

ACCESSORIES

ACCESSORIES
&
HEATING
INSTALLATIONS TO
AE VERTICAL
STORAGE TANKS



ACCESSORIES & HEATING INSTALLATIONS

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The heating installations and accessories offered by our company are particularly well suited for the installation in our standard storage heater series as well as in double jacket devices. But due to the special design the devices can also be installed in third party devices with enamelled, plastic or hot-dip galvanized boilers. A combination with CrNi (NIRO) boilers is problematic and is therefore not recommended. Our built-in heaters, screw-in heating elements and built-in ribbed pipe heat exchangers with insulated mounted heating elements and/or ribbed pipe heating bundles are constructed in conjunction with a protective current bleeder resistor for installation in enamelled boilers and are therefore state of the art, particularly in terms of corrosion protection for enamelled boilers. All built-in heaters are suitable for pressure-proof operations and for heating domestic and heating water up to a maximum operating pressure of 10 bars.

THE REST OF OUR SALES PROGRAMME:

- Register- and double jacket storage tank
- Small storage unit
- Electric domestic instantaneous water heater
- Flat storage tank
- Suspended storage tank
- Horizontal storage tank
- Built-in storage tank
- Register- and double jacket suspended storage tank
- Electric upright storage tank
- Heat pump storage tank
- High performance register-, multi-purpose register-, multi-, purpose solar and multi-purpose mass storage tank
- Double jacket storage tank, -boiler and -upright storage tank
- Hair and hand drier

HOT WATER CONSUMPTION OVERVIEW

Hot water consumption within the home is dependent upon the number of people and the sanitary fittings of the flat or house and the individual habits of the consumer.

The following table provides some guidelines for consumption rates.

The temperature of the cold water required to achieve the stated hot water temperature is assumed as being. 12° C.

The water heaters produced by Austria Email AG are thermally insulated with environmentally friendly PU foam. Naturally all electrical components are ÖVE certified. An Austria-wide service through our factory customer service department is guaranteed.

Request documentation from your specialist dealer or directly from us.

	Hot water requirement in litres		Storage water volume required in litres	
	at 37°C	at 50°C	at 80°C	at 60°C
Bath	150 - 180		55 - 66	78 - 94
Shower	30 - 50		11 - 18	16 - 26
Hand wash	3 - 6		1 - 2	1.6 - 3.1
Hair wash (short hair)	6 - 12		3 - 4.4	4.2 - 6.3
Hair wash (long hair)	10 - 18		3.7 - 6.6	5.2 - 9.4
Bidet use	12 - 15		4.4 - 5.5	6.3 - 7.8
Washing dishes				
for 2 people per day		16	10	14
for 3 people per day		20	13.5	18
for 4 people per day		24	15.2	21.5
House cleaning				
per bucket of cleaning water		10	6.3	9

SCREW-IN HEATING ELEMENTS

SH TYPE SERIES

The screw-in heating elements of the SH type series are built for secondary heating and/or emergency heating of water in closed containers. You should use an electric installation heater with flange of the »R« type series as your main electric heater. See Page 4. A combination with CrNi (NIRO) boilers is problematic and is therefore not recommended. When using a screw-in heater element as the main electric heating element in hard water at temperatures over 65°C you can expect de-scaling to take place.

Operating pressure: max. 10 bars

Design for heating water with insulated integrated Incoloy pipe heaters with protective current bleeder resistor. MS screw head R 1½".

Simple upgrade with water heaters with screw-in sleeves: 1½" (and/or 2" with reduction). Simple temperature pre-selection through externally operable thermostat. Adjustment range 15 – 75°C. Care must be taken to ensure that the temperature does not exceed 90°C as a result of external temperature increases. Omni-pole safety temperature limiter with lock out switch.

Black plastic protective cover, pivot based.

Installation seal included, sealing with hemp or Teflon tape optional.

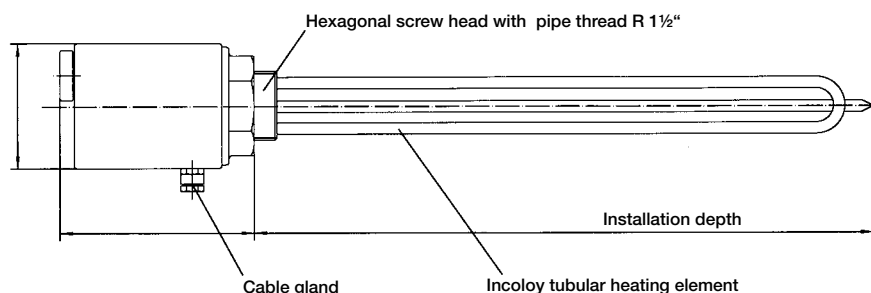
INSTALLATION INSTRUCTIONS:

- During operations the heating element and the sensor protection tube must be sufficiently covered by water on all sides. The thermally induced water flow must not be disrupted.
- Installation position - horizontal, whereby the 1½" sleeve must not exceed 100 mm. A space in front of the installation sleeve – installation length + 50 mm – must be kept clear for installation.



ELECTRICAL CONNECTION:

The in-built regulators are directly actuated at ~ 230 V to 3 kW, at 3 ~ 400 V to 9 kW.



TECHNICAL DATA

Article No.	Type	Performance kW	Connection voltage V	Installation depth (in mm) as of seal	Unheated zone (in mm)	Installation position Horizontal
A 90721	SH - 1.5	1.5	~ 230	320	100	■
A 90722	SH - 2.0	2.0	3 ~ 400 switchable to ~ 230	320	100	■
A 90723	SH - 2.5	2.5	3 ~ 400 switchable to ~ 230	390	100	■
A 90724	SH - 3.0	3.0	3 ~ 400 switchable to ~ 230	390	100	■
A 90725	SH - 3.8	3.75	3 ~ 400	430	100	■
A 90726	SH - 4.5	4.5	3 ~ 400	470	100	■
A 90727	SH - 6.0	6.0	3 ~ 400	620	100	■
A 90728	SH - 7.5	7.5	3 ~ 400	720	100	■
A 90729	SH - 9.0	9.0	3 ~ 400	780	100	■

BUILT-IN ELECTRIC HEATERS

TYPE SERIES R, K AND T

The built-in heaters of the R, K and T type series are suitable for a maximum operational pressure of 10 bars and consist of a number of high-quality pipe heaters depending upon the performance, which are placed upon and isolated from a flange plate with a protective current bleeder resistor. The thermal performance is regulated by an externally adjustable thermostat. In addition every built-in heater is equipped with a safety temperature limiter, which switches off the heating power at all poles if the temperature regulator fails. The complete wiring, regulator devices and connection clamps are covered by a black plastic protective cover. On the basis of the desired performance and installation position, the available installation and the necessary heating groups the required built-in heater type can be selected from the table overleaf. A combination with CrNi (NIRO) boilers is problematic and is therefore not recommended.

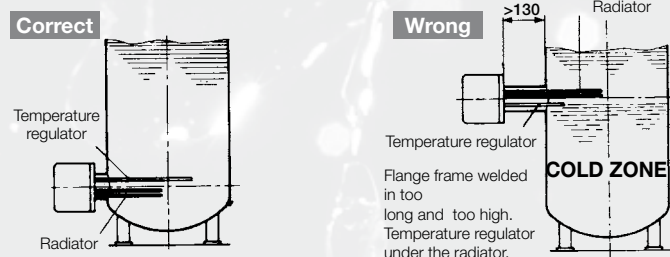
INSTALLATION INSTRUCTIONS:

- During operations the heating element and the sensor protection tube must be sufficiently covered by water on all sides. The thermally induced water flow must not be disrupted.
- Note installation position
- The flange edge may not exceed a max. 130 mm, so that the temperature gauges and heating elements penetrate the boiler to a sufficient depth.
- The built in heater should be installed as close to the bottom of the boiler as possible in order to heat the entire boiler contents evenly, whereby it is important that the heating rods extend throughout the entire installation depth available.
- A space in front of the installation sleeve – installation length + 100 mm – must be kept clear for installation etc.
- Boiler scale build up impairs the function. In the case of extremely hard water the relevant precautions should be taken, e.g. temperature reduction, installation of a water softening system, boiler scale removal.
- In the case of enamelled boilers (third party manufacture) without a standard protective anode or if the anode is installed on the blind flange, which is replaced by the built in heater the anode protection should be carried out as per the manufacturer's instructions.
- Care must be taken to ensure that the temperature does not exceed 95°C as a result of external temperature increases.



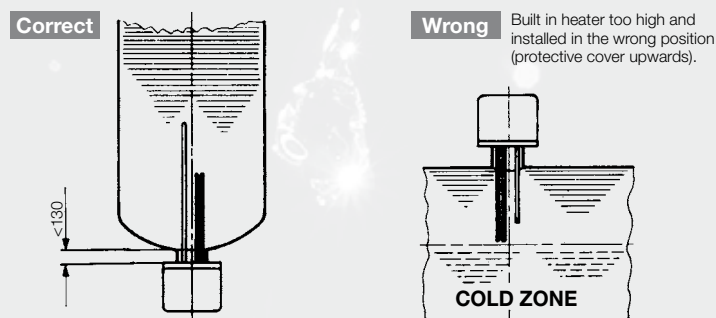
A) HORIZONTAL INSTALLATION

Permitted for all types



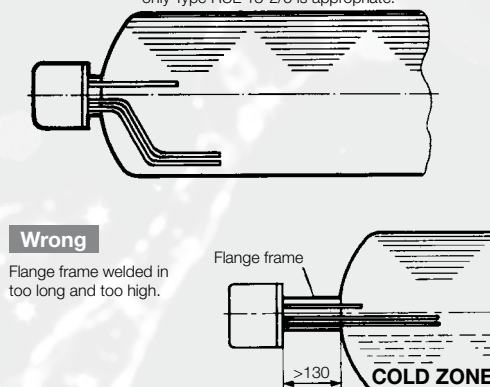
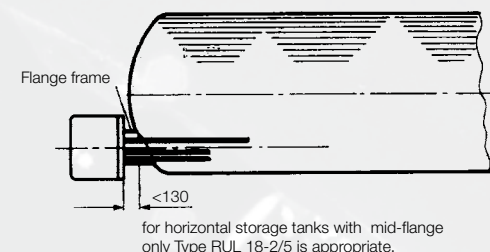
B) UPRIGHT INSTALLATION FROM BELOW

Only allowed for the REU 18..., RDU 18... types



C) HORIZONTAL INSTALLATION IN HORIZONTAL CONTAINER

Correct With horizontal storage tanks with eccentric flange
Permitted for all types



TECHNICAL DATA

BUILT-IN ELECTRIC HEATERS

Flange diameter 180 mm (REU 18, RDU 18, RSW 18, RUL 18, KDW 1, TDW 1)

Flange diameter 240 mm, for horizontal installation only (RDW 2, RSW 2)

Height of protective cover: 150 mm at a diameter of 240 mm, 120 mm at a diameter of 180 mm

Drip-proof design. Temperature selector adjustment range: infinitely adjustable from 15°C to c. 85°C.

The relevant flange seal is included.

REU: Single phase version for direct connection ~ 230 V with protective anode.

RDU: AC version for direct connection 3 ~ 400 V with protective anode.

RUL: For horizontal storage tanks with intermediate flange, reconnectable version for direct connection with protective anode.

RDW: For horizontal installation only, AC version for direct connection, at RDW 2-9 reconnectable thermal performance.

KDW: For horizontal installation only, AC version for direct connection, reconnectable thermal performance for collared flange installation.

TDW: For horizontal installation only, AC version for direct connection, reconnectable thermal performance for top flange installation.

RSW: For horizontal installation only, AC version for contactor control 3 ~ 400 Volt, reconnectable thermal performance.

CAUTION WITH ELECTRICAL CONNECTION:

The REU, RDU, RUL, RDW, KDW and TDW built in heater types can be connected directly to the mains. For RSW built in heater types a circuit breaker must be provided in the distribution cabinet, which will switch the voltage for the heating element via the temperature regulator in the built in heater by a control cable.

ACCESSORIES:

Boiler flange with raw edge of type KFZ 180 – 8, KFZ 240 – 12, enamelled intermediate flange of type 8710, flange screw M12 x 35. See Page 8.

Article No.	Type	Nominal Performance	Nominal Voltage	Circuit wiring		Number of radiators	Switching group			Installation length	Installation options			Flange via meter
		kW	V	direct	via external protection		1	2	3		Horiz ontal	Vertical From below	only in Horizontal storage tanks	
A 90225	REU 18 - 1,7	1,7	~ 230	■		1	1,7			445	■	■		180
A 90226	REU 18 - 2,0	2,0	~ 230	■		1	2			445	■	■		180
A 90227	REU 18 - 2,5	2,5	~ 230	■		1	2,5			445	■	■		180
A 90228	REU 18 - 3,3	3,3	~ 230	■		1	3,3			445	■	■		180
A 90229	RDU 18 - 2,5	2,5	3 ~ 400	■		3	2,5			445	■	■		180
A 90230	RDU 18 - 3,0	3,0	3 ~ 400	■		3	3			445	■	■		180
A 90231	RDU 18 - 3,8	3,8	3 ~ 400	■		3	3,8			445	■	■		180
A 90232	RDU 18 - 5,0	5,0	3 ~ 400	■		3	5			445	■	■		180
A 90233	RDU 18 - 6,0	6,0	3 ~ 400	■		3	6			445	■	■		180
A 90234	RDW 18 - 7,5	7,5	3 ~ 400	■		3	7,5			445	■			180
A 90235	RDW 18 - 10,0	9,9	3 ~ 400	■		3	9,9			445	■			180
A 90261	KDW 1 - 4,0	4,0	3 ~ 400	■		3	2,0	2,7	4,0	375	■			180
A 90262	KDW 1 - 6,0	6,0	3 ~ 400	■		3	3,0	4,0	6,0	375	■			180
A 90263	KDW 1 - 8,0	8,0	3 ~ 400	■		3	4,0	5,0	8,0	440	■			180
A 90264	KDW 1 - 10,0	10,0	3 ~ 400	■		3	5,0	6,5	10,0	530	■			180
A 90250	TDW 1 - 4,0	4,0	3 ~ 400	■		3	2,0	2,7	4,0	375	■			180
A 90251	TDW 1 - 6,0	6,0	3 ~ 400	■		3	3,0	4,0	6,0	375	■			180
A 90252	TDW 1 - 8,0	8,0	3 ~ 400	■		3	4,0	5,0	8,0	440	■			180
A 90253	TDW 1 - 10,0	10,0	3 ~ 400	■		3	5,0	6,5	10,0	530	■			180
A 90236	RDU 18 - 12,0	12,0	3 ~ 400		■	3	12			530	■			180
A 90237	RDU 18 - 15,0	15,0	3 ~ 400		■	3	15			630	■			180
A 90238	RUL 18 - 2/5 switchable to...	2,0	~ 230	■		3	2			500	■		■	180
		2,65	~ 230	■		3	2,65			500	■		■	180
		4,1	3 ~ 400	■		3	4,1			500	■		■	180
		4,65	3N ~ 400	■		3	4,65			500	■		■	180
A 90202	RDW 2 - 9 U switchable to...	6,0	3 ~ 400	■		6	6			430	■			240
		7,5	3 ~ 400	■		6	7,5			430	■			240
		9,0	3 ~ 400	■		6	9			430	■			240
A 90204	RSW 2-24 U switchable to...	12,0	3 ~ 400		■	6	12			530	■			240
		16,0	3 ~ 400		■	6	12	4		530	■			240
		24,0	3 ~ 400		■	6	12	12		530	■			240
A 90205	RSW 2 - 45 U switchable to...	20,0	3 ~ 400		■	9	15		5	630	■			240
		30,0	3 ~ 400		■	9	15	15		630	■			240
		35,0	3 ~ 400		■	9	15	15	5	630	■			240
		45,0	3 ~ 400		■	9	15	15	15	630	■			240

Auxiliary table for determining the connection power (kW, built in heater type) for heating from 10°C to 85°C (reduction factor for heating from 10°C to 65°C, table value x 0.73). Flange edges at the lowest point of the boiler.

Heating up time	Container volume to be heated													
	150 l	200 l	250 l	300 l	500 l	800 l	1000 l							
	kW	R...Type	kW	R...Type	kW	R...Type	kW	R...Type	kW	R...Type	kW	R...Type	kW	R...Type
8	1,7	REU 18 - 1,7	2,3	REU 18 - 2,5	2,9	REU 18 - 3,3	3,5	RDU 18 - 3,8	5,7	RDU 18 - 6,0	9,1	RDW 2-9 U	11,5	RSW 2 - 24 U
				RDU 18 - 2,5		RDU 18 - 3,0								
6	2,3	REU 18 - 2,5	3,1	REU 18 - 3,3	3,8	RDU 18 - 3,8	4,6	RDU 18 - 5,0	7,5	RDW 18 - 7,5	11,7	RSW 2-24 U	15,1	RSW 2 - 24 U
		RDU 18 - 2,5		RDU 18 - 3,0										
4	3,4	RDU 18 - 3,8	4,6	RDU 18 - 5,0	5,7	RDU 18 - 6,0	6,8	RDW 18 - 7,5	11,3	RDU 18 - 12,0	18,1	RSW 2 - 45 U	22,7	RSW 2 - 24 U
3 1/2	4,1	RDU 18 - 5,0	5,5	RDU 18 - 6,0	6,8	RDU 18 - 7,5	8,2	RDW 18 - 10,5	13,6	RDU 18 - 15,0	21,8	RSW 2 - 24 U	27,2	RSW 2 - 45 U

BUILT IN RIBBED PIPE HEAT EXCHANGER RWT TYPE SERIES

Using a built in ribbed pipe heat exchanger it is possible heat a flanged storage tank indirectly thereby upgrading or modifying it to be a register storage tank. A combination with CrNi (NIRO) boilers is problematic and is therefore not recommended.

Eligible heating media are hot water from alternative energy sources such as solar systems and heat pumps, but also from district heating and conventional boilers.

By installing several independent ribbed pipe heat exchangers and/or the additional installation in the pipe register storage tank, it is possible to construct multi-valent systems.

The heating circuit medium (water or frost-proof thermal carrier) flows through the ribbed pipe from the heat source via the heat charge pump. Free convection is generated on the outside of the ribbed pipe. The ribbed pipe heat exchangers are usually installed horizontally in the storage tank and are completely immersed in the water to be heated.

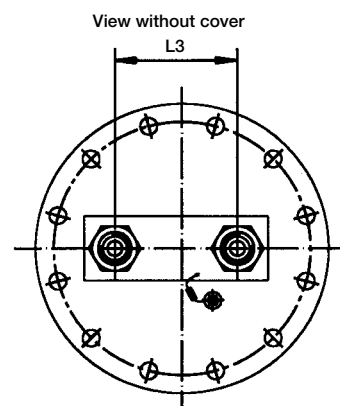
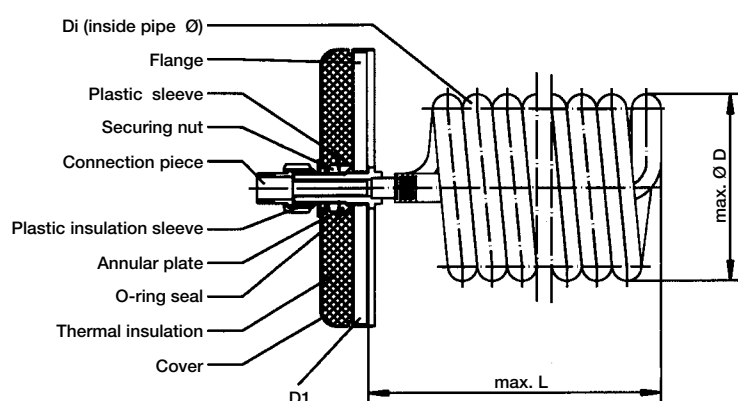
The RWT type ribbed pipe heat exchangers are made from a seamless, helically wound SF-Cu ribbed pipe and are provided with a full set of connection screws. They are factory installed and insulated on an enamelled flange plate and are fitted with insulated connection sleeves as well as a protective current bleeder resistor. For the reduction of thermal loss the flange plate as well as the connectors are covered by a thermally insulated, matt black painted steel plate cover.



Ribbed pipe heat exchanger

Operating pressure outside and inside 10 bars max.

Permissible operating temperature 95°C. Care must be taken to ensure that the temperature does not exceed 95°C as a result of external temperature increases. In case of hard water and operation of the storage tank above 60°C protective measures must be put in place in the form of water softening systems or else the system must be cleaned regularly as thermal transfer performances can be reduced significantly.



TECHNICAL DATA

Article No.	Type	Heating surface m ²	Flange Ø - hole	max. Ø mm	Installation length mm	Connections G	L ₃	Contents l
A 90503	RWT 2 - 180	1.8	240 - 12 hole	170	450	3/4"	100	1.6
A 90505	RWT 2 - 360	3.6	240 - 12 hole	170	650	1"	100	3.0
A 90506	RWT 2 - 450	4.5	240 - 12 hole	170	790	1"	100	3.5
A 90610	RWT 1 - 110 D*	1.1	180 - 8 hole	110	370	3/4"	60	0.8
A 90613	RWT 1 - 140 D*	1.4	180 - 8 hole	110	440	3/4"	60	1.5
A 90615	RWT 2 - 230 D*	2.3	240 - 12 hole	165	450	3/4"	100	1.9
A 90616	RWT 2 - 310 D*	3.1	240 - 12 hole	165	530	1"	100	2.5

* Immersion sleeve (control option)

RWT TECHNICAL DATA

The table values shown below for the ribbed pipe heat exchangers are nominal values applicable to newly and horizontally installed condition. The details are given for various hot water through flow volumes (flow n l/h), flow temperatures (VL) and domestic water (BW) heating from 10 to 45 or 60°C

- Throughput performance in kW
- Hot water performance in l/h
- Current resistance in mbar

They are dependent upon the installation situation as well as the convection currents arising within the boiler.

As the usual heating circulation pumps can overcome lifting heights of a maximum of 450 mbar the selected flow resistance in the built in ribbed pipe heat exchanger should not be higher than 200 to 250 mbar.

ACCESSORIES (See Page 8)

Boiler flange with raw edges KFZ 180 – 8, KFZ 240 – 12

Type 8710 enamelled intermediate flange

Flange screws M12 x 35

Isolating fittings for 3/4" and 1"

Type	VL / BW	560 l/h			680 l/h			780 l/h		
		kW	l/h	mbar	kW	l/h	mbar	kW	l/h	mbar
RWT 1 - 140 D	90/45	27.2	670	100	30.4	748	150	34.2	842	200
RWT 1 - 140 D	80/45	20.7	510	100	23.7	583	150	27.2	670	200
RWT 1 - 140 D	70/45	14.8	364	100	16.8	414	150	18.7	460	200
RWT 1 - 140 D	60/45	9.2	226	100	10.7	263	150	11.8	290	200
RWT 1 - 140 D	50/45	4.4	108	100	5.3	130	150	5.7	140	200
RWT 1 - 140 D	90/60	20.9	360	100	24.1	415	150	27.9	481	200
RWT 1 - 140 D	80/60	14.2	245	100	16.5	284	150	18.4	317	200
RWT 1 - 140 D	70/60	7.8	134	100	9.2	159	150	10.4	179	200
RWT 1 - 110 D	90/45	21.5	528	100	24	590	150	27	663	200
RWT 1 - 110 D	80/45	16.3	401	100	18.7	460	150	21.5	528	200
RWT 1 - 110 D	70/45	11.7	288	100	13.3	327	150	14.8	364	200
RWT 1 - 110 D	60/45	7.3	179	100	8.5	209	150	9.3	229	200
RWT 1 - 110 D	50/45	3.5	86	100	4.2	103	150	4.5	111	200
RWT 1 - 110 D	90/60	16.5	284	100	19	327	150	22	378	200
RWT 1 - 110 D	80/60	11.2	193	100	13	224	150	14.5	250	200
RWT 1 - 110 D	70/60	6.2	107	100	7.3	126	150	8.2	141	200
		860 l/h			1040 l/h			1200 l/h		
RWT 2 - 180	90/45	28.5	708	75	33	815	110	37	910	155
RWT 2 - 180	80/45	21.5	535	75	25.5	630	110	28.5	705	155
RWT 2 - 180	70/45	16.2	400	75	18.5	460	110	21	510	155
RWT 2 - 180	60/45	9.5	235	75	11.5	285	110	12.6	310	155
RWT 2 - 180	50/45	4.5	112	75	5.3	130	110	6	150	155
RWT 2 - 180	90/60	21	361	75	24.6	425	110	28.2	485	155
RWT 2 - 180	80/60	14.5	250	75	17.2	300	110	20	340	155
RWT 2 - 180	70/60	7.4	125	75	8.7	150	110	10.2	174	155
RWT 2 - 230 D	90/45	37	909	100	42.5	1044	150	47.5	1167	200
RWT 2 - 230 D	80/45	28	688	100	33	811	150	37	909	200
RWT 2 - 230 D	70/45	21	516	100	24	590	150	27	663	200
RWT 2 - 230 D	60/45	12.5	307	100	15	369	150	16.5	405	200
RWT 2 - 230 D	50/45	6	147	100	7	172	150	8	197	200
RWT 2 - 230 D	90/60	27	464	100	32	550	150	36.5	628	200
RWT 2 - 230 D	80/60	19	327	100	22.5	387	150	26	447	200
RWT 2 - 230 D	70/60	9.7	167	100	11.5	198	150	13.3	229	200
		1780 l/h			2200 l/h			2550 l/h		
RWT 2 - 360	90/45	63	1548	100	74	1818	150	82	2015	200
RWT 2 - 360	80/45	51.5	1265	100	60	1474	150	66	1622	200
RWT 2 - 360	70/45	37	909	100	42	1032	150	47	1155	200
RWT 2 - 360	60/45	23	565	100	27	663	150	29	712	200
RWT 2 - 360	50/45	11.5	282	100	13	319	150	14.5	356	200
RWT 2 - 360	90/60	47	808	100	57	980	150	65	1118	200
RWT 2 - 360	80/60	33	568	100	39	671	150	45	774	200
RWT 2 - 360	70/60	18	310	100	22	378	150	25	430	200
		1600 l/h			1950 l/h			2250 l/h		
RWT 2 - 450	90/45	65	1597	100	76	1867	150	84	2064	200
RWT 2 - 450	80/45	52	1278	100	61	1499	150	67	1646	200
RWT 2 - 450	70/45	37.5	921	100	43.5	1069	150	48	1179	200
RWT 2 - 450	60/45	23.5	577	100	27.5	676	150	31.5	774	200
RWT 2 - 450	50/45	12	295	100	13.5	332	150	15.5	381	200
RWT 2 - 450	90/60	48	826	100	58	998	150	66	1135	200
RWT 2 - 450	80/60	34	585	100	41	705	150	46	791	200
RWT 2 - 450	70/60	19	327	100	23	396	150	26	447	200

ACCESSORIES FOR BUILT IN HEATER AND UPRIGHT STORAGE TANKS

- Blind flange: 180 mm - 8 hole and 240 mm - 12 hole
- Flange seal: 180 mm and 240 mm
- Intermediate flange from 240 - 12 hole and to 180 - 8 hole
- Boiler flange with crude frame (total length KFZ 180 - 8: 130 mm, KFZ 240 - 12: 125 mm)
- Isolation cover 180 mm plastic and 240 mm steel plate black/PU for isolating the blind flange – not depicted
- Type ISO 180 and ISO 240
- Reduction 1½" – 2" brass for SH-Series – not depicted
- Screw plug ⅝" for closing off the heater element sleeve – not depicted.
- Mountable thermometer for upright storage tank series and double jacket storage tanks.
- Mountable thermometer charging pump combination for upright storage tank series and double jacket storage tank charging pump regulators. Contacts: Single pole changeover contacts, electrical switching capacity 16 A/230 V, temperature adjustment range 30°C – 85°C.

Thermometer: see ATH. The two capillary tube sensors of the regulator and the thermometer are designed for the double sensor channels in the upright storage tank series. Thermometer and regulator are integrated in a matt black plastic cover.

- Stray current anode ½": Maintenance free electronic controlled stray current anode with non-depleting titanium anode. Connection voltage ~230 V, connection via schucko socket, 2 m connector cable, nominal current 100 mA, nominal performance 0.24 VA.
- Reduction fitting 1¼" – ½" for installation of the stray current anode in the upright storage tank series: As exchange part for the magnesium anode installed as standard.
- Safety group SG ¾", 6 bar.



Blind flange
Type BFE 180 - 8



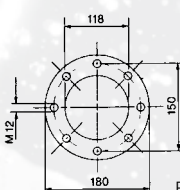
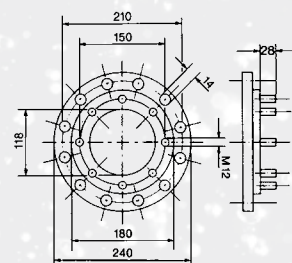
Blind flange
Type BFE 240 - 12



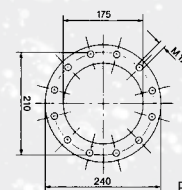
Flange seal
Type FD 180 and FD 240



Intermediate flange
Type 8710



Boiler flanges
Type KFZ 180 - 8
for REU-1, RDU-1,
RSW-18, RUL 18,
RWT-1



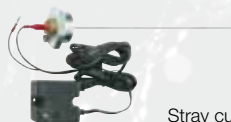
Boiler flanges
Type KFZ 240 - 12
for RDW-2
RSW-2
RWT-2



Type ATH – precise display capillary thermometer, display from 0 – 120° C.



Type ATR



Stray current anode ½"



Reduction fitting 1¼-½.



Safety group with AV, RV, in MB including drip tray for SSP and upright storage tank up to 1000 litre capacity.

Head office and factory: Austria Email AG
A-8720 Knittelfeld, Austriastrasse 6
Phone (03512) 700-0, Fax (03512) 700-239
Internet: www.austria-email.at
E-mail: office@austria-email.at
Customer Service: Phone (03512) 700-297
E-mail: kundendienst@austria-email.at

Sales offices:

Vienna, Lower Austria, Burgenland
A-1230 Wien, Zetschegasse 17
Phone (01) 6150727, Fax (01) 6150727-260
E-mail: bhrastnik@austria-email.at

Styria, Carinthia, East Tyrol
A-8053 Graz, Am Wagrain 62
Phone (0316) 271869, Fax (0316) 273126
E-mail: gbretterklicber@austria-email.at

Upper Austria, Salzburg
A-4600 Wels, Gärtnerstrasse 17
Phone (07242) 45071, Fax (07242) 43650
E-mail: akwetton@austria-email.at

Tyrol, Vorarlberg
A-6020 Innsbruck, Etrichgasse 24
Phone (0512) 347951, Fax (0512) 393353
E-mail: hruapp@austria-email.at

Sales offices Germany:

Germany North/East
D-14770 Brandenburg, Beetzseeufer 3
Phone 0049/(0)3381 / 766-0
Fax 0049/(0)3381 / 766-244
E-mail: sgobi@austria-email.at

Germany South
D-92637 Weiden/Opf., Parksteiner Strasse 49
Phone 0049/(0)961 / 63 490-0
Fax 0049/(0)961 / 63 490-30
E-mail: ahirmer@austria-email.at

AE
Austria Email