



MORE COMFORT, LESS ENERGY.



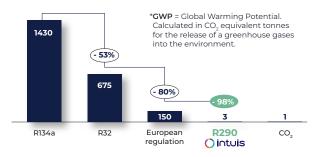
OUR HRC⁷⁰ HEAT PUMPS AND CONTROL UNITS

Since being launched in 2009, the HRC 70 range has pioneered the use of propane (R290), a gas with a drastically reduced greenhouse effect.

With proven technology, this is a reliable, robust solution for all high-temperature sites requiring power.

It is equipped with 2 high-efficiency compressors for power modulation.

Environmental impact of refrigerant gases (GWP*)



Technology	
Maximum water outlet temperature (excluding back)	:k-up)
Refrigerant	
Maximum heat pump capacity	

Type of back-up/Power

		1 circuit	
	Heating	2 circuits	
Configuration		Integrated	
	DHW	Remote ⁽¹⁾	
Energy c	lass up to	35 °C/55 °C	
•	nance coefficient to	35 °C/55 °C	
	rgy efficiency/ s) up to	35 °C/55 °C	
	Nave	Individual	
Description	New	Community	
Application		Individual	
	Renovation	Community	
	Acre	Underfloor/Ceiling ⁽⁶⁾	
Heaters		Radiators	



HRC⁷⁰ Range









PREMIUM+ 2S/170L control uni

Z1 MONOPAC control unit

Z1 CASCADE control unit

Individual unit with stepped power

70 °C

R290

R290					
Single-phase: 17 kW Three-phase: 17/20/25 kW	Single-phase: 17 kW Three-phase: 17/20/25 kW	Three-phase: 32/40 kW	Three-phase: 40/50/64/75/96 kW		
Electric 6kW stepped single-phase/three-phase or boiler (not included)	Electric 6kW stepped single-phase/three-phase or boiler (not included)	Electric 6 kW stepped single- phase/three-phase (optional) and/or boiler not included	Electric 6 kW stepped single- phase/three-phase (optional) and/or boiler not included		
✓	~	~	~		
Can be integrated	Optional	Optional	Optional ⁽¹⁾		
-	-	-	-		
✓	170 L as standard	✓	~		
A++/A++ (2)	A++/A++ (2)	A++/A++ (3)	A++/A++ (3)		
4,18(4) / 3,3(4)	4,18(4)/3,3(4)	3,85(4) / 3,09(4)	3,85 ⁽⁵⁾ / 3,09 ⁽⁵⁾		
165% / 125%(2)	165% / 125% ⁽²⁾	153% / 127%(3)	164% / 129% (4)		
✓	✓	~	~		
-	-	~	~		
✓	~	~	~		
-	-	~	~		
✓	~	~	~		
✓	✓	~	~		

(1) See catalogue (2) With HRC 70 17 tri (3) With HRC 70 40 V tri (4) With HRC 70 20 tri (5) With HRC 70 32 tri (6) With recommended accessories.



High-temperature 70 °C, single-unit air/water heat pumps, adaptable to up to 3 power levels.





Design

- \cdot The single-unit design makes installation easy.
- · Single-phase and three-phase heat pumps, depending on the model.
- · All components are quickly accessible.



Performance

- · High Compression Ratio for 2 or 3 power levels(1).
- An innovative combination of 2 high-performance compressors to always match supply to demand.
- Vast power range from 17 to 40 kW and cascade installation up to 96 kW.
- High temperatures up to 70 °C thanks to R290 refrigerant, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.



Comfort & reliability

• Solid construction with anti-rust and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion-treated evaporator.



Savings

• Operates with or without back-up (gas, electricity, etc.) depending on the system configuration.



Design

- Designed, developed, and manufactured in France;
 French expertise and factories located within France.
- Our heat pumps meet all heating and domestic hot water needs.



Use

- HRC⁷⁰ heat pumps are suitable for individual and community housing, the service sector, and industrial use.
- They adapt to all emitters, can be installed to replace an old boiler, and do not require the replacement of existing high-temperature radiators.



Performance

· Our heat pumps run on thermodynamic power down to a -20 °C outside air temperature.



Comfort & reliability

- Heat pumps are fitted on vibration pads, and the compressor compartment is soundproofed to avoid noise pollution.
- Remotely controllable solution with the Tydom app for personalised room management.



Environment

• The non-fluorinated R290 refrigerant drastically reduces the impact on the greenhouse effect and complies with F-GAS regulations.



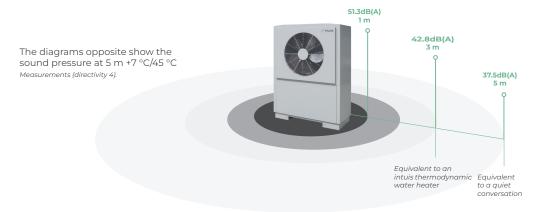
Savings

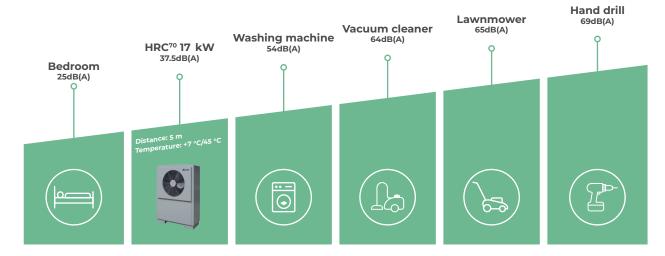
• The high COP means more energy savings.



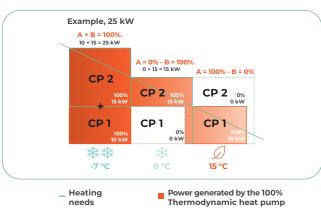


Noise output of 17 kW for the outdoor unit

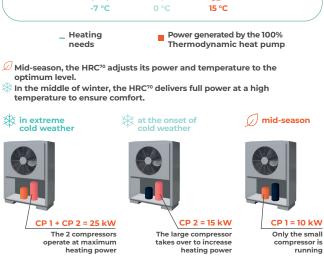




Operation of the heat pump compressors depending on external conditions



- temperature to ensure comfort.





HRC⁷⁰ diagram

- Large-diameter, low-speed fan with aerodynamic blades and ultra low energy consumption motor
- 2 Easy-access electrical connection box; reliable and simple to use
- 3 Four adjustable shock-absorbing feet
- 4 2 scroll compressors

UNDERSTANDING THE DIFFERENT CONTROL UNITS

HRC70 control unit and heat pump compatibility

Control

Features

HRC⁷⁰ 17 kW / 20 kW / 25 kW

HRC⁷⁰ 32 kW and 40 kW

units

Advantages

Hydraulic connection kit included







Premium+



Standard equipment:

and remote DHW.

1-circuit heating and boiler connection Optional kit: 1-circuit or 2-circuit heating Intended use: Home renovation projects Connection to existing boiler for back-up. Stepped 6kW back-up, compliant with norms. Optional kit for 2nd circuit.

17 kW single-phase Etas*: A++/A++/151%/125%

17kW three-phase Etas*: A++/A++/165%/125%

20 kW three-phase Etas*: A++/A++/164%/129%

25 kW three-phase Etas*: A++/A++/150%/119%

X

X

Premium+ 2s/170



Standard equipment:

1-circuit heating and boiler connection Remote DHW circuit included with 170 L tank.

Intended use: Home renovation projects. Connection to existing boiler for back-up. Stepped 6kW back-up, compliant with norms.



17 kW single-phase Etas*: A++/A++/151%/125%

17kW three-phase Etas*: A++/A++/165%/125%

20 kW three-phase Etas*: A++/A++/164%/129%

25 kW three-phase Etas*: A++/A++/150%/119%

X

X

Z1 Monopac



Standard equipment:

One heating or DHW circuit and up to 3 additional circuits at the same temperature or 1 circuit at a different temperature (depending on system configuration).

Multi-functional management:

heating circuits, DHW pre-heaters, and boiler back-up.

X



32 kW Etas*: A++/A+/151%/121 40 kW Etas*: A++/A++/153%/127%

X

Z1 Cascade



Covers:

Up to 4 circuits at the same temperature or 2 circuits at different temperatures.

Multi-functional management:

heating circuits, DHW pre-heaters, and boiler back-up. X

X

40 kW Etas*: A++/A++/164%/129%

50 kW and 75 kW Etas*: A++/A+/150%/119

64 kW and 96 kW Etas*: 35/55 °C A++/A+/151%/121%

^{*} Etas calculated at 35 °C/55 °C.

REMINDER OF THE STEPS TO FOLLOW DURING WORKS



You've studied the feasibility of the project, identified the right equipment, and created a system plan using the DimoPAC tool. Here are the next steps...



1 - Apply for financial assistance(1)

Accompany your customers through the process and advise them on the relevant financial assistance available for their project.



2 - Proceed with installation

Don't forget that the quality of the hydraulic system is paramount. De-sludging and treatment are effective solutions that protect the system and improve its performance. Other basic rules need to be followed, such as the correct positioning of filters, inclusion of a sludge trap, a tapping point, a correctly sized expansion tank, air valves at high points, etc. Bleeding the circuit is a key stage in installation, but long-term maintenance is essential.



Watch a video showing an example of a renovation project.



3 - Start up

You can now start up the equipment and proceed to **Setup**. This extension is guaranteed by the conformity approved by our departments and by compliance with the maintenance protocol for our products. All documents must be returned to the intuis technical department (sav-thermo@intuis.fr).

As part of the maintenance and care process, the manuals and maintenance guides will help you to operate in the best possible conditions to ensure optimum user comfort.

HRC⁷⁰ PREMIUM+

Ideal for renovations with many hydraulic connection options.







· The

Desig

- The kit includes the heat pump, control unit, hydraulic link with filters, and 2 hoses (1.50 m).
- · Hybridisation with boiler possible.



Performance

- · COP up to 4.6⁽¹⁾.
- · Wide power range from 17 to 25 kW.
- High temperatures up to 70 °C thanks to R290 refrigerant, providing heating in all configurations and anti-legionella cycles.



Comfort & reliability

- Solid construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion-treated evaporator.
- Integrated stepped single- or three-phase 6kW electric back-up (2, 4, and 6kW).



Savings

• Operates with or without back-up (gas, electricity, etc.) depending on the system configuration.



Design

- Designed, developed, and manufactured in France;
 French expertise and factories located within France.
- The Premium+ control unit covers all heating and remote DHW requirements



Usage

- The ideal solution for large homes, old houses, renovation projects, as well as commercial and industrial uses.
- Can be used to replace or accompany an old boiler and does not require the replacement of existing high-temperature radiators.



Performance

• Our heat pumps run on thermodynamic power down to a -20 °C outside air temperature.



Comfort & reliability

- Remotely controllable solution with the Tydom app for personalised room management.
- Quiet running thanks to a carefully engineered design.
- · Independent circuits allow for an extended service life.



Environment

• The non-fluorinated R290 refrigerant drastically reduces the impact on the greenhouse effect and complies with F-GAS regulations..

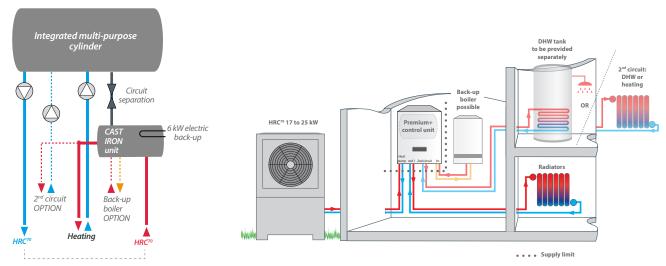


Savings

• The high COP means more energy savings.



Schematic diagram (1): HRC70 - premium+



(1) Refer to instructions for connection layout.



Diagram of PREMIUM+ control unit

- Heating circulator
- 2 38 L insulated multi-function tank
- Safety valve
- Pressure sensor
- 5 Cast iron hydraulic distribution unit
- 6 Air release valve
- 7 Heat pump circulator
- 3 Stepped 6 kW electric back-up

HRC70 - Domestic installations from 17 to 25 kW

Product name	Energy class & ETAS Heating capacity 35 °C/55 °C Maximum at -7 °C/65 °C		ltem	
HRC70/PREMIUM				
HRC ⁷⁰ 17 kW/3 single-phase Premium+*	A++/A++ 151%/125%	12 kW	151431	
HRC ⁷⁰ 17 kW/3 three-phase Premium+*	A ⁺⁺ /A ⁺⁺ 165%/125%	12 kW	151436	
HRC ⁷⁰ 20 kW/3 three-phase Premium+*	A++/A++ 164%/129%	14.5 kW	151446	
HRC ⁷⁰ 25 kW/3 three-phase Premium+*	A+*/A++ 150%/119%	17.5 kW	151451	

^{*} The control unit is equipped for hydraulic connection to a boiler. The unit ensures the thermostatic control of the boiler by means of a wired connection (not included).

NB: sets come with an exterior sensor as standard. This allows an extra 1.5% on the ETAS value.

HRC⁷⁰ -**PREMIUM+** 2S/170 L

Dual function turnkey solution, remote heating and DHW for greater adaptability.

















Design

- · The kit includes the heat pump, control unit, hydraulic link with filters, and 2 hoses (1.50 m).
- · The integrated dual-circulator control unit is adaptable and simple to install.
- · Hybrid solution with boiler.



Performance

- · Performance rating up to 4.6⁽¹⁾.
- · Wide power range from 17 to 25 kW.
- · High temperatures up to 70 °C thanks to R290 refrigerant, providing heating in all configurations and anti-legionella cycles.



Comfort & reliability

Comfort & reliability

for personalised room management.

- · Solid construction with anti-rust and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion-treated evaporator.
- · Integrated stepped single- or three-phase 6kW electric back-up (2, 4, and 6kW).



Savings

· Operates with or without back-up (gas, electricity, etc.) depending on the system configuration.

· Remotely controllable solution with the Tydom app

· Quiet running thanks to a carefully engineered

· Independent circuits allow for an extended



- · Designed, developed, and manufactured in France; French expertise and factories located within France.
- The Premium+ 2S/170 L control unit covers all heating and remote DHW requirements.



Usage

- · Ideal for new-build projects with low-temperature heating (underfloor or ceiling, low-temperature radiators) or high-temperature radiators for
- · Can be used to replace or accompany an old boiler and does not require the replacement of existing high-temperature radiators.



service life.

Environment

· The non-fluorinated R290 refrigerant drastically reduces the impact on the greenhouse effect and complies with F-GAS regulations..



Savings

• The high COP means more energy savings.

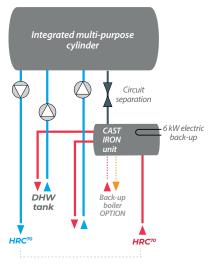


Performance

· Our heat pumps run on thermodynamic power down to a -20 °C outside air temperature.



Schematic diagram (1): HRC70 - premium+ 2S/170 L





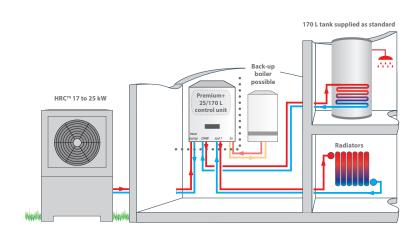




Diagram of PREMIUM+ control unit

- Heating circulator
- 2 DHW circulator
- 38 L insulated multi-function tank
- Safety valve
- 5 Pressure sensor
- 6 Cast iron hydraulic distribution unit
- Air release valve
- 8 Heat pump circulator
- Stepped 6 kW electric back-up

HRC⁷⁰ - domestic installations from 17 to 25 kW

Product name	Energy class & ETAS 35 °C/55 °C	Heating capacity Maximum at -7 °C/65 °C	ltem
HRC70 - PREMIUM+ 2S/170 L			
HRC ⁷⁰ 17 kW /3 single-phase PREMIUM+ 2S/170 L	A ⁺⁺ /A ⁺⁺ 151%/125%	12 kW	151412
HRC ⁷⁰ 17 kW/3 three-phase PREMIUM+ 2S/170 L	A ⁺⁺ /A ⁺⁺ 165%/125%	12 kW	151413
HRC ⁷⁰ 20 kW/3 three-phase PREMIUM+ 2S/170 L	A ⁺⁺ /A ⁺⁺ 164%/129%	14.5 kW	151419
HRC ⁷⁰ 25 kW/3 three-phase PREMIUM+ 2S/170 L	A ⁺⁺ /A ⁺ 150%/119%	17.5 kW	151458

NB: Sets come with an exterior sensor as standard. This allows an extra 1.5% on the ETAS value.

HRC⁷⁰ **Z1 MONOPAC**

Multi-function, multi-hydraulic connection: one unit for all uses requiring intermediate power.

















- · A wide range of hydraulic connection options to manage several circuits (heating, DHW tank, and boiler back-up). Pre-wiring is integrated and electrical connection is straightforward.
- · Hybridisation with boiler possible.



Performance

- · Performance rating up to 4.6⁽¹⁾.
- · Power range from 32 to 40kW.
- · High temperatures up to 70 °C thanks to R290 refrigerant, providing heating in all configurations and anti-legionella cycles.



Comfort & reliability

- · Solid construction with anti-rust and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion-treated evaporator.
- · The 6kW stepped (2, 4, 6 kW) single or three-phase electric booster is available as an option.
- · Hydraulic separation of the heat pump and heating
- · 78 L multi-functional decoupling tank for a wide range of installation configurations.



Savings

· Operates with or without back-up (gas, electricity, etc.) depending on the system configuration.

· Remotely controllable solution with the Tydom app

· Quiet heat pump thanks to a carefully engineered

Comfort & reliability

for personalised room management.

· Independent circuits allow for an extended



Design

- · Designed, developed, and manufactured in France; French expertise and factories located within
- · A solution for all remote heating and hot water requirements.



Usage

- Ideal for new-build projects with low-temperature heating (underfloor or ceiling, low-temperature radiators) or high-temperature radiators for
- · Can be used to replace or accompany an old boiler and does not require the replacement of existing high-temperature radiators.



Environment

· The non-fluorinated R290 refrigerant drastically reduces the impact on the greenhouse effect and complies with F-GAS regulations..



Savings

· The high performance coefficient allows a reduction in meter subscription costs.

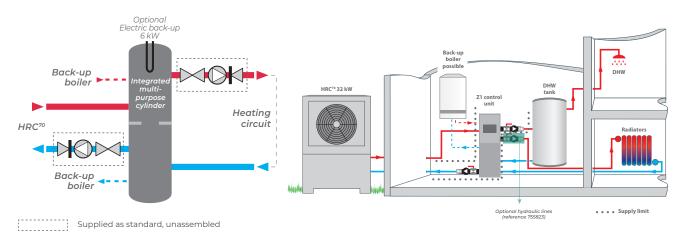


Performance

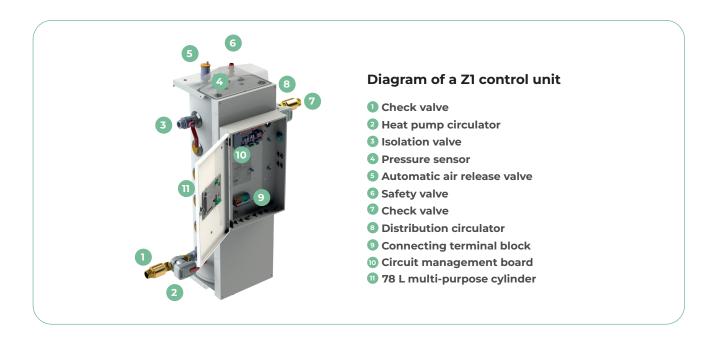
· Our heat pumps run on thermodynamic power down to a -20 °C outside air temperature.



Schematic diagram (1): HRC70 Z1 control unit



(1) Refer to instructions for connection layout.



HRC⁷⁰ - domestic installations from 32 to 40 kW

Product name	Energy class & ETAS 35 °C/55 °C	Heating capacity Maximum at -7 °C/65 °C	ltem
HRC ⁷⁰ /Z1 Control unit			
HRC ⁷⁰ 32 kW three-phase Z1	A ⁺⁺ /A ⁺ 151% / 121%	20.5 kW	151461
HRC ⁷⁰ 40kW three-phase Z1	A ⁺⁺ / A ⁺⁺ 153%/127%	27.5 kW	151471

NB: Sets come with an exterior sensor as standard. This allows an extra 1.5% on the ETAS value.

HRC⁷⁰ Z1 CASCADE

Multi-function, multi-hydraulic connection: one unit for all uses requiring intermediate power.







Design

- A wide range of hydraulic connection options to manage several circuits (heating, DHW tank, and boiler back-up). Pre-wiring is integrated and electrical connection is straightforward.
- · Hybrid solution with boiler.



Performance

- · Performance rating up to 4.6⁽¹⁾.
- Power range from 40 to 96 kW (2x20 kW, 2x25 kW, 2x32 kW, 3x25 kW, 3x32 kW).
- · High temperatures up to 70 °C thanks to R290 refrigerant, providing heating in all configurations and anti-legionella cycles.



Comfort & reliability

- Solid construction with anti-rust and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion-treated evaporator.
- The 6kW stepped (2, 4, 6 kW) single or three-phase electric booster is available as an option.
- Hydraulic separation of the heat pump and heating circuits.
- 78 L multi-functional decoupling tank for a wide range of installation configurations.



Savings

• Operates with or without back-up (gas, electricity, etc.) depending on the system configuration.

· Remotely controllable solution with the Tydom app

· Quiet running thanks to a carefully engineered

· The non-fluorinated R290 refrigerant drastically

reduces the impact on the greenhouse effect

· Independent circuits allow for an extended

Comfort & reliability

for personalised room management.



Design

- Designed, developed, and manufactured in France;
 French expertise and factories located within France.
- · A solution for all heating and domestic hot water needs.



Usage

- Ideal for new-build projects with low-temperature heating (underfloor or ceiling, low-temperature radiators) or high-temperature radiators for renovations.
- Can be used to replace or accompany an old boiler and does not require the replacement of existing high-temperature radiators.



service life.

Savings

Environment

• The high performance coefficient allows a reduction in meter subscription costs.



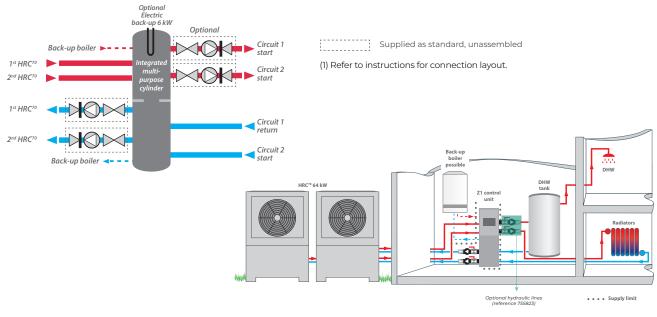
Performance

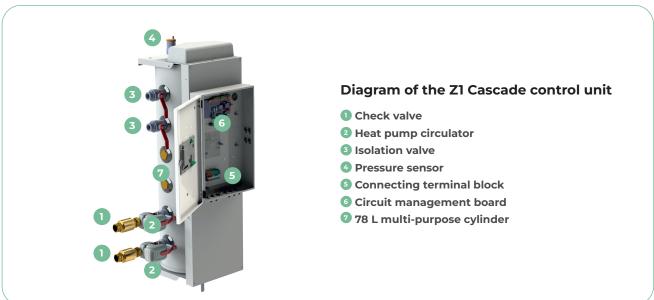
• Our heat pumps run on thermodynamic power down to a -20 °C outside air temperature.





Schematic diagram CASCADE (1): HRC70 Z1 control unit





HRC⁷⁰ cascade installation from 40 to 96 kW

Product name	oduct name Energy class & ETAS 35 °C/55 °C		ltem
HRC ⁷⁰ 40 to 96 kW - ZI CONTROL UNIT			
HRC ⁷⁰ 40 kW three-phase Z1 Cascade	A+*/A++ 164%/129%	29 kW	151448
HRC ⁷⁰ 50 kW three-phase Z1 Cascade	A ⁺⁺ /A ⁺ 150%/119%	35 kW	151453
HRC ⁷⁰ 64 kW three-phase Z1 Cascade	A ⁺⁺ /A ⁺ 151%/121%	41 kW	151462
HRC ⁷⁰ 75 kW three-phase Z1 Cascade	A ⁺⁺ /A ⁺ 150%/119%	52.5 kW	151456
HRC ⁷⁰ 96 kW three-phase Z1 Cascade	A ⁺⁺ /A ⁺ 151%/121%	61.5 kW	151463

NB: sets come with an exterior sensor as standard. This allows an extra 1.5% on the ETAS value.

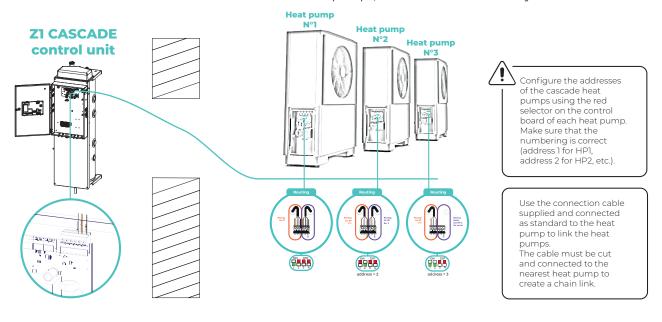


BEST PRACTICES FOR A CASCADE SETUP

What are the factors to consider when installing a quality cascade system?

1. Configure the equipment

For the control unit to communicate with the heat pumps, it needs be able to identify them.



2. Respect the rules regarding hydraulics

Safety and compliance: Protect your system

- Install a drain-connected NF backflow shut-off (in accordance with Standard NF EN 14367) to ensure compliance with current safety standards. **Don't forget:** For 40 kW HRC⁷⁰ heat pumps, you don't need connection lines as they have their own circulator.

Maintenance and durability

To maintain the quality of the water in the heating circuit, prevent the formation of sludge and corrosion, and regulate the pressure, it is important to follow the steps below:

- Install automatic bleeders at every high point in the system and manual bleeders on every radiator.
- $\boldsymbol{\cdot}$ Check the quality of the water in the circuit and, if necessary, treat it.
- · Install a large enough expansion chamber.

Performance optimisation

- · Install a settling tank at a low point on the heating circuit return.
- \cdot Bleed, flush, and de-sludge the circuit before commissioning.

Thermal insulation and energy savings

- Insulate pipework and fittings in accordance with local regulation. This helps to reduce heat loss and improve the energy efficiency of the system.
- · Consider frost protection for winter periods when the system may be off.
- \cdot Don't forget to install a corrosion inhibitor.

Temperature control

Install thermostatic valves in the rooms where the room thermostats are located for precise temperature control.





For the installation of a DHW circuit:

- Install a safety unit on the cold water inlet to the hot water tank to ensure the safety of the hot water.
- · Install thermostatic mixing valves to avoid the risk of scalding.
- Connect the pressure relief valve to ensure the correct pressure level in the system.
- · Fit the filter supplied to the inlet of each heat pump and clean it several times before starting up.

3. Follow electrical guidelines

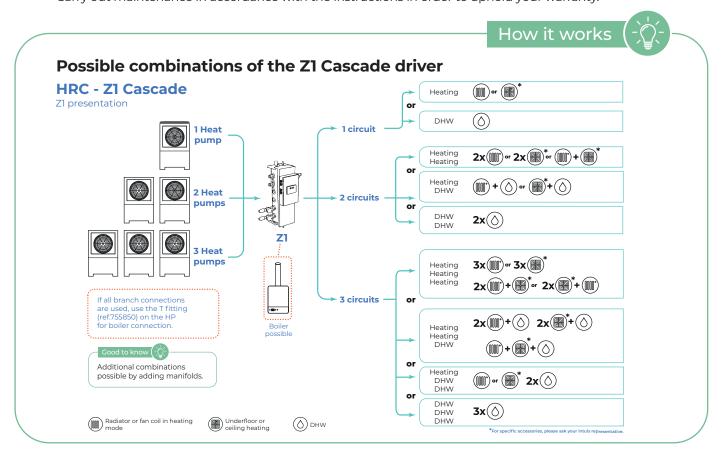
- 1. Tighten the lugs: To ensure a secure connection.
- 2. Check the current draw: To make sure it is within specification.
- 3. Check the number and cross-section of power supply conductors.
- **4. Check the calibration of the circuit breakers:** To protect the electrical circuit and appliances against overloads and short circuits.
- 5. Connect the cascaded heat pumps using the connection cable provided.

4. Commissioning

- **1. Make sure the system is watertight,** all connections are tight and secured, and valves are properly opened.
- **2. Commission the pilot** by configuring the setup according to the specifications, determining the number of heat pumps and circuits required.
- 3. Bleed the circuit to remove any unwanted air or fluid and ensure efficient operation.
- **4. Configure the control unit** taking into account the system's specific functions and requirements (desired temperature, operating times, etc.).

5. Servicing and maintenance

Carry out maintenance in accordance with the instructions in order to uphold your warranty.



HEAT PUMP AND CONTROL UNIT ACCESSORIES

ADDITIONAL CIRCUITS

hydraulic line





Ref. 411002
Thorix evolution 1C - 1 mixed circuit + exterior sensor (integrated underfloor flow safety aquastat)

Ref. 411003
Thorix EVOLUTION IC 1 direct circuit + mixed circuit +
exterior sensor (integrated
underfloor flow safety aquastat)





CONNECTIVITY



Heat pump accessories

Product name	HRC	Item
External defrosting cable for HRC70.	✓	751004
2 core armoured cable, 20 m long, heat pump/control unit (replaces 10 m cable supplied as standard)	✓	753102
2 core armoured cable, 50 m long, heat pump/control unit (replaces 10 m cable supplied as standard)	✓	754103
40 m DN30 coil hose	✓	754208
4 DN30 fittings	✓	754210

Control unit accessories

Product name	PREMIUM+ PREMIUM+ 2S	Z1 CONTROL UNIT	Item
Room sensor with display additional 2% on ETAS	✓	Circuit 1 only	751009
TH RNC/2 radio: non-chrono-proportional wireless room thermostat* extra 2% on ETAS (see page 22)	✓	✓	770001
DHW/pool/cascade sensor	~	✓	710029
Sanitary Aquastat	-	~	752202
Domestic hot water tanks	~	~	(See price list)
65 °C manual reset underfloor heating temperature limiter with beam	~	~	710111
Modbus kit - Thermodynamic water heater/Heat pump	~	~	730078
2 nd circuit identical temperature kit for Premium+ (included in Premium+ 2S)	~	-	753105
"1" F/F check valve(required for domestic boiler back-up only)	~	-	710118
Thorix EVOLUTION - 1C - 1 mixed circuit + exterior sensor - 2 nd circuit at a lower temperature	~	-	411002
Thorix EVOLUTION - 2C - 1 direct circuit + 1 mixed circuit + exterior sensor - 2 nd circuit at a lower temperature	✓	✓	411003
KD 10 - Shut-off kit	✓	-	710014
Auto 25-125-130 hydro line	-	✓	755823
3-way valve flow sensor for Z1	-	✓	710158
Electric back-up 6 kW (230/400 V)	-	✓	754105

 $^{{}^*\}textbf{Compatible with all non-chrono-proportional connectable thermostats on the market}.\\$

Hydraulic accessories

Product name	ltem
3/4" filter valve	710124
1" filter valve	710125
11/4" filter valve	710132

HEAT PUMP AND CONTROL UNIT FEATURES

Heat pump features 17 to 25 kW



Heat pump		HRC ⁷⁰ 17/m	HRC ⁷⁰ 17/t	HRC ⁷⁰ 20/t	HRC ⁷⁰ 25/t
Energy class 35 °C/55 °C		A++/A++	A++/A++	A++/A++	A++/A++
SCOP 35 °C/55 °C		3,85/3,2	4,2/3,19	4,18/3,3	3,83/3,04
Seasonal energy efficiency 35 °C/55 °C - ETAS (ηs)	%	151%/125%	165%/125%	164%/129%	150%/119%
Maximum heat output at -7 °C/35 °C	kW	14	14	15,5	18,5
Maximum heat output at -7 °C/65 °C	kW	12	12	14,5	17,5
Nominal heat output at +7 °C/35 °C (EN14511)	kW	7,8	7,9	10,9	10,9
Performance coefficient at +7 °C/35 °C (EN14511)	-	4,4	4,9	4,6	4,6
Nominal sound pressure level (5 m, directionality 4)	dB(A)	37,3	37,3	39,2	38,8
Power level (ERP +7 °C/55 °C)	dB(A)	66	66	67	72
Outside air range	°C	-20 to +40	-20 to +40	-20 to +40	-20 to +40
Power supply	V	230	400	400	400
Protective circuit breaker	А	40 single-phase	16 four-pole	16 four-pole	20 four-pole
Circuit breaker curve	-	D	D	D	D
Maximum electrical power	kVA	7,5	7,5	9,5	11,5
Power regulation mode	-		2-compressor stepp	ed constant output	
Power stages	-	3	3	2	3
Soft starter	-	yes	no	no	yes
Minimum cross-section of power cable	mm²	3G 10 mm²	5G 4 mm ²	5G 4 mm²	5G 6 mm²
Dimensions (H x W x D)	mm	1713 x 1035 x 561			
Empty weight	kg	219	214	226	228
Nominal flow rate	L/h	2000	2000	2450	3000
Refrigerant	kg	R290/0,9	R290/0,9	R290/0,9	R290/0,9
Hydraulic connection	mm	26/34 male	26/34 male	26/34 male	26/34 male

32 and 40 kW heat pump features





Heat pump		HRC ⁷⁰ 32/t	HRC ⁷⁰ 40 V/t	
Energy class 35 °C/55 °C		A++/A+	A++/A++	
SCOP 35 °C/55 °C		3,85/3,09	3,9/3,25	
Seasonal energy efficiency 35 °C/55 °C - ETAS (ηs)	%	151%/121%	153%/127%	
Maximum heat output at -7 °C/35 °C	kW	23	30	
Maximum heat output at -7 °C/65 °C	kW	21	27,5	
Nominal heat output at +7 °C/35 °C (EN14511)	kW	13,54	20,25	
Performance coefficient at +7 °C/35 °C (EN14511)	-	4,57	4,64	
Nominal sound pressure level (5 m, directionality 4)	dB(A)	41,8	38,4	
Power level (ERP +7 °C/55 °C)	dB(A)	70	60,5	
Outside air range	°C	-20 to +40	-20 to +40	
Power supply	V	400	400	
Protective circuit breaker	А	32 four-pole	32 four-pole	
Circuit breaker curve	-	D	D	
Maximum electrical power	kVA	14,5	17,5*	
Power regulation mode	-	Two-compressor step	Two-compressor stepped constant output	
Power stages	-	3	2	
Soft starter	-	yes	yes	
Minimum cross-section of power cable	mm²	5G 6 mm²	5G 6 mm²	
Dimensions (H x W x D)	mm	1713 x 1235 x 561	1580 x 1200 x 1630	
Empty weight	kg	270	425	
Nominal flow rate	L/h	3750	4700	
Refrigerant	kg	R290/1,4	R290/3,2	
Hydraulic connection	mm	33/42 male	40/49 male	

^{*}Without ducted heat pump.



Cascade heat pump features





Heat pump		HRC ⁷⁰ 40 kW (2x20)	HRC ⁷⁰ 50 kW (2x25)	HRC ⁷⁰ 64 kW (2x32)	HRC ⁷⁰ 75 kW (3x25)	HRC ⁷⁰ 96kW (3x32)
Energy class 35 °C/55 °C		A++/A++	A++/A+	A++/A+	A++/A+	A++/A+
SCOP 35 °C/55 °C		4,18/3,3	3,83/3,04	3,85/3,09	3,83/3,04	3,85/3,09
Seasonal energy efficiency 35 °C/55 °C - ETAS (ηs)	%	164% / 129%	150% / 119%	151% / 121%	150% / 119%	151% / 121%
Maximum heat output at -7 °C/35 °C	kW	31	37	46	55,5	69
Maximum heat output at -7 °C/65 °C	kW	29	35	42	52,5	63
Nominal heat output at +7 °C/35 °C (EN14511)	kW	10,9	10,9	13,54	10,9	13,54
Performance coefficient at +7 °C/35 °C (EN14511)		4,6	4,6	4,57	4,6	4,57
Nominal sound pressure level (5 m, directionality 4)	dB(A)	42,2	41,8	44,8	43,3	46,3
Power level (ERP +7 °C/55 °C)	dB(A)	70	75	73	76,5	74,5
Outside air range	°C	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40
Power supply	V	400	400	400	400	400
Protective circuit breaker	А	16 three- phase / D	20 three- phase / D	32 three- phase / D	20 three- phase / D	32 three- phase / D
Maximum electrical power	kVA	19	23	29	34,5	35
Power regulation mode			2-compressor	stepped constant o	output	
Power stages		4	6	6	9	9
Soft starter		No	Yes	Yes	Yes	Yes
Minimum cross-section of power cable	mm2	5G 4 mm²	5G 6 mm²	5G 6 mm²	5G 6 mm²	5G 6 mm²
Dimensions (H x W x D)	mm	1713 x 1035 x 561	1713 x 1035 x 561	1713 x 1235 x 561	1713 x 1035 x 561	1713 x 1235 x 561
Empty weight	kg	226	228	270	228	270
Nominal flow rate	l/h	2450	3000	3750	3000	3750
Refrigerant	kg	R290 / 0,9	R290 / 0,9	R290 / 1,4	R290 / 0,9	R290 / 1,4
Hydraulic connection	mm	26/34 male	26/34 male	33/42 male	26/34 male	33/42 male

Control unit features

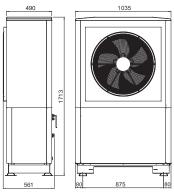


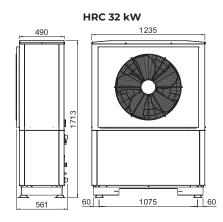


		100	
	PREMIUM+ and PREMIUM+ 2S/170 L	Z1	
mm²	5G 2.5 (three-phase)/3G 6 (single-phase)	3G 2.5 (single-phase)	
А	16 (four-pole)/32 (single-phase)	10 (single-phase)	
-	С	С	
V	400 V (three-phase) as standard, adaptable 230 (single-phase)	230 (single-phase)	
L	38 (integrated in the control unit)	78	
mm/kg	789 x 590 x 420 / 47	1512 x 410 x 536 / 49	
mm	26/34 male	40/49 male	
-	~	~	
kW	0/2/4/6 kW (single-phase or three-phase)	0/2/4/6 kW (single-phase or three-phase)	
-	✓	~	
	A V L mm/kg mm -	mm² 5G 2.5 (three-phase)/3G 6 (single-phase) A 16 (four-pole)/32 (single-phase) - C V 400 V (three-phase) as standard, adaptable 230 (single-phase) L 38 (integrated in the control unit) mm/kg 789 x 590 x 420 / 47 mm 26/34 male - V	

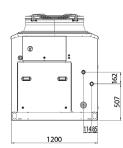
Heat pump dimensions

HRC 17 to 25 kW











SMART PRODUCTS/THERMOSTATS DETACHED HOUSE

Radio-controlled room temperature

TH RNC: Non-chrono-proportional thermostat:

- . Regulates the temperature of a heated area, remotely in the room.
- . Radio communication with a receiver, wireless installation.
- . Programmable hourly and weekly temperature settings.

Thermo-Net Gateway:

- Communication gateway for remote temperature control via a Wi-Fi router.
- · Manage your smart home equipment with your smartphone, tablet, or by voice control.
- \cdot X3D and ZigBee 3.0 communication protocol for multiple compatibility.
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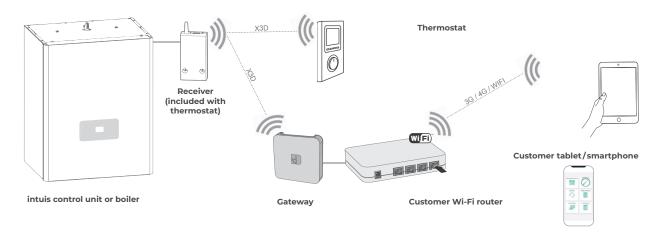


Ref. 770001 Thermostat (comes with receiver)



Ref. 770002 Gateway

Schematic diagram



Thermostat accessories

Product name	Ref.
TH RNC/2 radio - Wireless non-chrono-proportional room thermostat & receiver (1 per circuit)	770001
Thermo-Net - Communication gateway (only compatible with item number 770001)	770002

download the Tydom app for free

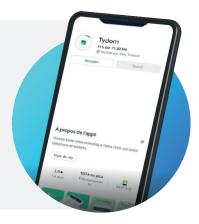
Available on Google Play and the App Store





System setup:

- Professional installation
- End-user activation





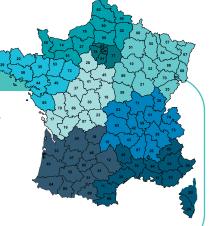
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