J.01

Air to Water Heat Pumps

HTI PREMIUM+

- Intuis - Auer
- Air/water monoblock
- Hydromodule
- R290

Inverter high temperature heat pump 70°C type HTI PREMIUM+

The HTI air/water heat pump uses heat from nature and converts it into usable hot water. The construction of the unit makes it possible to heat water up to 70°C at negative outside temperatures without using a resistance. The unit guarantees good operation down to -20°C outside temperature. The natural refrigerant R290 (propane) has a GWP value of 3 and is therefore hundreds of times better than alternative refrigerants. The HTI is a single heating unit that uses a scroll compressor to ensure a good operation in part load and a low power consumption. Due to the special construction of the unit, the unit will have to defrost less often and the defrost cycle will be completed as efficiently as possible. The unit maintains its high COP values even at negative outside temperatures.

Brand

- Auer - Intuis

Application

- Production of domestic hot water
- Floor heating
- Fan coils
- Radiators

Appropriate for:

- Renovation of houses

Composition

Monoblock outdoor unit HTI^{70} 6-8-11-14 kW including:

- Communication bus cable 10 m long HTI/ Pilote (3-wired and already connected to the HTI) (do not connect in parallel with the power cable).
- Flexible hose (Durite) 1 m long => rest in an insulated rigid pipe towards the indoor module (diameter depending on the distance between the two, see table below).
- Ball valve with integrated filter to be mounted on the return connection.
- Overpressure valve 2.5 bar to be mounted on the flow connection.

Indoor module Pilote PREMIUM+:

- 1x primary + 1x secondary pump
- Buffer tank/ hydraulic decoupling bottle 38 liters with air purge and drain valve
- Extra hydraulic connection for bivalent operation with boiler

- Adjustable backup resistance 0-6 kW
- Pressure sensor
- Flow meter
- Electronic regulation
- USB stick (included with manual)
- Outdoor sensor for weather dependent control

Installation

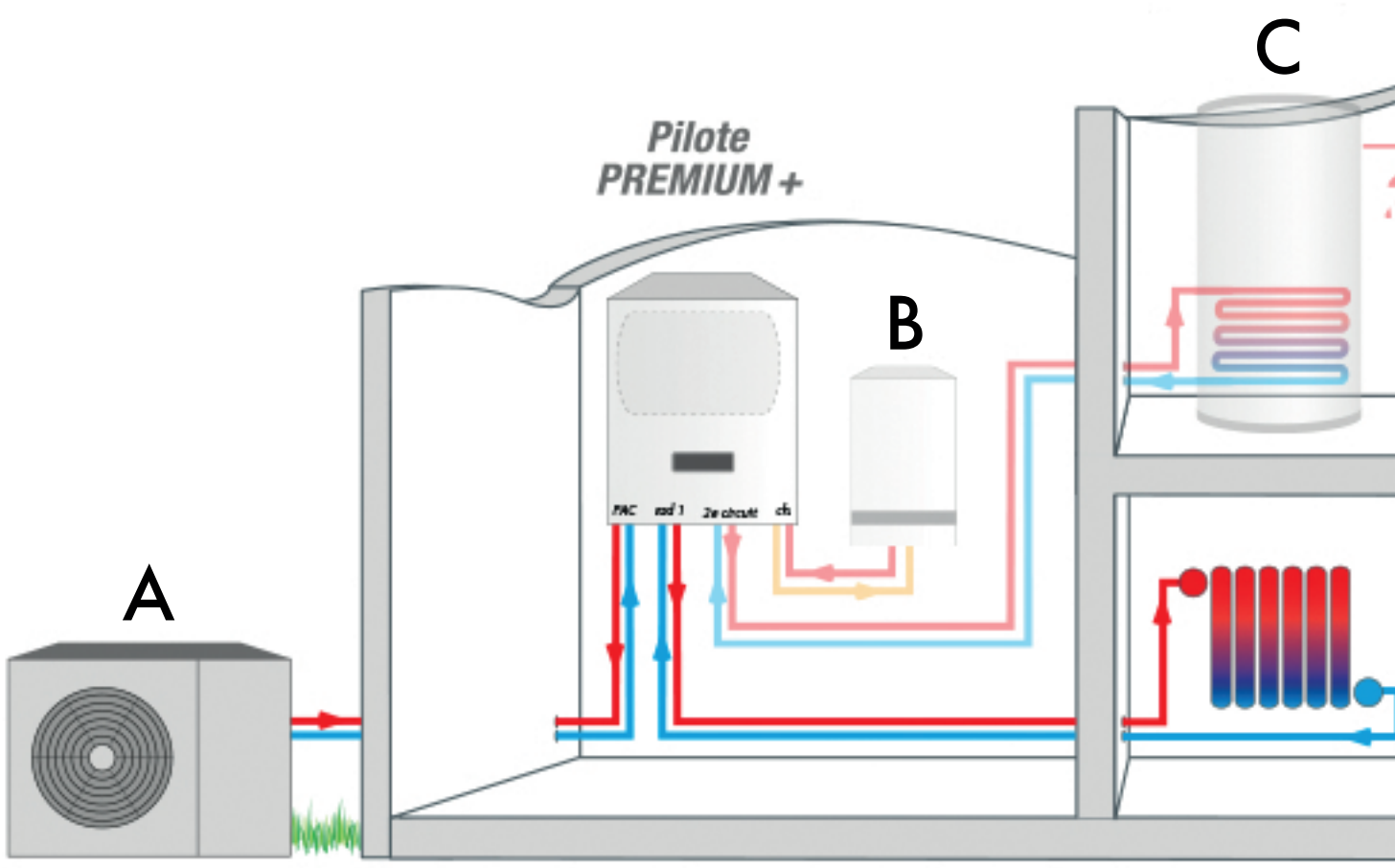
- When combining production of DHW with central heating water, an extra pump and a DHW S HRC70 sensor must be provided.
- **The addition of an anti-corrosion agent or a glycol/anti-corrosion mixture is mandatory.**

Accessories

- Room thermostat **TH HRC70**
- Domestic hot water sensor **DHW S HRC70**
- Additional secondary pump **HRC PK Premium+**
- Regulation on 2nd circuit with lower water temperature **THORIX**
- Clean existing heating systems first.
- Startup is chargeable (MANDATORY), type **XSTARTUPJ with q**uotation on demand and with startup report according to Auer standards

Applicable boiler

- Warm water tank 300 liters, type **SANI+ 300 R-AQUA**
- Warm water tank 500 liters, type **SANI+ 500 R-AQUA**



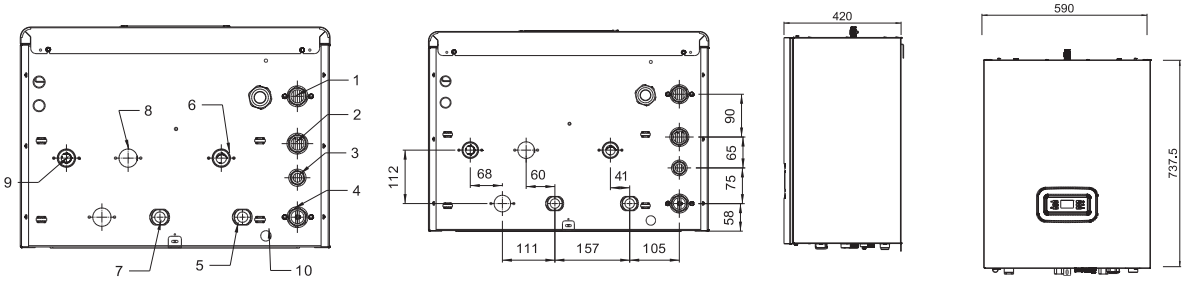
Notes

A: HTI[70]
B: Bivalent with existing central heating boiler possible
C: DHW-tank optional
D: 2nd circuit DHW or CH

Schematic diagram: see technical manual for the exact connection of the hydraulic connections

Technical data								
HTI outdoor unit		**HTI 6 mono**	**8 mono**	**8 tri**	**11 mono**	**11 tri**	**14 mono**	**14 tri**
Maximum water temperature	**°C**	70						
Maximum heating power	**kW**	6	8	8	11	11	14	14
Rated heating power +7°C/+35°C	**kW**	4.17	6.06	6.06	9.01	9.01	11.21	11.21
Rated heating power +7°C/+35°C	**kW**	0.83	1.13	1.13	1.85	1.85	2.29	2.29
COP +7°C/+35°C		5.05	5.35	5.35	4.86	4.86	4.89	4.89
Heating power -7°C/+65°C	**kW**	5.5	6.85	6.85	11.0	11.0	13.0	13.0
Energy class 35°C/55°C		A+++/A++	A+++/A+++	A+++/A+++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Annual energy consumption	**KWh/jaar**	2571	3134	3134	4894	4894	6324	6324
Sound level (EN 14825 +7°C/+55°C Aver.)	**dB(A)**	56	57	57	50	50	60	60
Refrigerant (GWP)		R290 (3)						
Amount of refrigerant R290	**kg (CO2eq)**	0.42 (1,26)	0.6 (1,8)	0.6 (1,8)	0.8 (2,4)	0.8 (2,4)	0.95 (2,85)	0.95 (2,85)
Outdoor unit dimensions (HxWxD)	**mm**	1035 x 820 x 480	1035 x 1070 x 480	1035 x 1070 x 480	1235 x 1070 x 480	1235 x 1070 x 480	1235 x 1070 x 480	1235 x 1070 x 480
Outdoor unit weight	**kg**	84	98	109	121	126	128	133
Nominal air flow rate	**m³/h**	3500	3500	3500	7250	7250	8000	8000
Nominal water flow rate	**m³/h**	1.05	1.35	1.35	1.65	1.65	1.85	1.85
Hydraulic connection diameter	**mm**	26/34 mannelijk						
Operating range	**°C**	-20°C tot +40°C						
Maximum absorbed current	**A**	15	15	6	30	10	30	10
Power supply outdoor unit		230V	230V	400V tri	230V	400V tri	230V	400V tri
Fuse	**A**	20 mono	20 mono	16 tri	32 mono	16 tri	32 mono	20 tri
Cable section		3G2,5	3G2,5	5G2,5	3G6	5G2,5	3G6	5G2,5
Power OFF position (POFF)		0.003	0.003	0.003	0.003	0.003	0.003	0.003
Power thermostat OFF (PTO)		0.005						
Power standby (PSB)		0.003						
Power carter heating (PCK)		0.013						

Technical data			
Indoor module PILOT		**Pilote PREMIUM+**	
Minimum power cable width	**mm²**	3G6	5G2,5
Circuit breaker	**A**	32	16
Power supply		230V 1 ph	400V 3ph
Multifunctional tank	**L**	38	
Dimensions Pilote PREMIUM+	**mm**	H 845 x L 590 x D 420	
Weight of the PILOT without water	**kg**	47	
Hydraulic connections	**mm**	26/34 male	
Boiler connection		compatible	
Electrical back-up heater (as standard)	**kW**	0 to 6 kW	
Decoupling of circuits		Yes	



Dimensions			
		Description	**Hydraulic connection**
1		Outgoing water heat pump	1"
2		Incoming water back-up boiler	1"
3		Emptying	3/4"
4		Outgoing water back-up boiler	1"
5		Incoming water circuit 1	1"
6		Outgoing water circuit 1	1"
7		Incoming water circuit 2 (optional)	1"
8		Outgoing water circuit 2 (optional)	1"
9		Incoming water (cold) to heat pump	1"
10		Safety valve for draining	
HTI		**Minimum required piping diameter**	
		6 kW	**8 kW**
If distance between heat pump and indoor module >10m (or the equivalent of 20m linear pressure losses)	**[mm]**	22/24	22/24
If distance between heat pump and indoor module >10m and <15m (or the equivalent of 30m lineair drukverlies)	**[mm]**	24/6	28/30
If distance between heat pump and indoor module >15 and <25m (or the equivalent of 50m linear pressure losses)	**[mm]**	28/30	32/34
If distance between heat pump and indoor module >25m and <50m (or the equivalent of 100m linear pressure losses)	**[mm]**	32/34	36/38