Design radiator

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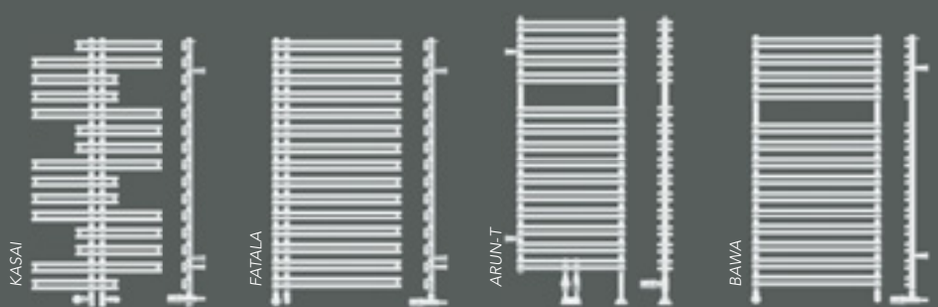
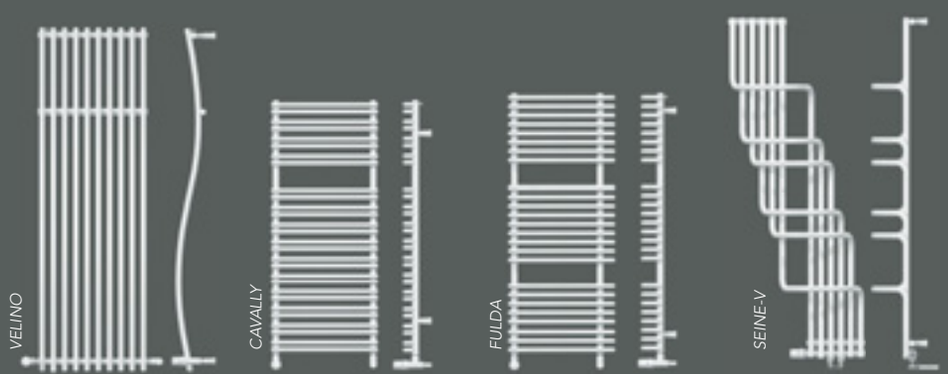


Universal & Modern



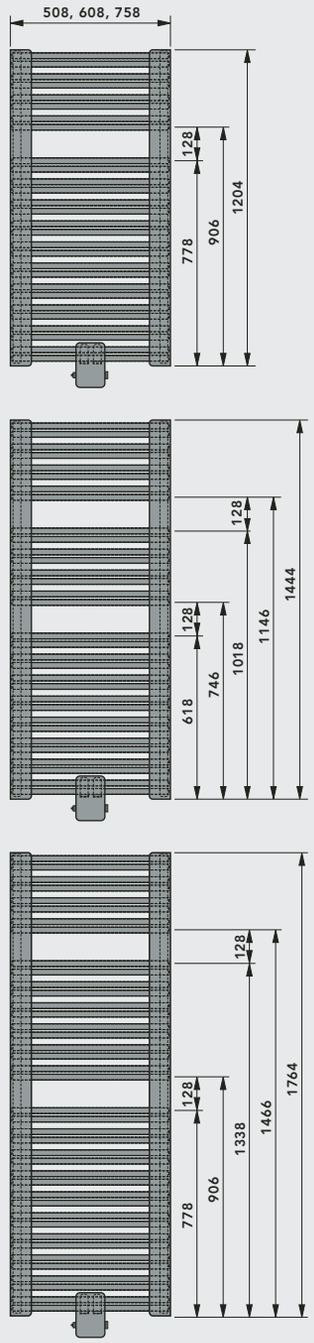
Country house & Classics

Basics

BAWA-VM SPA Design radiator

Technical data

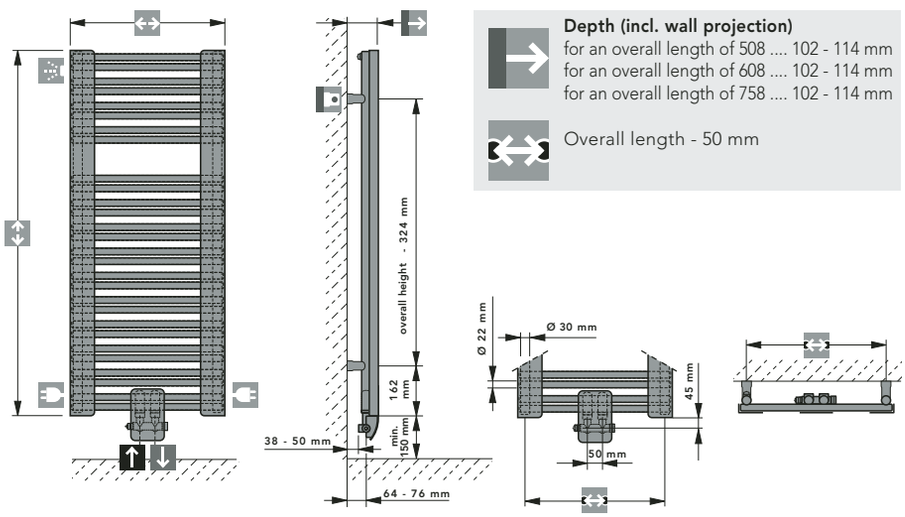
Dimensions [mm]



BAWA-VM SPA

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output [1] in Watts 75/65/20 °C	Radiator exponent n	E-heat element Output [2] Watt	Weight kg	Water content l
1200 (1204)	**508**	629	1,2010	300	14,64	5,40
	608	738	1,2012	300	16,34	6,30
	758	898	1,2014	600	18,89	7,65
1500 (1444)	**508**	747	1,2270	300	17,25	6,58
	608	876	1,2246	600	19,28	7,59
	758	1066	1,2209	600	22,32	9,10
1800 (1764)	**508**	885	1,2605	600	20,63	8,10
	608	1038	1,2546	600	23,08	9,25
	758	1263	1,2458	600	26,76	10,98

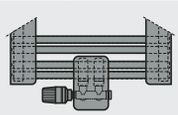
[1] Tested in accordance with ÖNORM EN 442 [2] at 60° C



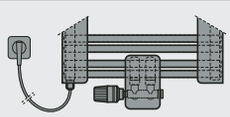
Depth (incl. wall projection)
for an overall length of 508 .... 102 - 114 mm
for an overall length of 608 .... 102 - 114 mm
for an overall length of 758 .... 102 - 114 mm

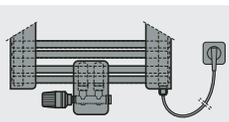
Overall length - 50 mm

Connection example without electric heating element



Connection examples with electric heating element





Connections
2 x external thread G 3/4 (for valve connection set)
2 x internal thread G 1/2 and
1 x internal thread G 1/4 (for vent plugs)
Connection options
In line with drawing

Test overpressure
13 bar

Maximum positive operating pvressure
10 bar

Maximum operating temperature
110 °C

Standard basic configuration, as supplied

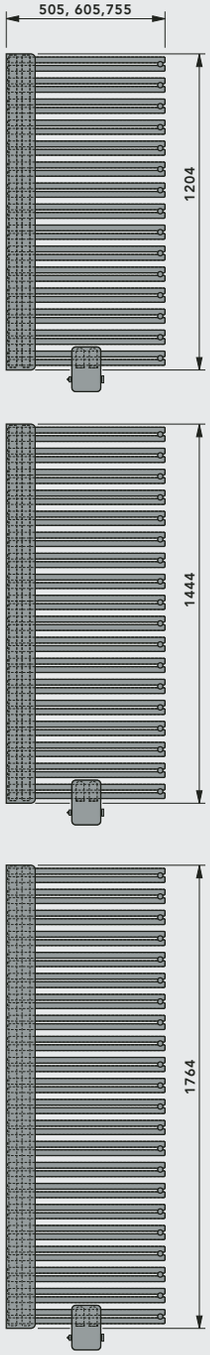
- A pivotable vent plug, G 1/4, and two dummy plugs, G 1/2, nickel-plated brass self-sealing, factory-sealed
- A valve connection set in an angled two-pipe design
- A covering rosette matching the radiator colour
- A wall mounting set matching the radiator colour
- A fitting aid
- An instruction sheet

Accessory: PTC electric heating element
All BAWA-VM SPA radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

FATALA-VM SPA Design radiator

Technical data

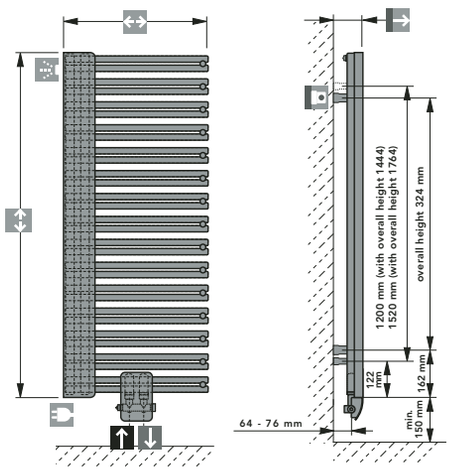
Dimensions [mm]



FATALA-VM SPA

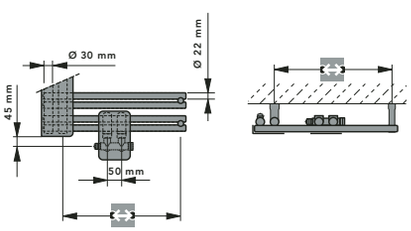
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
1200 (1204)	**505**	583	1,2305	300	15,67	5,55
	605	704	1,2085	300	17,61	6,63
	755	887	1,1754	600	20,52	8,25
1500 (1444)	**505**	699	1,2438	300	18,27	6,45
	605	844	1,2072	600	19,81	7,19
	755	1064	1,1523	600	22,12	8,30
1800 (1764)	**505**	855	1,2436	600	22,12	8,30
	605	1032	1,2213	600	24,96	9,98
	755	1300	1,1878	600	29,22	12,50

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C



Depth (incl. wall projection)
for an overall length of 505 .... 102 - 114 mm
for an overall length of 605 .... 102 - 114 mm
for an overall length of 755 .... 102 - 114 mm

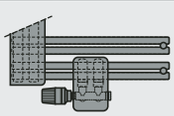
Overall length - 95 mm



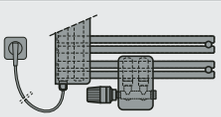
BAWA-VM SPA

FATALA-VM SPA

Connection example without electric heating element



Connection examples with electric heating element



Connections
2 x external thread G 3/4 (for valve connection set)
2 x internal thread G 1/2 and
1 x internal thread G 1/4 (for vent plugs)
Connection options
In line with drawing

Test overpressure
13 bar

Maximum positive operating pvressure
10 bar

Maximum operating temperature
110 °C

Standard basic configuration, as supplied

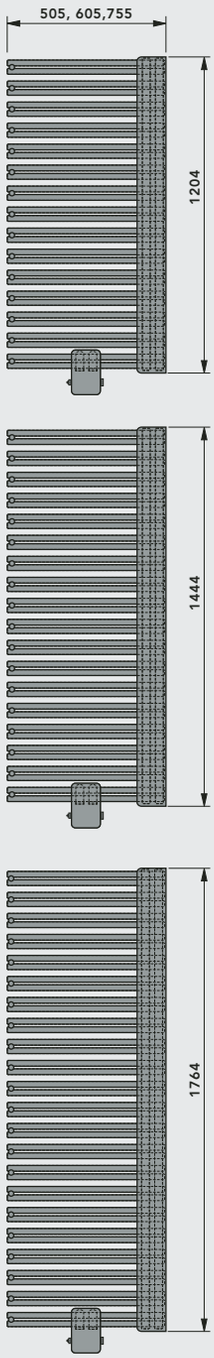
- A pivotable vent plug, G 1/4, and two dummy plugs, G 1/2, nickel-plated brass self-sealing, factory-sealed
- A valve connection set in an angled two-pipe design
- A covering rosette matching the radiator colour
- A wall mounting set matching the radiator colour
- A fitting aid
- An instruction sheet

Accessory: PTC electric heating element
All FATALA-VM SPA radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

FATALA-VM SPA Design radiator, left-side open model

Technical data

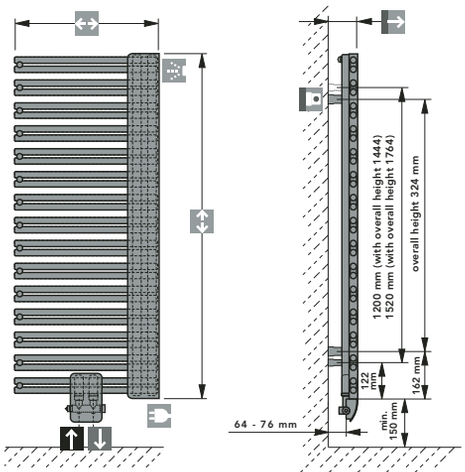
Dimensions [mm]



FATALA-VM SPA Design radiator, left-side open model

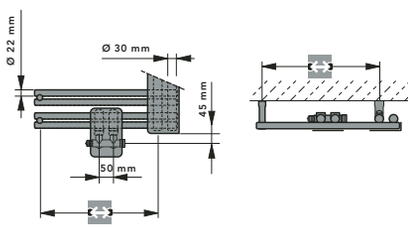
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
1200 (1204)	**505**	583	1,2305	300	15,67	5,55
	605	704	1,2085	300	17,61	6,63
	755	887	1,1754	600	20,52	8,25
1500 (1444)	**505**	699	1,2438	300	18,27	6,45
	605	844	1,2072	600	19,81	7,19
	755	1064	1,1523	600	22,12	8,30
1800 (1764)	**505**	855	1,2436	600	22,12	8,30
	605	1032	1,2213	600	24,96	9,98
	755	1300	1,1878	600	29,22	12,50

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C

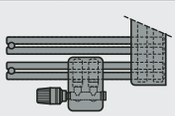


Depth (incl. wall projection)
for an overall length of 505 .... 102 - 114 mm
for an overall length of 605 .... 102 - 114 mm
for an overall length of 755 .... 102 - 114 mm

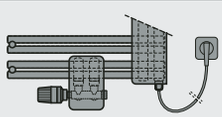
Overall length - 95 mm



Connection example without electric heating element



Connection example with electric heating element



Connections
2 x external thread G 3/4 (for valve connection set)
2 x internal thread G 1/2 and
1 x internal thread G 1/4 (for vent plugs)
Connection options
In line with drawing

Test overpressure
13 bar

Maximum positive operating pvressure
10 bar

Maximum operating temperature
110 °C

Standard basic configuration

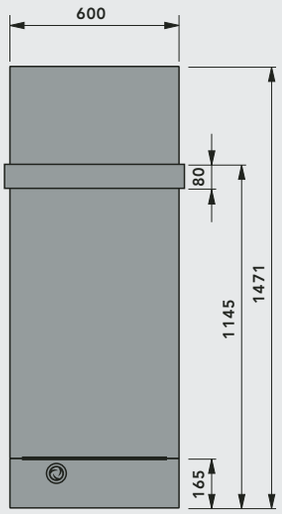
- A pivotable vent plug, G 1/4, and two dummy plugs, G 1/2, nickel-plated brass self-sealing, factory-sealed
- A valve connection set in an angled two-pipe design
- A covering rosette matching the radiator colour
- A wall mounting set matching the radiator colour
- A fitting aid
- An instruction sheet

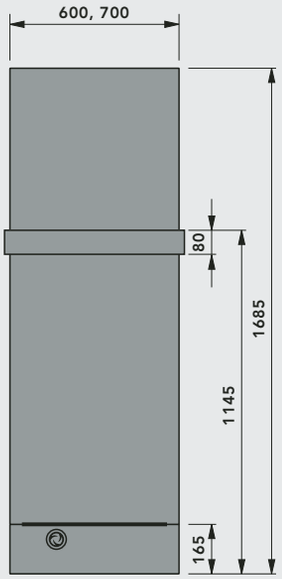
Accessory: PTC electric heating element
All FATALA-VM SPA, left-side open radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

SEWA Design radiator

Technical data

Dimensions [mm]

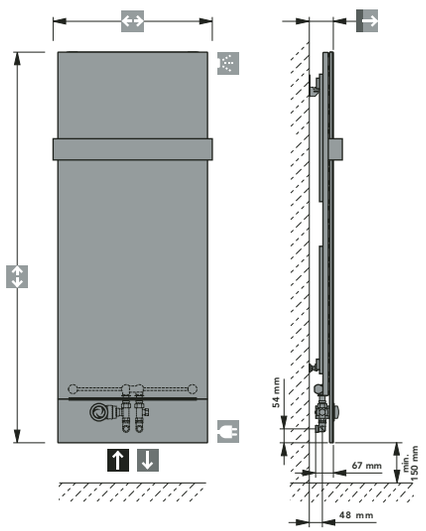




SEWA

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	55/45/20 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
1500 (1471)	**600**	779	637	414	1,239	600	40,0	5,6
1700 (1685)	**600**	914	749	490	1,221	600	46,0	6,5
	700	1045	857	560	1,220	600	52,8	7,5

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C



Overall depth (incl. wall clearance)
for an overall length of 600 .... 90 mm
for an overall length of 700 .... 90 mm

X for an overall length of 600 .... 564 mm
for an overall length of 700 .... 664 mm

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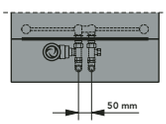
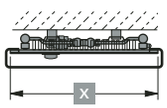
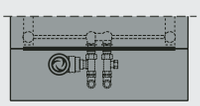




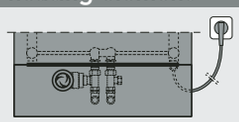
FATALA-VM SPA
left hand design

SEWA

Connection example without electric heating element



Connection example with electric heating element



Connections
2 x G 3/4 External thread
(Valve connection set)
Connection modes
see diagram

Maximum permissible operating pressure
5 bar

Maximum operating temperature
110 °C

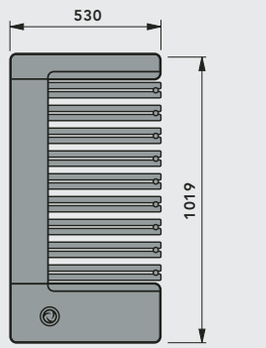
Standard basic configuration
- 1 towel rail
- An integrated valve connection set incl. thermostat head
- A pivotable vent plug, G ¼, and
- A dummy plug, G 3/8, nickel-plated brass, self-sealing, factory-sealed
- A wall mounting set with spacers
- 2 mounting brackets, alternatively: 2 extensions
- Instruction sheet

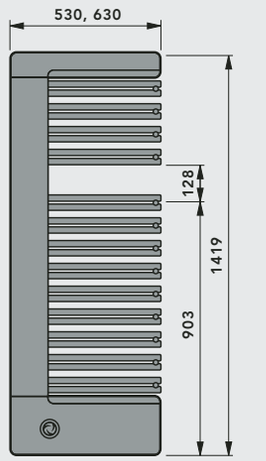
Accessory: PTC electric heating element
All SEWA design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

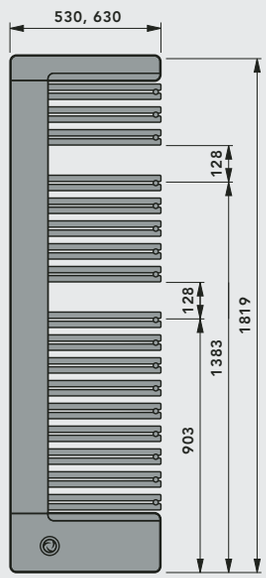
NERO Design radiator

Technical data

Dimensions [mm]



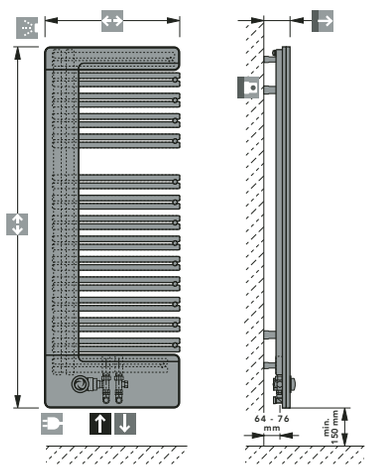




NERO

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	55/45/20 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
1000 (1019)	**530**	451	361	225	1,366	300	17,6	4,1
1400 (1419)	**530**	614	503	327	1,232	300	22,1	5,5
	630	721	590	384	1,218	600	25,0	6,6
1800 (1819)	**530**	794	649	422	1,407	600	27,0	7,2
	630	968	792	515	1,246	600	30,0	8,3

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C



Overall depth (incl. wall clearance)
for an overall length of 530 .... 106 - 118 mm
for an overall length of 630 .... 106 - 118 mm

Overall length - 170 mm

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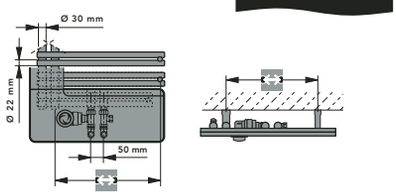
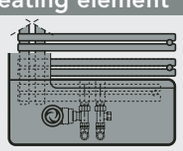
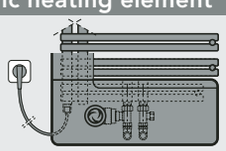


Connection example without electric heating element



Connection example with electric heating element



Connections
2 x G 1/2 Internal thread
1 x G 1/4 Internal thread (for vent plug)
2 x G 3/4 External thread (mounting brackets or extensions)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

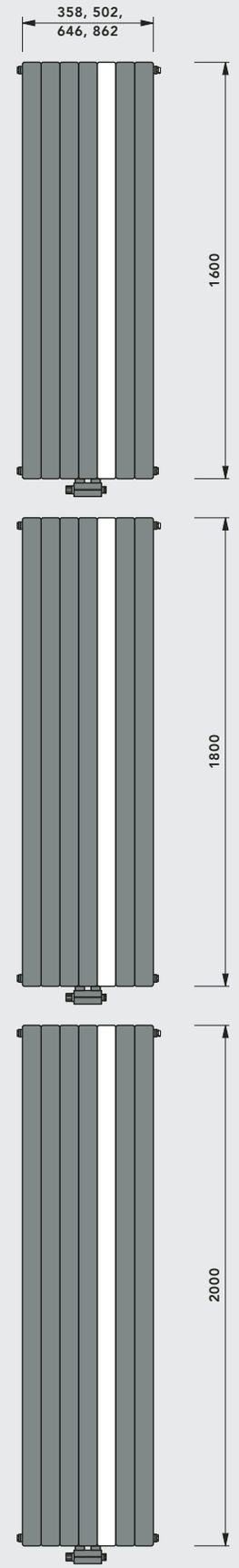
Standard basic configuration
- An integrated valve connection set incl. thermostat head
- A pivotable vent plug, G ¼, nickel-plated, self-sealing, factory-sealed
- A wall mounting set matching the radiator colour
- 2 mounting brackets, alternatively: 2 extensions
- Fitting aid
- Instruction sheet

Accessory: PTC electric heating element
All NERO design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

OHIO VSM Design radiator

Technical data

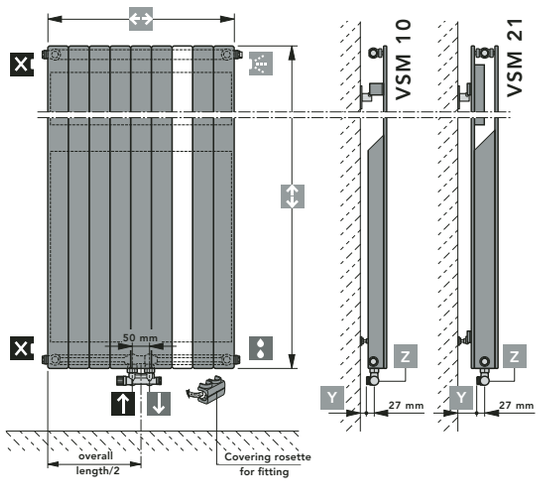
Dimensions [mm]



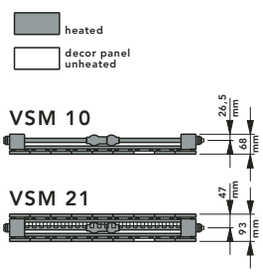
OHIO VSM

Nominal height (Overall height) [mm]	Over-all length [mm]	Heat output (1) in Watts										Radiator exponent n		Weight kg		Water content l	
		75/65/20 °C		70/55/20 °C		70/55/24 °C		55/45/20 °C		55/45/24 °C							
[mm]	[mm]	VSM 10	VSM 21	VSM 10	VSM 21	VSM 10	VSM 21	VSM 10	VSM 21	VSM 10	VSM 21	VSM 10	VSM 21	VSM 10	VSM 21	VSM 10	VSM 21
1600 (1600)	358	622	1140	495	907	426	779	304	556	246	449	1,399	1,404	15,9	37,4	4,1	8,1
	502	872	1598	695	1272	597	1092	427	780	345	630	1,399	1,404	22,3	52,4	5,7	11,4
	646	1123	2057	895	1637	769	1406	549	1004	444	811	1,399	1,404	28,7	67,4	7,3	14,7
	862	1498	2745	1193	2185	1025	1877	733	1340	592	1082	1,399	1,404	38,3	90,0	9,8	19,6
1800 (1800)	358	708	1285	564	1024	484	880	346	630	280	509	1,401	1,397	17,8	41,0	4,5	8,7
	502	993	1801	791	1435	679	1234	486	882	392	713	1,401	1,397	24,9	57,4	6,3	12,2
	646	1278	2318	1018	1847	875	1588	625	1136	505	918	1,401	1,397	32,0	73,9	8,1	15,7
	862	1706	3093	1359	2465	1167	2119	834	1515	674	1225	1,401	1,397	42,8	98,6	10,8	21,0
2000 (2000)	358	799	1436	637	1147	548	988	393	709	318	575	1,390	1,381	19,6	44,5	5,0	9,9
	502	1120	2014	894	1609	769	1386	551	995	446	806	1,390	1,381	27,5	62,5	7,0	13,9
	646	1442	2592	1150	2071	990	1783	709	1280	574	1038	1,390	1,381	35,4	80,4	9,0	17,9
	862	1924	3458	1535	2763	1320	2379	946	1708	766	1384	1,390	1,381	47,2	107,3	11,9	23,9

(1) Tested in accordance with ÖNORM EN 442



Z Connection fitting
Two-pipe operation – angled design



Connections
2 x G 3/4 External thread (bottom centre)
Connection modes
see diagram

Maximum operating temperature
110 °C

Maximum positive operating pressure
Standard design:
5 bar

Maximum positive operating pressure
High-pressure design
(supplement of 10 %): 8 bar

Standard basic configuration

- A drain plug, G ½, and
- A pivotable vent plug, G ½, nickel-plated brass, self-sealing, factory-sealed
- A valve connection set with angled two-pipe design
- Covering rosette in matching radiator colour
- Instruction sheet

Angled connection fitting Z		
Mounting	Model	Dimension Y
*	VSM 10	*
WA 11	VSM 21	63 mm

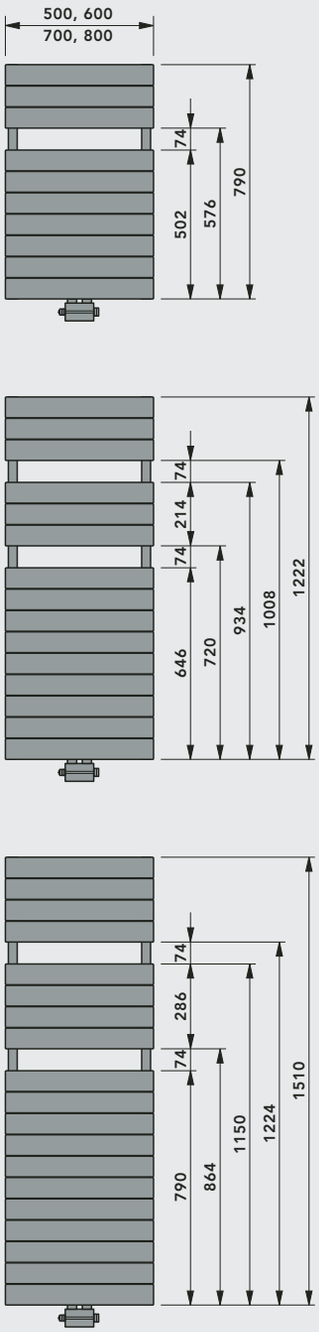
Note:
VSM models are only available with welded-on brackets.

- For the installation of the VSM 21 model use the WA 11 wall fastening set.
- *For the installation of the VSM 10 model with the angled connection fitting Z, please use the appropriate drill consoles or angled fastening set in order to obtain the necessary wall clearance.

LOWA VM Design radiator

Technical data

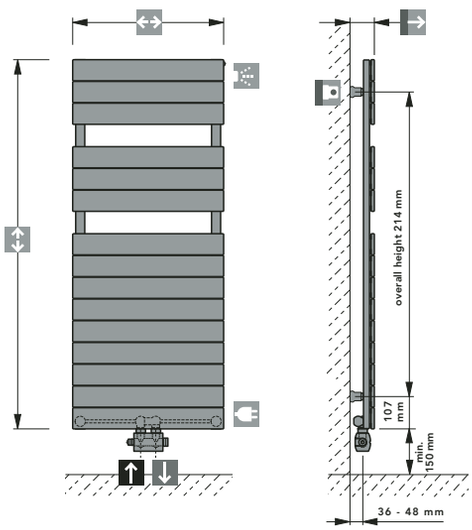
Dimensions [mm]



LOWA VM

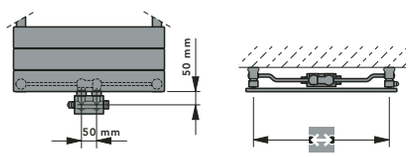
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
800 (790)	500	416	341	299	223	185	1,223	300	12,6	3,0
	600	487	400	350	262	217	1,217	300	14,5	3,5
	700	557	457	401	300	250	1,211	300	16,4	4,0
	800	626	515	452	338	282	1,205	300	18,3	4,5
1250 (1222)	500	608	498	435	324	268	1,233	300	18,8	4,5
	600	713	585	512	382	317	1,221	300	21,6	5,2
	700	815	670	587	439	365	1,210	600	24,4	5,9
	800	915	753	661	496	413	1,198	600	27,2	6,6
1500 (1510)	500	727	595	520	387	321	1,234	600	23,5	5,7
	600	852	696	609	452	374	1,242	600	27,1	6,6
	700	974	795	694	514	425	1,250	600	30,7	7,5
	800	1094	892	778	575	475	1,258	600	34,3	8,4

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C

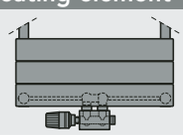


Overall depth (incl. wall clearance)
for an overall length of 500 .... 75 - 87 mm
for an overall length of 600 .... 75 - 87 mm
for an overall length of 700 .... 75 - 87 mm
for an overall length of 800 .... 75 - 87 mm

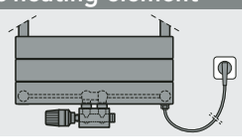
Overall length - 40 mm



Connection example without electric heating element



Connection example with electric heating element



Connections
2 x G 3/4 External thread (Valve connection set)
1 x G 3/8 Internal thread and
1 x G 1/4 Internal thread (for vent plug)
Connection modes
see diagram

Maximum positive operating pressure
5 bar

Maximum operating temperature
110 °C

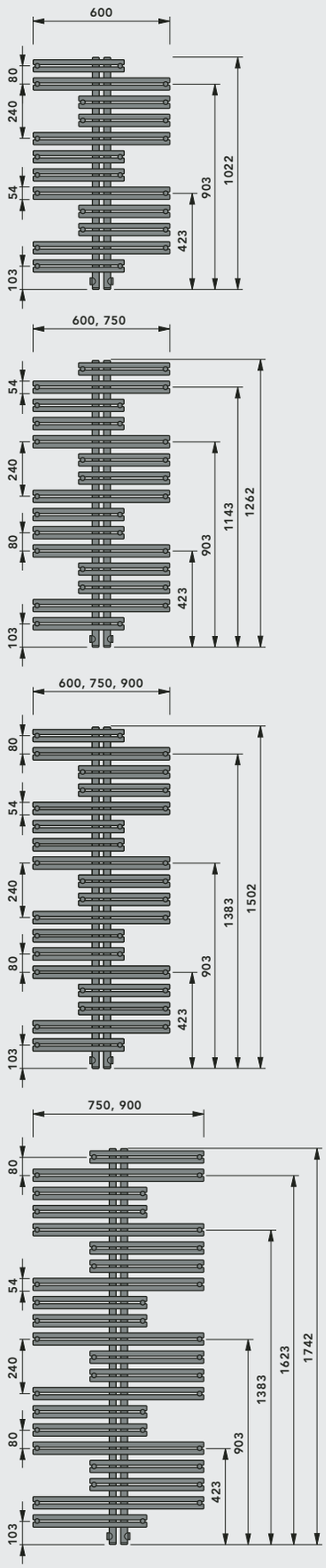
Standard basic configuration
- A pivotable vent plug, G 1/4, and
- A dummy plug, G 3/8, nickel-plated brass, self-sealing, factory-sealed
- Valve connection set in an angled two-pipe design
- Covering rosette in matching radiator colour
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

Accessory: PTC electric heating element G 3/8
All Design radiators with flat tubes which are fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

KASAI Design radiator

Technical data

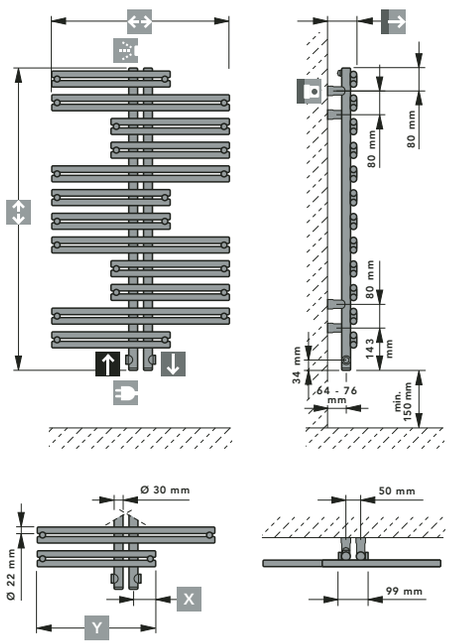
Dimensions [mm]



KASAI

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
1000 (1022)	600	499	407	355	262	217	1,259	300	10,6	4,4
1300 (1262)	600	613	500	437	323	267	1,253	300	13,3	5,3
	750	739	606	530	395	328	1,225	600	15,7	5,7
1500 (1502)	600	724	591	516	383	317	1,247	600	16,0	6,1
	750	870	711	622	462	383	1,238	600	18,7	6,7
	900	1030	843	738	549	455	1,232	600	21,6	7,6
1800 (1742)	750	1008	822	718	532	440	1,252	600	21,7	7,7
	900	1194	976	854	634	525	1,239	600	24,9	9,2

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C



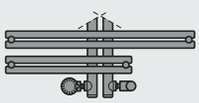
Overall depth (incl. wall clearance)
for an overall length of 600 .... 97 - 109 mm
for an overall length of 750 .... 97 - 109 mm
for an overall length of 900 .... 97 - 109 mm

Mounting nozzle
With overall heights of 1000 and 1500 mm, the 2 mounting nozzles on top are rotated 90°!

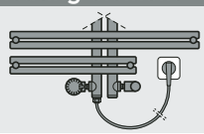
X
for an overall length of 600 .... 75 mm
for an overall length of 750 .... 100 mm
for an overall length of 900 .... 125 mm

Y
for an overall length of 600 .... 400 mm
for an overall length of 750 .... 500 mm
for an overall length of 900 .... 600 mm

Connection example without electric heating element



Connection example with electric heating element



Connections
4 x G 1/2 Internal thread and
1 x G 1/4 Internal thread (for vent plug)
Connection modes
see diagram

13 bar
Test overpressure
13 bar

10 bar max.
Maximum positive operating pressure
10 bar

max.
Maximum operating temperature
110 °C

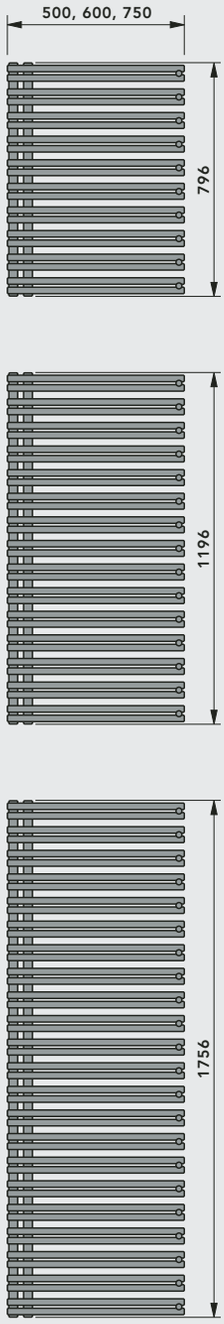
Accessory: PTC electric heating element
KASAI design radiators equipped with an electric heating element can also be used at times when the regular heating system is switched off. It is absolutely necessary to take account of the power-ratings assigned to the electric heating elements.

Standard basic configuration
- A pivotable vent plug, G 1/4, and two dummy plugs, G 1/2, nickel-plated brass, self-sealing
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

FATALA Design radiator

Technical data

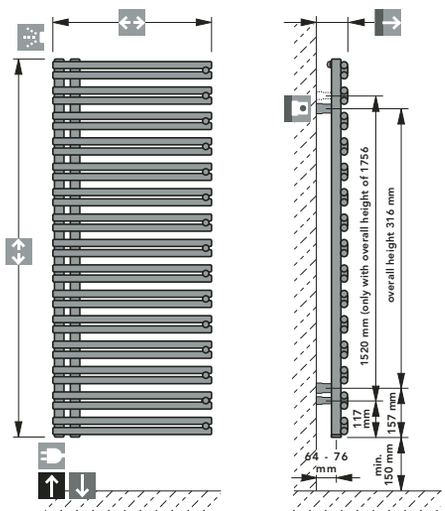
Dimensions [mm]



FATALA

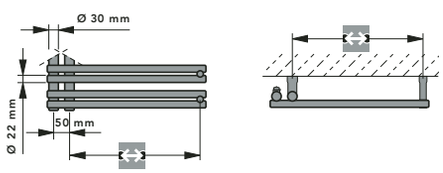
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
800 (796)	500	446	368	323	243	203	1,189	300	8,8	3,8
	600	530	437	384	289	241	1,189	300	10,0	4,3
	750	653	538	473	356	297	1,189	300	11,9	5,0
1200 (1196)	500	650	535	469	352	293	1,202	300	12,9	5,9
	600	773	636	558	418	348	1,202	600	14,8	6,7
	750	955	786	690	517	430	1,202	600	17,6	8,0
1800 (1756)	500	897	733	641	476	394	1,241	600	19,2	8,0
	600	1081	883	772	573	475	1,241	600	21,8	9,5
	750	1357	1109	969	720	596	1,241	900	25,7	11,7

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C

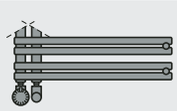


Overall depth (incl. wall clearance)
for an overall length of 500 .... 97 - 109 mm
for an overall length of 600 .... 97 - 109 mm
for an overall length of 750 .... 97 - 109 mm

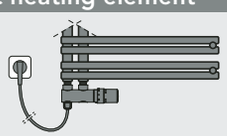
Overall length - 90 mm



Connection example without electric heating element



Connection example with electric heating element



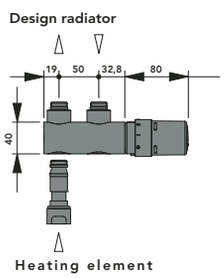
Connections
2 x G 1/2 Internal thread (bottom left) and 1 x G 1/4 Internal thread (for vent plug)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

A special adapter (chrome-plated) should be used for the electric heating insert with the FATALA Design radiator!



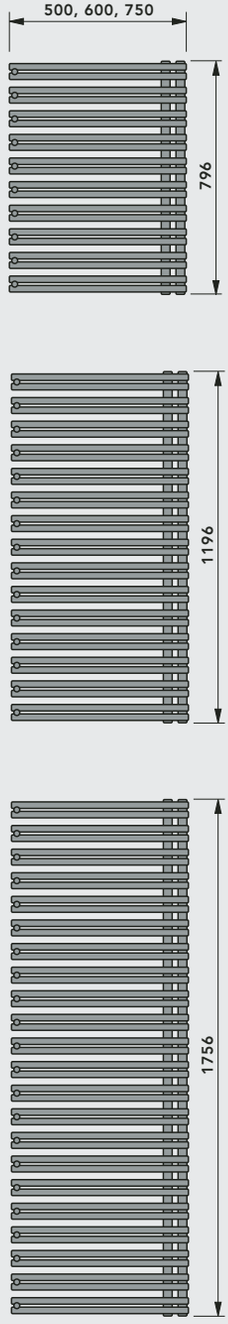
Accessory: PTC electric heating element
All FATALA design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

Standard basic configuration
- A pivotable vent plug, G 1/4, nickel-plated, self-sealing
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

FATALA Design radiator left hand design

Technical data

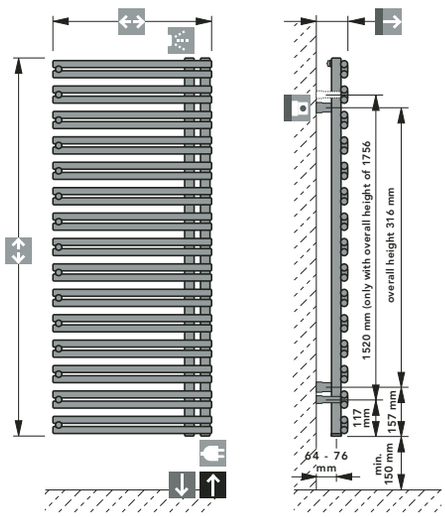
Dimensions [mm]



FATALA left hand design

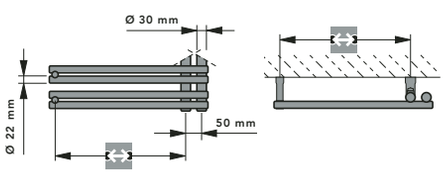
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
800 (796)	500	446	368	323	243	203	1,189	300	8,8	3,8
	600	530	437	384	289	241	1,189	300	10,0	4,3
	750	653	538	473	356	297	1,189	300	11,9	5,0
1200 (1196)	500	650	535	469	352	293	1,202	300	12,9	5,9
	600	773	636	558	418	348	1,202	600	14,8	6,7
	750	955	786	690	517	430	1,202	600	17,6	8,0
1800 (1756)	500	897	733	641	476	394	1,241	600	19,2	8,0
	600	1081	883	772	573	475	1,241	600	21,8	9,5
	750	1357	1109	969	720	596	1,241	900	25,7	11,7

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C

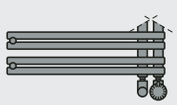


Overall depth (incl. wall clearance)
for an overall length of 500 .... 97 - 109 mm
for an overall length of 600 .... 97 - 109 mm
for an overall length of 750 .... 97 - 109 mm

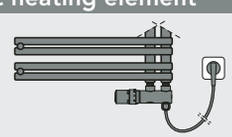
Overall length - 90 mm



Connection example without electric heating element



Connection example with electric heating element



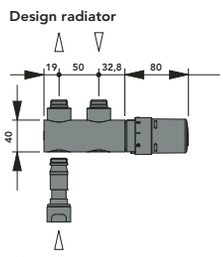
Connections
2 x G 1/2 Internal thread (bottom left) and 1 x G 1/4 Internal thread (for vent plug)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

A special adapter (chrome-plated) should be used for the electric heating insert with the FATALA Design radiator!



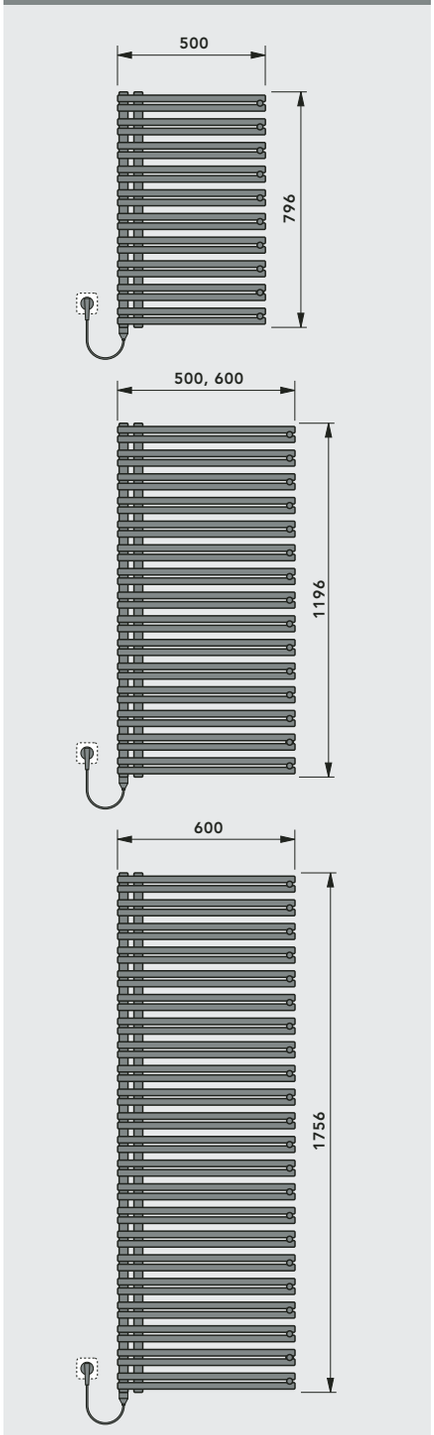
Accessory: PTC electric heating element
All FATALA left hand design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

Standard basic configuration
- A pivotable vent plug, G 1/4, nickel-plated, self-sealing
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

FATALA Design radiator Electrical design

Technical data

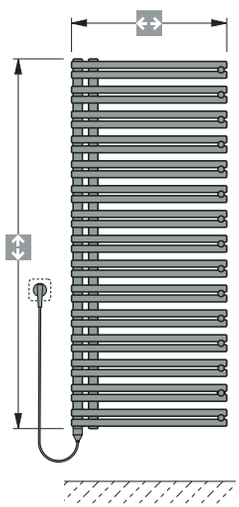
Dimensions [mm]

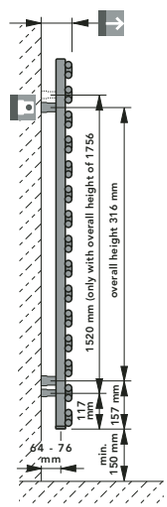


FATALA Electrical design

Nominal height (Overall height) [mm]	Overall length [mm]	Nominal power [2] Watt	Nominal voltage [V]	Protection mode	Weight kg
800 (796)	**500**	300	AC 230	IP 24	12,6
1200 (1196)	**500** **600**	400 600	AC 230 AC 230	IP 24 IP 24	18,7 21,4
1800 (1756)	**600**	900	AC 230	IP 24	31,1

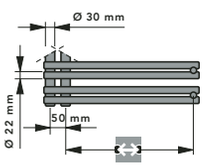
[2] at 60° C

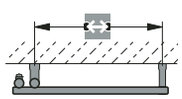




Overall depth (incl. wall clearance)
for an overall length of 500 .... 97 - 109 mm
for an overall length of 600 .... 97 - 109 mm

Overall length - 90 mm





Description
With their built-in electric heating, the electric radiators of the FATALA-E family are elegant Design and bathroom radiators.

Self-regulation effect – the temperature-dependent PTC heating element automatically controls the temperature of the heat-transfer liquid by modifying its electrical resistance.

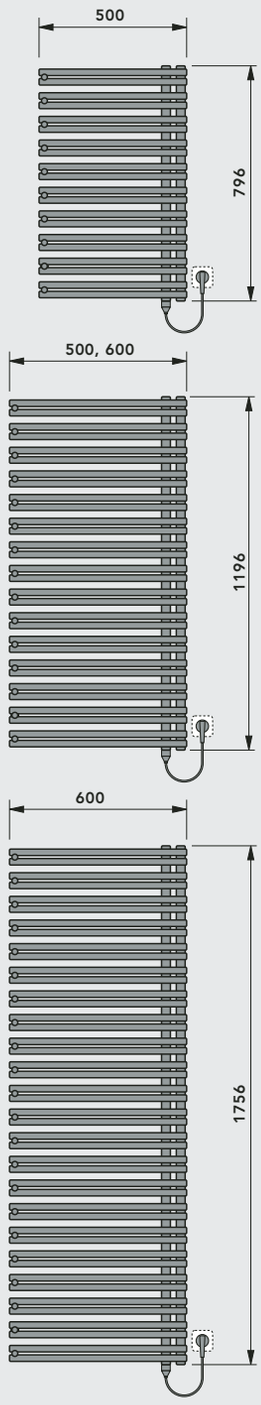
Standard basic configuration:
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

ÖVE tested

FATALA Design radiator left hand design-Electrical design

Technical data

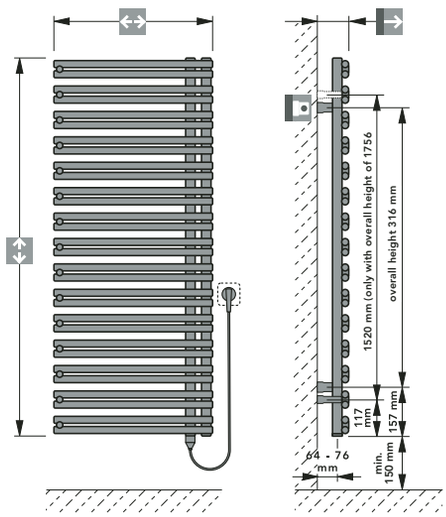
Dimensions [mm]



FATALA left hand design-Electrical design

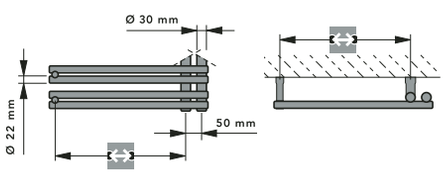
Nominal height (Overall height) [mm]	Overall length [mm]	Nominal power [2] Watt	Nominal voltage [V]	Protection mode	Weight kg
800 (796)	**500**	300	AC 230	IP 24	12,6
1200 (1196)	**500** **600**	400 600	AC 230 AC 230	IP 24 IP 24	18,7 21,4
1800 (1756)	**600**	900	AC 230	IP 24	31,1

[2] at 60° C



Overall depth (incl. wall clearance)
for an overall length of 500 .... 97 - 109 mm
for an overall length of 600 .... 97 - 109 mm

Overall length - 90 mm



FATALA electrical design

FATALA left hand design, Electrical design

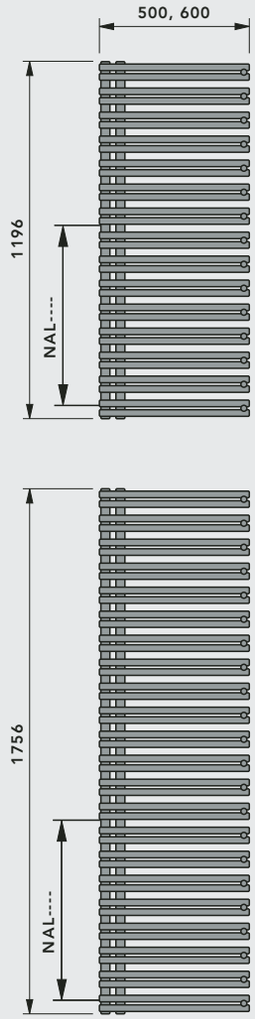
Description
With their built-in electric heating, the electric radiators of the FATALA-E, left-hand design family are elegant Design and bathroom radiators.

Self-regulation effect – the temperature-dependent PTC heating element automatically controls the temperature of the heat-transfer liquid by modifying its electrical resistance.

Standard basic configuration:
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

ÖVE tested

Connection modes [mm]



Connection on the left-hand side NAL

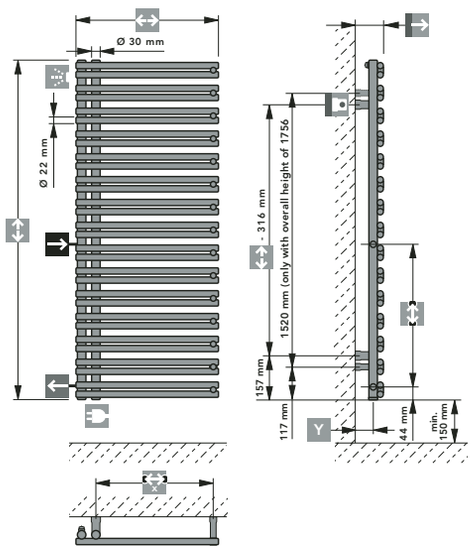
NAL0500, NAL0446
NAL0900, NAL0546
NAL1000, NAL0846
NAL0946

NAL0560
NAL0960

FATALA Replacement radiators

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output [1] in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output [2] Watt	Weight kg	Water content l
1200 (1196)	**500**	650	535	469	352	293	1,202	300	12,9	5,9
	600	773	636	558	418	348	1,202	600	14,8	6,7
1800 (1756)	**500**	897	733	641	476	394	1,241	600	19,2	8,0
	600	1081	883	772	573	475	1,241	600	21,8	9,5

[1] Tested in accordance with ÖNORM EN 442 [2] at 60° C



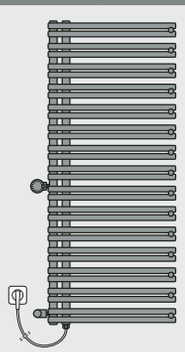
X Overall length -90 mm

Y **Connection dimensions**
without distance holders... 64 - 76
with 1 distance holder set... 76 - 88
with 2 distance holder sets... 88 - 100
with 3 distance holder sets... 100 - 112

Overall depth (incl. wall clearance)
without distance holders... 97 - 109
with 1 distance holder set... 109 - 121
with 2 distance holder sets... 121 - 133
with 3 distance holder sets... 133 - 145

Boss spacing
500, 900, 1000,
446, 546, 846, 946, 560 and 960 mm
Other centre distances upon request.

Connection examples using an electronic heating element

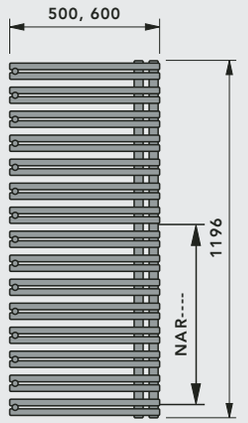


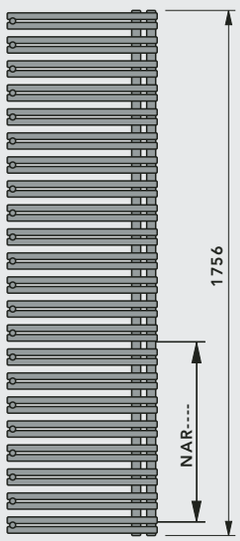
Standard basic configuration:
- Pivotable vent plug, nickel plated brass G 1/4, self-sealing, and 2 dummy plugs G 1/2
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

FATALA Replacement radiators left hand design

Technical data

Connection modes [mm]





Connection on the right-hand side NAR

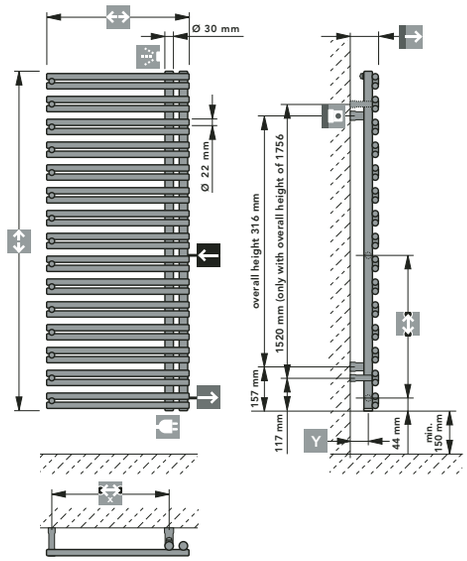
NAR0500, NAR0446
NAR0900, NAR0546
NAR1000, NAR0846
NAR0946

NAR0560
NAR0960

FATALA Replacement radiators left hand design

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output [1] in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output [2] Watt	Weight kg	Water content l
1200 (1196)	**500**	650	535	469	352	293	1,202	300	12,9	5,9
	600	773	636	558	418	348	1,202	600	14,8	6,7
1800 (1756)	**500**	897	733	641	476	394	1,241	600	19,2	8,0
	600	1081	883	772	573	475	1,241	600	21,8	9,5

[1] Tested in accordance with ÖNORM EN 442 [2] at 60° C



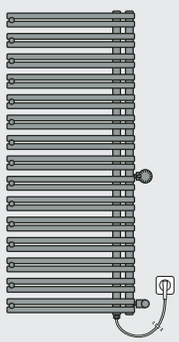
Overall length -90 mm

Connection dimensions
without distance holders... 64 - 76
with 1 distance holder set... 76 - 88
with 2 distance holder sets... 88 - 100
with 3 distance holder sets... 100 - 112

Overall depth (incl. wall clearance)
without distance holders... 97 - 109
with 1 distance holder set... 109 - 121
with 2 distance holder sets... 121 - 133
with 3 distance holder sets... 133 - 145

Boss spacing
500, 900, 1000,
446, 546, 846, 946, 560 and 960 mm
Other centre distances upon request.

Connection examples using an electronic heating element

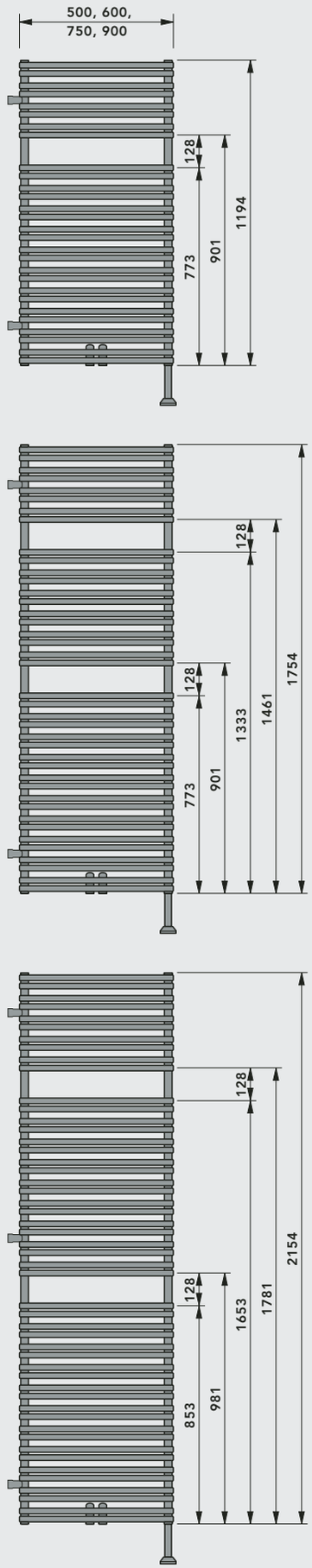


Standard basic configuration:
- Pivotable vent plug, nickel plated brass G 1/4, self-sealing, and 2 dummy plugs G 1/2
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

ARUN-T Design radiator

Technical data

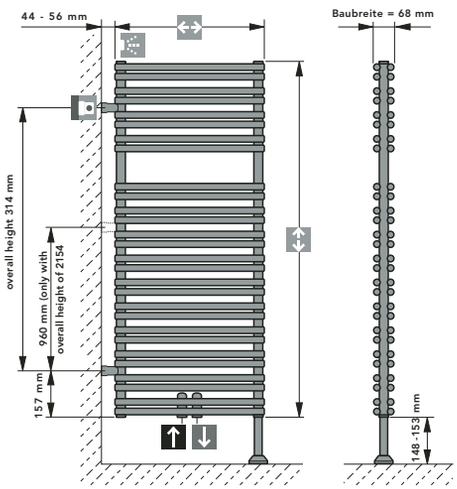
Dimensions [mm]



ARUN-T

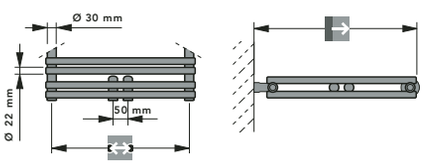
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	Weight kg	Water content l
1200 (1194)	500	885	721	628	464	382	1,265	20,8	9,4
	600	1061	866	756	560	463	1,251	24,2	11,2
	750	1326	1086	950	708	587	1,229	29,4	14,0
	900	1590	1307	1146	858	714	1,208	34,4	16,6
1800 (1754)	500	1222	994	865	638	525	1,274	28,8	14,2
	600	1466	1195	1043	771	637	1,258	34,9	16,6
	750	1831	1498	1311	975	808	1,233	42,1	20,0
	900	2196	1804	1583	1184	985	1,209	49,5	23,4
2200 (2154)	500	1445	1164	1008	733	598	1,330	37,1	17,3
	600	1724	1389	1202	874	714	1,330	43,3	20,4
	750	2145	1728	1496	1087	888	1,330	52,5	25,1
	900	2560	2062	1786	1298	1060	1,330	61,6	29,5

(1) Tested in accordance with ÖNORM EN 442

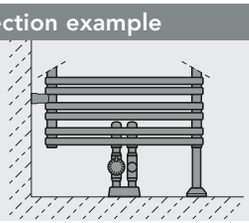


Overall depth (incl. wall clearance)
for an overall length of 500 .... 544 - 556 mm
for an overall length of 600 .... 644 - 656 mm
for an overall length of 750 .... 794 - 806 mm
for an overall length of 900 .... 944 - 956 mm

Overall length - 40 mm



Connection example



Connections
5 x G 1/2 Internal thread and
1 x G 1/2 Internal thread blind sleeve for floor fastening
Connection modes see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

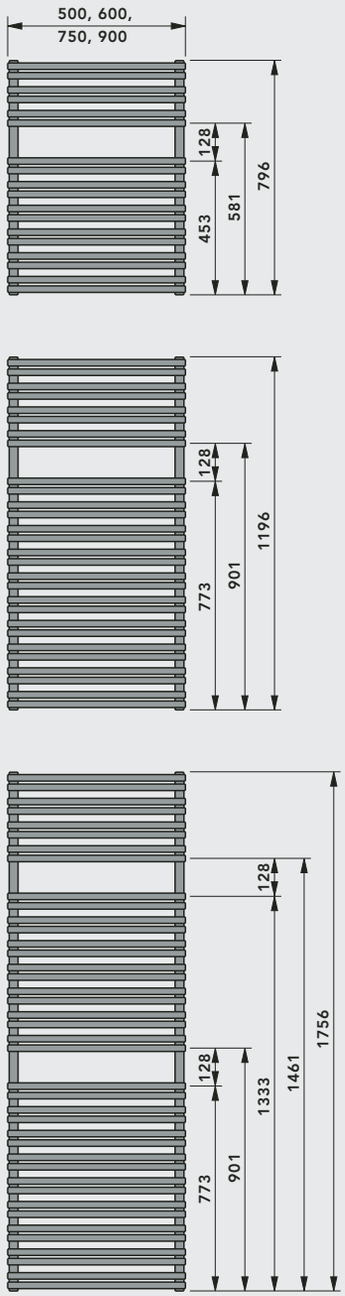
Maximum operating temperature
110 °C

Standard basic configuration
- A pivotable vent plug, G 1/2, and two dummy plugs, G 1/2, nickel-plated brass, self-sealing
- A wall and floor fastening set matching the radiator colour
- Fitting aid
- Instruction sheet

BAWA Design radiator

Technical data

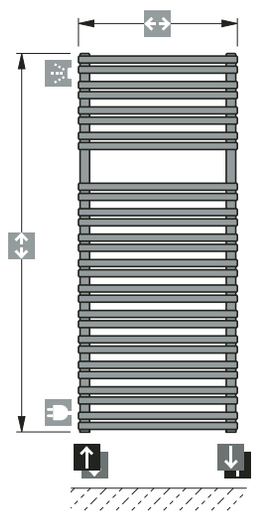
Dimensions [mm]

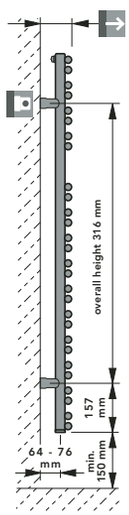


BAWA

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
800 (796)	500	420	340	299	225	187	1,1888	300	7,7	3,6
	600	493	401	353	265	221	1,1897	300	8,8	4,1
	750	600	491	432	324	271	1,1911	300	10,5	4,9
	900	704	580	510	383	320	1,1924	300	12,1	5,7
1200 (1196)	500	629	531	466	348	290	1,2010	300	11,8	5,4
	600	738	617	541	404	336	1,2012	600	13,5	6,3
	750	898	740	649	485	403	1,2014	600	16,1	7,7
	900	1053	859	753	563	468	1,2017	600	18,6	9,0
1800 (1756)	500	885	717	626	464	384	1,2605	600	16,9	8,1
	600	1038	846	739	548	453	1,2546	600	19,4	9,3
	750	1263	1036	905	671	555	1,2458	900	23,0	11,0
	900	1482	1222	1068	791	654	1,2370	900	26,7	12,7

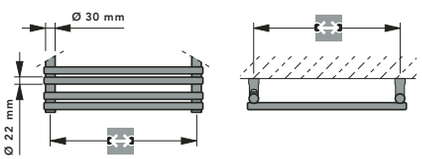
(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C





Overall depth (incl. wall clearance)
for an overall length of 500 .... 97 - 109 mm
for an overall length of 600 .... 97 - 109 mm
for an overall length of 750 .... 97 - 109 mm
for an overall length of 900 .... 97 - 109 mm

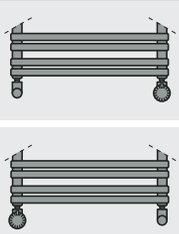
Boss spacing
Overall length - 40 mm



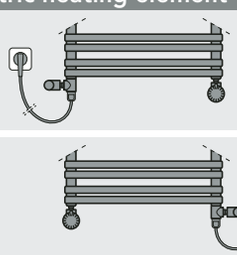
ARUN-T

BAWA

Connection example without electric heating element



Connection example with electric heating element



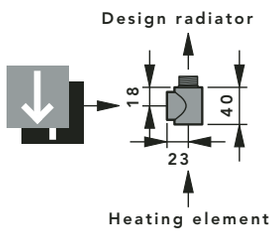
Connections
2 x G 1/2 Internal thread and
1 x G 1/4 Internal thread (for vent plug)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

A special adapter (chrome-plated) should be used for the electric heating insert with the BAWA Design radiator!



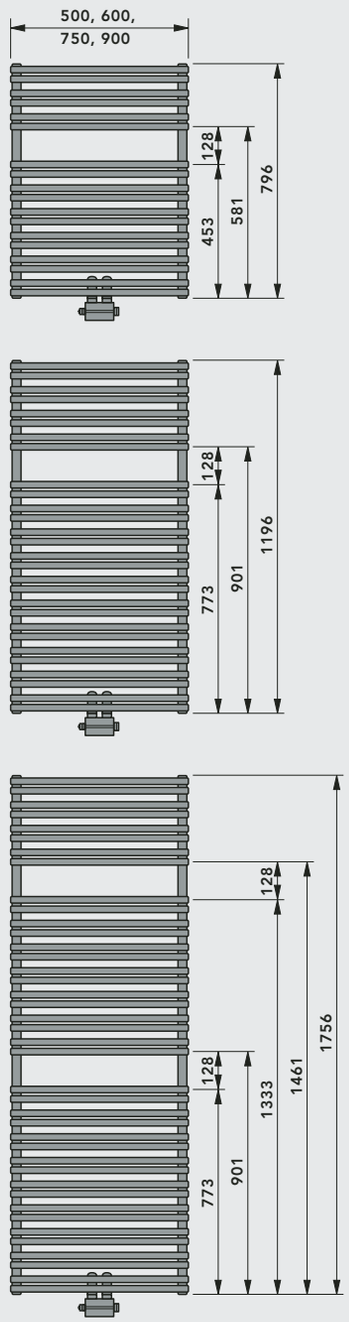
Accessory: PTC electric heating element
All BAWA design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

Standard basic configuration
- A pivotable vent plug, G 1/4, nickel-plated brass, self-sealing
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

BAWA-VM Design radiator

Technical data

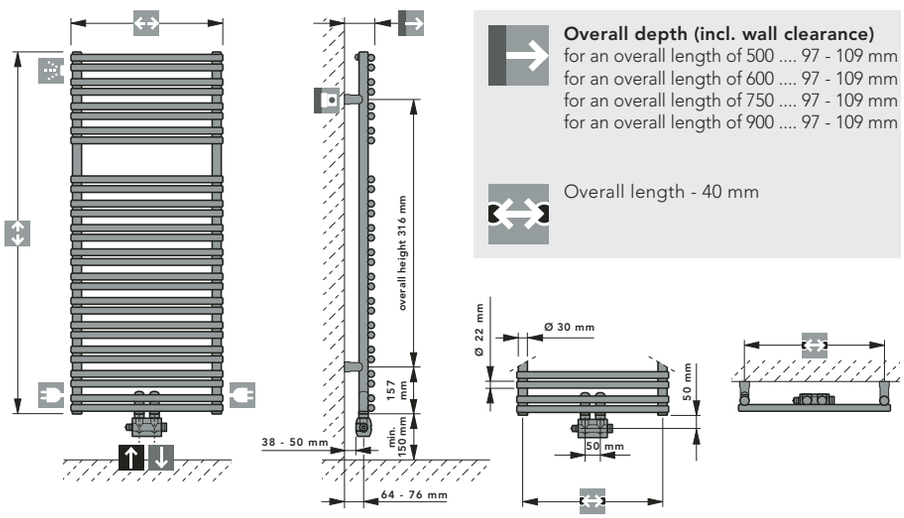
Dimensions [mm]



BAWA-VM

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
800 (796)	**500**	420	340	299	225	187	1,1888	300	7,7	3,6
	600	493	401	353	265	221	1,1897	300	8,8	4,1
	750	600	491	432	324	271	1,1911	300	10,5	4,9
	900	704	580	510	383	320	1,1924	300	12,1	5,7
1200 (1196)	**500**	629	531	466	348	290	1,2010	300	11,8	5,4
	600	738	617	541	404	336	1,2012	600	13,5	6,3
	750	898	740	649	485	403	1,2014	600	16,1	7,7
	900	1053	859	753	563	468	1,2017	600	18,6	9,0
1800 (1756)	**500**	885	717	626	464	384	1,2605	600	16,9	8,1
	600	1038	846	739	548	453	1,2546	600	19,4	9,3
	750	1263	1036	905	671	555	1,2458	900	23,0	11,0
	900	1482	1222	1068	791	654	1,2370	900	26,7	12,7

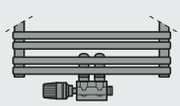
(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C



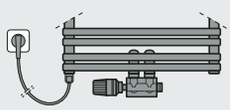
Overall depth (incl. wall clearance)
for an overall length of 500 .... 97 - 109 mm
for an overall length of 600 .... 97 - 109 mm
for an overall length of 750 .... 97 - 109 mm
for an overall length of 900 .... 97 - 109 mm

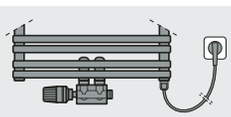
Overall length - 40 mm

Connection example without electric heating element



Connection example with electric heating element





Connections
2 x G 3/4 External thread (valve connection set),
2 x G 1/2 Internal thread and
1 x G 1/4 Internal thread (for vent plug)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

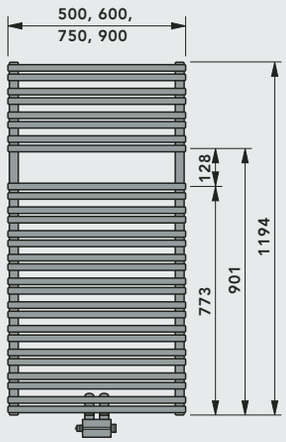
Standard basic configuration
- A pivotable vent plug, G 1/4, and two dummy plugs, G 1/2, nickel-plated brass self-sealing, factory-sealed
- Valve connection set in an angled two-pipe design
- Covering rosette in matching radiator colour
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

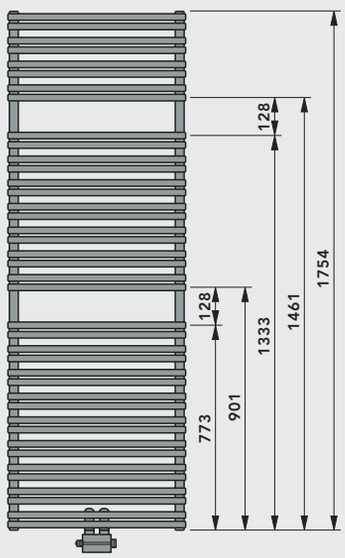
Accessory: PTC electric heating element
All BAWA-VM design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

BAWA-T VM Design radiator

Technical data

Dimensions [mm]

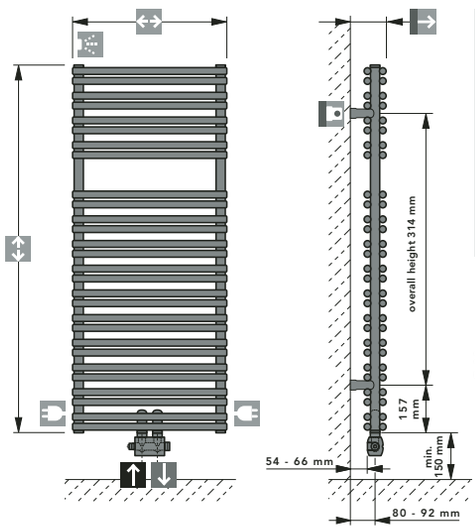




BAWA-T VM

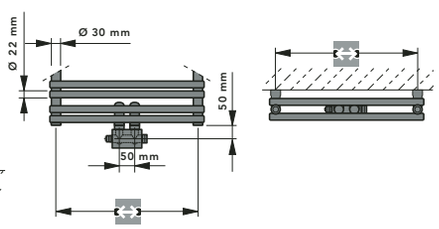
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
1200 (1196)	500	885	721	628	464	382	1,265	600	21,6	9,2
	600	1061	866	756	560	463	1,251	600	25,0	10,9
	750	1326	1086	950	708	587	1,229	600	30,1	13,3
	900	1590	1307	1146	858	714	1,208	900	35,2	15,8
1800 (1756)	500	1222	994	865	638	525	1,274	600	30,8	13,1
	600	1466	1195	1043	771	637	1,258	900	35,7	15,6
	750	1831	1498	1311	975	808	1,233	900	43,1	19,3
	900	2196	1804	1583	1184	985	1,209	900	50,5	23,0

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C



Overall depth (incl. wall clearance)
for an overall length of 500 .... 113 - 125 mm
for an overall length of 600 .... 113 - 125 mm
for an overall length of 750 .... 113 - 125 mm
for an overall length of 900 .... 113 - 125 mm

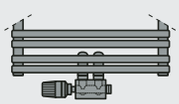
Overall length - 40 mm



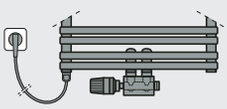
BAWA-VM

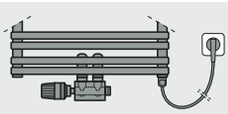
BAWA-T VM

Connection example without electric heating element



Connection example with electric heating element





Connections
2 x G 3/4 External thread (valve connection set) and 4 x G 1/2 Internal thread
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

Standard basic configuration
- A pivotable vent plug, G 1/2, and three dummy plugs, G 1/2, nickel-plated brass self-sealing, factory-sealed
- Valve connection set in an angled two-pipe design
- Covering rosette in matching radiator colour
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

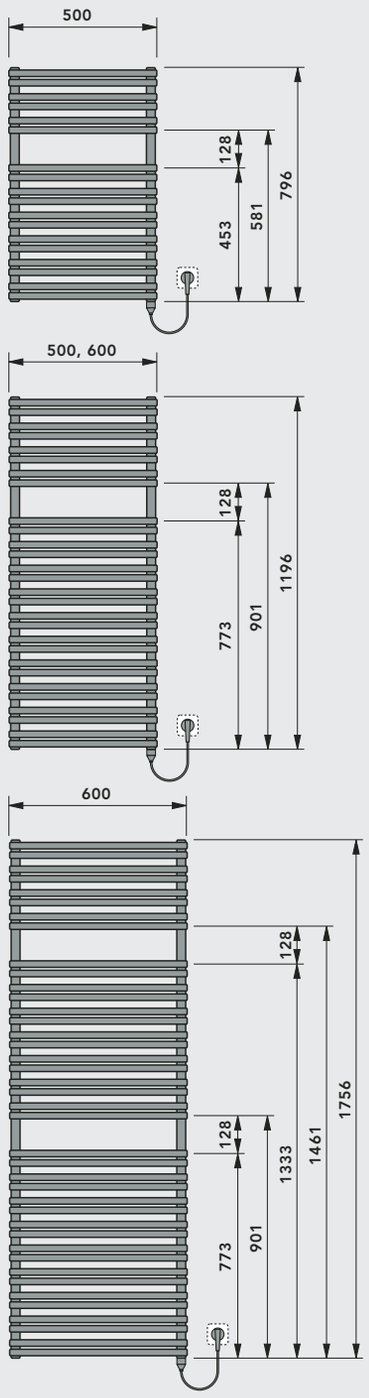
Accessory: PTC electric heating element
All BAWA-T VM radiators fitted with an electric heating element can also be used at times when the regular heating system is switched off.

It is absolutely necessary to take account of the power-ratings assigned to the electric heating elements.

BAWA Design radiator Electrical design

Technical data

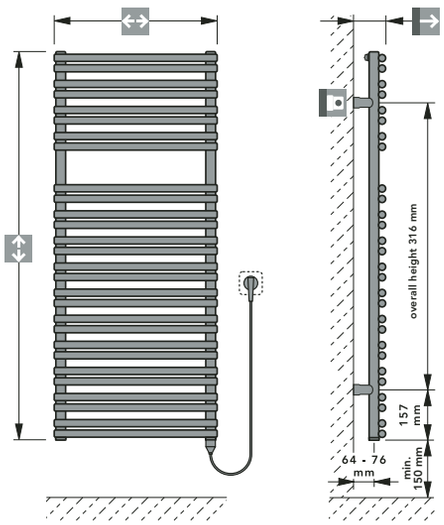
Dimensions [mm]



BAWA Electrical design

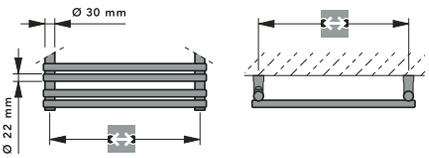
Nominal height (Overall height) [mm]	Overall length [mm]	Nominal power [2] Watt	Nominal voltage [V]	Protection mode	Weight kg
800 (796)	**500**	300	AC 230	IP 24	11,3
1200 (1196)	**500** **600**	400 600	AC 230 AC 230	IP 24 IP 24	17,1 19,7
1800 (1756)	**600**	900	AC 230	IP 24	28,5

[2] at 60° C



Overall depth (incl. wall clearance)
for an overall length of 500 .... 97 - 109 mm
for an overall length of 600 .... 97 - 109 mm

Overall length - 40 mm



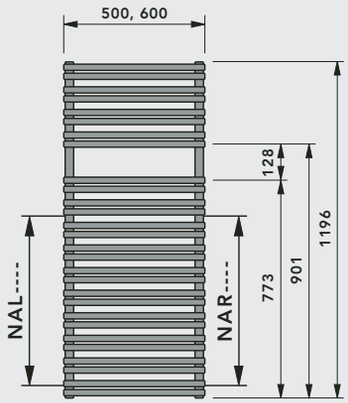
Description
With their built-in electric heating, the electric radiators of the BAWA-E family are elegant Design and bathroom radiators.

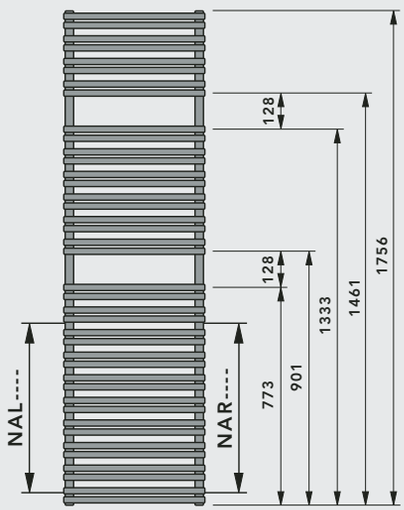
Self-regulation effect – the temperature-dependent PTC heating element automatically controls the temperature of the heat-transfer liquid by modifying its electrical resistance.

Standard basic configuration:
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

ÖVE tested

Connection modes [mm]





Connection on the left-hand side NAL

NAL0500, NAL0446
NAL0900, NAL0546
NAL1000, NAL0846
NAL0946
NAL0560
NAL0960

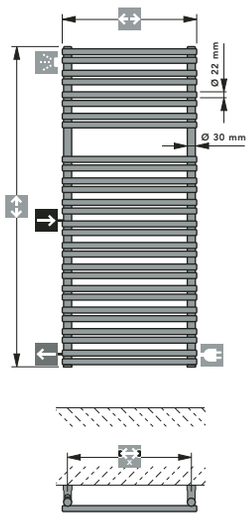
Connection on the right-hand side NAR

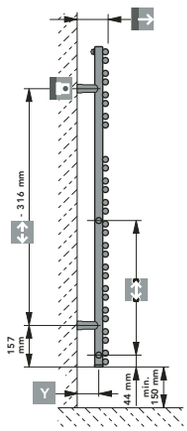
NAR0500, NAR0446
NAR0900, NAR0546
NAR1000, NAR0846
NAR0946
NAR0560
NAR0960

BAWA Replacement radiators

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
1200 (1196)	500	629	531	466	348	290	1,2010	300	11,8	5,4
	600	738	617	541	404	336	1,2012	600	13,5	6,3
1800 (1756)	500	885	717	626	464	384	1,2605	600	16,9	8,1
	600	1038	846	739	548	453	1,2546	600	19,4	9,3

(1) (1) Tested in accordance with ÖNORM EN 442
(2) bei 60 °C





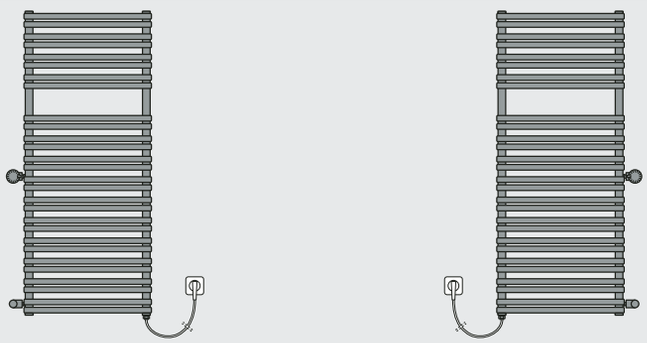
Overall length -90 mm

Connection dimensions
without distance holders... 64 - 76
with 1 distance holder set... 76 - 88
with 2 distance holder sets... 88 - 100
with 3 distance holder sets... 100 - 112

Overall depth (incl. wall clearance)
without distance holders... 97 - 109
with 1 distance holder set... 109 - 121
with 2 distance holder sets... 121 - 133
with 3 distance holder sets... 133 - 145

Boss spacing
500, 900, 1000,
446, 546, 846, 946, 560 and 960 mm
Other centre distances upon request.

Connection examples using an electronic heating element

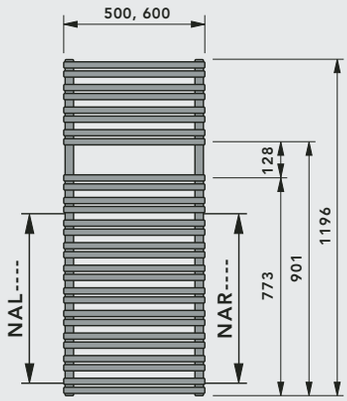


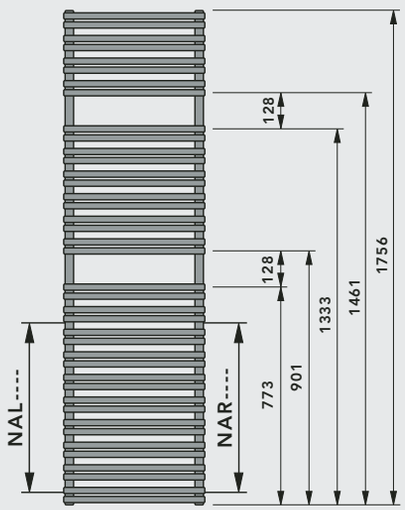
Standard basic configuration:
- A pivotable vent plug, G 1/4, nickel-plated brass, self-sealing and 2 dummy plugs, G 1/2
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

BAWA electrical design

BAWA Modernisierung

Connection modes [mm]





Connection on the left-hand side NAL
NAL0500, NAL0446
NAL0900, NAL0546
NAL1000, NAL0846
NAL0946

NAL0560
NAL0960

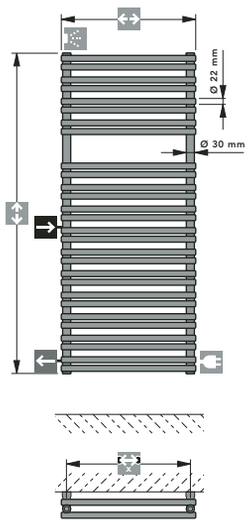
Connection on the right-hand side NAR
NAR0500, NAR0446
NAR0900, NAR0546
NAR1000, NAR0846
NAR0946

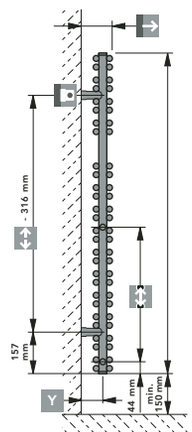
NAR0560
NAR0960

BAWA Replacement radiators

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
1200 (1196)	**500**	885	721	628	464	382	1,265	600	21,6	9,2
	600	1061	866	756	560	463	1,251	600	25,0	10,9
1800 (1756)	**500**	1222	994	865	638	525	1,274	600	30,8	13,1
	600	1466	1195	1043	771	637	1,258	900	35,7	15,6

(1) (1) Tested in accordance with ÖNORM EN 442
(2) at 60 °C





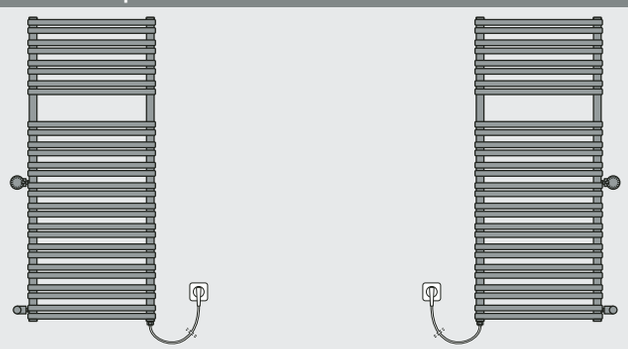
Overall length -40 mm

Connection dimensions
without distance holders... 80 - 92
with 1 distance holder set... 92 - 104
with 2 distance holder sets... 104 - 116
with 3 distance holder sets... 116 - 128

Overall depth (incl. wall clearance)
without distance holders... 113 - 125
with 1 distance holder set... 125 - 137
with 2 distance holder sets... 137 - 149
with 3 distance holder sets... 149 - 161

Boss spacing
500, 900, 1000,
446, 546, 846, 946, 560 and 960 mm
Other centre distances upon request.

Connection example PTC-heat element

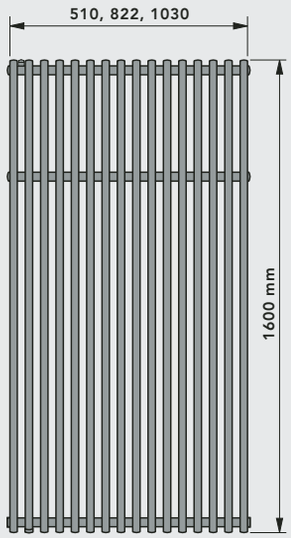


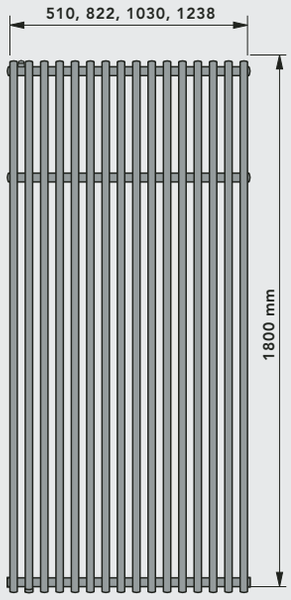
Standard basic configuration:
- Pivotable vent plug, nickel plated brass G 1/2, self-sealing, and 2 dummy plugs G 1/2
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

VELINO Design radiator

Technical data

Dimensions [mm]

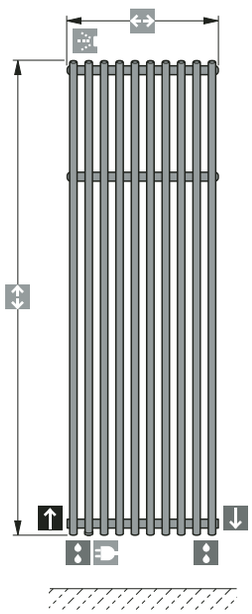


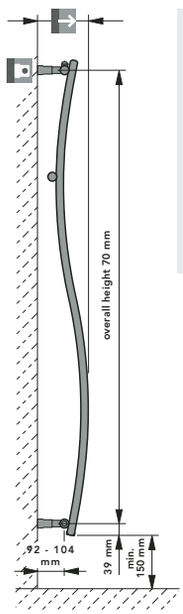


VELINO

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
1600 (1600)	**510**	850	691	602	444	365	1,273	615	13,5	6,5
	822	1359	1105	963	709	584	1,273	615	21,6	10,4
	1030	1699	1382	1204	887	731	1,273	615	27,0	13,0
1800 (1800)	**510**	948	771	671	494	407	1,274	615	15,0	7,7
	822	1516	1232	1074	791	651	1,274	615	24,0	12,3
	1030	1895	1541	1342	988	814	1,274	615	30,0	15,4
	1238	2274	1849	1610	1186	977	1,274	615	35,8	18,5

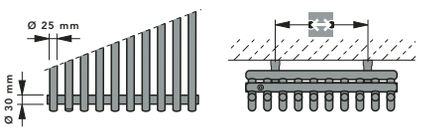
(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C C





Overall depth (incl. wall clearance)
bei Overall height 1600 .... 169 - 181 mm
bei Overall height 1800 .... 177 - 189 mm

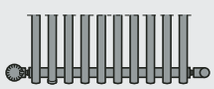
for an overall length of 510 .... 312 mm
for an overall length of 822 .... 624 mm
for an overall length of 1030 .... 832 mm
for an overall length of 1238 .... 1040 mm



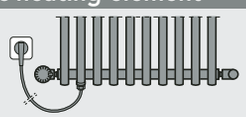
BAWA-T Modernisierung

VELINO

Connection example without electric heating element



Connection example with electric heating element



Connections
3 x G 1/2 Internal thread and
3 x G 1/4 Internal thread (for vent and drain plugs)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

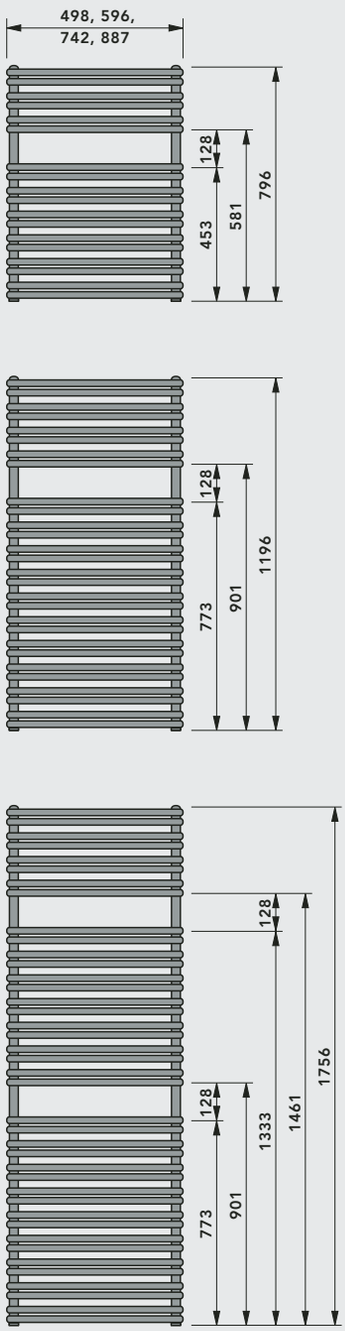
Standard basic configuration
- A pivotable vent plug, G 1/4, and two dummy plugs, G 1/4, as well as a dummy plug, G 1/2, nickel-plated brass, self-sealing
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

Accessory: PTC electric heating element
All VELINO design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

CAVALLY Design radiator

Technical data

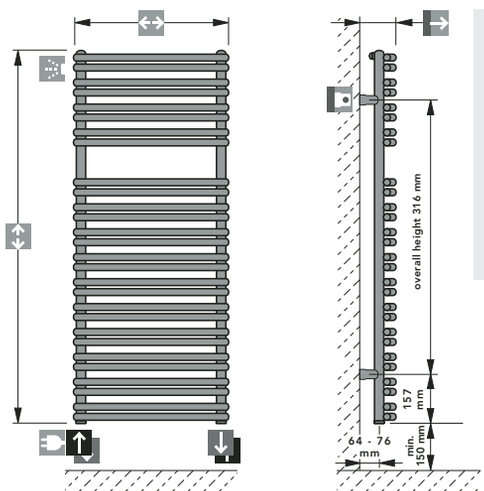
Dimensions [mm]



CAVALLY

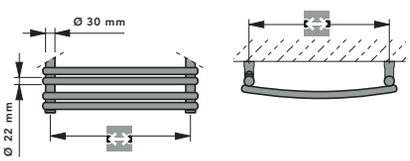
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watts	Weight kg	Water content l
800 (796)	**498**	440	364	321	242	203	1,169	300	7,7	3,6
	596	528	437	385	291	243	1,167	300	8,8	4,1
	742	659	545	481	363	304	1,165	300	10,5	4,9
	887	790	654	577	436	366	1,162	600	12,1	5,7
1200 (1196)	**498**	649	533	467	350	291	1,211	300	11,8	5,4
	596	778	641	563	423	353	1,191	600	13,5	6,3
	742	972	805	710	537	450	1,162	600	16,1	7,7
	887	1165	969	857	653	550	1,133	600	18,6	9,0
1800 (1756)	**498**	920	754	661	493	409	1,221	600	16,9	8,1
	596	1103	908	798	598	499	1,197	600	19,4	9,3
	742	1378	1141	1006	762	638	1,161	900	23,0	11,0
	887	1651	1375	1218	930	783	1,124	900	26,7	12,7

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C

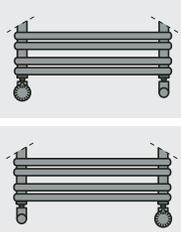


Overall depth (incl. wall clearance)
for an overall length of 498 ....119 - 131 mm
for an overall length of 596 ....128 - 140 mm
for an overall length of 742 ....146 - 158 mm
for an overall length of 887 ....164 - 176 mm

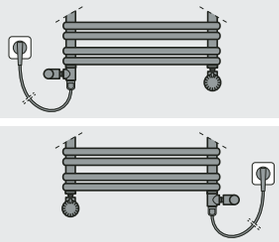
Boss spacing
for an overall length of 498 .... 451 mm
for an overall length of 596 .... 548 mm
for an overall length of 742 .... 691 mm
for an overall length of 887 .... 835 mm



Connection example without electric heating element



Connection example with electric heating element



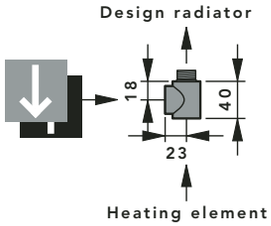
Connections
2 x G 1/2 Internal thread and
1 x G 1/4 Internal thread (for vent plug)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

A special adapter (chrome-plated) should be used for the electric heating insert with the CAVALLY Design radiator!



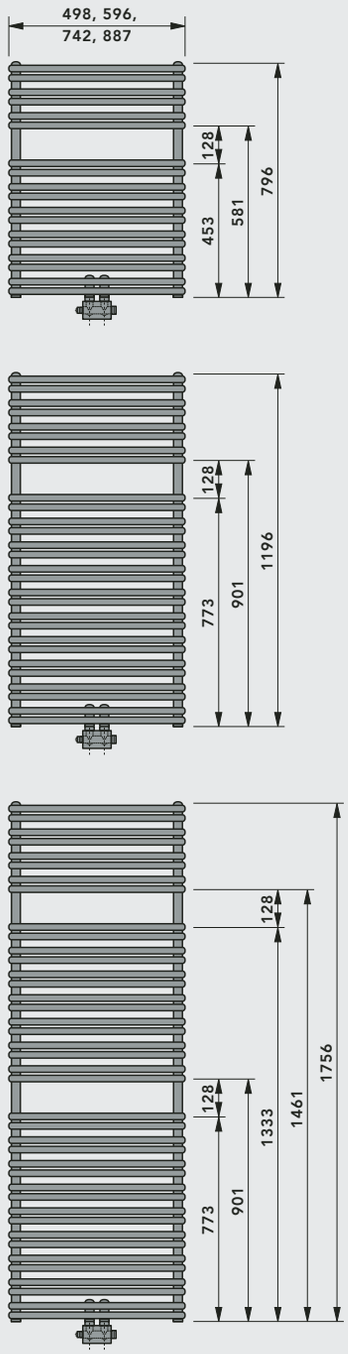
Accessory: PTC electric heat element
All CAVALLY design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

Standard basic configuration
- A pivotable vent plug, G 1/4, nickel-plated brass, self-sealing
- Wall fastening set matching the radiator colour
- Fitting aid
- Instruction sheet

CAVALLY-VM Design radiator

Technical data

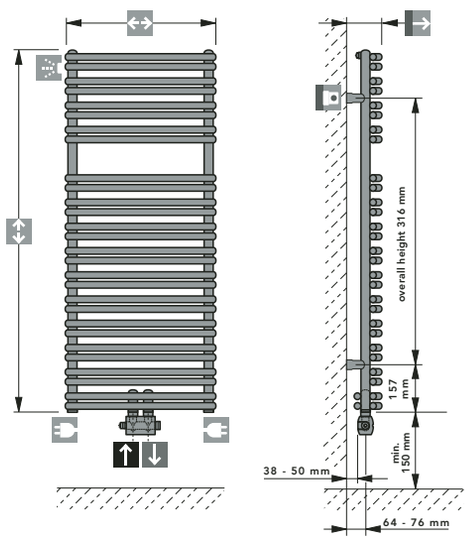
Dimensions [mm]



CAVALLY-VM

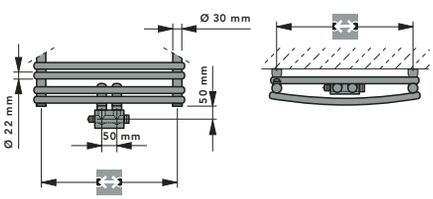
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt	Weight kg	Water content l
800 (796)	498	440	364	321	242	203	1,169	300	7,7	3,6
	596	528	437	385	291	243	1,167	300	8,8	4,1
	742	659	545	481	363	304	1,165	300	10,5	4,9
	887	790	654	577	436	366	1,162	600	12,1	5,7
1200 (1196)	498	649	533	467	350	291	1,211	300	11,8	5,4
	596	778	641	563	423	353	1,191	600	13,5	6,3
	742	972	805	710	537	450	1,162	600	16,1	7,7
	887	1165	969	857	653	550	1,133	600	18,6	9,0
1800 (1756)	498	920	754	661	493	409	1,221	600	16,9	8,1
	596	1103	908	798	598	499	1,197	600	19,4	9,3
	742	1378	1141	1006	762	638	1,161	900	23,0	11,0
	887	1651	1375	1218	930	783	1,124	900	26,7	12,7

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C

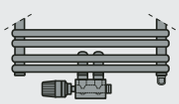


Overall depth (incl. wall clearance)
for an overall length of 498 .... 119 - 131 mm
for an overall length of 596 .... 128 - 140 mm
for an overall length of 742 .... 146 - 158 mm
for an overall length of 887 .... 164 - 176 mm

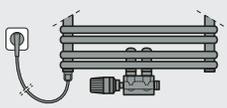
for an overall length of 498 .... 451 mm
for an overall length of 596 .... 548 mm
for an overall length of 742 .... 691 mm
for an overall length of 887 .... 835 mm

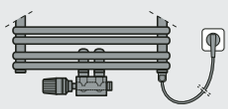


Connection example without electric heating element



Connection example with electric heating element





Connections
2 x G 3/4 External thread (valve connection set),
2 x G 1/2 Internal thread and
1 x G 1/4 Internal thread (for vent plug)
Connection modes see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

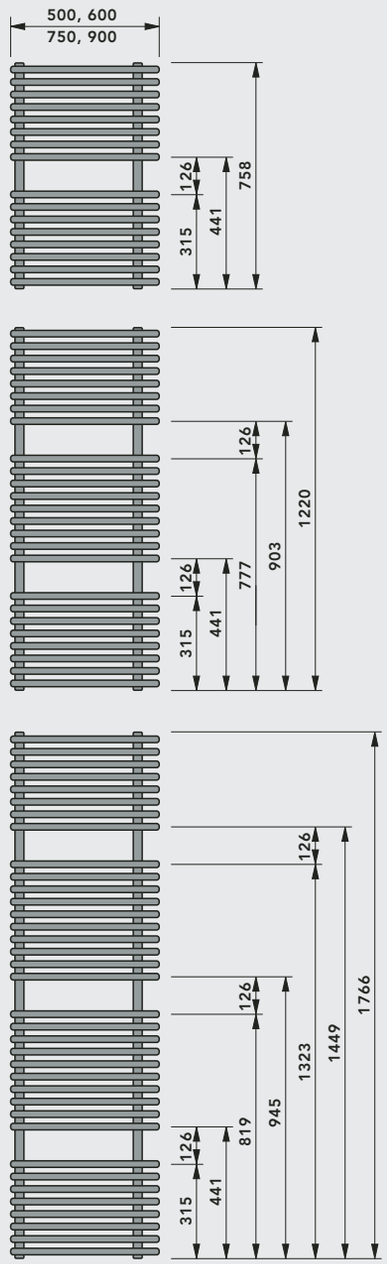
Standard basic configuration
- A pivotable vent plug, G 1/4, and two dummy plugs, G 1/2, nickel-plated brass, self-sealing, factory-sealed
- A valve connection set with angled two-pipe design
- Covering rosette in matching radiator colour
- Wall fastening set matching the radiator colour
- Fitting aid
- Instruction sheet

Accessory: PTC electric heat element
All CAVALLY-VM design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

FULDA Design radiator

Technical data

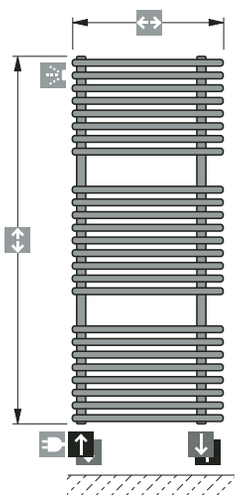
Dimensions [mm]

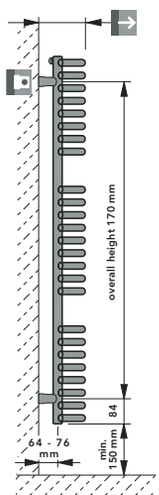


FULDA

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt Colour paint	chrome-plated / gold plated	Weight kg	Water content l
800 (758)	500	405	343	307	240	205	1,024	300	-	7,2	3,2
	600	474	401	359	281	240	1,024	300	300	8,2	3,7
	750	574	486	435	340	291	1,024	300	300	9,7	4,5
	900	671	568	508	398	340	1,024	300	300	11,2	5,3
1200 (1220)	500	620	509	446	333	276	1,219	300	300	11,1	5,2
	600	724	594	520	389	323	1,219	600	300	12,7	6,0
	750	877	719	630	471	391	1,219	600	300	15,0	7,1
	900	1025	841	737	550	457	1,219	600	600	17,4	8,3
1800 (1766)	500	870	712	623	463	384	1,235	600	300	15,9	7,4
	600	1021	835	731	543	450	1,235	600	600	18,2	8,5
	750	1241	1015	888	660	547	1,235	900	600	21,7	10,1
	900	1456	1191	1042	775	642	1,235	900	900	25,2	11,7

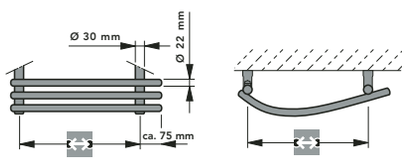
(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C



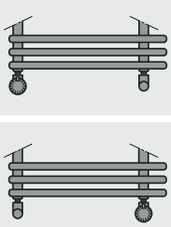


Overall depth (incl. wall clearance)
for an overall length of 500 .... 146 - 158 mm
for an overall length of 600 .... 155 - 167 mm
for an overall length of 750 .... 171 - 183 mm
for an overall length of 900 .... 180 - 192 mm

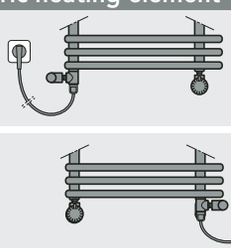
Boss spacing
for an overall length of 500 .... 400 mm
for an overall length of 600 .... 495 mm
for an overall length of 750 .... 645 mm
for an overall length of 900 .... 795 mm



Connection example without electric heating element



Connection example with electric heating element



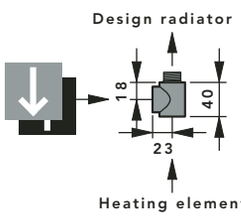
Connections
2 x G 1/2 Internal thread and
1 x G 1/4 Internal thread (for vent plug)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

A special adapter (chrome-plated) should be used for the electric heating insert with the FULDA Design radiator!



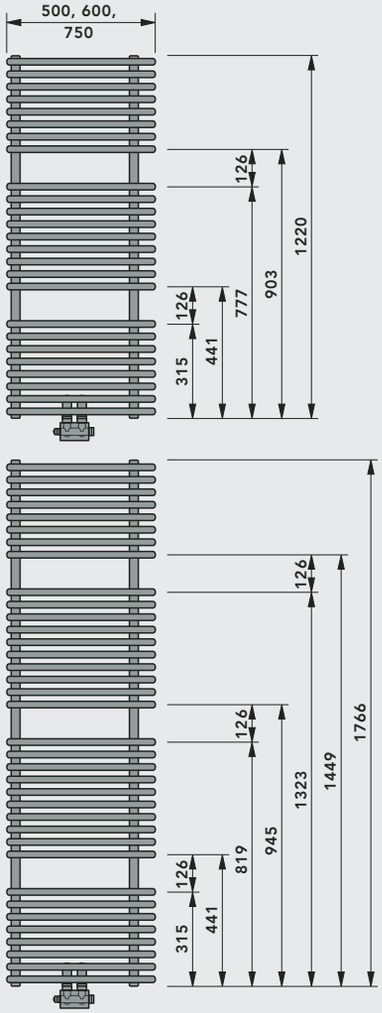
Accessory: PTC electric heating element
All FULDA design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

Standard basic configuration
- A pivotable vent plug, G 1/4, nickel-plated brass, self-sealing
- Wall fastening set matching the radiator colour
- Fitting aid
- Instruction sheet

FULDA-VM Design radiator

Technical data

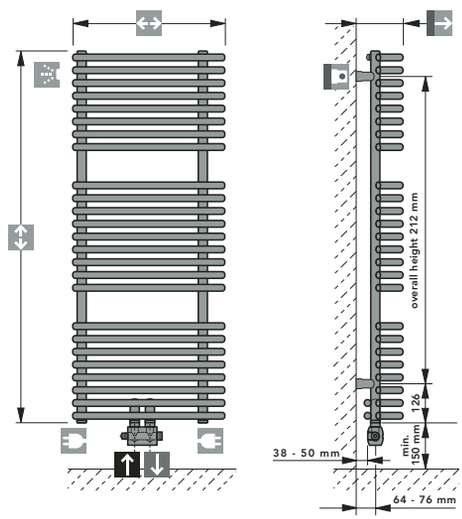
Dimensions [mm]



FULDA-VM

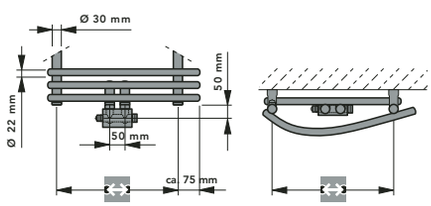
Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt Colour paint	chrome-plated / gold plated	Weight kg	Water content l
1200 (1220)	**500**	620	509	446	333	276	1,219	300	300	11,1	5,2
	600	724	594	520	389	323	1,219	600	300	12,7	6,0
	750	877	719	630	471	391	1,219	600	300	15,0	7,1
1800 (1766)	**500**	870	712	623	463	384	1,235	600	300	15,9	7,4
	600	1021	835	731	543	450	1,235	600	600	18,2	8,5
	750	1241	1015	888	660	547	1,235	900	600	21,7	10,1

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C

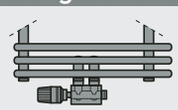


Overall depth (incl. wall clearance)
for an overall length of 500 .... 146 - 158 mm
for an overall length of 600 .... 155 - 167 mm
for an overall length of 750 .... 171 - 183 mm

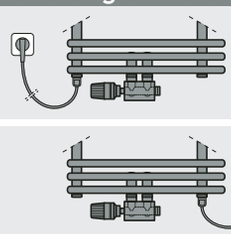
for an overall length of 500 .... 400 mm
for an overall length of 600 .... 495 mm
for an overall length of 750 .... 645 mm



Connection example without electric heating element



Connection example with electric heating element



Connections
2 x G 3/4 External thread (Valve connection set)
2 x G 1/2 Internal thread and
1 x G 1/4 Internal thread (for vent plug)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

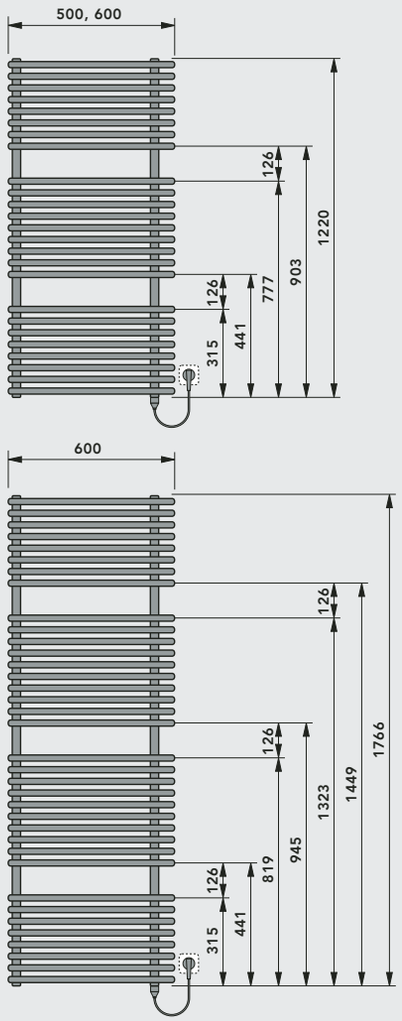
Standard basic configuration
- A pivotable vent plug, G 1/4, and two dummy plugs, G 1/2, nickel-plated brass, self-sealing, factory-sealed
- A valve connection set with angled two-pipe design
- Covering rosette in matching radiator colour
- Wall fastening set matching the radiator colour
- Fitting aid
- Instruction sheet

Accessory: PTC electric heating element
All FULDA-VM design radiators fitted with an electric heating element can also be used when the regular heating system is switched off. It is essential to take into account the power ratings assigned to the electric heating elements.

FULDA Design radiator Electrical design

Technical data

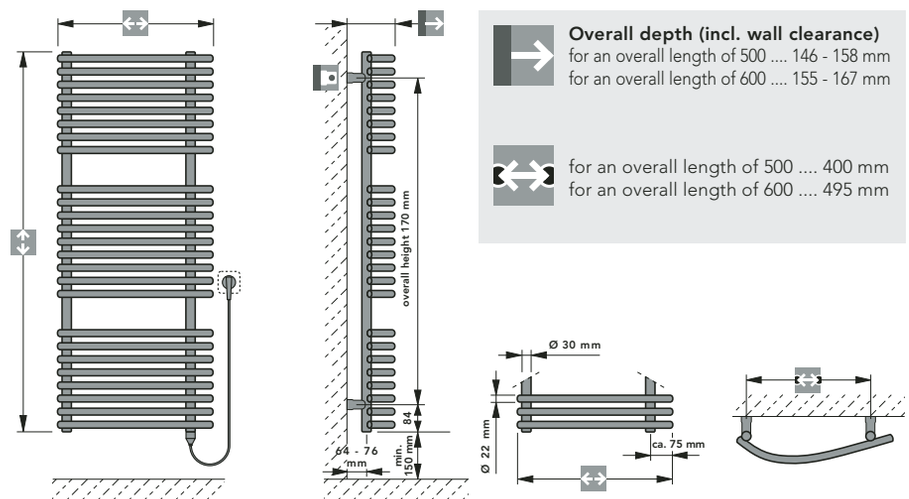
Dimensions [mm]



FULDA Electrical design

Nominal height (Overall height) [mm]	Overall length [mm]	Nominal power [2] Watts	Nominal power [2] Watts (chrome-plated / gold plated)	Nominal voltage [V]	Protection mode	Weight kg
1200 (1196)	**500** **600**	400 600	300 400	AC 230 AC 230	IP 24 IP 24	16,3 18,6
1800 (1766)	**600**	900	600	AC 230	IP 24	26,6

[2] at 60° C



Overall depth (incl. wall clearance)
for an overall length of 500 .... 146 - 158 mm
for an overall length of 600 .... 155 - 167 mm

for an overall length of 500 .... 400 mm
for an overall length of 600 .... 495 mm

Description:
With their built-in electric heating, the electric radiators of the FULDA-E family are elegant Design and bathroom radiators.

Self-regulation effect – the temperature-dependent PTC heating element automatically controls the temperature of the heat-transfer liquid by modifying its electrical resistance.

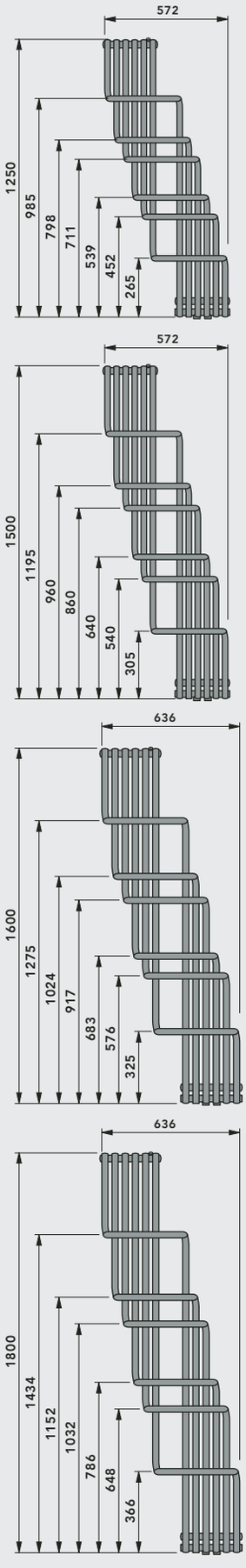
Standard basic configuration:
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet

ÖVE tested

SEINE-V Design radiator

Technical data

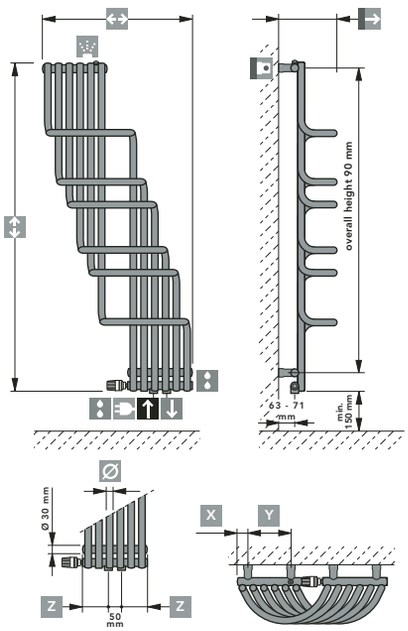
Dimensions [mm]



SEINE-V

Nominal height (Overall height) [mm]	Overall length [mm]	Heat output (1) in Watts 75/65/20 °C	70/55/20 °C	70/55/24 °C	55/45/20 °C	55/45/24 °C	Radiator exponent n	E-heat element Output (2) Watt Colour paint	chrome-plated / gold plated	Weight kg	Water content l
1200 (1250)	**572**	486	396	345	254	210	1,267	300	-	8,0	4,2
1500 (1500)	**572**	550	447	390	287	237	1,270	300	300	9,0	4,7
1600 (1600)	**636**	675	550	480	355	293	1,260	300	300	10,8	6,6
1800 (1800)	**636**	735	598	521	385	317	1,267	300	300	11,8	7,2

(1) Tested in accordance with ÖNORM EN 442 (2) at 60° C



Overall depth (incl. wall clearance)
for an overall length of 572 .... 225 - 237 mm
for an overall length of 636 .... 251 - 263 mm

Pipe diameter
for an overall length of 572 .... 25 mm
for an overall length of 636 .... 28 mm

Measurement X
for an overall length of 572 .... 41,5 mm
for an overall length of 636 .... 44 mm

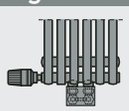
Measurement Y
for an overall length of 572 .... 164 mm
for an overall length of 636 .... 184 mm

Measurement Z
for an overall length of 572 .... 98,5 mm
for an overall length of 636 .... 111 mm

FULDA electrical design

SEINE-V

Connection example without electric heating element



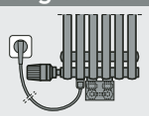
Connections
4 x G 1/2 Internal thread and
2 x G 1/4 Internal thread (for vent and drain plugs)
Connection modes
see diagram

Test overpressure
13 bar

Maximum positive operating pressure
10 bar

Maximum operating temperature
110 °C

Connection example with electric heating element



Accessory: PTC electric heating element
All SEINE-V design radiators equipped with an electric heating element can also be used at times when the regular heating system is switched off. It is absolutely necessary to take account of the power-ratings assigned to the electric heating elements.

Standard basic configuration
- A pivotable vent plug, G 1/4, and a dummy plug, G 1/4, as well as a dummy plug, G 1/2, nickel-plated brass, self-sealing, factory-sealed
- A wall mounting set matching the radiator colour
- Fitting aid
- Instruction sheet
- Valve including construction cover

Simplified procedures for standard and low-temperature (ST/LT)

The conversion factors in the table show the extent to which heat output varies under other operating conditions than those specified in the following standard-design data:

Supply temperature t_1 **75 °C**
Return temperature t_2 **65 °C**
Room temperature t_r **20 °C**

Because an average exponent of 1.3 has been used both for the calculation of performance data and for specifying the conversion factor, a slight variation in performance from the calculated values is possible.

The standard heating power Φ_S of a radiator to give the required heat output $\Phi_{HL,i}$ with the chosen operating conditions, is calculated according to the formula:

$$\Phi_S = \Phi_{HL,i} \times f$$

Φ_S = standard heating power, in accordance with EN 442
$\Phi_{HL,i}$ = required heat output, in accordance with EN 12831
f = conversion factor from the table

Example:
The required heat output for a room, from a 600 Watts base in accordance with EN 12831:

Variable data: t_1 65 °C
t_2 55 °C
t_r 22 °C

Factor **f** according to the table = **1,43**

supply temperature °C	return temperature °C	room air temperature °C						
		12	15	18	20	22	24	26
90	80	0,61	0,64	0,68	0,71	0,74	0,77	0,81
	70	0,67	0,72	0,76	0,80	0,83	0,87	0,91
80	70	0,74	0,79	0,84	0,88	0,93	0,97	1,03
	60	0,83	0,89	0,96	1,01	1,07	1,13	1,20
	50	0,96	1,04	1,13	1,20	1,28	1,37	1,47
75	**65**	0,82	0,88	0,95	**1,00**	1,05	1,12	1,18
	60	0,88	0,94	1,02	1,08	1,14	1,21	1,29
	55	0,94	1,01	1,10	1,17	1,24	1,32	1,42
70	65	0,87	0,94	1,01	1,07	1,13	1,19	1,27
	60	0,93	1,00	1,08	1,15	1,22	1,30	1,39
	55	0,99	1,08	1,17	1,25	1,33	1,42	1,53
	50	1,07	1,17	1,28	1,37	1,47	1,58	1,71
65	60	0,98	1,07	1,16	1,23	1,31	1,40	1,50
	55	1,05	1,15	1,26	1,34	1,43	1,54	1,66
	50	1,14	1,25	1,37	1,47	1,59	1,71	1,86
	45	1,24	1,37	1,52	1,64	1,78	1,94	2,13
60	55	1,13	1,23	1,36	1,45	1,56	1,68	1,82
	50	1,22	1,34	1,48	1,60	1,73	1,87	2,05
	45	1,33	1,47	1,65	1,78	1,94	2,13	2,36
	40	1,47	1,64	1,86	2,03	2,24	2,50	2,80
55	50	1,31	1,45	1,62	1,75	1,90	2,07	2,28
	45	1,43	1,60	1,80	1,96	2,15	2,37	2,64
	40	1,59	1,78	2,03	2,24	2,48	2,78	3,15
	35	1,78	2,03	2,36	2,64	2,99	3,43	4,02
50	45	1,56	1,75	1,98	2,17	2,40	2,67	3,00
	40	1,73	1,96	2,25	2,50	2,79	3,15	3,61
	35	1,94	2,24	2,63	2,96	3,38	3,92	4,64
	30	2,24	2,64	3,20	3,70	4,39	5,39	6,99
45	40	1,90	2,17	2,53	2,83	3,19	3,66	4,25
	35	2,15	2,50	2,96	3,37	3,89	4,58	5,52

$\Phi_S = \Phi_{HL,i} \times f$ = 600 Watts x 1,43 = 858 Watts

A radiator has to be installed that emits 858 Watts under normal (75/65/20) conditions.

Exact method for the performance calculation for standard and low-temperature (ST/LT)

Using the formula $\Phi = \Phi_S \left[\frac{\Delta T}{\Delta T_S}\right]^n$ any performance differing from the standard can be calculated.

Φ = Heating power [W]
Φ_S = Standard heating power in accordance with EN 442 [W]
ΔT = Arithmetic radiator excess temperature [K]
ΔT_S = Arithmetic radiator excess temperature 50 K, from a standard base of 75°C / 65°C / 20°C
n = Radiator exponent

Please note: if the condition $c = \frac{t_2 - t_r}{t_1 - t_r} < 0{,}7$ is met, the excess temperatures will be specified logarithmically.

$$\Delta T_{arithmetic} = \frac{t_1 + t_2}{2} - tr \qquad \Delta T_{logarithmic} = \frac{t_1 - t_2}{\ln \frac{t_1 - t_r}{t_2 - t_r}}$$

To use our radiator performance calculator, go to www.vogelundnoot.com

Connection modes

Two pipe operation / single pipe operation

Two pipe operation

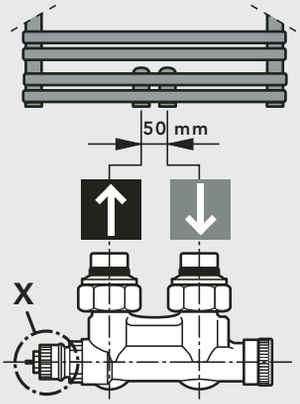


Fig. 1

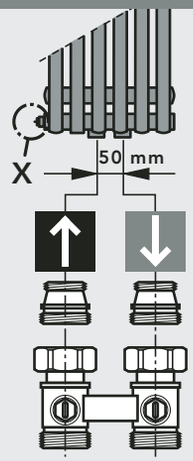
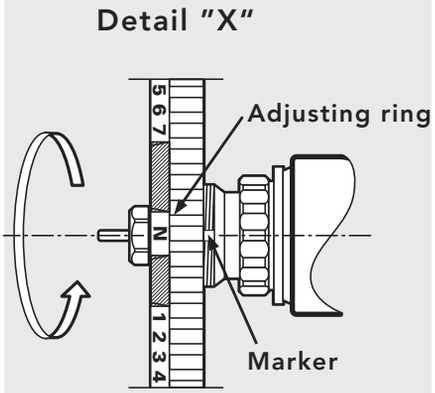


Fig. 2



Guideline values for presetting – basis: Supply temperature **70 °C** Return temperature **55 °C** Room temperature **20 °C**

Guide values for the Kv-value setting, at a proportional deviation of 2K for FULDA-VM, LOWA-VM, CAVALLY-VM, BAWA-VM, BAWA-T VM and OHIO VSM (Fig. 1):

K_V = 0,12 up to 450 W presetting **4**
K_V = 0,19 up to 700 W presetting **5**
K_V = 0,27 bis 1000 W presetting **6**
K_V = 0,33 up to 1200 W presetting **7**
K_V = 0,48 over 1200 W presetting **N**

Guide values for the K_V-value setting, at a proportional deviation of 2K for SEINE-V (Fig. 2):

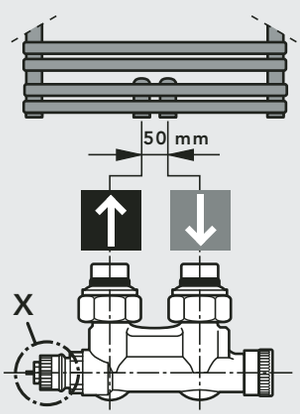
K_V = 0,13 up to 500 W presetting **1**
K_V = 0,21 over 500 W presetting **2**

Setting instructions

- Remove the protective cap and the sensor element.
- Lift the adjusting ring and turn it anticlockwise, as far as to the presetting required – the set value (1, 2, ...7, N) must be positioned in line with the marker.
- Presetting is possible in steps of 0.5 between 1 and 7. The „N"setting, cancels all presetting.

Note:
Settings in the hatched areas are to be avoided.
It is easy to set the precise value required without using any special tools.
The following thermostat heads can be directly fitted: **„RA 2000"**, or **„RAW"** from **Danfoss, „VK"** from **Heimeier**, **„D"** from **Herz**, **„thera DA"** from **MNG**, and **„UNI XD"** from **Oventrop**.

Single pipe operation



with FULDA-VM, LOWA-VM, CAVALLY-VM, BAWA-VM, BAWA-T VM and OHIO VSM

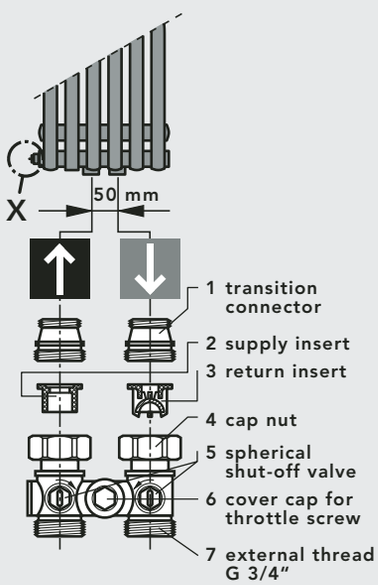
Accessories: connection set for single-pipe operation

Set value at a proportional deviation of 2K (guideline value): **radiator proportion 40% is the fixed setting**

The following thermostat heads can be directly fitted: **„RA 2000"**, or „**RAW"** from **Danfoss**, **„VK"** from **Heimeier**, **„D"** from **Herz**, **„thera DA"** from **MNG**, and **„UNI XD"** from **Oventrop**.

It is not necessary to preset the valve.

Single pipe operation for SEINE-V



Set value at a proportional deviation of 2K (guideline value):

radiator proportion 30 % - 3,50 rotations = RECOMMENDED SETTING
radiator proportion 35 % ..... 3,00 rotations
radiator proportion 40 % ..... 2,50 rotations
radiator proportion 45 % ..... 2,00 rotations
radiator proportion 50 % ..... 1,75 rotations

Note:
When installing the single-pipe manifold take care that the return insert 3 is fitted into the return, and the supply insert 2 into the supply. Before setting the radiator proportion remove the covering cap 6 from the single-pipe manifold; the bypass shaft located below it needs to be turned to the right as far as it will go.

The following thermostat heads can be directly fitted: **„RA 2000"**, or „**RAW"** from **Danfoss**, **„VK"** from **Heimeier**, **„D"** from **Herz**, **„thera DA"** from **MNG**, and **„UNI XD"** from **Oventrop**.

It is not necessary to preset the valve because it has been factory-adjusted to presetting N.

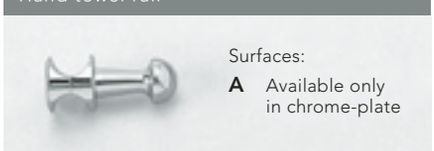
Clothes rail

Bath towel rail

Glass shelf

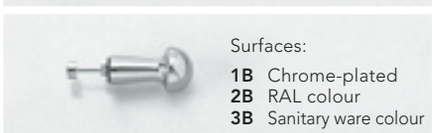
Hand towel ring

Hand towel rail



Surfaces:

A Available only in chrome-plate

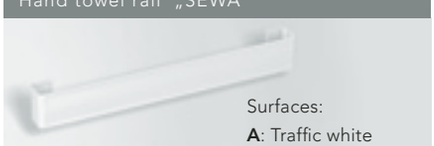


Surfaces:

1B Chrome-plated
2B RAL colour
3B Sanitary ware colour

Bathrobe hook

Hand towel rail „SEWA“



Surfaces:

A: Traffic white
B: RAL colour
C: Sanitary ware colour

Accessoires

Accessoir Overall length [mm]	Item no.	**BAWA** Overall length [mm]				**ARUN-T** Overall length [mm]				**FULDA** Overall length [mm]				
		500	600	750	900	500	600	750	900	500	600	750	900	
CLOTHES RAIL chrome-plated (incl. two fastening kits)														
492	AZ1CR049C100100SCHRO	•	•	•	•	•	•	•	•					
492	AZ1CR049C300100SCHRO													
596	AZ1CR060C100100SCHRO		•	•	•		•	•	•					
596	AZ1CR060C300100SCHRO													
804	AZ1CR080C100100SCHRO				•				•					
804	AZ1CR080C300100SCHRO													
1012	AZ1CR101C300100SCHRO													
BATH TOWEL RAIL chrome-plated (incl. two fastening kits)														
500	AZ1BT050C100100SCHRO	•	•	•	•	•	•	•	•					
650	AZ1BT065C100100SCHRO			•	•			•	•					
GLASS SHELF (incl. two fastening kits)														
300	AZ1G-S030C100100SCHRO	•	•	•	•	•	•	•	•					
500	AZ1G-S050C100100SCHRO	•	•	•	•	•	•	•	•					
650	AZ1G-S065C100100SCHRO			•	•			•	•					
HAND TOWEL RING chrome-plated (incl. fastening kit)														
	AZ1HT000C100100SCHRO	•	•	•	•	•	•	•	•					
	AZ1HT000C200100SCHRO									•	•	•	•	
HAND TOWEL RAIL chrome-plated, RAL or Sanitary Ware colours, see colour chart (incl. fastening kit)														
A	AZ1TR000C100100SCHRO	•	•	•	•	•	•	•	•					
A	AZ1TR000C200100SCHRO									•	•	•	•	
A	AZ1TR000C300100SCHRO													
1B	AZ1TR000C400100SCHRO													
2B	AZ1TR000C400100R													
3B	AZ1TR000C400100S													
BATHROBE HOOK chrome-plated (incl. fastening kit)														
	AZ1BH000C000100SCHRO													
HAND TOWEL RAIL „SEWA“, RAL or Sanitary Ware colours, see colour chart (incl. fastening kit)														
A	AZ1TR060C0001000													
B	AZ1TR060C000100R													
C	AZ1TR060C000100S													
A	AZ1TR070C0001000													
B	AZ1TR070C000100R													
C	AZ1TR070C000100S													

	CAVALLY Overall length [mm]				KASAI Overall length [mm]			VELINO Overall length [mm]				FATALA Overall length [mm]			OHIO VSM Overall length [mm]				SEWA Overall length [mm]	
	498	596	742	887	600	750	900	510	822	1030	1238	500	600	750	358	502	646	862	600	700
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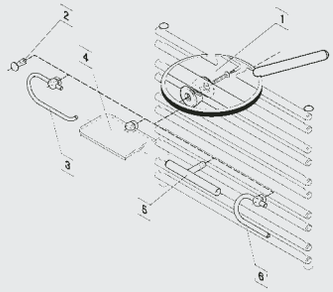
Design radiator families BAWA, CAVALLY, FULDA, FATALA, KASAI and ARUN-T



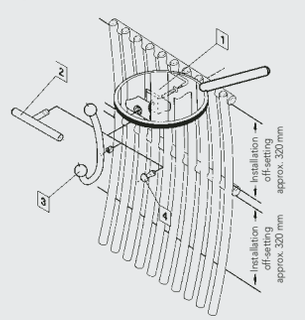
1 **Fastening kit Ø 32**
or use with Design radiators of the BAWA, CAVALLY, FATALA, KASAI and ARUN-T product families; consisting of:
2 clips (half shells)
1 flat-headed screw, with a hexagonal socket, DIN 7991 M6 x 35
1 hexagon socket screw key, SW 4 **or**

1 **Fastening kit Ø 40**
for use with Design radiators of the FULDA product family; consisting of:
2 clips (half shells)
1 flat-headed screw, with a hexagon socket, DIN 7991 M6 x 40
1 hexagonal socket screw key, SW 4

2 **Hand towel rail** and
3 **Hand towel ring**
for use with Design radiators of the BAWA, CAVALLY, FULDA, FATALA, KASAI and ARUN-T product families;

4 **Glass shelf** (not for use with the CAVALLY) as well as
5 **Clothes rail** and
6 **Bath towel rail**
for use with Design radiators of the BAWA, CAVALLY, FATALA, KASAI and ARUN-T product families.

Design radiator family VELINO



1 **Clip set**
consisting of:
2 clips (half shells)
1 flat-headed screw, with a hexagonal socket, DIN 7991 M6 x 40
1 hexagonal socket screw key, SW 4

2 **Clothes rail**

3 **Bathrobe hook**

4 **Hand towel rail**

Digital room thermostat

Digital room thermostat with infrared transmission, (incl. PTC-electric heating element)for room temperature control using the Design radiators. The infrared transmitter has a clear LCD display, simultaneously showing the room temperature, target temperature, operationmode and the BOOST symbol.

Using the BOOST function you can activate continuous operation (without thermostatic control) for between 5 minutes and 5 hours.

1 or 2 BOOST cycles may be set for each day, using 3 preset and adjustable programmes.

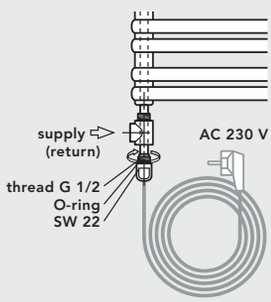
The infrared control unit is especially suitable for subsequent installation, because it simply involves plugging the receiver into a safety socket.

The infrared control set is available for all Design radiator models (exceptions: VELINO, SEWA, LOWA-VM and OHIO VSM!).

	Infrared control set		
	EH 300 Set	**EH 600 Set**	**EH 900 Set**
	PTC-electric heating element		
Nominal voltage Nominal input EH Depth of immersion EH Diameter **D** EH Cable length EH	AC 230 Volt 300 Watts at 60 °C 245 mm 11 mm 1500 mm	AC 230 Volt 600 Watts at 60° CC 450 mm 11 mm 1500 mm	AC 230 Volt 900 Watts at 60 °C 620 mm 11 mm 1500 mm
	Digital room thermostat transmitter		
Setting range for room temperatures	Between + 5 °C and + 30 °C		
Setting range for BOOST cycle duration	Between 5 minutes and 5 hours		
Display area for room temperatures	from + 0 °C to + 40 °C		
Static deviation	< 0,3 K		
Power supply	2 alkaline cells, LR03 model		
Range	Approx. 10 metres (all directions) Approx. 15 metres (in an unobstructed straight line)		
Interval of Infrared transmissions	Every 10 minutes		
Operational temperature	Between –10 °C and +50 °C		
Storage temperature	Between –20 °C and +60 °C		
Air humidity	Maxium of 90 %, at +25 °C		
Protection mode	IP 31		
Dimensions	120 x 80 x 35 mm (height x length x depth)		
	Digital room thermostat receiver		
Supply voltage	230 VAC +/- 10%		
Mains frequency	50 Hz		
Input power	< 5 VA		
Output	1 N/O contact (not potential free)		
Switching capacity	Ohm resistive load: max. 10A/2000W		
Operational temperature	Between –10 °C and +40 °C		
Storage temperature	Between –20 °C and +60 °C		
Air humidity	Maxium of 90 %, at +20 °C		
Protection mode	IP 24		
Dimensions	117 x 81 x 30 mm (height x length x depth)		
Digital room thermostat, transmitter and receiver **AND** electrical heating element			
Item no.	**AZ1CT030I0001000**	**AZ1CT060I0001000**	**AZ1CT090I0001000**
Digital room thermostat, transmitter and receiver **WITHOUT** electrical heating element			
Item no.	**AZ1CT000I0001000**		

PTC-electrical heating element, for use with all models, with the exception of: LOWA-VM, SEWA, OHIO VSM and VELINO

Electrical heating element	EH 300 * EHS 300 **	EH 600 * EHS 600 **	EH 900 * EHS 900 **
Nominal voltage	AC 230 Volt	AC 230 Volt	AC 230 Volt
Nominal input EH	300 Watts at 60 °C	600 Watts at 60° CC	900 Watts at 60 °C
Depth of immersion EH	245 mm	450 mm	620 mm
Diameter **D** EH	11 mm	11 mm	11 mm
Cable length EH	1500 mm	1500 mm	1500 mm
Item no. with safety plug *	**AZ1EH030A0001000**	**AZ1EH062A0001000**	**AZ1EH092A0001000**
with safety plug and switch **	**AZ1EH030B0001000**	**AZ1EH062B0001000**	**AZ1EH092B0001000**
Ausführungen: * with safety plug ** with safety plug and switch	protection mode IP 64 IP 40		



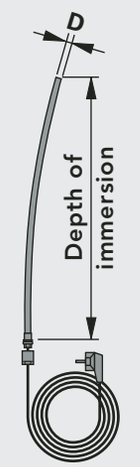
Design radiators fitted with an electric heating element can also be used at times when the regular heating system is switched off (exceptions: the LOWA-VM, SEWA, OHIO VSM and VELINO models).

Self-adjusting effect – the temperature-dependent PTC-heating element automatically controls the water temperature in the radiator by adjusting its electrical resistance.

After the installation of the PTC-electrical heating element proceed as follows:
Fill the heating system with water and vent it. Before start-up, the radiator must be completely filled and vented. Always ensure that the water inside can expand so as to reach the expansion receptacle. For operation with the electrical heating insert we recommend closing the radiator's thermostat valve, to prevent heat being diverted into the rest of the distribution system.

Which electrical heating element to use:
Appropriate electrical heating elements and their insertion, positioning and fastening modes are specified in the tables given in the technical brochures, as well as in the installation sheets for the respective Design radiator families. It is absolutely essential to adhere to these instructions.

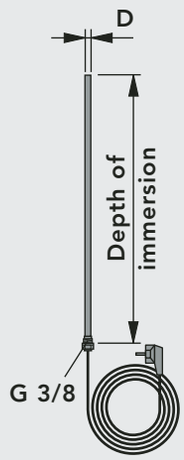
The VELINO electrical heating element



Electrical heating element	EHR 615 * EHRS 615 **
Nominal voltage	AC 230 Volt
Nominal input EH	615 Watts
Depth of immersion EH	610 mm
Diameter **D** EH	12,5 mm
Cable length EH	1500 mm
Item no. with safety plug *	**AZ1EH062A1001000**
with safety plug and switch **	**AZ1EH062B1001000**
Design: * with safety plug ** with safety plug and switch	protection mode IP 54 IP 40

Appropriate electrical heating elements and their insertion, positioning and fastening modes are specified in in the tables in the technical brochures and the installation sheets for the VELINO Design radiator family. It is absolutely essential to adhere to these instructions.

The LOWA-VM and SEWA electrical heating element, G 3/8

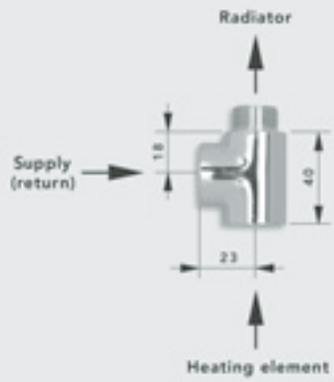


Electrical heating element	**E 300 * ES 300 ****	**E 600 * ES 600 ****
Nominal voltage	AC 230 Volt	AC 230 Volt
Nominal input EH	300 Watts	600 Watts
Depth of immersion EH	515 mm	750 mm
Diameter **D** EH	12,5 mm	12,5 mm
Cable length EH	1500 mm	1500 mm
Item no. with safety plug *	**AZ1EH030A2001000**	**AZ1EH060A2001000**
with safety plug and switch **	**AZ1EH030B2001000**	**AZ1EH060B2001000**

Design:
* with safety plug
** with safety plug and switch

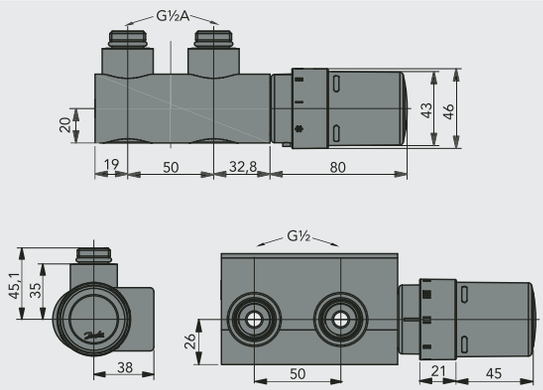
protection mode
IP 54
IP 40

Special adapter



Special adapter (chrome-plated)
A special adapter needs to be used for Design radiators without a 1/2" socket for the electrical heating element, as shown in the adjacent diagram. (Applies to the following models: BAWA, CAVALLY, FULDA, and FATALA/standard design.)

Design valve set



With the FATALA and FATALA left, the Design valve set for the electric heater in connection with the transition piece for the G 1/2" electric heating element is to be used open!

Product description and scope of delivery

VOGEL&NOOT Design radiators are top quality brand-name products, suitable for use in all areas because of the wide range of models and designs on offer. Depending on the models in question, the following basic designs are available.

Standard connection design
Delivered with dummy and vent plugs, as well as a wall mounting set matching the radiator colour

Central valve connection design
Delivered ready to install, with factory-sealed dummy and vent plugs, as well as a wall mounting set matching the radiator colour (exception: the OHIO model will be delivered with mounting brackets). For the SEINE-V a built-in valve set. For the BAWA-VM, BAWA-T-VM, LOWA-VM, FULDA-VM, CAVALLY-VM and the OHIO VSM models a valve connection set and a covering rosette in matching radiator colour are included as well. For the NERO and SEWA models an integrated connection set with a thermostat head comes included.

Room partition design
The ARUN-T model is used as a room partition. With the ARUN-T model a room can be divided in a highly distinctive way, making it a very attractive design element for any living area. Delivered with dummy and vent plugs as well as a wall and floor mounting set matching the radiator colour.

Purely electrical operation design
The electrical radiators of the BAWA-E, FULDA-E and FATALA-E family are designed to give purely electrical heating, without being connected to the central heating system. Self-adjusting effect – the temperature-dependent PTC heating element automatically controls the temperature of the heat-transfer liquid by modifying its electrical resistance. Delivered with wall mountings matching the radiator colour.

Operating conditions
For all models a maximum operating temperature of 110° C applies.

Mounting set
Each Design radiator is equipped with wall mounting on the rear side, suitable for both horizontal and vertical radiator alignment. (Exception: OHIO models are delivered with mounting brackets.)

Paint coatings
An eco-friendly double coat of top-quality covering, in accordance with DIN 55900; anodic dip painting with electro dip paint, using water-soluble paint; electro-statically powder coated, with processed surfaces electrolytically coated. For the SEINE and FULDA models with chrome-plated or gold-plated surfaces, the reduced output is about 25%.

Packaging
Support protection, protection of the visible surfaces, two layers of corrugated cardboard, and PE foil.

Quality certificates

Strong brands of the highest quality
Besides its high level of expertise in design and its enthusiasm for innovation **VOGEL&NOOT** offers its customers strong brands that meet the highest quality standards. All the production sites' processes are certified in accordance with ISO. The quality and performance specifications of the Design radiators are constantly being verified by recognised European institutions.

The standards that the quality certificates require us to maintain are there to give you security, the best heating performance and premium product quality. For the **VOGEL&NOOT** warranty conditions, please see the installation sheet, which is enclosed with each Design radiator.

Guarantee statements are available to download at **www.vogelundnoot.com/download**

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