



High temperature air/water heatpump 70°C type HRC 32 Z1

HRC⁷⁰ 32 air/water heat pumps are suitable for high water temperatures. Monoblock with natural refrigerant propane (R290) for water heating up to 70°C. The unit guarantees proper operation down to -20°C outside temperature. The HRC⁷⁰ 32 is a single heating unit that uses 2 scroll compressors with different capacities and with a soft starter as standard. This ensures 3 power stages and low power consumption. Due to the special construction, 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. Possibility to link 3 HRC⁷⁰ 32 units in cascade with a total power of 96kW.

Brand

- Auer - Intuis

Application

- Production of domestic hot water
- Floor heating
- Fan coils
- Radiators
- Also available in a cascade of 2 or 3 HRCs on 1 Pilote Z1

Composition

Monoblock heat pump (outdoor) HRC⁷⁰ 32 kW with :

- 10 m long bus cable for communication between the HRC⁷⁰ and the Pilote Z1 (3 core and already connected to HRC) (do not place in parallel with power cable).
- Flexible pipes (Durite) of 1.5 m long and rigid insulated pipe to indoor module (diameter according to distance between the two, see table at the bottom of this page).
- Filter 1"1/4 for placement on the return connection.
- 2.5 bar pressure relief valve mounted in the HRC⁷⁰.

Indoor module Pilote Z1:

- 1x primary pump + 1x secondary pump
- Buffertank/hydraulic separator 78L with air vent and release valve
- Pressure sensor
- Flow meter
- Electronic regulation
- USB stick (comes with manual)

- Shut-off valve 1 "1/4
- Filter tap 1 "1/4
- Outdoor sensor for weather dependent control

Installation

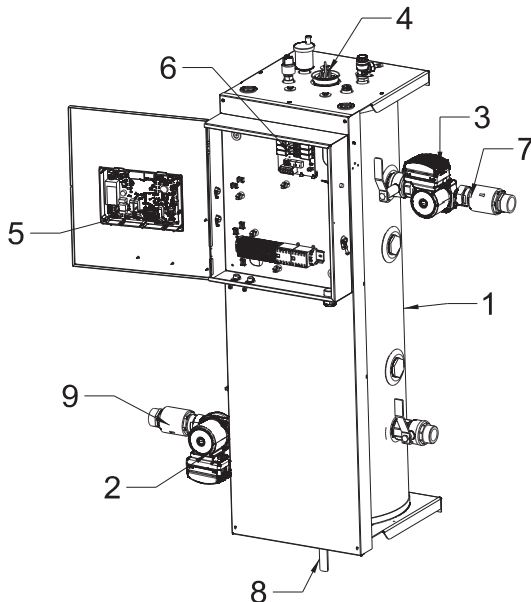
- The addition of an anti-corrosion agent or a glycol/anti-corrosion mixture is mandatory.

Accessories

- Adjustable resistance 0-6kW (build-in the Z1) on demand
- Room thermostat **RAM 812**
- Room sensor with display **TH HRC70**
- Sensor DHW **DHW S HRC70**
- Extra secondary pump **HRC PK CASCADE - 6P10**
- 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**



Notes

1. Buffer tank 78L
2. Heat pump circulation pump
3. Central heating or DHW circuit circulation pump
4. Immersion heater 6kW (Optional)
5. Electronic card
6. Power card
7. Heating / DHW circuit
8. Drain
9. Heat pump circuit

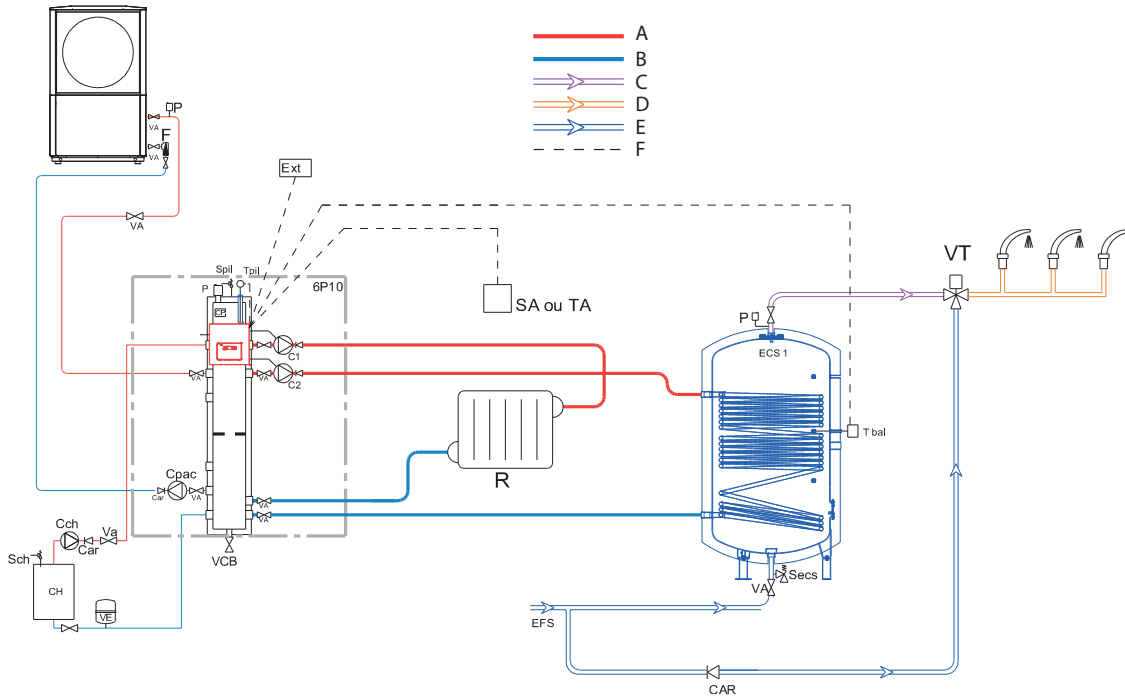
Technical data		
Technical specifications		HRC 32 Z1
Maximum water temperature	°C	70
Maximum heating capacity	kW	36
Heating capacity +7°C/+35°C	kW	30,1
Heating capacity +7°C/+35°C	kW	6,56
COP +7°C/+35°C		4,57
Heating capacity +7°C/+45°C	kW	29
Heating capacity +7°C/+55°C	kW	27,75
Heating capacity -7°C/+35°C	kW	23
Heating capacity -7°C/+45°C	kW	22
Heating capacity -7°C/+65°C	kW	20,5
Energy class 35°C/55°C		A++
Annual energy consumption	kWh/year	16051
Operating range	°C	-20°C ~ +40°C
Outdoor unit dimensions HxWxD	mm	1713 x 1235 x 561
Pumping station dimensions HxWxD	mm	1217 x 1134 x 536
Weight	kg	270
Air flow rate	m³/h	5000 to 9000
Rated water flow rate	m³/h	3,5
Condensate drain connection	mm	20/25
Hydraulic connection diameter	mm	33/42 male
Sound level according to EN 12102	dB(A)	66
Refrigerant (GWP)		R290 (3)
Amount of refrigerant R290	kg	1,4
Power supply		3 x 400V + N
Fuse	A	32
Cable section	A	5G6
Maximum absorbed power	A	25
Maximum starting current	A	42
Power position OFF (POFF)	kW	0,005
Power thermostat OFF (PTO)	kW	0,008
Power standby (PSB)	kW	0,008
Power carter heating (PCK)	kW	0,012

Technical data			Pilote Z1	
Indoor module PILOTE				
Minimum power cable width	mm²	3G6		5G2,5
Circuit breaker	A	32		20
Power supply Pilote 6P10		230V 1 ph		400V 3ph
Multifunctional tank	L		78L	
Dimensions Pilote 6P10 without the pumps	mm	H 1512 x L 410 x D 536		
Weight Pilote 6P10 without water	kg	49		
Hydraulic connections	inch	1"1/2		
Boiler connection		compatible		
Decoupling of circuits		Yes		

Technical data										
Circuit configuration		1 Circuit		2 Circuits			3 Circuits			
32 kW	Order references	CH	DHW	CH+CH	CH+DHW	DHW+DHW	CH+CH+CH	CH+CH+DHW	CH+DHW+DHW	DHW+DHW+DHW
		HRC 32 + RAM 812	HRC 32 + AQ HRC70	HRC 32 + HRC PK Cascade + 2 x RAM 812	HRC 32 + HRC PK Cascade + AQ HRC 70 + RAM 812	HRC 32 + HRC PK Cascade + 2 x AQ HRC 70	HRC 32 + HRC PK Cascade + 3 x RAM 812	NOT POSSIBLE	HRC 32 + 2 x HRC PK Cascade + AQ HRC 70 + DHW S HRC 70 + RAM 812	HRC 32 + 2 x HRC PK Cascade + 2 x AQ HRC 70 + DHW S HRC 70
	Hydraulic scheme	1	6	2	3	7	POSSIBLE	5	8	

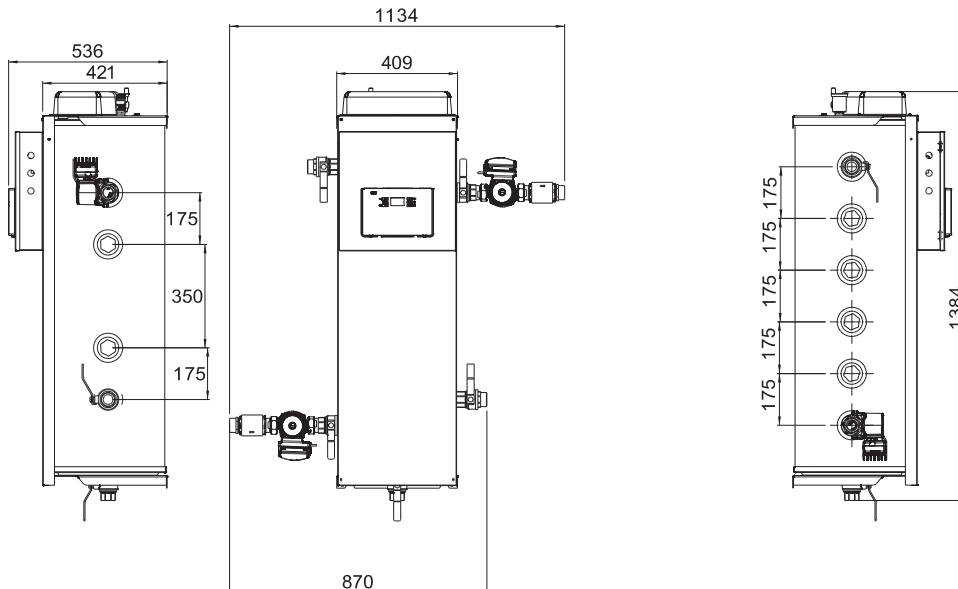
Notes

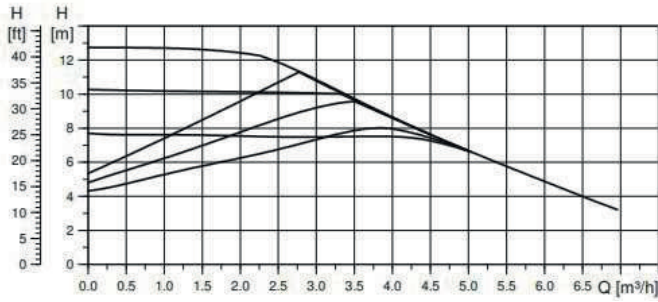
Hydraulic diagrams via our download area.



Notes

- A. Primary circuit supply
- B. Primary circuit return
- C. Domestic hot water
- D. Domestic water circulation
- E. Domestic cold water
- F. Electric control connection





Dimensions	
Minimum required piping diameter	Between HRC ³² and Z1
If distance between heat pump and indoor module <15m	36 mm / 38 mm
If distance between heat pump and indoor module <25m	42 mm / 44 mm
If distance between heat pump and indoor module <50m	46 mm / 48 mm