

HRC⁷⁰



New generation

70°C high temperature modulating heat pump







Auer

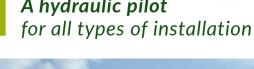


Heating guaranteed even in extreme cold!

- Heats the house independently and comfortably throughout the winter
- From 17 kW to 32 kW and up to 96kW in battery
- A hydraulic pilot







NEW HRC7032



Designed for domestic, collective, tertiary, industrial, and agricultural use.

COMPRESSORS A complete, strong and reliable range from 17 to 32 kW, with outstanding results!

HFC free **ECOLOGICAL**













HRC⁷⁰

70°C High Temperature modulating heat pump

The HRC⁷⁰ heat pump is the ideal solution to replace a fuel boiler for up to 75% of energy savings.

HIGH PERFORMANCE

- A genuine high temperature heat pump which provides heating up to 70°C, even on the coldest days.
- Modulating heating capacity: an innovating combination of two scroll compressors of different capacities, with a high pressure ratio, to constantly adjust the supply of heat to match the current heating need.
- Equipped with a multifunctional hydraulic pilot for turnkey installation.
- Can ensure your domestic hot water tank heating without any back-up required.
- Up to -20°C outside, it heats using only the heat pump.

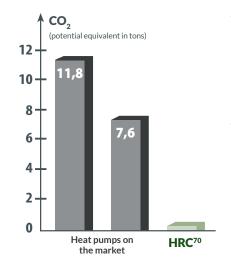
RESULT:

For every **1 kWh** of electricity used there is up to **4.9 kWh** of heat returned to the circuit, leading to almost **80% of energy savings.**

SILENT

- Extremely quiet due to the low-speed fan.
- Noise reduction technology for improved airflow and acoustics.
- 4 adjustable **shock-absorbing feet** on the base.
- Sound isolated compressor chamber.

ECO-FRIENDLY



- Auer heat pumps are produced with the non-fluorinated refrigerant, R290. It has 2100 times less impact on greenhouse gas emissions than the refrigerants used in standard systems.
- This eco-friendly refrigerant is not subject to mandatory annual maintenance checks nor the European F-GAS regulations.

The equivalent of 10 tons of CO₂ emissions avoided.

HRC⁷⁰ ADAPTS ITS PERFORMANCE BASED ON THE DEMANDS OF THE SEASONS





only the small compressor runs.



First frost,

the large compressor takes over to increase heating capacity.



Cold season,

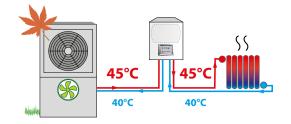
both compressors run to provide maximum heating capacity.



Why is the HRC 70 heat pump ideal when renovating?

Advantages of high temperature:

- When renovating, it can serve to replace an older heating system equipped with a hightemperature radiator circuit.
- Not only is the HRC⁷⁰ high performing it is also capable of providing domestic hot water at a high temperature.
- To ensure your central heating and maintain your comfort, you need to be able to have your radiators as well as hot water. Only a high temperature heat pump is capable of doing both using only the heat pump, leading to higher energy savings.

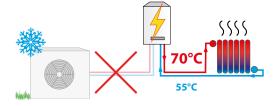


Mid-season:

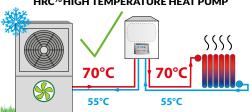
Water temperature necessary in radiators: 45°C

The HRC⁷⁰ supplies only the temperature necessary to the radiators.

LOW TEMPERATURE HEAT PUMP



HRC70 HIGH TEMPERATURE HEAT PUMP



• Winter:

Water temperature necessary in radiators: 60 to 70°C

- Low temperature heat
- pump: A low temperature heat pump cannot provide water over 50°C. It will stop and only the electric heater will function, leading to more energy consumption and less comfort.
- <u>High temperature heat</u> <u>pump</u> :

Runs 100% using only the heat pump until the outdoor air temperature drops to -20°C.

HRC⁷⁰ product range

6 It works on our existing radiators,

the house, that is very important!

The HRC^{70} heat pumps offer capacities over $80\,kW$ with an installation in battery!



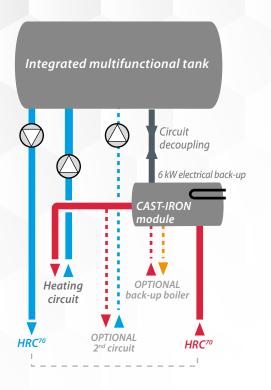
^{*} Consult your Auer correspondent to know their availability and obtain further technical details.

PREMIUM+ PILOT

For HRC⁷⁰ 17, 20 or 25 kW

Single or three-phase (delivered in single-phase)

Integrated 38 L tank for decoupling of circuits

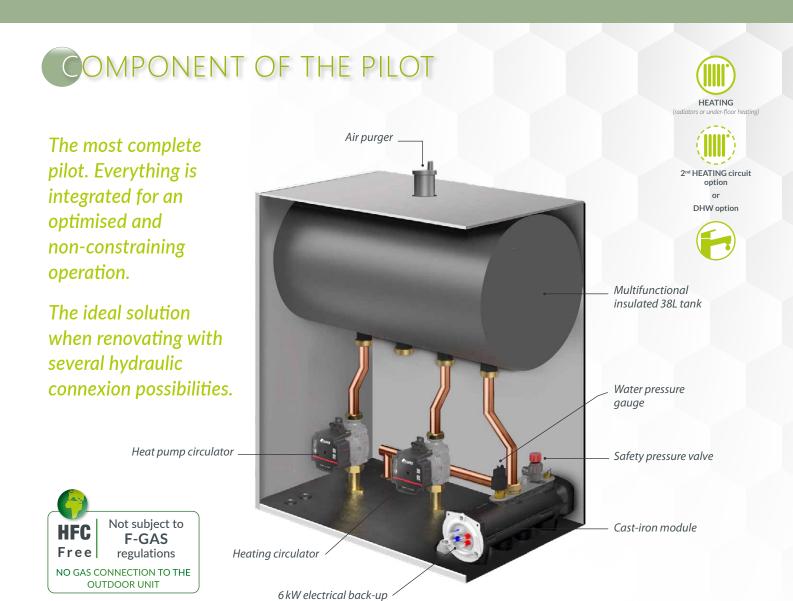




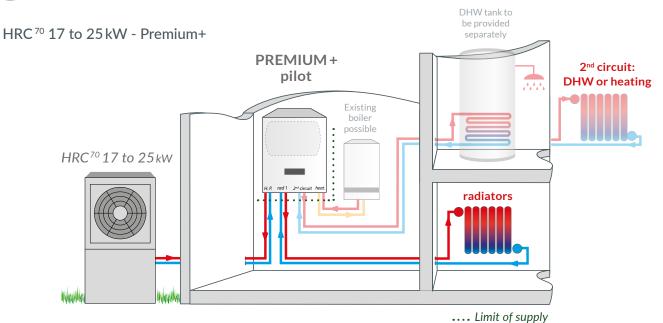
ADVANTAGES

- Can manage 2 heating circuits.
- Integrated hydaulic decoupling tank (38L) with degassing, decantation and desludging.
- Pre-plumbed for direct connection with existing back-up boiler.
- Electrical back-up from 0 to 6 kW included.
- Cast iron hydraulic distribution module.





EASY INSTALLATION

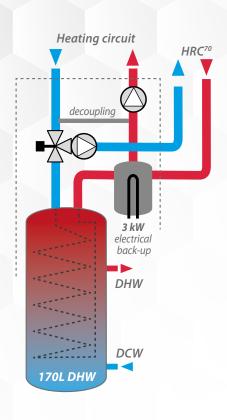


DS 170D PILOT

For HRC⁷⁰ 17, 20 or 25 kW

Single-phase

Domestic hot water and heating with high temperature heat pump





ADVANTAGES

- Hydro-electronic pilot and domestic hot water tank integrated in one unit.
- Equipped with an expansion vessel.
- Cast iron heating body for electrical back-up of 3 kW.
- Integrated 170 L domestic hot water tank.
- Hydraulic decoupling of circuits.

EASY INSTALLATION

HRC 70 17 to 25 kW - DS 170D/50

A fully integrated, easily installed and connected solution; ideal for new build houses.

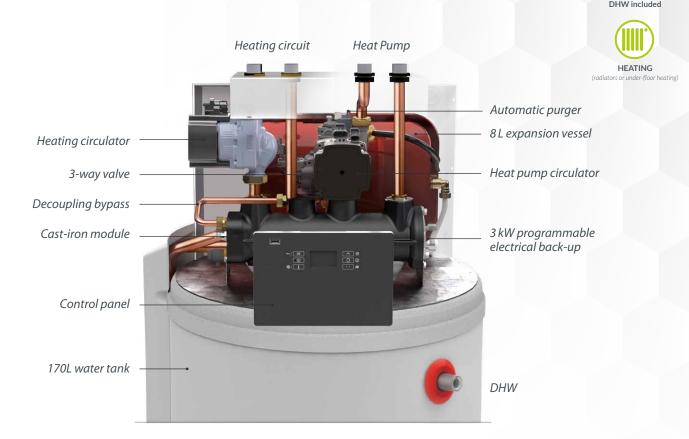
HRC 70 17 to 25 kW

Tradiators

radiators



COMPONENT OF THE PILOT



Principles of installation:

This is a complete solution to substitue an old boiler which provided also domestic hot water. HRC^{70} 17 kW DS 170D meets most of the needs of a house consuming between 2000 and 3000 liters of fuel every year.

HRC70 32

NEW

Combined pilot: 6P10

Three-phase

High temperature (70°C) modulating heat pump with 3 stages of heating capacity

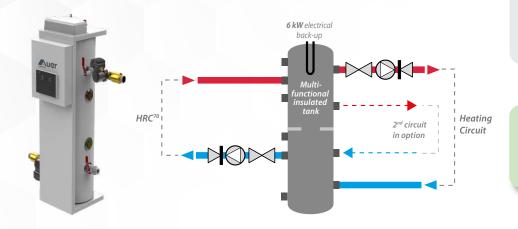
HRC⁷⁰ 32 is a genuine and high capacity product with a progressive start-up in stages of the power. Combined with the 6P10 pilot, it provides the same options as the Premium+ pilot does.





HYDRAULIC PILOT

A modular pilot to drive a high power installation.



ADVANTAGES

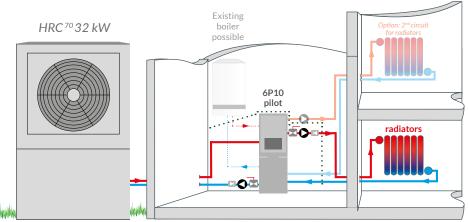
- Significant energy savings.
- The use of **R290** refrigerant without HFC for a better respect of the planet.
- Very quiet.
- Up to -20° C outside, it heats using only the heat pump.

Integrated multifunctional 78 L decoupling tank to separate the hydraulic networks.

EASY INSTALLATION

HRC⁷⁰ 32 kW three-phase - 6P10

As the whole range, HRC^{70} 32 is a high temperature heat pump. It can fit perfectly in a multi-family house with old radiators for example.



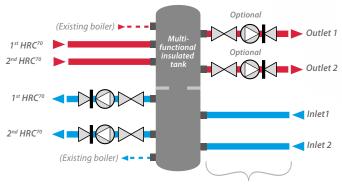
COLLECTIVE OR TERTIARY INSTALLATION

HRC⁷⁰ in battery - Heating

NEW

Heating by heat pump from 50 to 96 kW in battery

HYDRAULIC PILOT



Up to 4 circuits of heating and/or DHW with 2 HRC 70 25 or 2 HRC 70 32 and up to 3 circuits of heating and DHW with 3 HRC 70 32.





PILOT FOR ALL INSTALLATIONS

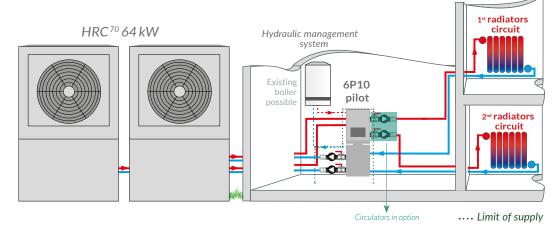
An efficient solution full of advantages:

- Complete wall-mounted hydraulic management system integrating the regulation for the coupling of 1, 2 or 3 HRC⁷⁰.
- A multifunctional 78 L decoupling tank offers a wide range of configurations.
- The pilot incorporates a circulator for each HRC⁷⁰ heat pump, and comes with all the required safety equipments.
- A multifunctional pilot managing:
 - heating circuits
 - DHW tanks and the water loop
 - back-up boiler
- A one-piece heat pump. There is just a simple hydraulic connection between the external unit and the hydraulic pilot.
- Easy implementation.

EASY INSTALLATION

HRC⁷⁰ battery 64 kW three-phase - 6P10

The HRC⁷⁰ 32 heat pump in battery provides a high power (by grouping 2 or 3 heat pumps). This solution is perfectly suitable for large projects or refurbishment.



COLLECTIVE OR TERTIARY INSTALLATION

HRC⁷⁰ in battery - Domestic hot water

NEW

Domestic hot water heating by heat pumps between 50 kW and 96 kW in battery.

- One-piece heat pump 70°C on primary circuit.
- Thanks to the modular conception, the number of heat pumps and the number of tank heaters can be adjusted according to the needs.
- The comfort of domestic hot water by accumulation.
- Hot water capacities up to 6000 liters.



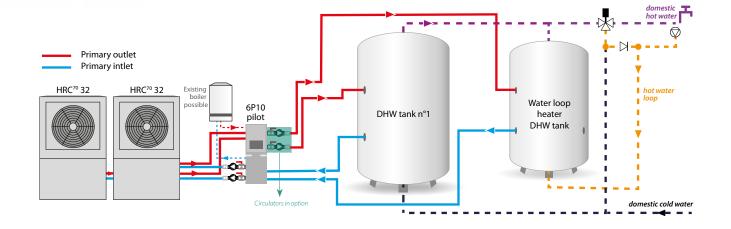
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PILOT FOR ALL INSTALLATIONS

An efficient solution full of advantages:

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- A multifunctional pilot managing:
 - heating circuits
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- A one-piece heat pump. There is just a simple hydraulic connection between the external unit and the hydraulic pilot.
- Easy implementation.

EASY INSTALLATION



HRC70 40, 60 & 80 Range

High-performance for high temperature heat pumps





- Dual application: DHW + heating.
- For domestic, collective housing and tertiary. Those units are suitable for all buildings (without power limit).
- A simple technical room of 15/20m² is enough.
- Easy implementation.





TAND-ALONE SOLUTION OR IN BATTERY

The 40, 60 and 80 kW heat pumps are equipped with a hydraulic block, filters and circulators. They can be installed in battery to reach a power output of 320 kW!

An efficient solution full of advantages:

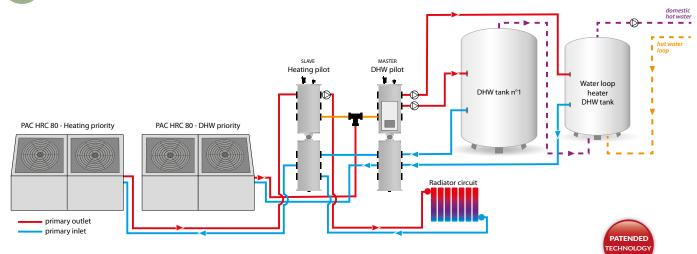
- ◆ Economical: no boiler room, no flue duct
- ◆ Ecological: the lowest CO₂ impact on the market
- ◆ Convenient & discreet: limited height of 1,30 m!

Silent and very high power heat pump!



Thanks to an excellent acoustic insulation, HRC⁷⁰ is extremly silent, between 15 and 25 dB less than the traditional refrigeration equipments.

DUAL APPLICATION EXAMPLE



^{*} Consult your Auer correspondent to know their availability and obtain further technical details.

TECHNICAL SPECIFICATIONS

						INEW
		17 kW single-phase	17 kW three-phase	20 kW three-phase	25 kW three-phase	32 kW three-phase
HRC ⁷⁰ & PREMIUM+ pilot		151631	151636	151446	151541	-
HRC ⁷⁰ & DS 170 D/50 pilot		151432	151437	151447	151452	-
HRC ⁷⁰ & 6P10			-	-	-	151461
HEAT PUMP						
Energy class at 35°C/55°C	-	A++/A++	A++/A++	A++/A++	A++/A+	A++/A++
SCOP at 35°C /55°C	-	3,7 / 3,1	4,1 / 3,1	4,1 / 3,2	3,7 / 2,9	4/3,1
Seasonal energy efficiency 35°C/55°C	ηs	152%/125%	165%/125%	167%/129%	150%/119%	163%/127%
Maximum heating capacity*	kW	19,8	19,8	23,2	28,3	33,5
Nominal heating capacity at +7°C/+35°C (EN14511)	kW	7,8	7,9	10,9	10,9	13,54
Nominal COP at +7°C/+35°C (EN14511)	-	4,4	4,9	4,6	4,6	4,57
Nominal sound pressure level (at 5m directivity 4)	dB(A)	36	36	40	40	44,8
Sound power level (ERP +7°C/55°C)	dB(A)	60	60	61	61	66
Max heating capacity at -7°C/+65°C	kW	10,8	9,4	13,8	14,4	19,4
Outdoor air temperature range	°C	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40
Power supply	V/Ph/Hz	230/1N/50	400/3N/50	400/3N/50	400/3N/50	400/3N/50
Circuit breaker	Α	40/D	16/D	16/D	20/D	32/D
Max electrical power**	kVA	6,5	6,5	7,5	9,0	13
Power control mode**	-		2 co	mpressors fixed speed in	stages	
Power stages	-	3	3	2	3	3
Progressive starter**	-	yes	no	no	yes	yes
Minimum power cable width	mm²	3G10	5G4	5G4	5G6	5G6
Dimensions (HxLxP)	mm	1713x1035x561	1713x1035x561	1713x1035x561	1713x1035x561	1713x1235x561
Weight without water	kg	245	245	245	245	270
Nominal flow rate	L/h	1350	1350	1550	1850	2250
Refrigerant fluid	-	R290	R290	R290	R290	R290
Hydraulic connections	mm	26/34 male	26/34 male	26/34 male	26/34 male	33/42 male

	Theat output delivered by the neat pump when mandally and temporarily forced to operate at an air temperature of 15°C.	
**	Data to provide to the electricity provider prior to the installation of the heat pump (Electricity provider form).	

HYDRO-ELECTRONIC PILOT		PREMIUM+	DS 170 D	6P10
Minimum power cable width	mm ²	3x6 (single) or 5x2,5 (three-phase)	3x4 (single)	3x6 (single) or 5x2,5 (three-phase)
Circuit breaker	Α	32 A (single) or 16 A (three-phase)	25 A (single)	single or three-phase
Power supply	V	230 single or 400 three-phase	230 single	230 single or 400 three-phase
Multifunctional tank	L	38	50	78
Dimensions of the pilot (HxLxP)	mm	845x590x420	1725x520x571	1385x1135x635
Weight of the pilot without water	kg	47	80	90
Hydraulic connections	mm	26/34 female	26/34 female	40/49 female
Boiler connection provided	-	as standard	compatible	as standard
Electrical back-up	kW	as standard: 6 kW	as standard: 3 kW	as standard: 6 kW
Decoupling of circuits		yes	yes	yes
1" filter valve (delivered with connection kit)	-	as standard	as standard	as standard

HRC ⁷⁰ IN BATTERY	50 kW three-phase	64 kW three-phase	96 kW three-phase	
Reference	151453	151462	151463	
Number of HRC ⁷⁰ heat pumps	2x25 kW three-phase	2x32 kW three-phase	3x32 kW three-phase	
Hydraulic pilot and connection kit	included	included	included	
Multifunctional tank for battery installation	78 L	78 L	78 L	

HRC⁷⁰ 40, 60 & 80 Consult your Auer correspondent

YOUR INSTALLER:

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TRAINING

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