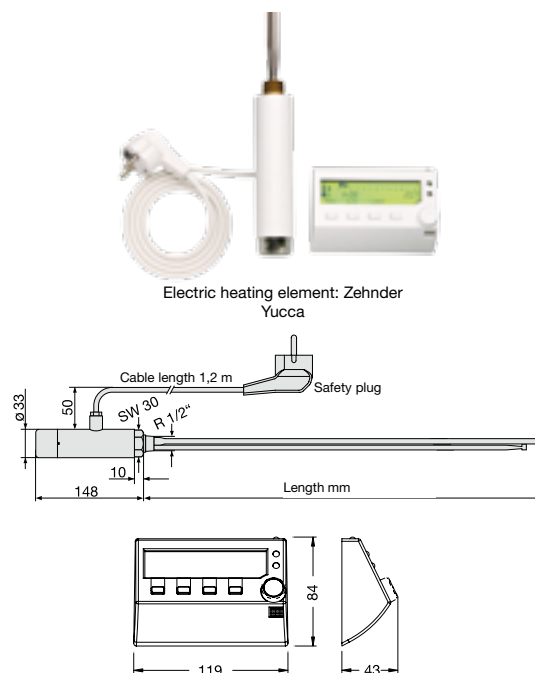
Standard version

With stainless steel housing, VDE tested, IP 65 (splash-proof), output 300/600/900/1200 W, for supply voltage 230 V ± 10 %. With patented dry-running protection against operation without sufficient filling quantity. With conical ½" screw-in thread and 3-core connection cable, 1,2 m in length with safety plug. With infrared control device (housing in plastic, white) integrated timeswitch for daily and weekly programme, for manual switching on/off, temperature range can be set from 35 to 70 °C or room temperature control.

Model	Nominal output Watt	Length max. mm	Article no.	Price €
IRVAR 300	300	370	890100	418,31
IRVAR 600	600	670	880100	438,91
IRVAR 900	900	960	882100	461,88
IRVAR 1200	1200	1250	888100	485,66

Suitable for decorative radiators: Yucca, Yucca Asym, Yucca Mirror (for allocation of output to the radiator models, see product pages)

Estimated to be available until the middle of 2016



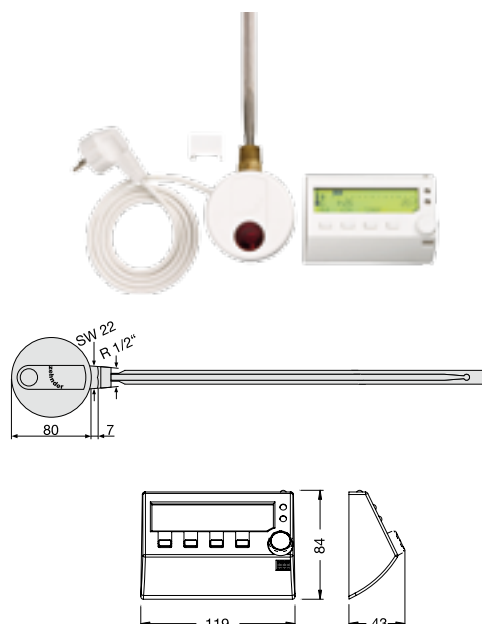
Electric heating element IRVAR 1¹⁾

With brass housing Ø 80 mm and plastic cover, VDE tested, IP 65 (splash-proof), output 300/600/900/1200 W, for supply voltage 230 V ± 10 %. With patented dry-running protection against operation without sufficient filling quantity. With conical ½" screw-in thread and 3-core connection cable, 1,2 m in length with safety plug, white. With infrared control device (housing in plastic, white), integrated timeswitch for daily and weekly programme, for manual switching on/off, temperature range can be set from 35 to 70 °C or room temperature control.

Model	Nominal output Watt	Length max. mm	Article no.	Price €
IRVAR 301 white	300	370	870100	418,31
IRVAR 301 chrome	300	370	870108	483,28
IRVAR 601 white	600	670	871100	438,91
IRVAR 601 chrome	600	670	871108	504,66
IRVAR 901 white	900	960	872100	461,88
IRVAR 901 chrome	900	960	872108	526,06
IRVAR 1201 white	1200	1250	873100	485,66
IRVAR 1201 chrome	1200	1250	873108	549,83

Suitable for decorative radiators: Universal, Toga, Forma Spa, Janda Bow (for allocation of output to the radiator models, see product pages)

Estimated to be available until the middle of 2016



T-piece

For mixed operation of hot water central heating system with electric heating element. Installation of the T-piece in the return for vertical installation of the electric heating elements IRVAR, NOVAR, DBM²⁾ or RICA and connection of the return via an angled return screw connection.

Model	Article no.	Price €
T-piece white (IRVAR, NOVAR, RICA)	853011	18,18
T-piece chrome (IRVAR, NOVAR, RICA)	853018	18,96
T-piece white (DBM)	853111	18,18
T-piece chrome (DBM)	853118	18,96



¹⁾ Can be used in hot water heating systems with max. operating temperature of 85 °C

²⁾ T-piece for DBM incl. O-ring and collar

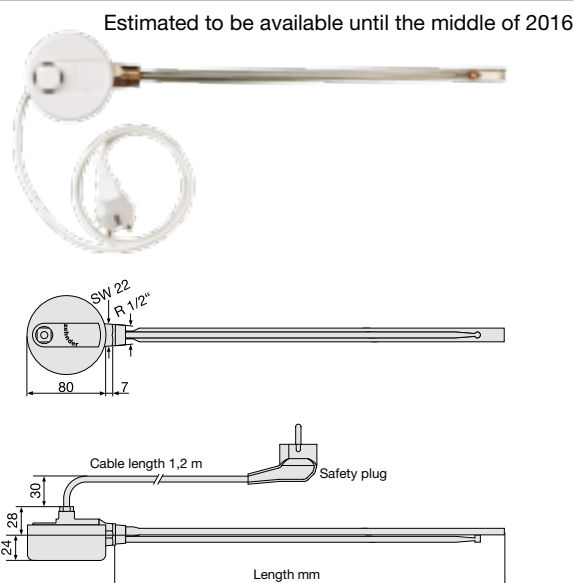
Electric heating element NOVAR ¹⁾

With selector switch, brass housing Ø 80 mm and plastic cover, white, VDE tested. IP 65 (splash-proof), output 300/600/900/1200 W, for supply voltage 230 V ± 10 %. With patented dry-running protection against operation without sufficient filling quantity. With conical ½" screw-in thread and 3-core connection cable, 1,2 m in length with safety plug, white. With rotary knob for selecting the following operating modes:

- Medium temperature, max. 50 °C
- Medium temperature, max. 70 °C
- Timer with automatic shut-off after 3 hours, medium temperature, max. 70 °C
- Off

Model	Nominal output Watt	Length max. mm	Article no.	Price €
NOVAR 301	300	370	862200	275,95
NOVAR 601	600	670	863200	290,77
NOVAR 901	900	960	864200	313,73
NOVAR 1201	1200	1250	865200	335,92

Suitable for decorative radiators: Universal, Toga, Forma Spa, Janda Bow (for allocation of output to the radiator models, see product pages)



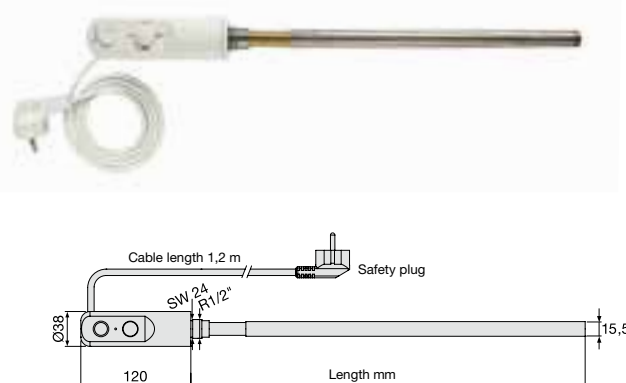
Electric heating element DBM ²⁾

IP 44 (splash-proof), for supply voltage 230 V ± 10 %. With G ½" screw-in thread and 3-core connection cable, 1,2 m in length with safety plug, collar and assembly key. With dry-running protection against operation without sufficient filling quantity. With rotary knob for selecting the following operating modes:

- Medium temperature max. 40 °C
- Medium temperature max. 70 °C
- Timer with automatic shut-off after 2 hours
- Off

Model	Nominal output Watt	Length max. mm	Article number	Price €
DBM 300 white	300	330	857461	271,50
DBM 300 chrome	300	330	857468	318,88
DBM 300 inox	300	330	857462	327,15
DBM 600 white	600	480	857481	289,74
DBM 600 chrome	600	480	857488	337,10
DBM 600 inox	600	480	857482	343,22
DBM 900 white	900	630	857501	344,41
DBM 900 chrome	900	630	857508	362,62
DBM 900 inox	900	630	857502	351,89
DBM 1200 white	1200	800	857521	362,62
DBM 1200 chrome	1200	800	857528	380,83
DBM 1200 inox	1200	800	857522	360,69

Suitable for decorative radiators: Toga, Janda Bow, Forma Spa, Zeno, Zeno Bow (for allocation of output to the radiator models, see product pages)

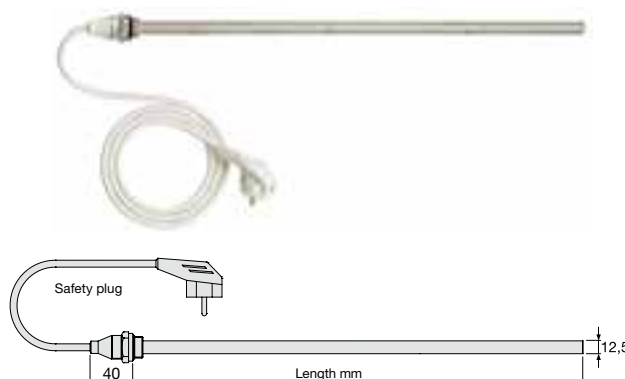


Electric heating element RICA ²⁾

Splash-proof, IP 54, for supply voltage 230 V ± 10 %. With G ½" screw-in thread and 3-core connection cable, 1,2 m in length with safety plug. With integrated temperature controller, with fixed nominal value of 70 °C and safety temperature limiter, without dry-running protection. (The electric heating element must be replaced after activation of the temperature limiter. Cannot be repaired!)

Model	Nominal output Watt	Length max. mm	Article no.	Price €
RICA 300	300	450	893100	139,45
RICA 600	600	700	893200	147,35
RICA 900	900	900	893300	152,90
RICA 1200	1200	1200	893400	160,85

Suitable for decorative radiators: Toga, Janda Bow (for allocation of output to the radiator models, see product pages)



¹⁾ Can be used in hot water heating systems with max. operating temperature of 85 °C

²⁾ Can be used in hot water heating systems with max. operating temperature of 95 °C

Description		Responsible for performing task	Article no.	Price €	Application
Zehnder thermostat "LH2" Thermostat with integrated fluid sensor, tested according to EN 215. Can be limited and blocked to individual nominal value. Reference range value 7 to 28 °C. Version with zero setting, thermostat threaded connection M 30 x 1,5		White Chrome	819140 819148	23,42 40,35	For all radiators with threaded connection M 30 x 1,5 mm
Zehnder thermostat "DH" Thermostat with integrated expansion material sensor, reference value range 7 to 28 °C. Version with zero setting. Threaded connection M 30 x 1,5 with cover of union nut		White Chrome	819050 819058	23,42 35,68	
Zehnder thermostat "SH" Elegant thermostat with integrated fluid sensor, tested according to EN 215, reference value range 7 to 28 °C. Version with zero setting. Thermostat threaded connection M 30 x 1,5 with chrome-plated union nut		White Chrome Stainless steel	819080 819088 819082	25,46 35,76 35,76	
Angle adapter for thermostat M 30 x 1,5	Not illustrated	white	819500	9,32	
Valve inserts for thermostat M 30 x 1,5		Without presetting Presetting 1-6 With fine adjustment Swapped for flow/return	974040 974000 849020 914500	11,95 22,08 22,08 29,94	
Directional air vent, nickel-plated, self-sealing		¼" ½"	816010 816030	2,79 2,79	
Decorative directional air vent set, chrome Comprising 2 x directional air vents (½") with cover, vent tool and plug key	Not illustrated	Chrome	816508	9,35	
Directional air vent, chrome-plated, self-sealing Suitable for max. operating pressure of 18 bar		½"	816070	4,73	
Blanking plug, nickel-plated, self-sealing		½"	974020	1,60	
Blanking plug, chrome-plated Suitable for max. operating pressure of 18 bar		½"	974058	4,20	

Description		Responsible for performing task	Article no.	Price €	Application
Fitting for Zehnder Yucca For single- and twin-tube systems (connection size 50 mm); valve on right, presettable valve insert, flow on both sides, for thermostat M 30 x 1,5; connections to rear 3/4" external thread, flow/return lockable, with 1/2" connection for electric heating element on left (can be retrofitted when the fittings are removed); fitting set to twin-tube operation, can be used for single-tube operation by opening the by-pass screw; supplied as standard with matching cover in colour of the radiator, thermostat available for surcharge; maximum operating pressure 10 bar, 110 °C Version of fitting for mixed operation with IRVAR (long cover)		Standard colour Special colour Chrome-plated	976011 976019 976018	115,42 123,70 153,28	
Version of fitting for hot water operation (short cover)		Standard colour Special colour Chrome-plated	976021 976029 976028	115,42 123,70 153,28	
Version of fitting without cover	Not illustrated	Nickel-plated	976103	87,26	
Fitting for Zehnder Vitalo Spa / Bar Straight version, for single and twin-tube systems (connection size 50 mm), valve on right, for thermostat M 30 x 1,5; connections at bottom 3/4" external thread, flow/return lockable; fitting set to twin-tube operation, can be used for single-tube operation by opening the by-pass screw; maximum operating pressure 10 bar, maximum operating temperature 100 °C		Chrome-plated	841168	113,75	Vitalo Spa / Bar and all radiators with connection size 50 mm and 1/2" female thread
Angled version, for single and twin-tube systems (connection size 50 mm), valve on right, for thermostat M 30 x 1,5; connections to rear 3/4" external thread, flow/return lockable; fitting set to twin-tube operation, can be used for single-tube operation by opening the by-pass screw; maximum operating pressure 10 bar, maximum operating temperature 100 °C		Chrome-plated	841158	113,75	Vitalo Spa / Bar and all radiators with connection size 50 mm and 1/2" female thread
Zehnder Vario Fitting, nickel-plated. For single or twin-tube systems (connection size 50 mm) with preset valve insert, pivoting fitting for optional connection from/to bottom or from/to rear with 3/4" external thread; position of flow and thermostat (M 30 x 1,5) on right or left; flow and return blockable. Fitting set to twin-tube operation; single-tube operation can be set by opening the by-pass screw; supplied as standard with matching cover in colour of radiator, thermostat at additional charge. Operating pressure max. 10 bar, operating temperature max. 110 °C		Standard colour Special colour Chrome-plated	976531 976539 976538	79,73 100,74 100,74	
Fitting for Zehnder Vario without cover		Nickel-plated	832200	54,56	

Valves and return screw connections

Accessories



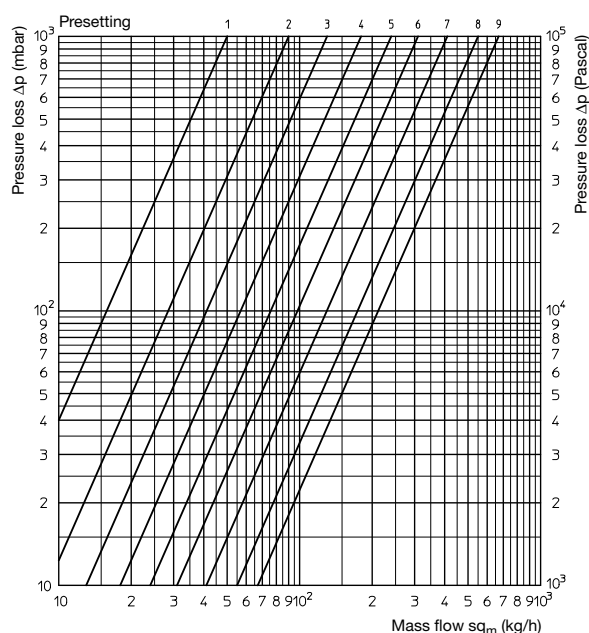
Description		Responsible for performing task	Article no.	Price €	Application
Valve unit series AV9 with preset					
Angled version ½", valve unit and stuffing box under system pressure, replaceable without draining the system. Valve body nickel-plated; thermostat threaded connection M 30 x 1,5; operating temperature max. 110 °C; operating pressure max. 10 bar		Nickel-plated	835100	21,61	For all radiators with ½" female thread
Straight version ½", thermostat threaded connection M 30 x 1,5; operating temperature max. 110 °C; operating pressure max. 10 bar		Nickel-plated	853100	20,22	
Axial version ½", thermostat threaded connection M 30 x 1,5; operating temperature max. 110 °C; operating pressure max. 10 bar		Nickel-plated	850100	23,82	
Angle-angle version right ½", thermostat threaded connection M 30 x 1,5; operating temperature max. 110 °C; operating pressure max. 10 bar		Nickel-plated	829100	27,58	
Angle-angle version left ½", thermostat threaded connection M 30 x 1,5; operating temperature max. 110 °C; operating pressure max. 10 bar		Nickel-plated	832100	27,58	
Return screw connection Combi 3					
Angled version with ½" external thread, with fine presetting, possibility to shut off, fill and drain without changing the preset. Valve unit nickel-plated. Operating temperature max. 110 °C, operating pressure max. 10 bar		Nickel-plated	838000	14,63	
Straight version ½", operating temperature max. 110 °C, operating pressure max. 10 bar		Nickel-plated	858000	14,63	
Valve unit series XE					
Angled version ½", exclusive design for the modern arrangement of living space. The valve is available in white or chrome. Thermostat threaded connection M 30 x 1,5		White Chrome Stainless steel	628111 628128 628122	113,75 113,75 113,75	
Straight version with ½" external thread, thermostat threaded connection M 30 x 1,5		White Chrome	628211 628228	113,75 113,75	
Axial version with ½" external thread, thermostat threaded connection M 30 x 1,5		White Chrome	832401 832408	145,84 145,84	
Angle-angle version, right-hand, with ½" external thread, thermostat threaded connection M 30 x 1,5		White Chrome Stainless steel	829001 829008 829002	145,84 145,84 145,84	
Angle-angle version, left-hand, with ½" external thread, thermostat threaded connection M 30 x 1,5		White Chrome Stainless steel	832001 832008 832002	145,84 145,84 145,84	
Return screw connection series XE					
Angled version with ½" external thread, in exclusive design for the modern arrangement of living space. The screw connection is available in white or chrome		White Chrome Stainless steel	632111 632128 632122	113,75 113,75 113,75	
Exclusive return screw connection, straight version with ½" external thread		White Chrome	632211 632228	113,75 113,75	

Valve characteristic values

General

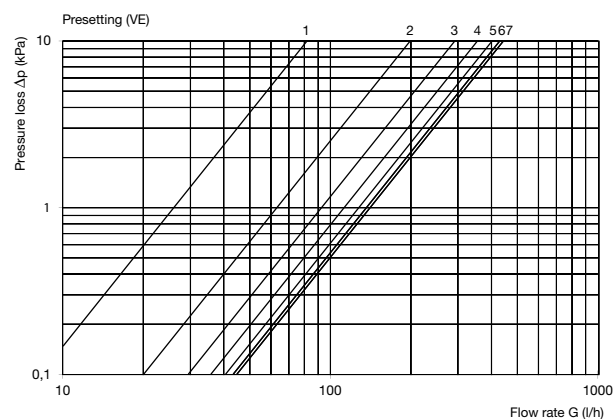


Pressure loss diagram for valve insert AV9 (Oventrop)



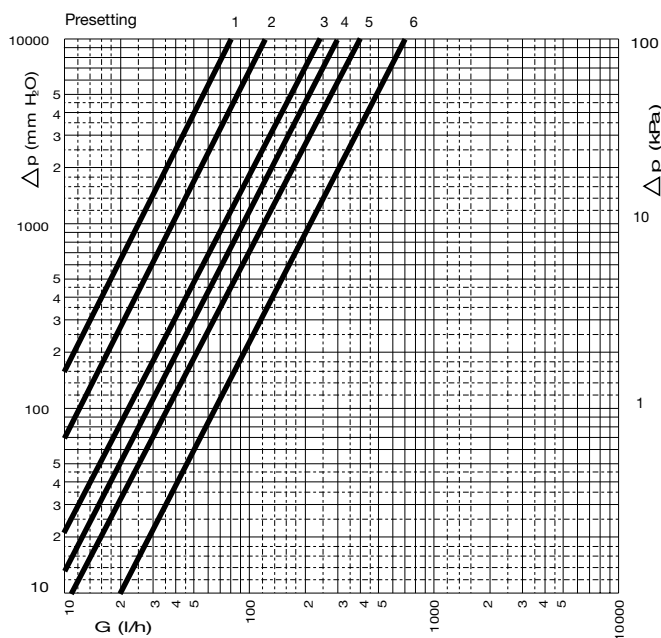
Presetting	1	2	3	4	5	6	7	8	9
Kv value	0,05	0,09	0,13	0,18	0,24	0,31	0,41	0,55	0,67

Pressure loss diagram for fitting for Zehnder Vitalo



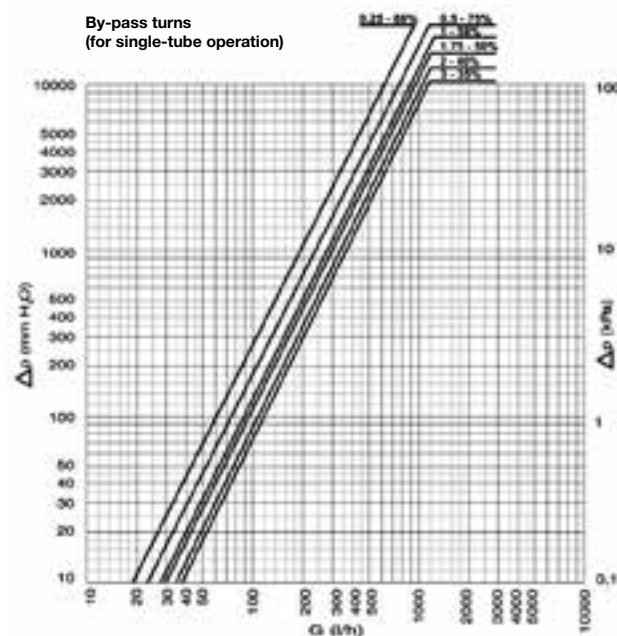
VE	1	2	3	4	5	6	7
Kv	0,26	0,63	0,92	1,12	1,27	1,36	1,40

Pressure loss diagram for valve fitting Zehnder Vario

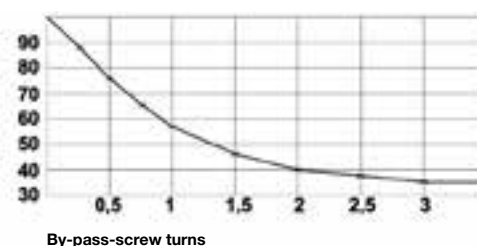


VE	Kv
1	0,08
2	0,12
3	0,24
4	0,30
5	0,40
6	0,70

Test conditions:
By-pass closed (4 mm key), barrier open (6 mm key).



Through flow of radiator in %



Conversion table, f_1 factors

General



t_1	t_2	t_r	n	70			65			60			55			50			45		
				1,25	1,30	1,35	1,25	1,30	1,35	1,25	1,30	1,35	1,25	1,30	1,35	1,25	1,30	1,35	1,25	1,30	1,35
90	10			1,516	1,542	1,568	1,499	1,462	1,483	1,363	1,380	1,397	1,283	1,296	1,309	1,201	1,210	1,219	1,117	1,122	1,127
	15			1,380	1,398	1,416	1,311	1,319	1,333	1,228	1,238	1,248	1,149	1,155	1,162	1,067	1,070	1,073	0,982	0,981	0,981
	18			1,300	1,313	1,327	1,229	1,235	1,245	1,148	1,155	1,161	1,069	1,072	1,075	0,987	0,987	0,986	0,902	0,898	0,894
	20			1,247	1,258	1,269	1,175	1,180	1,187	1,096	1,100	1,104	1,017	1,017	1,018	0,935	0,932	0,930	0,849	0,843	0,838
	22			1,194	1,202	1,211	1,122	1,125	1,130	1,043	1,045	1,047	0,964	0,963	0,962	0,882	0,878	0,874	0,796	0,789	0,781
	24			1,142	1,148	1,154	1,069	1,071	1,073	0,992	0,991	0,991	0,913	0,909	0,906	0,830	0,824	0,818	0,743	0,734	0,726
85	10			1,454	1,476	1,498	1,387	1,398	1,416	1,305	1,319	1,333	1,228	1,238	1,248	1,149	1,155	1,162	1,067	1,070	1,073
	15			1,319	1,334	1,349	1,251	1,258	1,269	1,172	1,180	1,187	1,096	1,100	1,104	1,017	1,017	1,018	0,935	0,932	0,930
	18			1,240	1,251	1,261	1,171	1,175	1,182	1,094	1,098	1,102	1,017	1,018	1,019	0,939	0,936	0,934	0,856	0,851	0,846
	20			1,187	1,196	1,204	1,118	1,121	1,125	1,042	1,044	1,045	0,966	0,964	0,963	0,887	0,883	0,878	0,804	0,797	0,790
	22			1,135	1,141	1,147	1,065	1,067	1,069	0,991	0,990	0,990	0,915	0,911	0,908	0,836	0,830	0,824	0,753	0,744	0,736
	24			1,084	1,087	1,091	1,013	1,013	1,014	0,941	0,937	0,935	0,864	0,859	0,854	0,785	0,777	0,770	0,701	0,691	0,682
80	10			1,391	1,409	1,428	1,325	1,334	1,349	1,247	1,258	1,269	1,172	1,180	1,187	1,096	1,100	1,104	1,017	1,017	1,018
	15			1,258	1,269	1,281	1,191	1,196	1,204	1,116	1,121	1,125	1,042	1,044	1,045	0,966	0,964	0,963	0,887	0,883	0,878
	18			1,179	1,187	1,195	1,111	1,114	1,119	1,038	1,040	1,041	0,965	0,964	0,962	0,889	0,885	0,881	0,810	0,803	0,797
	20			1,127	1,133	1,138	1,059	1,061	1,063	0,987	0,987	0,986	0,914	0,911	0,908	0,839	0,833	0,827	0,759	0,751	0,743
	22			1,076	1,097	1,082	1,008	1,008	1,008	0,937	0,934	0,932	0,864	0,859	0,854	0,788	0,781	0,773	0,709	0,699	0,690
	24			1,025	1,026	1,027	0,956	0,955	0,954	0,887	0,883	0,878	0,814	0,808	0,801	0,739	0,730	0,721	0,659	0,648	0,637
75	10			1,326	1,342	1,357	1,262	1,269	1,281	1,187	1,196	1,204	1,116	1,121	1,125	1,042	1,044	1,045	0,966	0,964	0,963
	15			1,195	1,204	1,212	1,130	1,130	1,138	1,058	1,061	1,036	0,987	0,987	0,986	0,914	0,911	0,908	0,839	0,833	0,827
	18			1,118	1,122	1,127	1,051	1,053	1,055	0,982	0,981	0,981	0,912	0,908	0,905	0,839	0,833	0,827	0,763	0,755	0,747
	20			1,066	1,069	1,072	1,000	1,000	1,000	0,932	0,929	0,927	0,862	0,857	0,852	0,789	0,782	0,775	0,714	0,704	0,695
	22			1,016	1,016	1,017	0,949	0,948	0,946	0,882	0,878	0,874	0,813	0,806	0,799	0,740	0,732	0,723	0,665	0,654	0,643
	24			0,966	0,964	0,963	0,899	0,897	0,893	0,833	0,827	0,821	0,764	0,756	0,748	0,692	0,682	0,672	0,616	0,604	0,592
70	10						1,198	1,204	1,212	1,127	1,133	1,138	1,058	1,061	1,063	0,987	0,987	0,986	0,914	0,911	0,908
	15						1,068	1,069	1,072	1,000	1,000	1,000	0,932	0,929	0,927	0,862	0,857	0,852	0,789	0,782	0,775
	18						0,991	0,990	0,990	0,925	0,922	0,919	0,858	0,853	0,847	0,788	0,781	0,773	0,716	0,707	0,697
	20						0,940	0,939	0,936	0,876	0,871	0,867	0,809	0,802	0,795	0,740	0,731	0,722	0,668	0,657	0,646
	22						0,890	0,887	0,883	0,827	0,821	0,815	0,761	0,752	0,744	0,692	0,682	0,672	0,620	0,608	0,596
	24						0,840	0,837	0,831	0,779	0,771	0,763	0,713	0,703	0,694	0,644	0,633	0,622	0,572	0,560	0,547
65	10									1,066	1,069	1,072	1,000	1,000	1,000	0,932	0,929	0,927	0,862	0,857	0,852
	15									0,941	0,936	0,936	0,876	0,871	0,867	0,809	0,802	0,795	0,740	0,731	0,722
	18									0,867	0,862	0,857	0,803	0,796	0,789	0,737	0,728	0,719	0,668	0,657	0,647
	20									0,818	0,812	0,805	0,755	0,746	0,738	0,689	0,679	0,669	0,621	0,609	0,597
	22									0,770	0,762	0,755	0,707	0,698	0,688	0,642	0,631	0,620	0,574	0,561	0,549
	24									0,723	0,714	0,705	0,661	0,650	0,639	0,596	0,584	0,572	0,528	0,515	0,502
60	10												0,941	0,939	0,936	0,876	0,871	0,867	0,809	0,802	0,795
	15												0,818	0,812	0,805	0,755	0,746	0,738	0,689	0,679	0,669
	18												0,747	0,738	0,729	0,684	0,674	0,664	0,619	0,607	0,596
	20												0,700	0,690	0,680	0,638	0,626	0,615	0,573	0,560	0,548
	22												0,653	0,642	0,631	0,592	0,579	0,567	0,528	0,514	0,501
	24												0,607	0,595	0,584	0,546	0,533	0,521	0,483	0,469	0,455
55	10															0,818	0,812	0,805	0,755	0,746	0,738
	15															0,700	0,690	0,680	0,638	0,626	0,615
	18															0,630	0,619	0,607	0,569	0,556	0,544
	20															0,585	0,572	0,560	0,524	0,511	0,498
	22															0,540	0,527	0,514	0,480	0,466	0,453
	24															0,496	0,482	0,469	0,437	0,422	0,409

Conversion factors f_1 for converting the standard thermal output at 75/65/20 °C to other system temperatures: $\Phi = \Phi_s \cdot f_1$

The radiator exponent depends on the model and type of radiator and can therefore be found in the table containing the technical specifications for the respective radiator. For exponents other than those given, the correction factor can be interpolated or precisely calculated according to the above formulae. An exponent of 1,3 can be used for the approximate calculation.

$$\Phi = \Phi_s \times f_1 \text{ or } \Phi = \Phi_s \times \left(\frac{\Delta t}{\Delta t_n} \right)^n$$

$$\text{with } \Delta t = \frac{(t_1 - t_r) - (t_2 - t_r)}{\ln \left(\frac{t_1 - t_r}{t_2 - t_r} \right)} = \frac{t_1 - t_2}{\ln \left(\frac{t_1 - t_r}{t_2 - t_r} \right)}$$

Example for Zehnder Yucca:

What is the effective output at 60/45/24 °C?

Model YSD-130-080; $\Phi_s = 1024$ W, exponent $n = 1.30$
 $t_1 = 60$ °C, $t_2 = 45$ °C, $t_r = 24$ °C

f_1 from table: $f_1 = 0,469$

$\Phi_s = \Phi_s \times f_1 = 1024$ W x 0,469 = 480 W

General

Accessories

A wide range of accessories are available for various additional uses, such as hanging up towels. For more information, see the section 30 x 1,5 on "Accessories".

Article no.

The Article no. for each model can be found in the Prices and Technical specifications section of a product chapter. In each case, the numbers shown apply to the product with a standard surface finish in RAL 9016, chrome or in stainless steel. For coloured variants, the colour code specified in the colour chart is to be entered as two characters in the 9th and 10th places of the Article no.. Example: Zehnder Universal HU-180-060, RAL 9016 Z U 1 0 0 4 6 0 **B 1** 0 0 0 0 0 For a two-coloured product, the colour code of the tubes must also be entered in the 9th and 10th place, the colour of the cover follows in the 11th and 12th place. Example: Zehnder Yucca Cover YPR-180-60, pipes RAL 9016, stainless steel cover Z Y 8 0 1 2 5 8 **B 1 B P** 0 0 0

Baffle

To avoid reduced output, e.g. with a riding connection, internal installations, e.g. baffles, baffle plates, deflector plates, guiding plates are required. Detailed information is available on request.

Benefits

See "Product description".

CE marking



The CE marking on Zehnder radiators shows that they are manufactured in accordance with the prevailing European standard EN 442 and that the product has been subjected to the prescribed conformity evaluation procedure.

Product/product family	CE - Year
Zehnder Yucca	CE - 05
Zehnder Yucca Star	CE - 10
Zehnder Vitalo	CE - 13
Zehnder Charleston	CE - 05
Zehnder Nobis	CE - 05
Zehnder Fina	CE - 11
Zehnder Metropolitan	CE - 09
Zehnder Roda Spa Asym	CE - 08
Zehnder Quaro	CE - 11
Zehnder Subway	CE - 08
Zehnder Universal	CE - 05
Zehnder Janda	CE - 05
Zehnder Toga	CE - 05
Zehnder Forma	CE - 05
Zehnder Klaro	CE - 16
Zehnder Stalox	CE - 06
Zehnder Cornwall	CE - 05
Zehnder Zeno	CE - 05
Zehnder Aura	CE - 13
Zehnder Impa	CE - 14
Zehnder Zeta	CE - 14

The following parameters, which allow the CE mark to be shown, can be found in the respective product section:

- Model description
- Max. operating pressure
- Nominal heat output

Cleaning

With a lambswool cleaning brush or soft cloth. Detailed information is available on request.

Conversion

Conversion factor for converting the nominal heat output to thermal outputs at other system temperatures see conversion table of f_1 factors

Corrosion protection

See "Finish" and "Surface protection".

Dimensions

The dimensions indicated in the documentation are correct at the time of printing. Subject to change without notice.

Electric-only radiators

In deviation from mixed operation in a central heating system, all electric radiators are fixed units that comprise the actual radiator body, a filling medium (heat transfer liquid), a heating element and associated controls. This unit is subject to a special function test and must not be changed. The heat transfer liquid is frost-proof to -20 °C (unless stated otherwise in the indication of the chapter of the radiator). A large number of radiator models with different control and regulation units are available for a wide range of applications.

The following table provides an overview of the available radiator shapes combined with different control and regulations devices:

Product family	Infrared control Program-mable	Remote control Program-mable	Control knob	Without control
Zehnder Yucca	X			
Zehnder Vitalo		X		
Zehnder Roda Twist Spa Air	X			
Zehnder Klaro			X	
Zehnder Nobis	X		X	
Zehnder Fina		X		
Zehnder Metropolitan	X			
Zehnder Quaro	X			
Zehnder Subway	X			
Zehnder Universal	(X)		X	
Zehnder Janda			X	
Zehnder Toga			X	
Zehnder Forma			X	
Zehnder Zeno			X	(X)

Environment

The certification of our environmental management system to DIN EN ISO 14 001 by an independent institution obliges us to make continuous improvements to our environmental services through reducing or avoiding environmental burdens and waste, encouraging the utilisation and protection of resources as well as observing all environmental laws and regulations applicable to us.

Finish

Ready-painted radiators in this Price List have a two-coat finish (to DIN 55900, Part 1 and 2, comprising primer and top coat). The top coat is a powder coating. The high-quality Zehnder powder coating produces an especially smooth and extremely durable surface. Further information on the applications and limits of radiators is contained in information sheet number 7 of the BDH (Bundesindustrieverband Deutschland, Haus-, Energie- und Umwelttechnik e.V.).

Please always use the original RAL, NCS colour samples or original colour charts of the sanitary manufacturers for exact colour matching. For technical production reasons, minor colour deviations are possible in paints on steel surfaces, also when taking the prevailing lighting conditions into account. Deviations can also occur when comparing painted steel surfaces (radiators) with ceramic products. The colours shown here (see inside of rear cover) are not binding for printing reasons. Radiators in metallic colours, e.g. RAL 9006, RAL 9007 and Anthracite are unique products and visual differences may appear in the colour, depending on the radiator.

Fixings

To ensure that radiators are fitted safely, the weight of the radiator and other aspects must be considered when choosing the right quality and quantity of brackets. Additional loads and foreseeable misuse of a radiator must be considered or ruled out by planning and implementation in line with the known building use. The installation situation and accessibility are just as important criteria as brickwork, bracket shape, location of the suspensions, locking device, add-on elements and the like. See also VDI 6036.

Flow connection

This concerns the connection on the radiator through which the hot water flows into the radiator.

Galvanisation

Galvanisation creates structures on the surface. These are caused by the technological process and therefore are not a fault. We cannot guarantee a clean, smooth surface. Galvanised radiators are generally always delivered with a top coat. For explanation, see "Surface protection".

Product	Special version, galvanised
Zehnder Yucca	x
Zehnder Yucca Star	-
Zehnder Vitalo	-
Zehnder Roda Twist Spa Air	-
Zehnder Charleston	x
Zehnder Nova Mirror	-
Zehnder Nobis	-
Zehnder Fina	-
Zehnder Metropolitan	x
Zehnder Quaro	-
Zehnder Subway	-
Zehnder Universal	x
Zehnder Janda	x
Zehnder Toga	x
Zehnder Forma	-
Zehnder Klaro	-
Zehnder Stalox	-
Zehnder Cornwall	-
Zehnder Zeno	x
Zehnder Aura	-
Zehnder Impa	-
Zehnder Zeta	-

Hydraulic balancing

By hydraulic balancing the various system resistances are set so that the radiators are supplied with the necessary quantity of water at all operational points, in order to achieve the desired thermal output.

Immersion heaters

Maximum temperature:

The maximum achievable temperature of the bathroom radiator depends on the following parameters: Nominal thermal output of the radiator, nominal output of the immersion heaters, ambient temperature, time switched on.

Output:

Only a limited electrical output can be installed in the bathroom radiators for safety reasons. Generally, the nominal output of the immersion heater of all Zehnder bathroom radiators should not be greater than the nominal output of the bathroom radiator (Φ_L at ΔT 50 K according to EN 442).

Mounting:

The immersion heater must be sealed with hemp or Teflon tape so that the mains cable is at the back facing the wall. The plastic cover supplied with the IRVAR and NOVAR models must be inserted between the housing and radiator (the height can be reduced by cutting any excess away) and pushed onto the guide.

Please note:

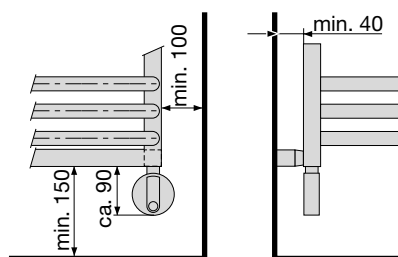
- The electrical installation must comply with local regulations.
- In stationary installation (without plug), a switch must be installed (all-phase isolation from the mains with min. 3 mm contact spacing).
- The bathroom radiator with integrated immersion heater in central heating systems must always be completely filled with water and vented.
- The expansion of the water in the system into the expansion vessel must be guaranteed at all times (do not block return).
- For electric-only bathroom radiators, the defined filling quantity must not be changed.
- The immersion heater must only be opened and the mains cable only replaced by the manufacturer.
- The immersion heater must only be installed vertically (housing always beneath the heating element).
- When using radiators with immersion heaters, the qualified electrician is the competent partner for the protective measures to be taken.
- Follow the operating instructions.

Position of electrical connection:

In bathrooms and other wet rooms, special conditions apply to the installation of switches and sockets according to DIN 57100/VDE0100. The suggested position of the socket is chosen so as to facilitate an easy connection. This suggestion does not release the electrical engineer from executing the electrical connection in accordance with local regulations.

Minimum clearances:

The minimum wall and floor clearances must be complied with:



The minimum floor clearance must meet the user requirements. The clearance must be increased accordingly in public buildings and to allow the use of cleaning machines.

General

Inlet and outlet resistance

The coefficient of resistance (zeta value) is used to calculate the pressure loss. For more information, see "Pressure loss".

Minimum water flow

If the flow of water through a radiator is heavily reduced, the heat output can fall far below the calculated or indicated value. For this reason, a minimum water flow should always be ensured. The following table shows the approximate minimum water flows $q_{m \min}$ in % of the nominal flow rate q_{ms} which does not cause the heat output to deviate from the standard characteristic curve by more than 5 %.

Product/product family	$q_{m \min}$ in % of q_{ms}
Zehnder Yucca, Zehnder Nobis, Zehnder Metropolitan, Zehnder Roda Spa Asym, Zehnder Quaro, Zehnder Universal, Zehnder Janda, Zehnder Toga, Zehnder Forma Asym, Zehnder Forma Spa, Zehnder Klaro, Zehnder Stalox, Zehnder Cornwall, Zehnder Zeno	27 %
Zehnder Charleston, Zehnder Fina, Zehnder Vitalo, Zehnder Nova Mirror	17 %

Nominal heat output

The nominal heat output of a radiator is determined in an independent, certified test laboratory according to standard EN 442 at the standard operating temperatures of 75/65/20 °C. The conversion of the thermal output to other system temperatures is done on the basis of the nominal heat output according to EN 12831. For easy dimensioning, additional outputs for frequently used temperatures are shown alongside the nominal heat output:

- 70/55/24 °C
- 55/45/24 °C

The conversion of the nominal heat output to deviating system temperatures can be done using the f_1 -factors on the conversion factors page.

Operating pressure

The maximum permissible operating pressure of a radiator depends on its geometry, the material used and the finish. Max. permissible operating pressure according to product:

Product	Standard version [bar]	High-pressure version [bar]
Zehnder Yucca	12	16
Zehnder Yucca Star	12	18
Zehnder Vitalo	10	-
Zehnder Vitalo Easy Fit	6	-
Zehnder Charleston	10	-
Zehnder Nobis	12	-
Zehnder Fina	10	-
Zehnder Metropolitan	4	-
Zehnder Quaro	10	-
Zehnder Subway	10	-
Zehnder Universal	11,5	18
Zehnder Janda	11,5	18
Zehnder Toga	11,5	18
Zehnder Forma	10	16
Zehnder Klaro	11,5	18
Zehnder Stalox	12	18
Zehnder Cornwall	10	18
Zehnder Zeno	11,5	18
Zehnder Aura	10	-
Zehnder Impa	13	-
Zehnder Zeta	10	-

Suitable fittings, plugs and air vents, etc. must be ensured in connection with high pressure applications in excess of 10 bar. Pressure loads up to max. 18 bar are only adaptable for suitable radiators and components as long as pressure shocks can be ruled out.

Operating temperature

Zehnder radiators can generally be used for hot water heating systems up to 110 °C. Exceptions are noted on the product in question. They are suitable for use in district heating, low temperature and condensing systems.

Packaging

The packaging of Zehnder radiators serves as protection against damage during transport and on building sites. It must be removed before starting the system for the first time in order to avoid any damage caused by condensation.

Pressure loss

Inlet and outlet resistance per radiator for water flow rates of up to 1 m/s $\zeta = 3,0$.

The pressure losses of the presettable standard valve sets to be taken into consideration when designing the pump and basic network layout can be taken from the diagrams on the valve characteristics page.

Prices

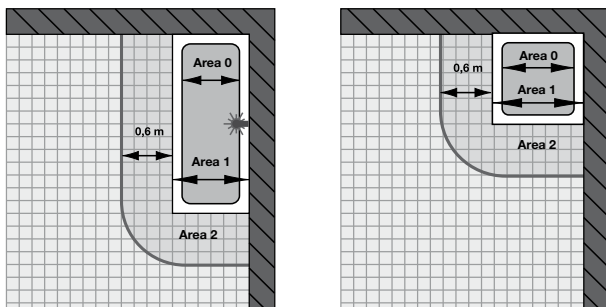
See General Sales and Delivery Conditions. You can find these under "Legal notice" on our homepage at www.zehnder-systems.com.

Product description

At the beginning of each chapter is a description of the radiator together with its product-specific benefits and applications.

Protected areas

The provisions of VDE 0100 must be observed when installing radiators with immersion heaters in wet rooms. Examples of the protected area classification for electrical equipment according to VDE 0100 PART 701 for baths and showers.



Areas 0 and 1:

Comprise the inside and surrounding areas of bath tubs and shower trays, area 1 ends at the outer edge of the tub/tray. No radiators with immersion heaters must be installed or connected in these areas.

Area 2:

Radiators with immersion heaters can be installed and connected here. The immersion heaters and the connection must be at least of protection rating IPX4 (IRVAR, RICA, NOVAR, DBM, SAFIR).

If the connection is made via a plug and socket, the socket must be outside of areas 0, 1 and 2.

Quality check

Zehnder Group Deutschland GmbH is certified to DIN ISO 9001 and is therefore subject to stringent quality controls carried out by independent institutions in the areas of Design/Development, Production, Assembly and Customer Service.

Reduced output

The thermal output can be affected depending on where the radiator is installed. The standard thermal output is measured in an unobstructed setting with a ground clearance of 110 mm and a wall clearance of 50 mm. Any reduction in these clearances, as well as installation in alcoves and the application of covers and grilles can, depending on the model, lead to a reduction in thermal output.

Registration

Zehnder radiators are tested to EN 442 and comply with this standard.

Returns

Radiators and accessories cannot be returned.

Return connection

This concerns the connection on the radiator through which the hot water leaves the radiator and passes along the return line to the heat generator.

Room dividers

An overview of how the designer bathroom radiator can be used as a room divider is provided by the following table. Detailed information can be found in the respective product chapters.

Product/product family	Room dividers
Zehnder Yucca	-
Zehnder Yucca Asym	X
Zehnder Yucca Star	-
Zehnder Yucca Cover	-
Zehnder Yucca Mirror	-
Zehnder Vitalo	-
Zehnder Roda Twist Spa Air	-
Zehnder Charleston	-
Zehnder Nobis	-
Zehnder Fina	-
Zehnder Metropolitan	-
Zehnder Roda Spa Asym	-
Zehnder Quaro	X
Zehnder Subway	X
Zehnder Universal	X
Zehnder Janda	-
Zehnder Toga	X
Zehnder Forma	-
Zehnder Klaro	-
Zehnder Stalox	-
Zehnder Cornwall	-
Zehnder Zeno	X
Zehnder Aura	-
Zehnder Impa	-
Zehnder Zeta	-

Safety

See "Statutory Accident Insurer".

Scope of delivery

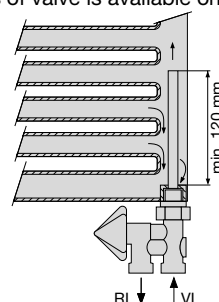
The scope of delivery for the standard version of a radiator can be found in the respective product description.

Seals

In the case of sealed connections and plugs, it may be necessary to tighten up the connection and blanking plugs depending on the water quality, e.g. in connection to district heating, after testing the pressure or heating the system for the first time. The sealing materials supplied or used by Zehnder are intended for use in closed heating systems.

Single-pipe systems

Only possible with valves for vertical installation. We recommend using single-tube valves with an adjustable bypass or a riser, i.e. with an adjustable water volume above the radiator. Only single-tube valves with baffle plates of at least 120 mm in length may be used. TKM and Oederlin systems with screw-in turbulators and 150 mm baffle plate. Essentially, a reduced output of at least 25 % must be considered when using single-tube baffle plates. Function is often guaranteed only for certain models and up to specific lengths. Maximum lengths and an indication of how the radiators function with various makes of valve is available on request.



General

Special colour

Zehnder radiators are available in almost every colour conceivable. The Zehnder colour chart shows a selection of the possible colours from various colour systems, such as RAL colours, sanitary colours or the NCS-S system.

The standard colour for the entire Zehnder radiator programme is the colour RAL 9016, Traffic White. A further 17 popular colours form Zehnder colour category 1 (see the respective product tables for prices), another 30 form Zehnder colour category 2, with a surcharge on colour category 1. All other paintable colours are available for a surcharge on request.

Special prices apply for highly-polished metal surfaces and metal look. Refer also to the paint and colour chart in the back envelope.

Standard colour and coating

The standard colour for Zehnder radiators is RAL 9016. For more information, see Finish.

Standard data set

The standard data set contains all technical information required by layout programmes. Free data sets can be requested direct from Zehnder or downloaded from the internet (<http://www.zehnder-systems.de>).

Standard water flow q_{ms}

(heating agent flow, flow quantity, mass flow)

The nominal flow rate q_{ms} of a radiator gives a temperature spread of 10 K at a flow temperature of 75 °C (standard thermal output conditions).

$$q_{ms} = \frac{\Phi}{c_p (t_1 - t_2)} \quad c_p \approx 4187 \frac{J}{kg \cdot K}$$

The actual water flow q_m of a radiator can, at flow and return temperatures other than 75/65 °C, deviate significantly from the nominal flow rate q_{ms} .

Examples

Zehnder Universal

$\Phi_s = 1,093 \text{ W}$ (at 55/45/24: 483 W)

Model HU-180-60

Temperatures: 55/40/24 °C

$$q_{ms} = \frac{483}{4187 (55-40)} \quad q_{ms} = 0,015 \text{ kg/s} \approx 41,5 \text{ kg/h}$$

The actual mass flow q_m is therefore still:

$$q_m \text{ in } \% = \frac{q_m}{q_{ms}}$$

$$q_m \text{ in } \% = \frac{41,5}{116,5}$$

$$q_m \text{ in } \% = 36 \% \text{ from } q_{ms} > 27 \%$$

Minimum according to table: 27 %.

The example therefore satisfies the guideline for the minimum water flow; see also minimum water flow.

Statutory Accident Insurer (GUV)

Radiators that are installed in places such as schools and kindergartens must comply with the guidelines of the Statutory Accident Insurer (GUV). These require, amongst other things, that the product does not have any sharp edges and corners.

Storage

Zehnder radiators must be stored for the long-term or temporarily in dry and chemical-free rooms.

Surface protection

We recommend that installation areas affected by damp or chemicals are only fitted with radiators that are galvanised and then given a powder coating.

For possible applications, see Galvanisation.

System temperatures

These are the temperatures at which the hot water heating system is operated (flow, return and room temperature).

Tender specifications

The description of a product is shown in the respective chapter in the product description section.

Technical specifications

The dimensions indicated in the documentation are correct at the time of printing. We reserve the right to make amendments that improve the product.

Thermal output Φ

The thermal output of a radiator model is given by the standard characteristic curve:

$$\Phi = K_M \cdot \Delta T$$



EN 442 defines the pan-European test procedure and the measurement method in identically arranged test laboratories.

According to the EN 442 standard, the higher temperature is calculated from the logarithmic mean between flow and return temperature as well as the intake air temperature.

Excess temperature ΔT :

$$\Delta T = \frac{t_1 - t_2}{\ln \left(\frac{t_1 - t_r}{t_2 - t_r} \right)}$$

The thermal output for excess temperatures ΔT other than the standard excess temperature $\Delta T = 50 \text{ K}$ can be calculated via the

$$\Phi = \Phi_s \times \left(\frac{\Delta T}{50 \text{ K}} \right)^n$$

the equation.

Example for calculating the thermal output Φ :

$$\Phi_s = 1024 \text{ W}$$

$$n = 1,30 = \text{exponent}$$

$$t_1 = 60 \text{ °C}$$

$$t_2 = 40 \text{ °C}$$

$$t_r = 24 \text{ °C}$$

$$\Delta T = \frac{60 - 40}{\ln \left(\frac{60 - 24}{40 - 24} \right)} = 24,7 \text{ K}$$

$$\Phi = 1024 \text{ W} \times \left(\frac{24,7 \text{ K}}{50 \text{ K}} \right)^{1,30} = 1024 \text{ W} \times 0,40 = 409 \text{ W}$$

also see "Nominal heat output"

Test pressure

Each radiator is checked for leaks by subjecting it to 1,3 times its rated maximum operating pressure before delivery. For orders that do not indicate the actual operating pressure, the radiator will be delivered with the operating pressure of the standard version.

Tolerances

Industry standard tolerances and tolerances based on production technology are subject to change for all indicated dimensions and fall within the tolerances defined in EN 442. The maximum tolerance must be considered during pre-assembly of the piping or fixing materials. We reserve the right to make technical amendments during the validity of the documentation as part of product improvement.

VDI 6036

Application of guideline VDI 6036 helps everyone involved in the process to be able to make a comprehensive and comparable assessment of the situation. As an accepted rule of technology, this type of assessment can also be drawn on in the event of damages. According to guideline VDI 6036, examples of radiator fixtures are divided into different requirements classes catering to different loads. As well as the radiator's net weight and water content, additional loads are taken into consideration such as stress due to incorrect usage and applied at varying levels of intensity. Zehnder publishes a recommendation for the allocation of selected fixing elements - provided not labelled otherwise - by standard for the requirements classes 1 and 2 and stable wall structures (e.g. concrete). Recommendations for allocation of the requirements class 3 as well as additional special custom-made applications (requirements class 4) on request.

Sample applications from VDI 6036:

Requirements class 1 and 2 (normal to medium-level requirements): own homes, rented apartments, kindergartens, hospitals, retirement and nursing homes, office buildings, doctors' surgeries/solicitors' practices, shops.

Requirements class 3 (high-level requirements): schools, sports clubs, youth centres, public venues, stations, barracks.

Requirements class 4 (very high-level requirements or special burdens): prisons, psychiatric clinics, special agreements.

Wall clearance

This is the distance between the wall and the back of the radiator. For more information, see "Reduced output".

Warranty

In deviation from the regulations contained in section 8.2 of our General Sales and Delivery Conditions (<http://www.zehnder-systems.de>), the warranty period for the products shown in the Price List for 2014 is 5 years, and for electrical components just 2 years.

Water quality

Operating conditions and water quality according to VDI 2035 must be maintained.

Claims under guarantee will be rejected if substances (e.g. chemicals, antifreeze, etc.) are added to the heating water which have an aggressive effect on the sealing material.

In case of non compliance, no liability can be accepted in accordance with point 8 of our General Sales and Delivery Conditions for sealing material, nor for any resulting defects and consequences.

Claims under guarantee in accordance with point 8 of our General Sales and Delivery Conditions will also be rendered invalid in case of:

- Operation with steam,
- Periodical or long-term emptying of the system,
- Excessive sludge in the radiators and
- Occasional or constant seepage of oxygen into the system.

Wet rooms

See "Surface protection".

Legend

Icon	Unit	Description
H	mm	Height
L	mm	Length
T	mm	Depth
H Lam.	mm	Height of fins
N	mm	Boss spacing
A	m ²	Surface
V	dm ³	Water capacity
M	kg	Empty weight
t ₁	°C	Flow temperature
t ₂	°C	Return temperature
t _r	°C	Indoor air temperature
t _m	°C	Average water temperature (t ₁ +t ₂)/2
ΔT _n	K	Standard excess temperature t _m - t _r
ΔT	K	Excess temperature t _m - t _r
Φ	W=(J/s)	Thermal output
Φ _S	W	Nominal heat output
Φ _L	W	Nominal heat output of module
c _p	J/(kg K)	Mean specific heat capacity
n	-	Radiator indicator, exponent
s _k	%	Proportion of radiation
c _k	-	Conversion factor to Φ _S
q _m	kg/h/(kg/s)	Water flow
q _{ms}	kg/h/(kg/s)	Nominal flow rate
v	m/s	Velocity
Δp	kPa	Pressure loss, pressure drop
ζ	-	Coefficient of resistance
ln	-	Natural logarithm

Physical unit

°C	Degrees, Celsius
K	Kelvin, unit for temperature difference
m	Metres
mm	Millimetres
m/s	Metres/second, flow rate
Pa	Pascal, 1 Pa = 0,102 mmWS
mmWS	mm water column
W	Watt, unit of power, 1 W = 0,6 kilocalories/hour old unit of power, 1kcal/h = 1,163 W
c	Specific heat capacity of water = 1 kcal/(kg K) = 4,187 kJ/kg K
kJ	Kilojoule, 1 kJ = 0,239 kcal

Functional principle



1. Fresh air is fed into the system via an external wall vent. Optional use of a Zehnder ComfoFond air or brine earth heat exchanger is possible. Heat exchangers use geothermal energy to pre-temper outside air before it enters the system.

2. The Zehnder ComfoAir ventilation unit recovers up to 95% of the energy from the extract air and returns it to the fresh air. Optional components can be used to humidify, dehumidify, heat and pre-temper.

3. The Zehnder ComfoFresh air distribution system channels fresh air at the right temperature to individual rooms as needed and vents the extract air to the outside via the ventilation unit. The air volume can be individually adjusted for each room.



Air distribution system – effective and hygienic

There are two versions of air distribution systems available: Zehnder OnFloor and InFloor. In both cases, the air volume is regulated as required. They are characterised by the ease with which they can be integrated into the building and their rapid installation. In the case of Zehnder OnFloor, fresh air flows through flat, oval ducts with an internal coating, which are installed in the insulation layer of the unfinished floor. Zehnder InFloor functions on the same principle, only the round tubes are laid in the unfinished floor. Both the Zehnder InFloor and Zehnder OnFloor versions can be combined thus offering maximum flexibility.

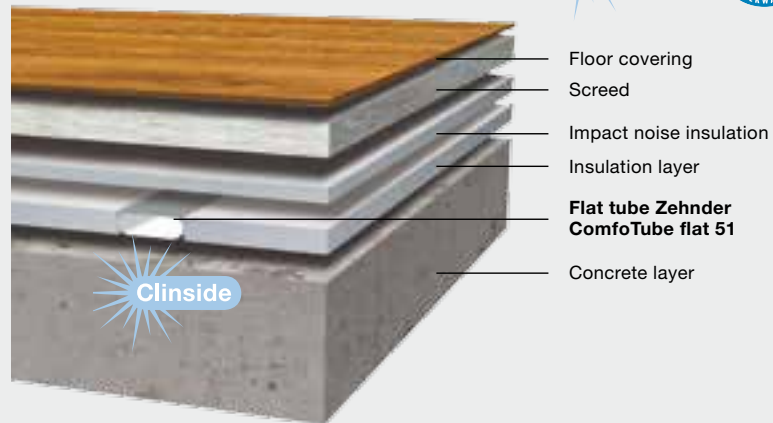


Zehnder ventilation tubes are SKZ certified. This certification requires everything from the raw materials to the finished product to have been examined and therefore guarantees the highest quality standard for the Zehnder air distribution system.

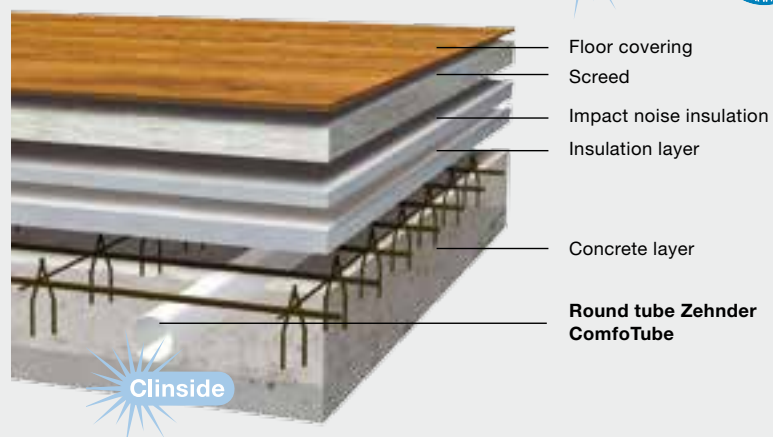


Clean thanks to Clinside: The smooth inner skin prevents the build-up of dust. For easy cleaning.

Zehnder OnFloor air distribution system (on the unfinished floor)

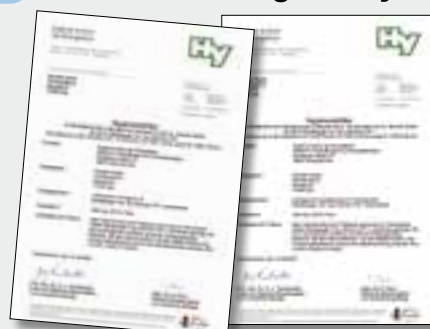


Zehnder InFloor air distribution system (in the unfinished floor)



- Easy to install, flexible pipes
- High-quality food grade plastic (HDPE)
- Clinside smooth inner skin for clean tubes
- Centrally and decentrally adjustable air flow rates
- Low pressure losses
- Easy to clean
- SKZ quality controlled

Clinside Tested cleaning ability



Certificates issued by a recognised hygiene institute.

Benefits

- Optimum oxygen and draught-free air supply promote your health
- Hypo-allergenic
- Filtering out pollutants
- Retention of the property's value by preventing mould from developing in the building's basic structure
- Saves energy through heat recovery
- Protects against outside noise



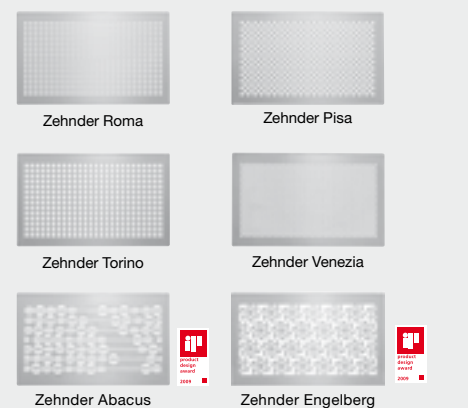
Zehnder ComfoAir ventilation units

- For use in demanding residential and commercial buildings
- Up to 95% heat recovery by cross-counterflow heat exchanger
- Separately controllable EC fans
- 100% automatic summer bypass
- Option: Electric preheater or heat exchanger



Zehnder designer grilles

- Elegant and discreet
- For every interior
- Surface-mounted and flush-mounted version
- Available in white or stainless steel
- Suitable for displacement ventilation



Products plus service package How professionals will benefit:

- Comfortable indoor ventilation: attractive product range and individual system solutions
- Consulting from personal Zehnder contact partner
- Ventilation plan in less than five days
- Project supervision on building site
- Training and support that make you an indoor ventilation expert





Colour system – Decorative radiators for bathrooms



Standard

	Traffic White 9016* / RAL 9016 Code: B1
---	--

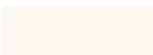
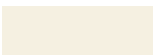
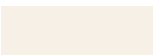
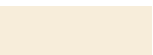
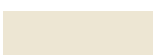
Colour category 1

For prices see the respective price tables on the product pages

Architectural

	Pure White 9010* / RAL 9010 Code: B4		Anthracite Grey 7016* / RAL 7016 Code: AW		Traffic Black 9217 / RAL 9017 Code: B5		Jet Black 9005* / RAL 9005 Code: B3
---	---	---	--	---	---	---	--

Natural

	Edelweiss 0067 Code: 67		Cream 9001* / RAL 9001 Code: AZ		Pergamon 0081* Code: AI		Jasmin 0072 Code: 72
	Oyster White 1013* / RAL 1013 Code: AJ		Grey White 9002* / RAL 9002 Code: B2		Manhattan 0077* Code: A8		Natura 0035* Code: 35
	Bahama 0054* Code: 54		Chocolate Brown 8017* / RAL 8017 Code: AY				

Tonic

	Traffic Yellow 1023* / RAL 1023 Code: AL		Flame Red 3000* / RAL 3000 Code: AN		Ruby Red 3003* / RAL 3003 Code: AO
---	---	---	--	---	---

Colour category 2

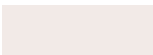
Surcharge on colour category 1: €98,15

All other special colours in the RAL, RAL-D, NCS-S, Sanitary, DB colour systems are also available as required, surcharge on request.

Architectural

	White Matt 0556 Code: DF		White Quartz 0521 Code: DC		White Aluminium 9006* Code: A7		Titane 0335* Code: A5
	Grey Aluminium 9007* Code: A3		Anthracite 0346 Code: A1		Volcanic 0336 Code: A6		Black Matt 0557 Code: DG
	Black Quartz 0550 Code: DD						

Natural

	Chinchilla 0064 Code: 64		Petal 0510* Code: D2		Sand Quartz 0522 Code: BA		Beige Quartz 0523 Code: BB
	Caramel Quartz 0511 Code: D3		Terracotta Quartz 0512 Code: D4		Gold Look 0514* Code: D5		Brown Quartz 0529 Code: BH
	Dark Brown 0847 Code: BK						

Tonic

	Lemon 0515* Code: D6		Orange Quartz 0528 Code: BG		Lichen 8723 / NCS-S-2010-G60Y Code: BQ		Spring Green 0846 Code: BI
	Mauve 0517* Code: D8		Violet 0518* Code: D9		Strawberry 3770 / NCS-S-2065-R20B Code: BN		Dark Purple 0848 Code: BL
	Amethyst Quartz 0516 Code: D7		Pacific Blue 0519 Code: DA		Horizon Blue 0520* Code: DB		Prussian Blue 0555* Code: DE

Highly-polished metal surfaces

For prices, refer to the respective product

	Chrome 0008 Code: CR		Stainless steel brushed		Anodised aluminium 9501 Code: B8		Stainless steel look 0332* Code: A4
---	-----------------------------------	---	--------------------------------	---	---	---	--

Metal look

For prices, refer to the respective product

Explanation

	Colour name Zehnder no. / Colour standard Zehnder EDI code
---	---

* These colours have a glossy finish, all others are matt.

Some colours/surfaces are only available for selected products. Please also see the notes on the respective product pages.
Special colours on request. Due to different manufacturing techniques of the original colours, deviations can occur in colour and polish.
RAL and NCS are markings of the manufacturer. The respective colour code (EDI) is set at the 9th and 10th places in the article no.

ZG_SI-V1215_RAD_PRL_TR2016-€, en, subject to change without notice