Austria Email

High performance water heater

HRS

THE

PERFECT COMPLEMENT

TO YOUR HEAT PUMP

High performance water heater

HRS 200 | 300 | 400 | 500 | 750 | 900 Liter

In response to the ever-increasing demand for low return temperatures in the heating circuit, Austria Email has developed a cylinder that is equipped with extremely large heating surfaces.

PRODUCT ADVANTAGES

- Particularly high transmission capacity
- Perfectly suitable for low-energy houses or heat pump systems
- Energy-saving 50 mm PU insulation
- High-quality dial thermometer fitted

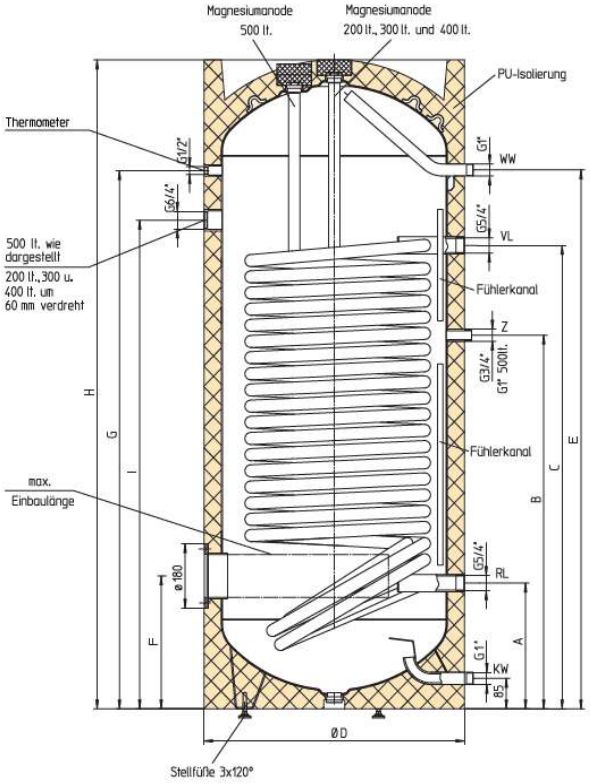
TECHNICAL ADVANTAGES

- Smooth tube heat exchanger with particularly large heating surfaces
- Max. Operating pressure [bar]: 10
- Max. Max.operating temperature [°C]: 95
- Inner boiler enamelled in accordance with DIN 4753 T3
- Magnesium protective anode in accordance with DIN 4753 T3 (HRS 200-500 litres)
- With fitted external flow anode (HRS 750,900 litres)

High performance water heater

Technical data

HRS 200-500 Litres



- Separately supplied foil jacket (silver-grey)
- Circulation: 3/4“ AG for HRS 200 - 400, 1‘ AG for HRS 500
- Variable sensor position (sensor channel)
- 6/4”‘ socket for screw-in heating element
  “SH” for electrical reheating (sealed at the factory)
- Blind flange set with insulating cover (fitted)
- Connections turned 180° to the flange
- Heating flow and return are designedas 1’ internal thread
- Circulation connection: External thread: as per dimensional drawing

Type		HRS 200	HRS 300	HRS 400	HRS 500
Article no.		A 223 29	A 225 33	A 241 21	A 245 32
Dimensions	H x øD	1295x610	1435x680	1800x680	1806x760
	A	305	320	320	350
	B	730	840	1000	1040
	C	840	990	1260	1290
	E	1057	1160	1525	1500
	F	305	345	345	370
	G	1067	1156	1521	1496
	I	980	1050	1330	1360
Heat exchanger area	m^2	2,5	3,5	5,0	6,0
Tilting dimension	mm	1450	1595	1930	1970
Tube register capacity	l	16,2	22,6	32,2	39,6
NL number to DIN 4708		7,0	14,1	23,5	29,7
ETE	mm	6/4“/500	6/4“/545	6/4“/545	6/4“/685
ETF	mm	180/375	180/450	180/450	180/530
Weight	kg	115	170	212	254

ETE: Installation depth screw-in heating sleeve for SH heating

ETF: Installation depth flange (for built-in heating or finned tube heat exchanger)

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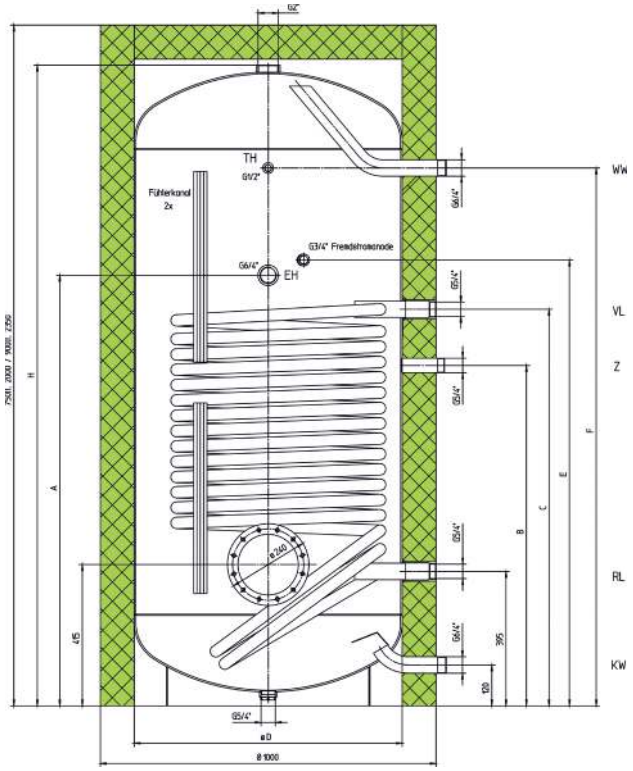
Technical data

HRS 750-900 Litres



- Circulation: 5/4“
- sensor position variable (sensor channel)
- 6/4“ socket for screw-in heating element ’SH“ for electrical reheating (closed at the factory)

Type		HRS 750	HRS 900
Article no.		A 313 24	A 315 26
Dimensions	H x øD	1882x790	2228x790
	H x øD incl. insulation	2000x1000	2350x1000
	A	1265	1445
	B	1000	1180
	C	1165	1345
	E	1310	1490
	F	1580	1920
Heat exchanger area	m^2	6,0	7,5
Tilting dimension	mm	1960	2300
Tube register capacity	l	39,6	49,7
NL number to DIN 4708		38,8	47,6
ETE	mm	6/4“/850	6/4“/850
ETF	mm	240/680	240/680
Weight	kg	317	374

ETE: Installation depth screw-in heating sleeve for SH heating

ETF: Installation depth flange (for built-in heating or finned tube heat exchanger)

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Throughput rates

HRS 200-500 Litres

Flow temperature	°C	70	70	70	70	80	80	80	80	70	70	70	70	80	80	80	80
Hot water temperature	°C	45	45	45	45	45	45	45	45	60	60	60	60	60	60	60	60
Cold water temperature	°C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Heating circuit flow rate	l/h	500	1000	2000	3000	500	1000	2000	3000	500	1000	2000	3000	500	1000	2000	3000
HRS 200	kW	19,7	30,2	40	45	24,8	37,8	50,4	56,8	16,2	24,4	32	36	22,2	33,7	45	50,9
	l/h	486	744	985	1107	610	930	1239	1396	278	419	551	619	382	580	774	874
HRS 300	kW	24,7	38,7	58	69,7	30,3	48,8	75	89,7	20,5	31,2	45	53	27,1	43	64	76,5
	l/h	608	952	1427	1715	744	1199	1845	2207	353	537	775	913	466	740	1102	1316
HRS 400	kW	27,8	46,8	72	88,5	33,8	57,6	94	115,5	24	38,5	57	69	30,9	52,4	82	100,2
	l/h	684	1151	1771	2177	830	1417	2312	2841	413	663	982	1188	531	901	1412	1725
HRS 500	kW	28,6	47,9	75	91,8	34,4	59	94	114,7	24,9	40	60	71,8	31,8	53,1	82	99,4
	l/h	704	1178	1845	2258	846	1451	2312	2820	429	689	1033	1236	548	914	1412	1712

HRS 750-900 Litres

Flow temperature	°C	70	70	70	70	80	80	80	80	70	70	70	70	80	80	80	80
Hot water temperature	°C	45	45	45	45	45	45	45	45	60	60	60	60	60	60	60	60
Cold water temperature	°C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Heating circuit flow rate	l/h	500	1000	2000	3000	500	1000	2000	3000	500	1000	2000	3000	500	1000	2000	3000
HRS 750	kW	28,5	46,8	71,3	87,4	35	59,1	92,1	114	22,6	34,4	49,7	59,4	29	48,4	72,1	87,4
	l/h	700	1149	1752	2147	860	1452	2262	2801	390	591	855	1021	500	832	1240	1503
HRS 900	kW	30,5	54,5	84,9	103,4	36,9	66,3	104,7	128,5	27	46,7	70,5	84,8	34,6	61,2	95,1	116,1
	l/h	755	1347	2097	2555	912	1639	2588	3174	468	811	1223	1471	601	1061	1650	2014

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Accessories

HRS 200-500 Litres

- Flange heater Ø 180 mm
- Flow safety and non-return valve DL-SVRV
- Electric screw-in heater SH series
- Finned tube heat exchanger RWT

HRS 750-900 Litres

- Attachment thermometer-charging pump-regulator combination ATR
- Flange-mounted heater Ø 240 mm
- Electric screw-in heater SH series
- Finned tube heat exchanger RWT

ECO DESIGN LABELLING

Type	Heat retention loss according to EN 12897		Tap profile	Energy efficiency class
	kWh/24h	Watt		
HRS 200	1,37	57	XL	B
HRS 300	1,53	64	XXL	B
HRS 400	1,76	73	XXL	B
HRS 500	1,90	79	3XL	B
HRS 750	2,56	107	3XL	C
HRS 900	2,87	120	4XL	C

Head office: Austria Email AG,
Austriastraße 6, 8720 Knittelfeld
Tel.: +43 0 3512 700-0
E-Mail: office@austria-email.at
Internet: www.austria-email.at

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