



High temperature heat pump 70°C type HRC PREMIUM+

The HRC 70 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 HRC70 is a single heating unit that uses 2 scroll compressors with a soft starter as standard. This ensures 3 power stages and 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
- Production of domestic hot water for showers in fitness centers, factories, sporting facilities,...
- Heating of halls and large rooms

Composition

Monoblock outdoor unit **HRC70**

Indoor module:

- 1x primary + 1x secondary pump
- Buffer tank 38 liters
- Adjustable backup resistance 0-6 kW
- Pressure sensor
- Flow meter
- Electronic regulation
- Pressure relief valve

- Outdoor sensor for weather dependent control

Installation

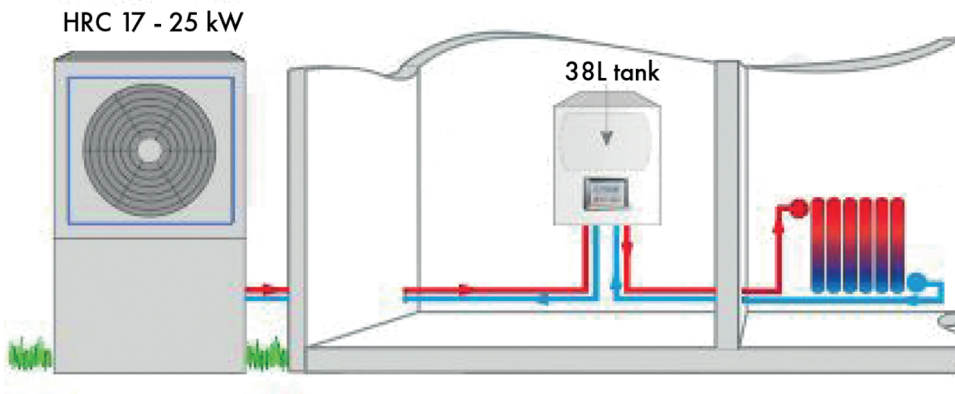
- When combining production of DHW with central heating water, an extra pump and a DHW S HRC70 sensor must be provided.
- The addition of an anti-corrosion agent or a glycol/anti-corrosion mixture is mandatory.

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**
- Startup (MANDATORY), type **XSTARTUPJ**

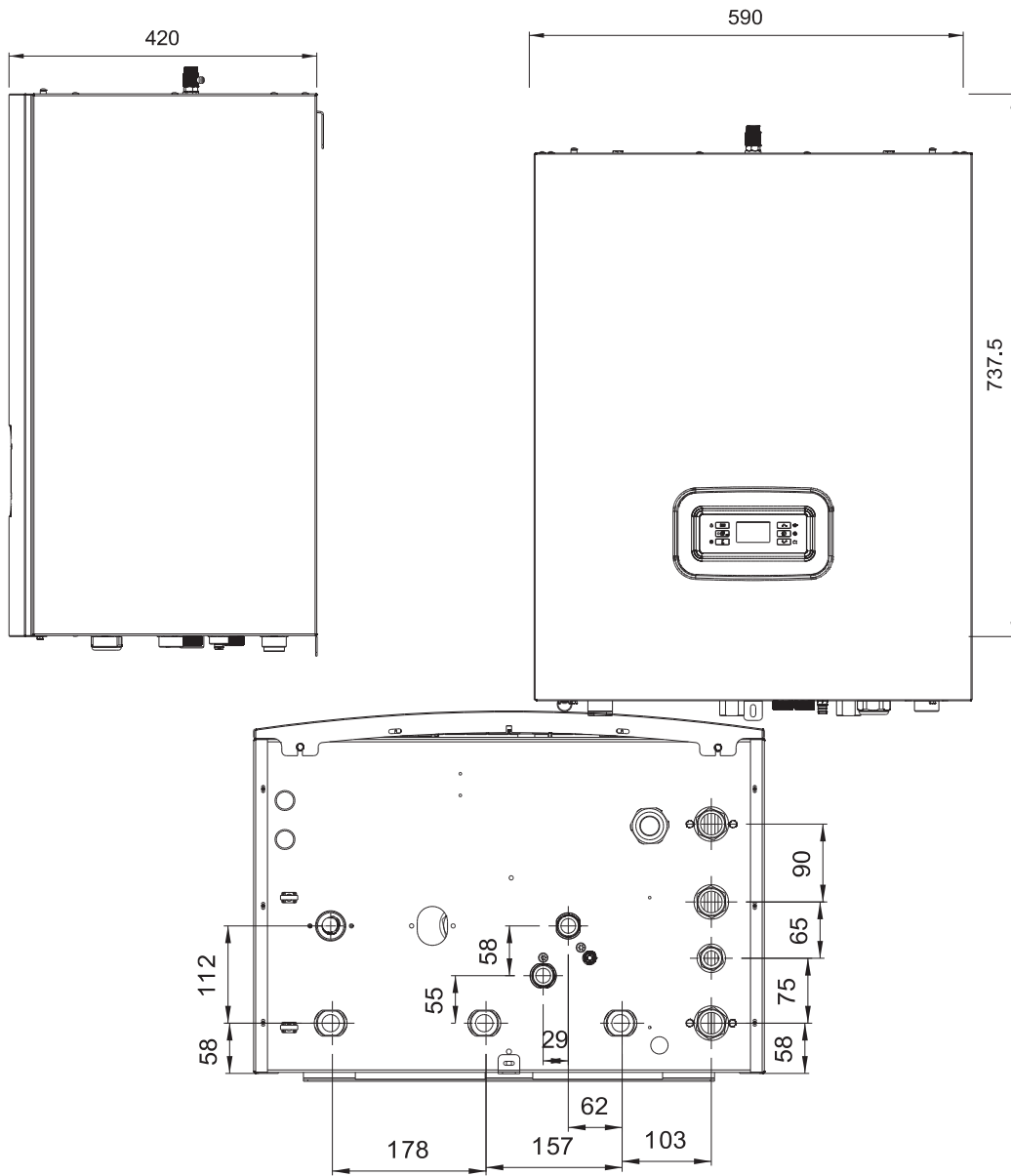
Applicable boiler

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



		Technical data			
HRC 70		17 single-phase	17 three-phase	20 three-phase	25 three-phase
Maximum water temperature	°C	70			
Maximum heating capacity	kW	19.8	19.8	23.2	28.3
Heating capacity +7°C/+35°C	kW	16.6	16.6	19.6	24
Absorbed power +7°C/+35°C	kW	3.4	3.4	4.4	5.2
COP +7°C/+35°C		4.4	4.9	4.6	4.6
Heating capacity -7°C/+70°C	kW	10.5	10.5	12.7	15.5
Energy class		A++			
Annual energy consumption	KWh/year	5552	5384	6885	8086
Sound level according to EN 12102	dB(a)	60	60	61	61
Refrigerant (GWP)		R290 (3)			
Amount of refrigerant R290	kg	0.9			
Outdoor unit dimensions HxWxD	mm	1660 x 1035 x 523	1660 x 1035 x 523	1661 x 1035 x 523	1662 x 1035 x 523
Indoor module dimensions HxWxD	mm	670 x 570 x 880			
Outdoor unit weight (without water)	kg	245	245	252	265
Indoor module weight (without water)	kg	65			
Nominal air flow rate	m ³ /h	3500	3500	4500	4500
Nominal water flow rate	m ³ /h	1.35 (Dt10°C)	1.35 (Dt10°C)	1.55 (Dt10°C)	1.85 (Dt10°C)
Hydraulic connection diameter	inch	1" male			
Operating range	°C	-20°C ~ +40°C			
Maximum absorbed current outdoor unit	A	35	13	15	18
Outdoor unit fuse	A	40	25	25	32
Indoor module fuse	A	32	20	20	20
Power position OFF (POFF)	kW	0.023			
Power thermostat OFF (PTO)	kW	0.008			
Power in standby (PSB)	kW	0.005			
Power carter heater (PCK)	kW	0.005			

		Technical data	
Indoor module PILOT		Pilote PREMIUM+	
Minimum power cable width	mm ²	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 connections		
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 (cold) water heat pump	1"		
10		Safety valve for draining			
HRC		Minimum required piping diameter			
			17	20	25
If distance between heat pump and indoor module >10m (or the equivalent of 20m linear pressure losses)	[mm]		26/28	30/32	34/36
If distance between heat pump and indoor module >10m and <15m (or the equivalent of 30m linear pressure losses)	[mm]		30/32	34/36	38/40
If distance between heat pump and indoor module >15 and <25m (or the equivalent of 50m linear pressure losses)	[mm]		32/34	36/38	42/44
If distance between heat pump and indoor module >25m and <50m (or the equivalent of 100m linear pressure losses)	[mm]		38/40	42/44	48/50