



MORE COMFORT, LESS ENERGY.



OUR HEAT PUMP  
SOLUTIONS  
industry/light  
commercial and  
residential  
building





# Our solutions by destination



## HEATING

for tertiary, light commercial application

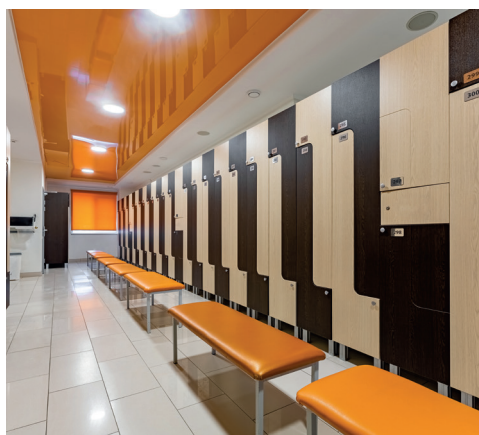
- City hall
- Education: Nursery, school, college, university
- Offices, bank, restaurant, hotel
- Shops



## DOMESTIC HOT WATER

for commercial premises

- Sports hall / changing room, gymnasium
- Showers at the campsite, swimming pool
- Washing facilities in food preparation workshop





## HOT WATER

for industrial / food processing applications

- Heating water for industrial processes
- Washing and rinsing production tools
- Dairy, brewery, dryer



## HEATING AND DOMESTIC HOT WATER

for collective residential

- Bed and breakfast, multi family house.
- Hotels
- Condominiums
- Large residences



# The positive impact of our solutions

## CO<sub>2</sub> emissions by equipment

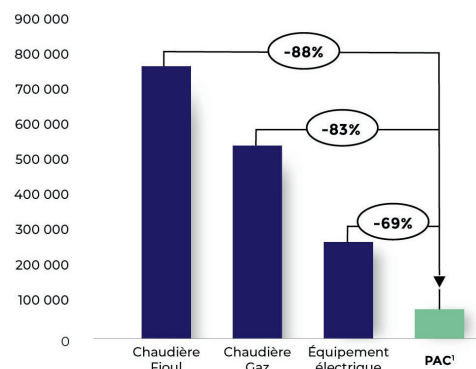
- Choosing a heat pump means taking a decarbonising approach. It emits between 83% and 88% less CO<sub>2</sub> than oil or gas boiler, thanks to its energy source and its more efficient SCOP.
- But choosing a heat pump is not enough: some are more efficient and virtuous than others, as is the case with intuitis.



+ more  
information on  
[intuis.fr](https://intuis.fr)

Analyse des émissions de CO<sub>2</sub> par équipement  
kg/CO<sub>2</sub> sur 10 ans vs la PAC

Source : environnement.gouv  
Les facteurs d'émission de gaz à effet de serre



## Environment

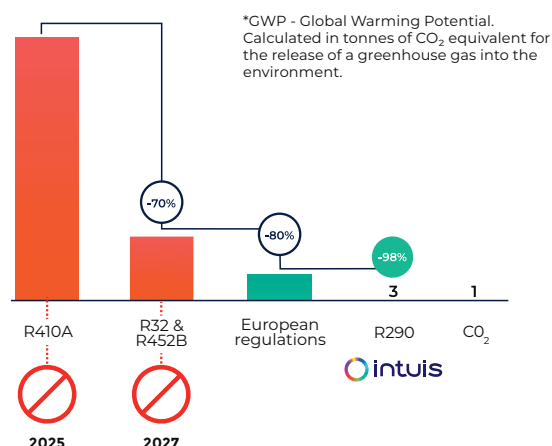
R290

All **intuis** thermodynamic solutions are equipped with **R290, a fluid not subject to F-GAS**. This innovative choice dates back nearly 15 years and ensures you sustainability in the face of the new European F-GAS regulations and their changes.



TO KNOW  
MORE

- For your information, a leak of 1 kg of R410a is equivalent to the CO<sub>2</sub> emissions of a car over 13 000 km. A heat pump contains more than 2 kg of R410a. **Choosing HRC<sup>70</sup> heat pumps means making a responsible choice.**
- With its proven technology, it's the reliable, robust solution for all high-temperature projects requiring power.
- It is equipped with 2 high-efficiency compressors for power modulation.



## Savings

- **Save energy** with our HRC<sup>70</sup> heat pumps. Take the HRC<sup>70</sup> 40kW, for example, which gives off up to 4.64<sup>(1)</sup> times more heat than it consumes in electricity, thanks to the free energy.

(1) COP of 4.64: Coefficient of Performance, ratio between energy returned and energy consumed.

# A solution for both new builds and renovations



**Intuis complies with the RE2020 environmental regulation by reducing the carbon impact of HVAC solutions in lot 8. By providing individual PEP (Product Environmental Profile) sheets, we improve both the IC\_construction and IC\_energy indicators, thanks to the low carbon emissions of our thermodynamic solutions.**

As part of renovation projects, several incentive schemes are available, such as the Energy Savings Certificates (CEE) program. These schemes are defined according to different categories. Our products are eligible for BAR-TH, which stands for Bâtiment Résidentiel Thermique (Residential Thermal Building), as well as BAT-TH, the equivalent category for non-residential (tertiary) buildings.

## Data to be entered for CEE

|                                                                             |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Heating pump                                                                | HRC <sup>70</sup> 17kW/m                                                          | HRC <sup>70</sup> 17kW/t                                                          | HRC <sup>70</sup> 20kW/t                                                          | HRC <sup>70</sup> 25kW/t                                                          | HRC <sup>70</sup> 32kW/t                                                           | HRC <sup>70</sup> 40kW/t                                                            | HRC <sup>70</sup> 80kW/t                                                            |
| Related references Z1 monoPAC                                               | 151433                                                                            | 151439                                                                            | 151449                                                                            | 151459                                                                            | 151461                                                                             | 151476                                                                              | -                                                                                   |
| Related references Z2 monoPAC                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | 151330                                                                              |
| Related references Z1 cascade                                               | -                                                                                 | -                                                                                 | 2x20 : 151448                                                                     | 2x25 : 151453<br>3x25 : 151456                                                    | 2x32 : 151462<br>3x32 : 151463                                                     | -                                                                                   | -                                                                                   |
| Related references Z2 cascade                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | 2x40 : 151310<br>3x40 : 151312                                                      | 2x80 : 151331                                                                       |
| Heating pump type                                                           | Air/Water                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| High temperature                                                            | Yes                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| Seasonal energy efficiency (ηs) with average temperature application (35°C) | 150%                                                                              | 150%                                                                              | 164%                                                                              | 150%                                                                              | 152%                                                                               | 153%                                                                                | 138%                                                                                |
| Seasonal energy efficiency (ηs) with average temperature application (55°C) | 125%                                                                              | 125%                                                                              | 129%                                                                              | 116%                                                                              | 121%                                                                               | 127%                                                                                | 115%                                                                                |
| Regulator class <sup>(1)</sup>                                              | VI                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| CEE eligibility                                                             | BAR-TH-145 - 166 - 169 - 171 - 174<br>BAT-TH-113                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |

## Classification of product types

- BAR-TH-145 - Comprehensive Renovation of Multi-Unit Housing
- BAR-TH-166 - Collective HP AIR/WATER
- BAR-TH-169 - Collective HP AIR/WATER for DHW only
- BAR-TH-171 - Individual HP AIR/WATER
- BAR-TH-174 - Comprehensive renovation of a single-family home
- BAT-TH-113 - HP AIR/WATEER or WATER/WATER in tertiary sector

This information will enable you to offer your customers assistance relating to our products.



(1) with the sensor or room thermostat, as recommended by our teams.



# Our complete range of solutions

## HRC<sup>70</sup> HEAT PUMPS

Capacity in kW depending on pilot

| Types of Pilot                                                                      | Heat pump models                                 | References related |
|-------------------------------------------------------------------------------------|--------------------------------------------------|--------------------|
|    | HRC <sup>70</sup> 17kW mono                      | 151433             |
|                                                                                     | HRC <sup>70</sup> 17kW tri                       | 151439             |
|                                                                                     | HRC <sup>70</sup> 20kW tri                       | 151449             |
|                                                                                     | HRC <sup>70</sup> 25kW tri                       | 151459             |
|                                                                                     | HRC <sup>70</sup> 32kW tri                       | 151461             |
|                                                                                     | HRC <sup>70</sup> 40kW tri                       | 151476             |
|  | 2 x HRC <sup>70</sup> 20kW tri                   | 151448             |
|                                                                                     | 2 x HRC <sup>70</sup> 25kW tri                   | 151453             |
|                                                                                     | 2 x HRC <sup>70</sup> 32kW tri                   | 151462             |
|                                                                                     | 3 x HRC <sup>70</sup> 25kW tri                   | 151456             |
|                                                                                     | 3 x HRC <sup>70</sup> 32kW tri                   | 151463             |
|                                                                                     |                                                  |                    |
|  | <b>Z2 Single HP</b> HRC <sup>70</sup> 80kW tri   | 151330             |
|                                                                                     | 2 x HRC <sup>70</sup> 40kW tri                   | 151310             |
|                                                                                     | <b>Z2 Battery</b> 3 x HRC <sup>70</sup> 40kW tri | 151312             |
|                                                                                     | 2 x HRC <sup>70</sup> 80kW tri                   | 151331             |

| 17kW                                                                                                                                                    | 30kW | 40kW |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| <p><b>HRC<sup>70</sup> - Z1 Single HP</b><br/>from 17kW to 40kW</p>  |      |      |

## GIALIX ELECTRIC BOILER

Capacity in kW, back-up solutions



|                   | References related | 2kW | 6kW | 12kW | 16kW | 24kW | 36kW | 48kW | 72kW | 80kW | 120kW | 149kW | 196kW |
|-------------------|--------------------|-----|-----|------|------|------|------|------|------|------|-------|-------|-------|
| Gialix 6 MT mono  | 132632             |     |     |      |      |      |      |      |      |      |       |       |       |
| Gialix 12 MT mono | 132631             |     |     |      |      |      |      |      |      |      |       |       |       |
| Gialix 12 MT tri  | 132636             |     |     |      |      |      |      |      |      |      |       |       |       |
| Gialix 16 MT tri  | 132637             |     |     |      |      |      |      |      |      |      |       |       |       |
| Gialix 24 MA tri  | 132645             |     |     |      |      |      |      |      |      |      |       |       |       |
| Gialix 36 MA tri  | 131417             |     |     |      |      |      |      |      |      |      |       |       |       |
| Gialix 48 MA tri  | 131418             |     |     |      |      |      |      |      |      |      |       |       |       |
| Gialix 72 MA tri  | 131419             |     |     |      |      |      |      |      |      |      |       |       |       |
| Gialix 120 MA tri | 131420             |     |     |      |      |      |      |      |      |      |       |       |       |
| Gialix 196 MA tri | 131423             |     |     |      |      |      |      |      |      |      |       |       |       |

## Key points to remember

Our solutions are designed and manufactured directly in our factories in France. We have some fifteen years' experience in thermodynamics using R290 refrigerant.



50kW

100kW

150kW

200kW

### HRC<sup>70</sup> - Z1 Battery from 40kW to 96kW



### HRC<sup>70</sup> - Z2 Single HP & Battery from 80kW to 160kW



## DOMESTIC HOT WATER STORAGE TANKS

### Capacity in liters



VS  
300 to 3000 L



PEJ  
200, 270 L

|     | Capacity V<br>(liters) | References<br>related | Q Primary<br>nominal Q <sub>prim</sub><br>(m <sup>3</sup> /h) | Heat exchanger<br>capacity at T <sub>prim</sub><br>= 65°C, TEFS = 10°C,<br>TECS = 40°C (kW) |
|-----|------------------------|-----------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| PEJ | 200                    | 341111                | 1,5                                                           | 21                                                                                          |
| PEJ | 270                    | 341106                | 1,5                                                           | 29                                                                                          |
| VS  | 300                    | 342348 / 342448       | 3,0                                                           | 24                                                                                          |
| VS  | 500                    | 342349 / 342449       | 3,0                                                           | 33                                                                                          |
| VS  | 750                    | 342350 / 342450       | 3,0                                                           | 62                                                                                          |
| VS  | 1000                   | 342351 / 342451       | 3,0                                                           | 83                                                                                          |
| VS  | 1500                   | 342352 / 342452       | 3,0                                                           | 103                                                                                         |
| VS  | 2000                   | 342353 / 342453       | 4,0                                                           | 120                                                                                         |
| VS  | 2500                   | 342354 / 342454       | 4,0                                                           | 139                                                                                         |
| VS  | 3000                   | 342355 / 342455       | 4,0                                                           | 139                                                                                         |



# The strengths of our hydro pilots

- **Ideal for new build and renovation projects, small-scale collective housing and small-scale commercial buildings**
- Can be installed to replace an old boiler, without replacing the existing radiators.
- Multi-connections for all configurations
- **Multi-function solutions**
  - Decoupling of hydraulic circuits
  - Hybrid solutions if required
  - Compact design
  - Easy to install and program
- **Up to 3 heat pumps**
- **Up to 3 domestic hot water tanks or heating circuits<sup>(1)</sup>**

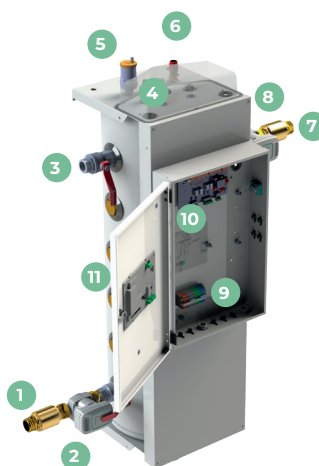
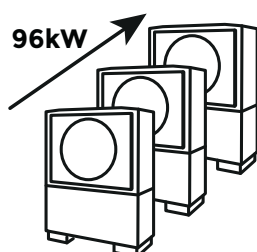
## Z1 SINGLE HP & BATTERY

**From 17 to 96kW**

1"1/2 hydraulic connection + 1"1/4 valve

**78L tank**

**10 Fittings** (6 on the left, 4 on the right facing the pilot)



### Z1 pilot diagram

- 1 Non-return valve
- 2 Heat pump water pump
- 3 Manual valve
- 4 Pressure sensor
- 5 Automatic air purge valve
- 6 Safety valve
- 7 Non-return valve
- 8 Distribution water pump
- 9 Power terminal
- 10 Main control board
- 11 78L multifunction tank

## Z2 SINGLE HP & BATTERY

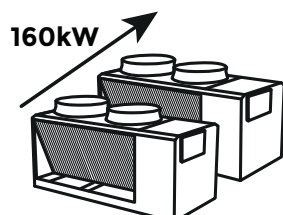
**From 80 to 160kW**

► 2"1/2 hydraulic connection with flange (x2 on each side)

► 1"1/2 hydraulic connection (x2 on each side)

**200L tank**

**8 fittings**



### Z2 pilot diagram

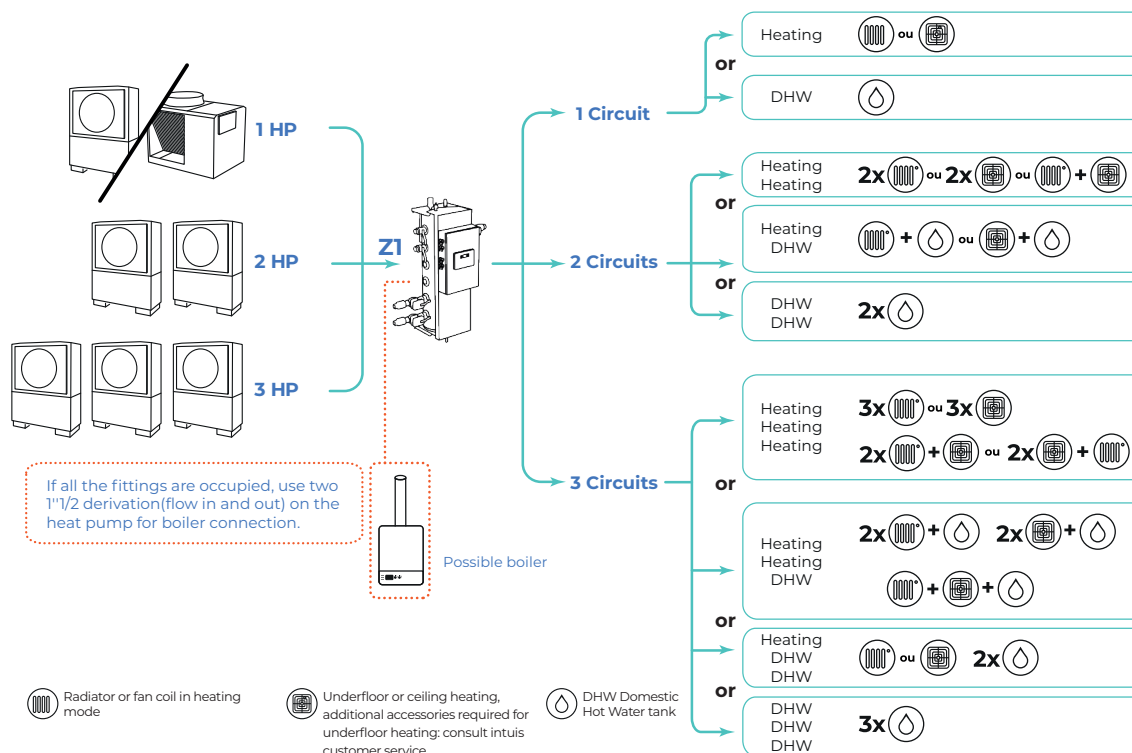
- 1 Automatic air vent
- 2 Safety valve
- 3 Pressure sensor
- 4 Temperature sensor
- 5 200L multifunction cylinder
- 6 Shut-off valve
- 7 Drain valve
- 8 Connection terminal block
- 9 Circuit management card

(1) For more information, please contact us

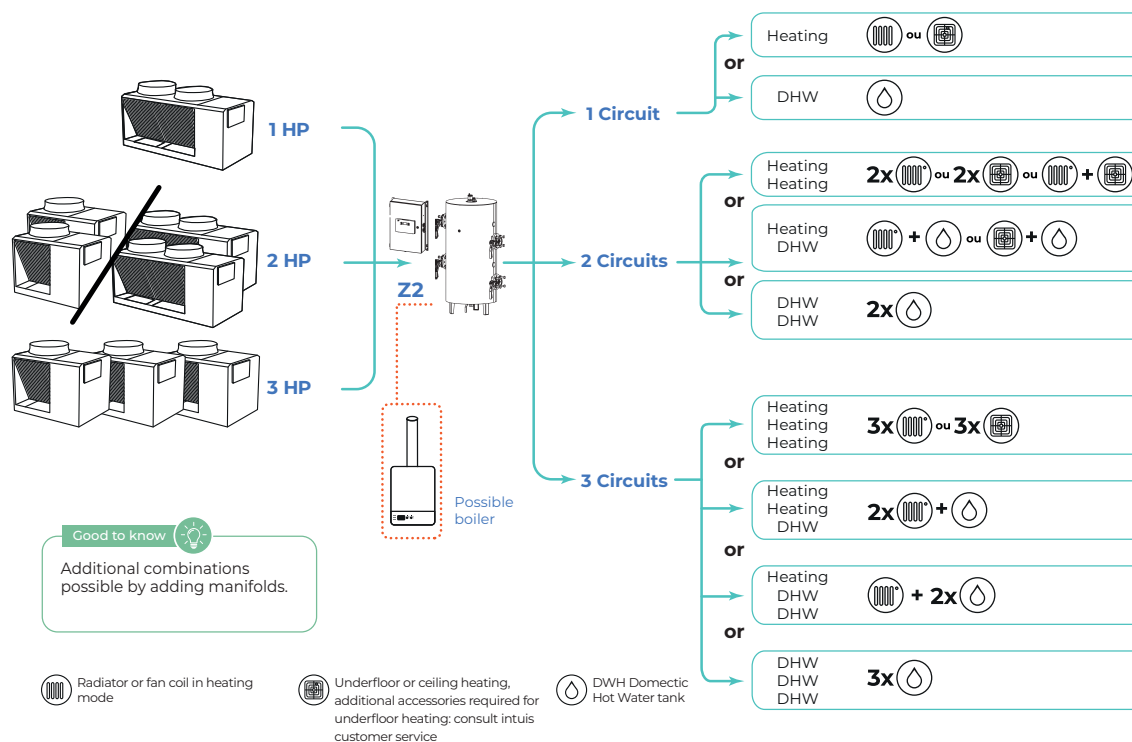
## HRC<sup>70</sup> - Z1 or Z2 Single HP & Battery feeding 3 circuits

possible beyond that with intuis support

### HRC<sup>70</sup> - Z1 SINGLE HP & BATTERY



### HRC<sup>70</sup> - Z2 SINGLE HP & BATTERY

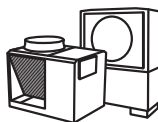




# The advantages of our heat pumps



## HRC<sup>70</sup> 17kW, 20kW, 25kW, 32kW



- **Available in vertical design**  
17, 20, 25, 32kW
- **Available in horizontal design**  
40 and 80kW



### R290 Fluid

- HFC-free, not subject to F-GAS
- Monobloc: no refrigerant handling
- High temperature (70°C) means you don't need to change your existing radiator.



### Single HP

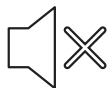
- Easy installation
- Only hydraulic fitting
- Flexible pipe and filter kit included

## HRC<sup>70</sup> 40kW



### High performance

- COP 4.64, SCOP 35°C 3.9 and ETAS 35°C 153%<sup>(1)</sup>
- 100% thermodynamic down to -20°C
- Dual scroll compressor
- Robustness and reliability



### Discreet thanks to meticulous design

- Oversized fan blades, low-consumption motor, silent-block, vibration absorbing feet...

## HRC<sup>70</sup> 80kW



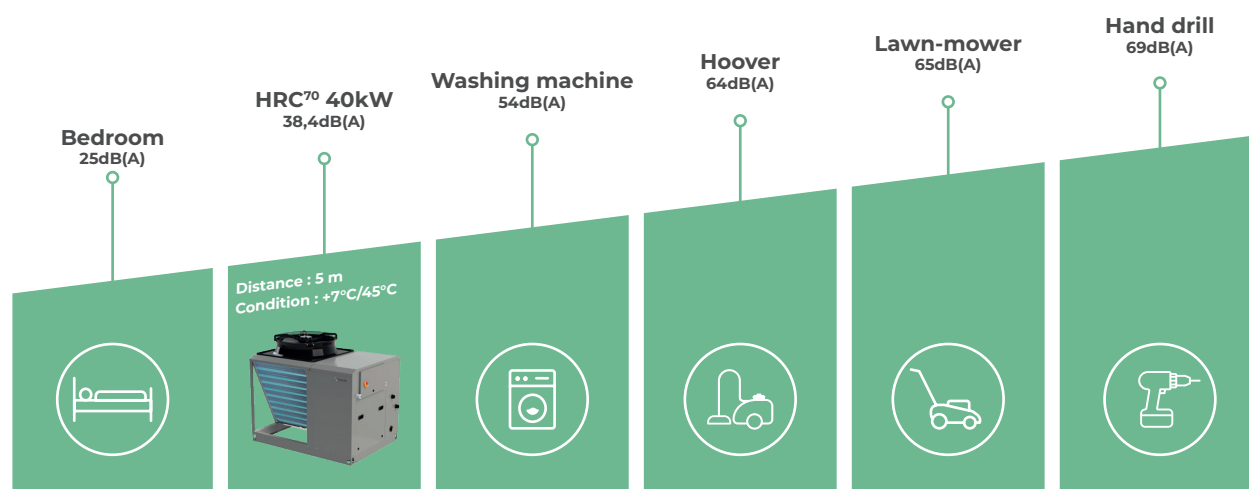
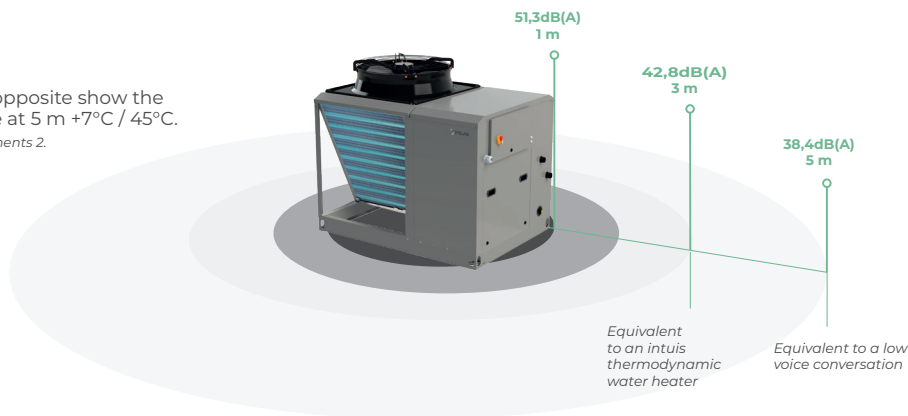
### Ultra practical

- Simplified maintenance, electrical and hydraulic only, filters included
- Robustness and longevity, anti-UV and anti-corrosion treatment, stainless steel heat exchanger.

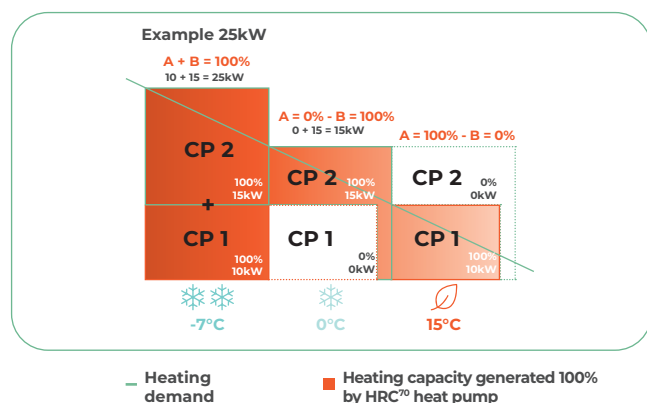
(1) On the HRC<sup>70</sup> 40kW

## Noise emission of HRC<sup>70</sup> 40kW

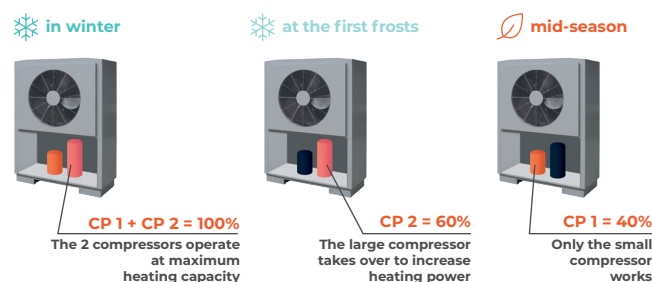
The diagrams opposite show the sound pressure at 5 m +7°C / 45°C.  
Directivity measurements 2.



## Operation of the heat pump compressors depending on heating demand



In mid-season, HRC<sup>70</sup> adjusts its capacity and temperature optimally.  
In the core of winter, HRC<sup>70</sup> delivers its full capacity at high temperature to ensure comfort.



## Diagram of an HRC<sup>70</sup> vertical design

- 1 Large-diameter, low-speed fan with aerodynamic blades and ultra-low-power motor
- 2 Reliable, easy-to-access electrical terminal box and simple to connect
- 3 Four adjustable anti-vibration feet
- 4 Two scroll compressors

# Good practice during a worksite

The first stage consists of sizing the heating capacity and defining the architecture of the HRC<sup>70</sup> heat pump solution to meet the customer's needs. The choice of product location will determine the rest of the project. Consult our installation instructions for heat pumps and pilots beforehand.



## 1 - Sizing for heating capacity

- Make a thermal calculation of the heating needs at minimum air temperature.
- Select the heat pump capacity at design temperature.
- Select the heat pump size, cascade, and pilot according to the needs.

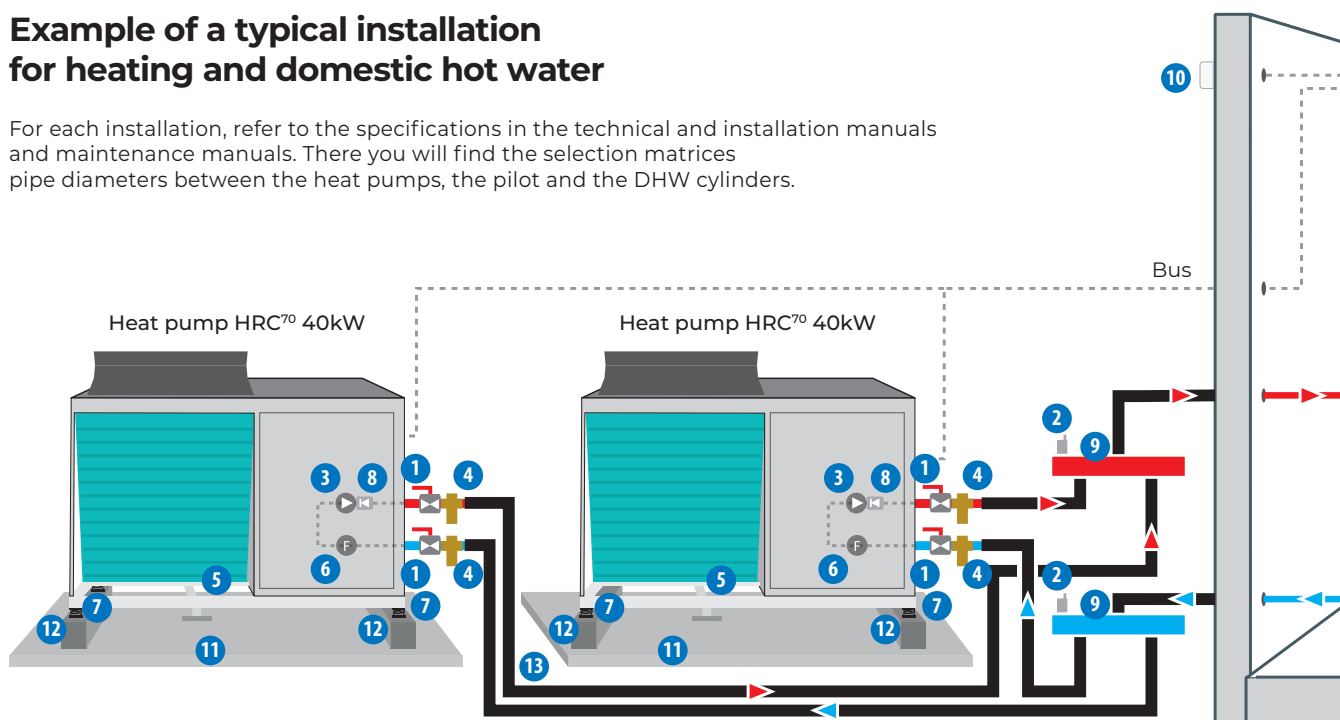


## 2 - Proceed with the installation

- Unclog the hydraulic circuit, as water quality is vital to the performance and safety of the installation (longevity).
- Fit the additional components needed for a good installation (positioning of filters sludge trap, drain point, expansion vessel, air purge at high point, etc.).

## Example of a typical installation for heating and domestic hot water

For each installation, refer to the specifications in the technical and installation manuals and maintenance manuals. There you will find the selection matrices pipe diameters between the heat pumps, the pilot and the DHW cylinders.



- (1) **Shut-off valves:** used to isolate a generator or heating circuit during an intervention.
- (2) **Air purge:** remove air from the hydraulic system. Automatic air purge should always be installed at the top of the system.
- (3) **Circulators:** water flowing to the various circuits in the system.
- (4) **Anti-freeze valves**
- (5) **Condensate drain**
- (6) **Filtration:** prevents clogging of the heat exchanger.
- (7) **Anti-vibration support** - Spring
- (8) **Non-return valves**

- (9) **Collectors**
- (10) **Outdoor sensor**
- (11) **Concrete slab**
- (12) **Concrete extension**
- (13) **Insulating pipes and accessories.** This helps to reduce heat loss and improve the energy efficiency of the installation.



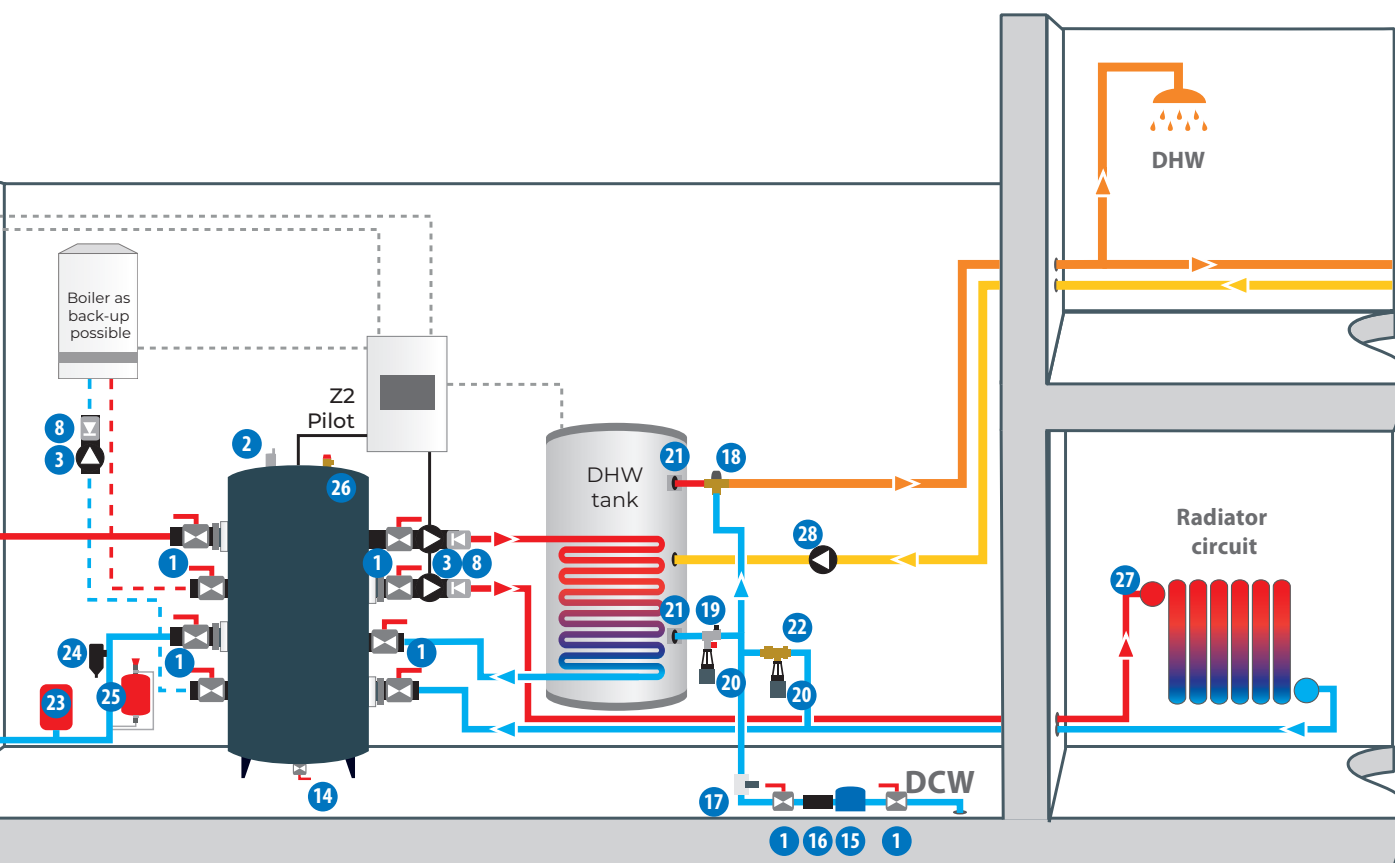
### 3 - Return the guarantee vouchers

- Return the documents supplied and completed as soon as the installation has been completed in order to trigger the guarantees, either by post or by e-mail.
- If you prefer, download our "intuis services pro" application to register your installation.
- Register your products on the Top intuis platform to benefit from the loyalty programme.



### 4 - Switch on

- Start up the equipment and then proceed to Commissioning. (If commissioning is carried out by a Technical Station Approved by intuis, you will benefit from an extended warranty if compliance is recognised and the maintenance protocol complies with the instructions.)
- Send the documents to our intuis technical department (sav@groupe-intuis.fr)



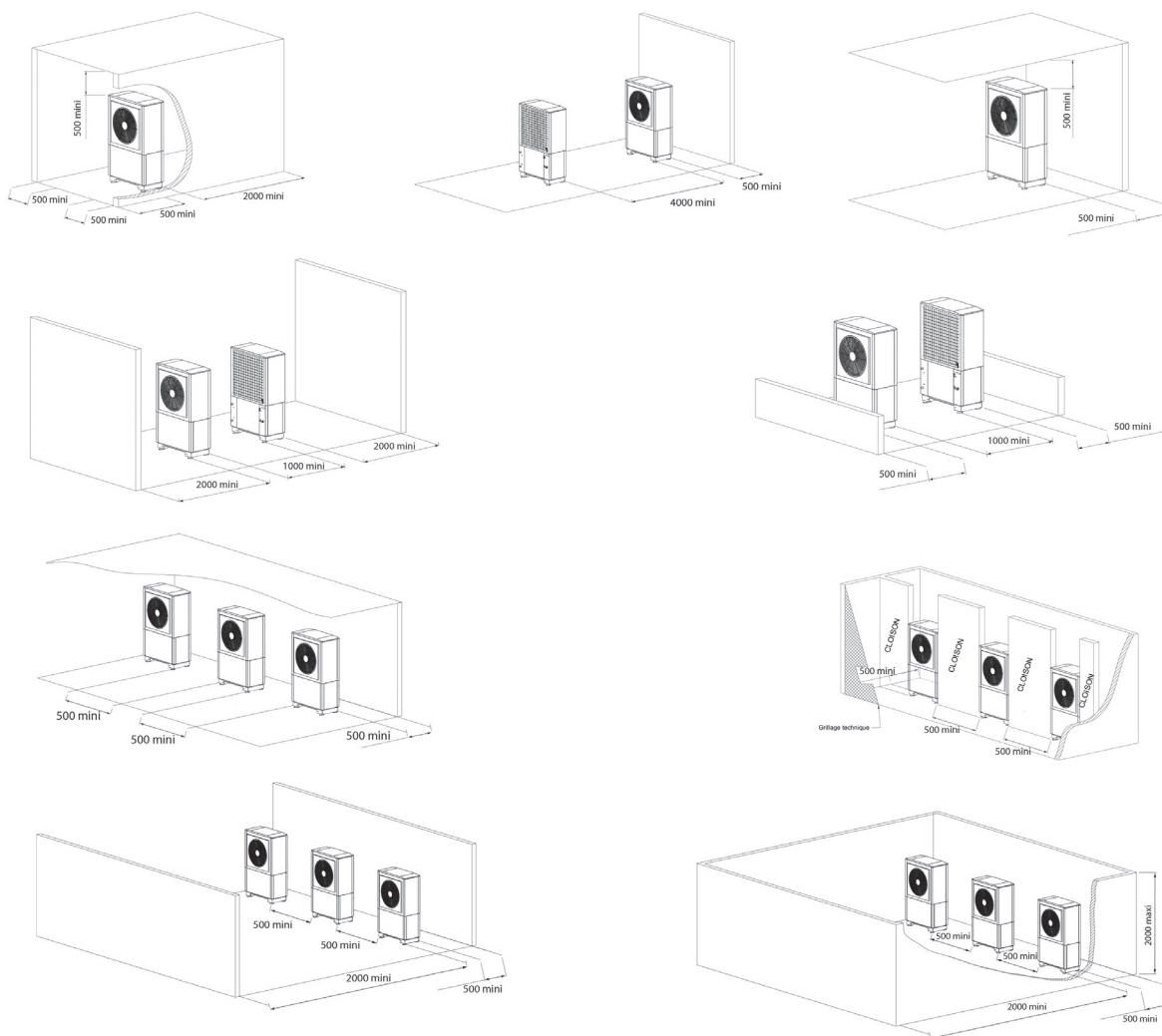
- (14) **Drain valve**
- (15) **Water meter**
- (16) **Anti-pollution valve**
- (17) **Water hammer arrester**
- (18) **Thermostatic mixing valve:** compulsory, it limits the DHW temperature to 50°C in toilet rooms.
- (19) **Sanitary safety group:** opens when the water heater pressure exceeds 7bars to prevent overpressure.
- (20) **Drain**
- (21) **Dielectric fittings** (compulsory if metal pipework)
- (22) **Filling backflow preventer:** Install a sewer-connected NF backflow preventer (in accordance with Standard NF EN 14367) to ensure compliance with current safety standards. It fills the heating circuit and prevents water from flowing back into the drinking water system.
- (23) **Expansion vessel:** compensates for variations in water volume as a result of temperature variations. Its capacity must be sized according to the characteristics of the installation.
- (24) **Sludge decanter**
- (25) **Water sampling point / injection point and bottle**
- (26) **Safety valves:** located on the generator flow and at pilot level, they must open to the outside.
- (27) **Radiator bleeder**
- (28) **Domestic hot water circulation pump**



# Layout configuration

In a room open to the outside or outdoors

Minimum distances to be observed when installing HRC<sup>70</sup> 17, 20, 25, 32kW heat pumps



## General recommendations:

The air cooled by the heat pump must not be sucked back between several heat pumps or onto a single machine.

As the air is cooled, it will naturally stagnate at the bottom, so you need to provide sufficient space or install partitions to prevent air being sucked back in.

## Good to know



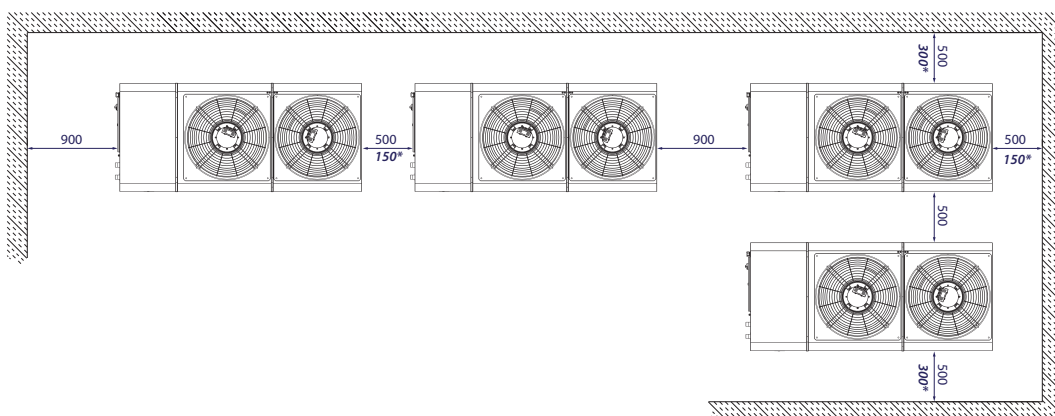
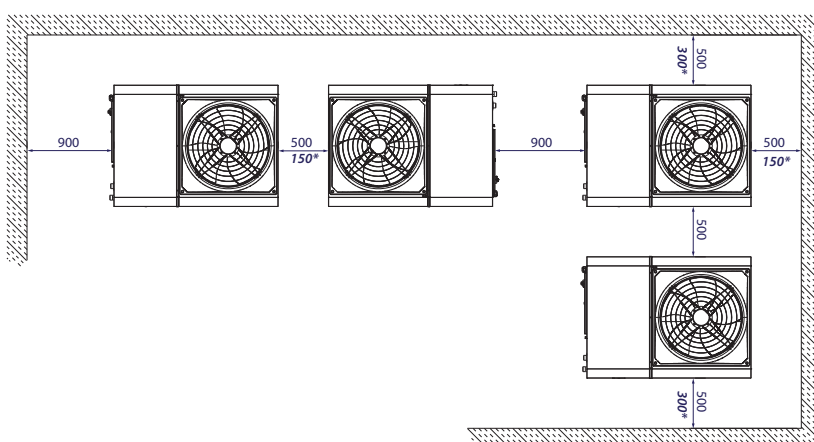
If the HRC<sup>70</sup> is ducted, a specific airflow study is required to ensure correct sizing.



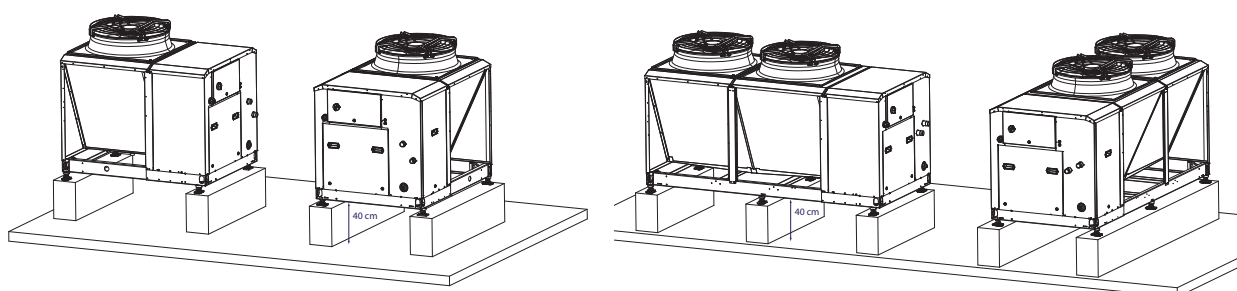
## Minimum distances to be observed when installing HRC<sup>70</sup> 40 and 80kW heat pumps

- The heat pump is designed to be installed exclusively outdoors, leaving a clear space around the appliance in an area free from excessive dust. Under no circumstances should it be placed in a closed room without ventilation ensuring at least 80% of the heat pump's ventilation output.
- It is designed to operate in the rain, but can also be installed under a well-ventilated shelter (with a large opening to ensure air flow to the fan intake and outlet).
- The fan must be at least 1 m away from any obstacle.

The dimensions shown are the minimum distances recommended for working on the product. Dimensions marked with an asterisk are the minimum dimensions required for the system to operate correctly.



## DTU roof waterproofing and acoustic uncoupling HRC<sup>70</sup> 40 and 80kW



# Examples of schematic diagrams by destination



## HEATING

for tertiary, light commercial application



### Heat pump:

Battery HRC<sup>70</sup> 64kW (2 x 32kW)

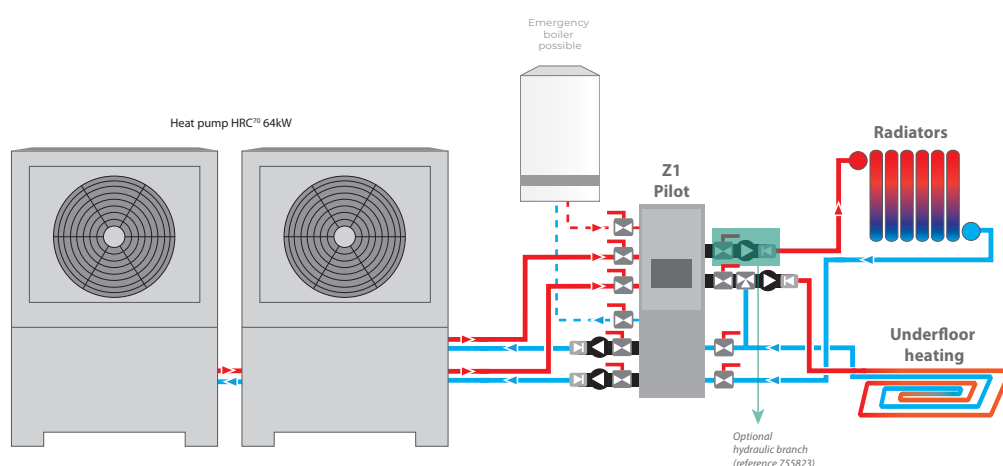
### Pilot:

Z1 BATTERY

### Number of circuits:

2

Heating of 1 to 3 circuits possible (please contact us for more)



Example of installation



## DOMESTIC HOT WATER

for commercial premises



### Heat pump:

HRC<sup>70</sup> 32kW

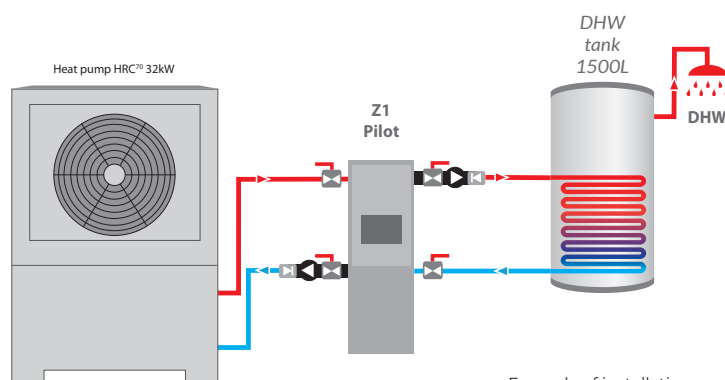
### Pilot:

Z1 SINGLE HP

### Number of circuits:

1

DHW from 1 to 3 circuits possible (please contact us for more)



Example of installation



## HOT WATER

for industrial / food processing applications



### Heat pump:

Battery HRC<sup>™</sup> 80kW (2 x 40kW)

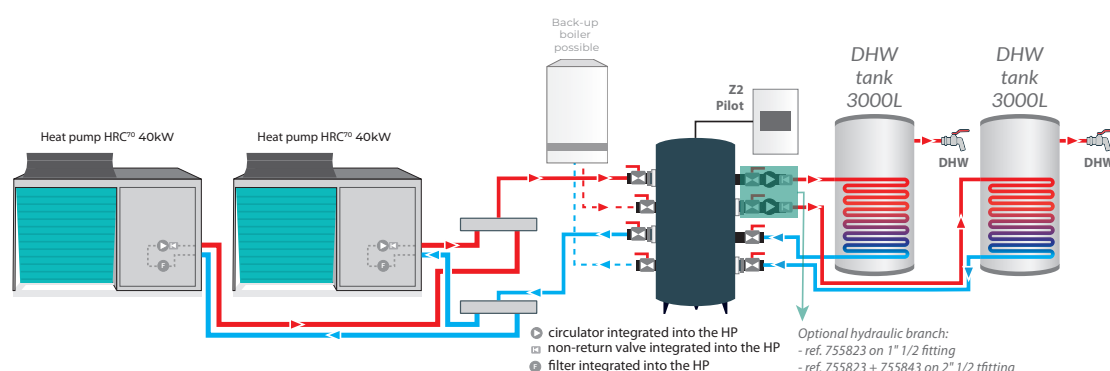
### Pilot:

Z2 BATTERY

### Number of circuits:

2

DHW from 1 to 3 circuits possible (please contact us for more)



Example of installation



## HEATING AND DOMESTIC HOT WATER

for collective residential



### Heat pump:

Battery HRC<sup>™</sup> 160kW (2 x 80kW)

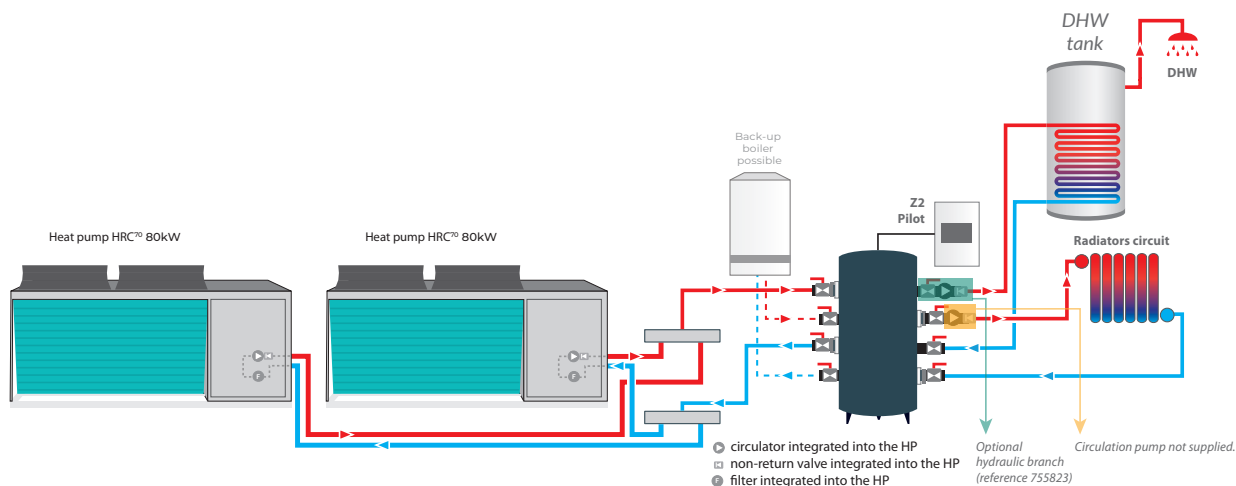
### Pilot:

Z2 BATTERY

### Number of circuits:

2

Heating + DHW from 1 to 3 circuits possible (contact us for more)



Example of installation

# Heat pump and pilot characteristics

## Heat pump characteristics 17, 20, 25, 32, 40 and 80kW



| Heat pump                                              |                 | HRC <sup>70</sup> 17kW/m          | HRC <sup>70</sup> 17kW/t | HRC <sup>70</sup> 20kW/t | HRC <sup>70</sup> 25kW/t | HRC <sup>70</sup> 32kW/t | HRC <sup>70</sup> 40kW/t | HRC <sup>70</sup> 80kW/t |
|--------------------------------------------------------|-----------------|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| References                                             |                 | 151433                            | 151439                   | 151449                   | 151459                   | 151461                   | 151476                   | 151330                   |
| Energy class 35°C/55°C                                 |                 | A++/A++                           | A++/A++                  | A++/A++                  | A++/A+                   | A++ / A+                 | A++ / A++                | A+ / A+                  |
| SCOP 35/55°C                                           |                 | 3,81/3,19                         | 3,81/3,19                | 4,18/3,3                 | 3,83/2,97                | 3,88/3,09                | 3,9/3,25                 | 3,52 / 2,96              |
| Seasonal efficiency 35°C/55°C - ETAS (η <sub>s</sub> ) | %               | 150%/125%                         | 150%/125%                | 164%/129%                | 150%/116%                | 152% / 121%              | 153% / 127%              | 138% / 115%              |
| Maximum heating capacity at -7°C/35°C                  | kW              | 14                                | 14                       | 15,5                     | 18,5                     | 23                       | 30                       | 54                       |
| Maximum heating capacity at -7°C/65°C                  | kW              | 12                                | 12                       | 14,5                     | 17,5                     | 20,5                     | 27,5                     | 51,5                     |
| Maximum heating capacity at +7°C / 35°C                | kW              | 17                                | 17                       | 20                       | 23,5                     | 30                       | 36,5                     | 76                       |
| Nominal heating capacity at +7°C/35°C (EN14511)        | kW              | 7,8                               | 7,8                      | 10,9                     | 10,9                     | 13,54                    | 20,25                    | 45,92                    |
| COP at +7°C/35°C nominal (EN14511)                     | -               | 4,79                              | 4,79                     | 4,6                      | 4,6                      | 4,57                     | 4,64                     | 4,24                     |
| Nominal sound pressure level (at 5m directivity 2)     | dB(A)           | 37,3                              | 37,3                     | 39,2                     | 38,8                     | 41,8                     | 38,4                     | 39,5                     |
| Power level (ERP +7°C/55°C)                            | dB(A)           | 66                                | 66                       | 67                       | 72                       | 70                       | 60,5                     | 71                       |
| Outside air range                                      | °C              | -20 à +40                         | -20 à +40                | -20 à +40                | -20 à +40                | -20 à +40                | -20 à +40                | -20 à +40                |
| Power supply                                           | V               | 230                               | 400                      | 400                      | 400                      | 400                      | 400                      | 400                      |
| Protective circuit breaker                             | A               | 40 single-phase                   | 16 tetrapolar            | 16 tetrapolar            | 20 tetrapolar            | 32 tetrapolar            | 32 tetrapolar            | 63 tetrapolar*           |
| Circuit-breaker curve                                  | -               | D                                 | D                        | D                        | D                        | D                        | D                        | D                        |
| Maximum electrical power                               | kVA             | 7,5                               | 7,5                      | 9,5                      | 11,5                     | 14,5                     | 17,6*                    | 43,1*                    |
| Power regulation mode                                  | -               | Stepped fixed speed 2 compressors |                          |                          |                          |                          |                          |                          |
| Power stages                                           | -               | 3                                 | 3                        | 2                        | 3                        | 3                        | 2                        | 2                        |
| Smart starter                                          | -               | Yes                               | No                       | No                       | Yes                      | Yes                      | Yes                      | Yes                      |
| Minimum power cable cross-section                      | mm <sup>2</sup> | 3G 10 mm <sup>2</sup>             | 5G 4 mm <sup>2</sup>     | 5G 4 mm <sup>2</sup>     | 5G 6 mm <sup>2</sup>     | 5G 6 mm <sup>2</sup>     | 5G 6 mm <sup>2</sup>     | 5G 16 mm <sup>2</sup>    |
| Dimensions (HxWxD)                                     | mm              | 1713 x 1035 x 561                 | 1713 x 1035 x 561        | 1713 x 1035 x 561        | 1713 x 1035 x 561        | 1713 x 1235 x 561        | 1545 x 1630 x 1200       | 1545 x 2700 x 1200       |
| Weight without water                                   | kg              | 219                               | 214                      | 226                      | 228                      | 270                      | 425                      | 645                      |
| Nominal water flow                                     | L/h             | 2000                              | 2000                     | 2450                     | 3000                     | 3750                     | 4700                     | 11000                    |
| Refrigerant                                            | kg              | R290 / 0,9                        | R290 / 0,9               | R290 / 0,9               | R290 / 0,9               | R290 / 1,4               | R290 / 3,2               | R290 / 4,5               |
| Hydraulic connection                                   | mm              | 26/34 male                        | 26/34 male               | 26/34 male               | 26/34 male               | 33/42 male               | 40/49 male               | 40/49 male               |
| Associated pilot                                       | -               | Z1                                | Z1                       | Z1                       | Z1                       | Z1                       | Z1                       | Z2                       |
| Heat pump circulating pump                             |                 | included as standard              | included as standard     | included as standard     | included as standard     | included as standard     | included as standard     | included as standard     |
| Heating and DHW circulating pump                       |                 | included as standard              | included as standard     | included as standard     | included as standard     | included as standard     | included as standard     | optional                 |

The hydraulic branch ref. 755823 for 1 heating circuit (or DHW circuit) is supplied as standard for all references fitted with a Z1 single HP pilot. This hydraulic branch delivers a flow rate of 5m<sup>3</sup>/hr for a pressure difference of 5 m of water column, corresponding to an equivalent power of 40kW. Beyond this, the heating circulation pump and/or DHW storage tank must be sized according to requirements (flow rate and pressure drop).

\* Without jacketed heat pump.

## Heat Pump Battery characteristics



| Heat pump                                 |     | HRC <sup>70</sup> 40kW<br>Battery (2x20)                                                                                       | HRC <sup>70</sup> 50kW<br>Battery (2x25) | HRC <sup>70</sup> 64kW<br>Battery (2x32) | HRC <sup>70</sup> 75kW<br>Battery (3x25) | HRC <sup>70</sup> 96kW<br>Battery (3x32) |
|-------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| References                                |     | 151448                                                                                                                         | 151453                                   | 151462                                   | 151456                                   | 151463                                   |
| 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                                                                                                                       | 3,83/2,97                                | 3,88/3,09                                | 3,83/2,97                                | 3,88/3,09                                |
| Seasonal efficiency 35°C/55°C - ETAS (ηs) | %   | 164% / 129%                                                                                                                    | 150% / 116%                              | 152% / 121%                              | 150% / 116%                              | 152% / 121%                              |
| Maximum heating capacity at -7°C/35°C     | kW  | 31                                                                                                                             | 37                                       | 46                                       | 55,5                                     | 69                                       |
| Maximum heating capacity at -7°C/65°C     | kW  | 29                                                                                                                             | 35                                       | 41                                       | 52,5                                     | 61,5                                     |
| Maximum heating capacity at +7°C / 35°C   | kW  | 40                                                                                                                             | 47                                       | 60                                       | 70,5                                     | 90                                       |
| Max. total installed electrical power     | kVA | 19                                                                                                                             | 23                                       | 29                                       | 34,5                                     | 43,5                                     |
| Total power stages                        |     | 4                                                                                                                              | 6                                        | 6                                        | 9                                        | 9                                        |
| Associated pilot                          | -   | Z1                                                                                                                             | Z1                                       | Z1                                       | Z1                                       | Z1                                       |
| Heat pump circulating pump                | -   | Hydraulic branch supplied as standard                                                                                          |                                          |                                          |                                          |                                          |
| Heating and DHW circulating pump          | -   | optional ref. 755823 or other not supplied  |                                          |                                          |                                          |                                          |

## Heat Pump Battery characteristics



| Heat pump                                 |     | HRC <sup>70</sup> 80kW<br>Battery (2x40)                                                                                                  | HRC <sup>70</sup> 120kW<br>Battery (3x40) | HRC <sup>70</sup> 160kW<br>Battery (2x80) |
|-------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|
| References                                |     | 151310                                                                                                                                    | 151312                                    | 151331                                    |
| Energy class 35°C/55°C                    |     | A++ / A++                                                                                                                                 | A++ / A++                                 | A+ / A+                                   |
| SCOP 35°C/55°C                            |     | 3,9/3,25                                                                                                                                  | 3,9/3,25                                  | 3,52 / 2,96                               |
| Seasonal efficiency 35°C/55°C - ETAS (ηs) | %   | 153% / 127%                                                                                                                               | 153% / 127%                               | 138% / 115%                               |
| Maximum heating capacity at -7°C/35°C     | kW  | 60                                                                                                                                        | 90                                        | 108                                       |
| Maximum heating capacity at -7°C/65°C     |     | 55                                                                                                                                        | 82,5                                      | 103                                       |
| Maximum heating capacity at +7°C / 35°C   | kW  | 73                                                                                                                                        | 109,5                                     | 152                                       |
| Max. total installed electrical power     | kVA | 35,2*                                                                                                                                     | 52,8*                                     | 86,2*                                     |
| Total power stages                        | -   | 4                                                                                                                                         | 6                                         | 4                                         |
| Associated pilot                          | -   | Z2                                                                                                                                        | Z2                                        | Z2                                        |
| Heat pump circulating pump                | -   | Hydraulic branch supplied as standard                                                                                                     |                                           |                                           |
| Heating and DHW circulating pump          | -   | optional ref. 755823 + 755843 or other not supplied  |                                           |                                           |

## Pilots characteristics



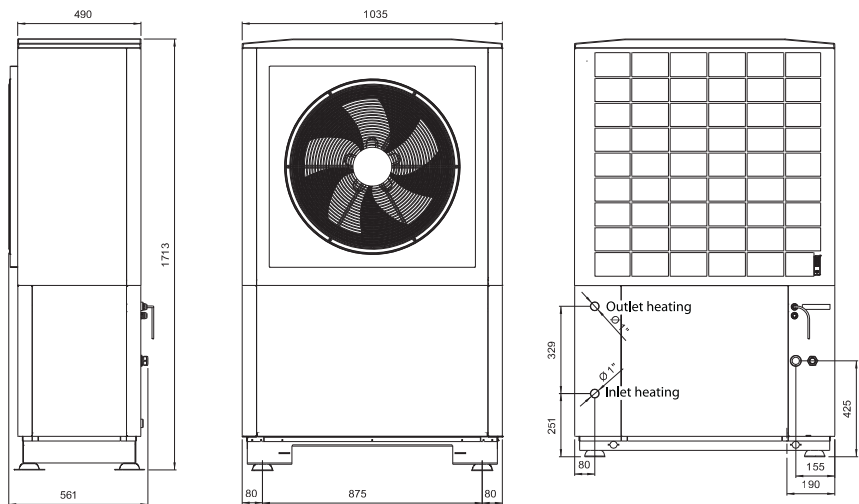
| Pilots                                           |                 | Z1                      | Z2                                                            |
|--------------------------------------------------|-----------------|-------------------------|---------------------------------------------------------------|
| Minimum power cable cross-section                | mm <sup>2</sup> | 3G 2.5 (mono)           | 3G 1,5 (mono)                                                 |
| Power protection circuit breaker                 | A               | 10 (mono)               | 2 (mono)                                                      |
| Circuit-breaker curve                            | -               | C                       | C                                                             |
| Power supply                                     | V               | 230 (mono)              | 230 (mono)                                                    |
| Multifunction tank                               | L               | 78                      | 200                                                           |
| Pilot dimensions (HxWxD)<br>/ Pilot empty weight | mm/kg           | 1512 x 410 x 526 / 50   | Wall box: 629 x 455 x 171 / 9<br>Cuve : 1422 x 775 x 600 / 81 |
| Hydraulic connections                            | mm              | 10 x 40/49 male**       | 4 x 66/76 and 4 x 40/49                                       |
| Auxiliary boiler connection                      | -               | ✓                       | ✓                                                             |
| Electric heater (optional)                       | kW              | 0/2/4/6kW (mono or tri) | -                                                             |
| Decoupling circuits                              | -               | ✓                       | ✓                                                             |

\* Without jacketed heat pump. \*\* taking into account the hydraulic branch.

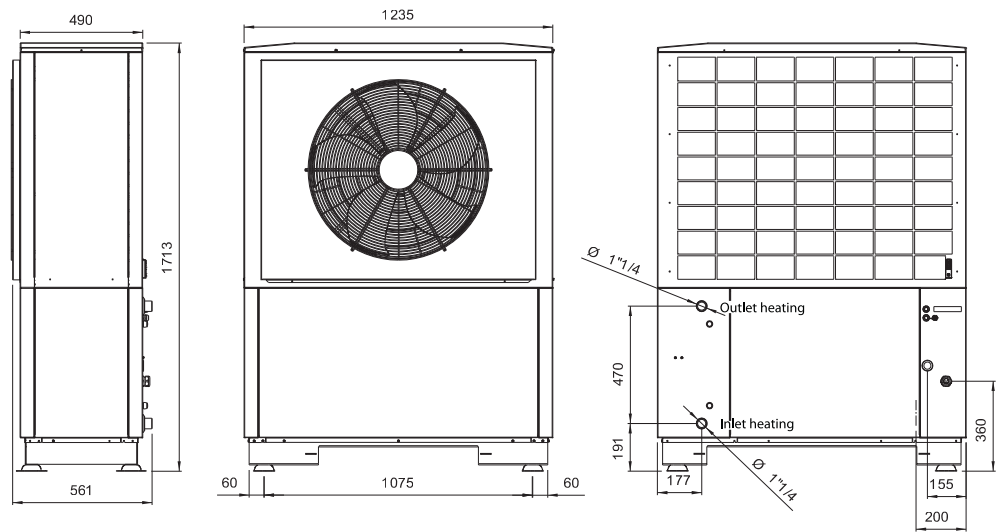


# Drawings and dimensions

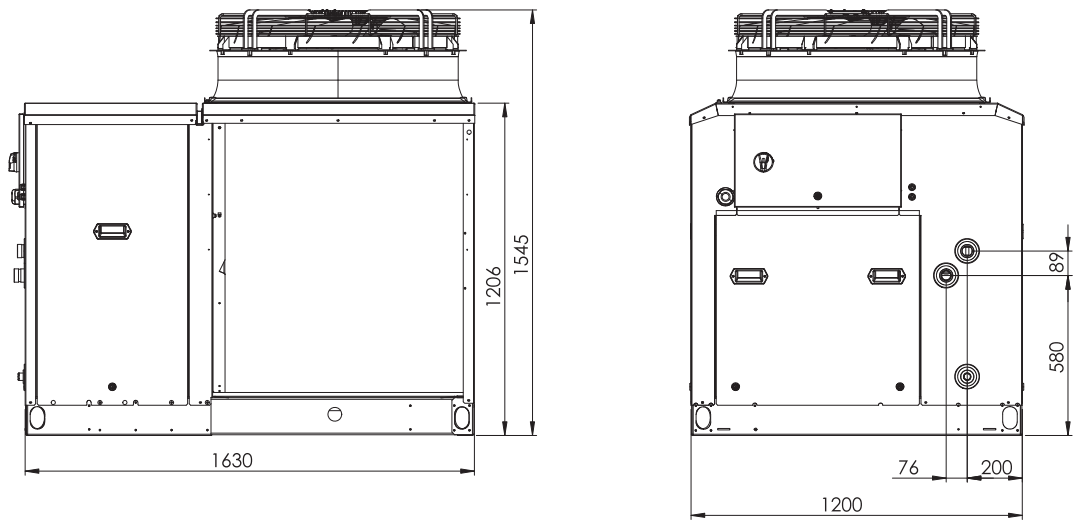
HRC<sup>70</sup> 17kW, 20 kW, 25kW



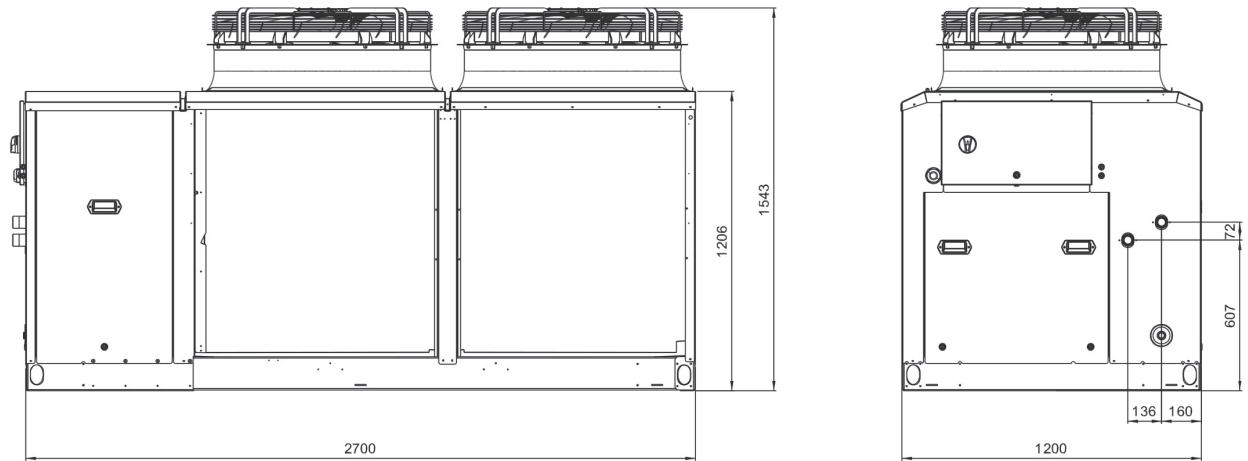
HRC<sup>70</sup> 32kW



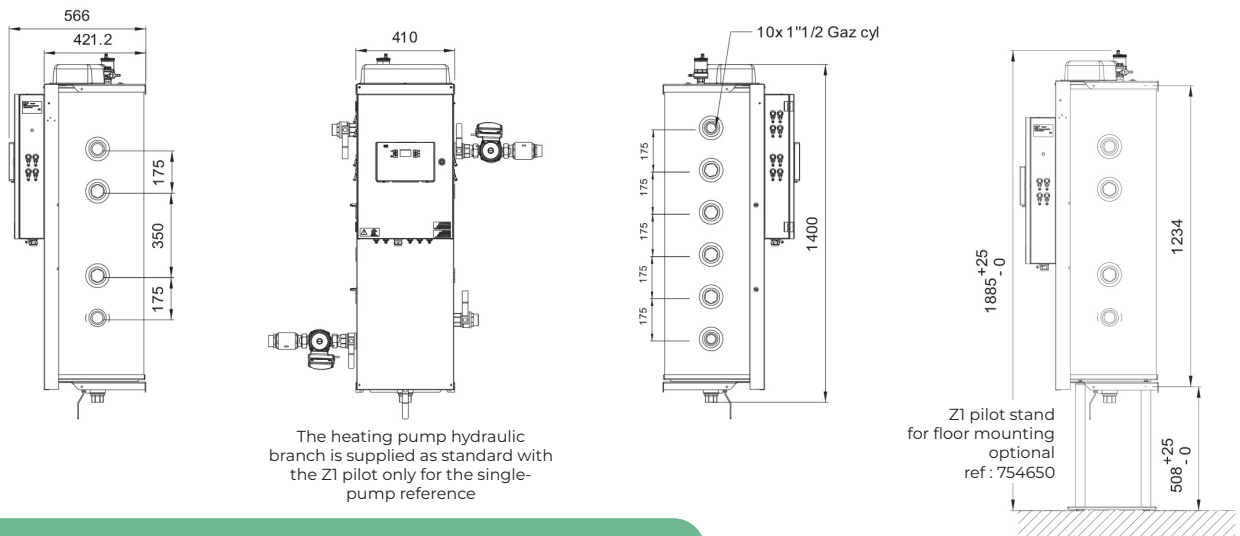
HRC<sup>70</sup> 40kW



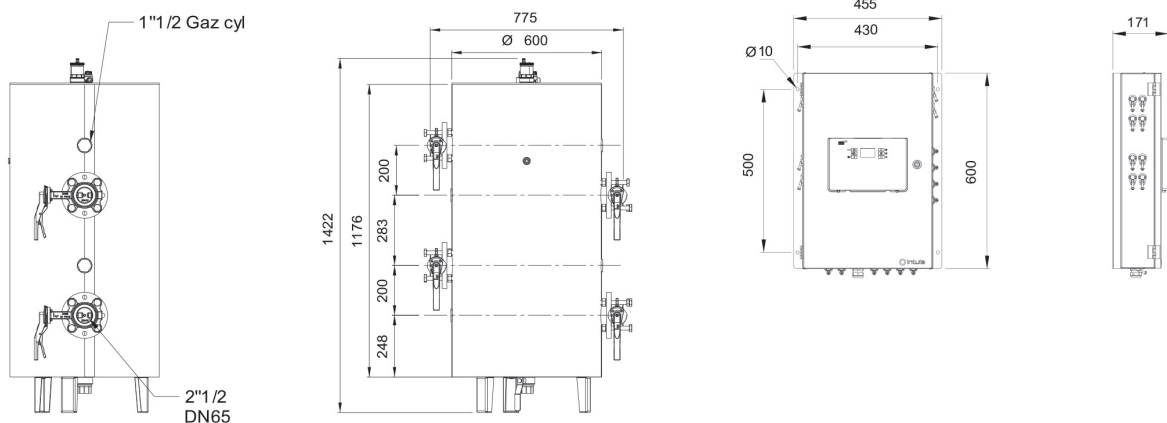
## HRC<sup>70</sup> 80kW



## Pilot Z1



## Pilot Z2





# Heater tanks

Domestic Hot Water tank

## PEJ



### Vertical and floor-mounted DHW heating tank

- ▶ Stainless steel tank
- ▶ Coil heat exchanger in stainless steel
- ▶ 2-year parts and 3-year tank warranty



DHW



**Warranty**  
2 years parts  
and 3 years tank



### Domestic Water Tank

| Designation                                                    | Energy class & ETAS 35°/55°C | Dimensions   | Heating capacity (kW)* | Volume (L) | Reference |
|----------------------------------------------------------------|------------------------------|--------------|------------------------|------------|-----------|
| Floor-standing or wall-mounted vertical - stainless steel tank |                              |              |                        |            |           |
| PEJ 200 (floor - stainless steel)                              | C                            | Ø 630 x 1040 | 29/21                  | 200        | 341111    |
| PEJ 270 (floor - stainless steel)                              | C                            | Ø 630 x 1382 | 41/29                  | 270        | 341106    |

\*Primary 80°C/65°C (80°C: boiler application; 65°C: high-temperature heat pump application) - Secondary 10-40°C

### Water tank accessories

| Designation                        | Reference |
|------------------------------------|-----------|
| 3/4" DHW thermostatic mixing valve | 769003    |
| DHW / pool / cascade sensor        | 710029    |

# VS range DHW cylinders

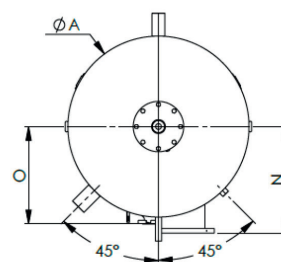
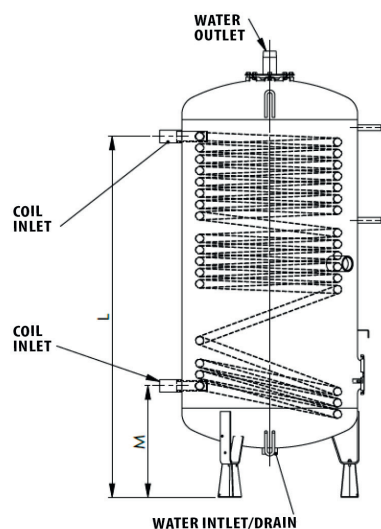
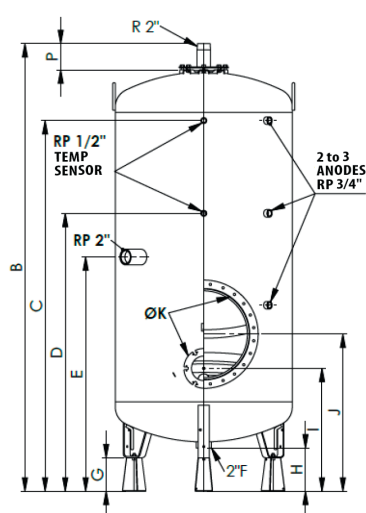
RM1 range - TP single coil



**Warranty**  
2 years parts  
and 3 years tank

## Vertical and floor-mounted DHW heating tank

- ▶ Wide range from 300 to 3000L
- ▶ Its oversized heat exchanger improves the performance of the heat pump
- ▶ Reinforced M1 insulation at the cup of the tank
- ▶ Also available in a low size version with M4 insulation (consult your intuis contact)



Magnesium anode

ACI anode

|                                            | Reference with magnesium anode | Designation               | Reference with ACI anode | Designation                | Actual volume (L) | Energy classe | Heat exchanger power (kW) | Ø A (mm) | Elevation (mm) |      |      |      |     |     |     |     |         |      |     |     |     |     | Heat exchanger surface (m²) | Weight with insulation (kg) |
|--------------------------------------------|--------------------------------|---------------------------|--------------------------|----------------------------|-------------------|---------------|---------------------------|----------|----------------|------|------|------|-----|-----|-----|-----|---------|------|-----|-----|-----|-----|-----------------------------|-----------------------------|
|                                            |                                |                           |                          |                            |                   |               |                           |          | B              | C    | D    | E    | G   | H   | I   | L   | J       | K    | M   | N   | O   | P   |                             |                             |
| Water loop heating tank<br>Tanks preparers | 342348                         | VS 300 RM1 TP - Mg Anode  | 342448                   | VS 300 RM1 TP - ACI Anode  | 317               | C             | 52                        | 630      | 1498           | 1155 | 807  | 807  | 150 | 206 | 525 | -   | 110     | 982  | 472 | -   | 330 | 114 | 1,6                         | 135                         |
|                                            | 342349                         | VS 500 RM1 TP - Mg Anode  | 342449                   | VS 500 RM1 TP - ACI Anode  | 490               | C             | 86                        | 630      | 2095           | 1752 | 1334 | 1108 | 150 | 200 | 525 | -   | 110     | 1288 | 472 | -   | 330 | 114 | 3                           | 168                         |
|                                            | 342350                         | VS 750 RM1 TP - Mg Anode  | 342450                   | VS 750 RM1 TP - ACI Anode  | 709               | NS            | 115                       | 790      | 2007           | 1662 | 1246 | 1050 | 150 | 194 | 551 | 704 | 110/400 | 1623 | 501 | 465 | 425 | 117 | 4                           | 262/293                     |
|                                            | 342351                         | VS 1000 RM1 TP - Mg Anode | 342451                   | VS 1000 RM1 TP - ACI Anode | 868               | NS            | 158                       | 790      | 2356           | 1981 | 1246 | 1246 | 150 | 194 | 551 | 704 | 110/400 | 1929 | 501 | 465 | 425 | 114 | 5,2                         | 310/337                     |
|                                            | 342352                         | VS 1500 RM1 TP - Mg Anode | 342452                   | VS 1500 RM1 TP - ACI Anode | 1497              | NS            | 173                       | 1100     | 2187           | 1745 | 1380 | 1150 | 200 | 212 | 650 | 803 | 110/400 | 1722 | 600 | 620 | 580 | 117 | 5,6                         | 429/460                     |
|                                            | 342353                         | VS 2000 RM1 TP - Mg Anode | 342453                   | VS 2000 RM1 TP - ACI Anode | 1673              | NS            | 173                       | 1100     | 2371           | 1888 | 1380 | 1244 | 200 | 212 | 650 | 803 | 110/400 | 1722 | 600 | 620 | 580 | 113 | 5,6                         | 450/481                     |
|                                            | 342354                         | VS 2500 RM1 TP - Mg Anode | 342454                   | VS 2500 RM1 TP - ACI Anode | 2484              | NS            | 214                       | 1400     | 2243           | 1730 | 1208 | 1208 | 200 | 212 | 730 | 883 | 110/400 | 1587 | 650 | 730 | 730 | 110 | 7                           | 628/659                     |
|                                            | 342355                         | VS 3000 RM1 TP - Mg Anode | 342455                   | VS 3000 RM1 TP - ACI Anode | 2684              | NS            | 214                       | 1400     | 2372           | 1808 | 1208 | 1208 | 200 | 212 | 730 | 883 | 110/400 | 1587 | 650 | 730 | 730 | 110 | 7                           | 653/684                     |

# Back-up electric boilers

## GIALIX

Modulating wall-mounted electric boiler with cast iron heating element.



**Cast iron heating element**  
guaranteed for up to 20 years

**Durability, simplicity, efficiency**

► The judicious choice of components and its intelligent design make it a perfectly reliable boiler.



*"Cast iron for the most efficient electric boiler".*

### Gialix 6 to 24kW electric boiler

| Designation                                   | Energy class | Rated power (kW) | Minimum power output (kW) | Number of heating stages | Voltage            | Minimum power cable cross-section (mm²) | Circuit breaker protection (A) | Dimensions (HxLxW) / Weight | Reference |
|-----------------------------------------------|--------------|------------------|---------------------------|--------------------------|--------------------|-----------------------------------------|--------------------------------|-----------------------------|-----------|
| <b>Electronic control with outdoor sensor</b> |              |                  |                           |                          |                    |                                         |                                |                             |           |
| GIALIX 6 MT MONO <sup>(1)</sup>               | D            | 6                | 2                         | 3                        | 230 V-single phase | 6                                       | 32                             | 500x340x280 mm / 20 kg      | 132632    |
| GIALIX 12 MT MONO <sup>(2)</sup>              | D            | 12               | 4                         | 3                        | 230 V-single phase | 16                                      | 63                             | 500x340x280 mm / 25 kg      | 132631    |
| GIALIX 12 MT TRI <sup>(2)</sup>               | D            | 12               | 4                         | 3                        | 400 V - threephase | 4                                       | 20                             | 500x340x280 mm / 25 kg      | 132636    |
| GIALIX 16 MT TRI <sup>(2)</sup>               | D            | 16               | 5,3                       | 3                        | 400 V - threephase | 6                                       | 25                             | 500x340x280 mm / 25 kg      | 132637    |
| GIALIX 24 MA TRI <sup>(2)</sup>               | D            | 24               | 2,6                       | 6                        | 400 V - threephase | 10                                      | 40                             | 630x474x200 mm / 26 kg      | 132645    |

### Gialix 36 to 196kW electric boiler

| Designation                                   | Energy class | Rated power (kW) | Minimum power output (kW) | Number of heating stages | Voltage            | Minimum power cable cross-section (mm²) | Circuit breaker protection (A) | Dimensions (HxLxW) / Weight | Reference |
|-----------------------------------------------|--------------|------------------|---------------------------|--------------------------|--------------------|-----------------------------------------|--------------------------------|-----------------------------|-----------|
| <b>Electronic control with outdoor sensor</b> |              |                  |                           |                          |                    |                                         |                                |                             |           |
| GIALIX 36 MA TRI                              | D            | 36               | 12                        | 2                        | 400 V - threephase | 16                                      | 63                             | 736x460x280 mm / 34 kg      | 131417    |
| GIALIX 48 MA TRI                              | D            | 48               | 24                        | 2                        | 400 V - threephase | 25                                      | 80                             | 736x460x280 mm / 34 kg      | 131418    |
| GIALIX 72 MA TRI                              | NS           | 72               | 24                        | 3                        | 400 V - threephase | 35                                      | 125                            | 740x460x280 mm / 38 kg      | 131419    |
| GIALIX 120 MA TRI                             | NS           | 120              | 24                        | 5                        | 400 V - threephase | 70                                      | 175                            | 736x570x350 mm / 50 kg      | 131420    |
| GIALIX 196 MA TRI                             | NS           | 196              | 28                        | 6                        | 400 V - threephase | 120                                     | 285                            | 736x630x400 mm / 70 kg      | 131423    |

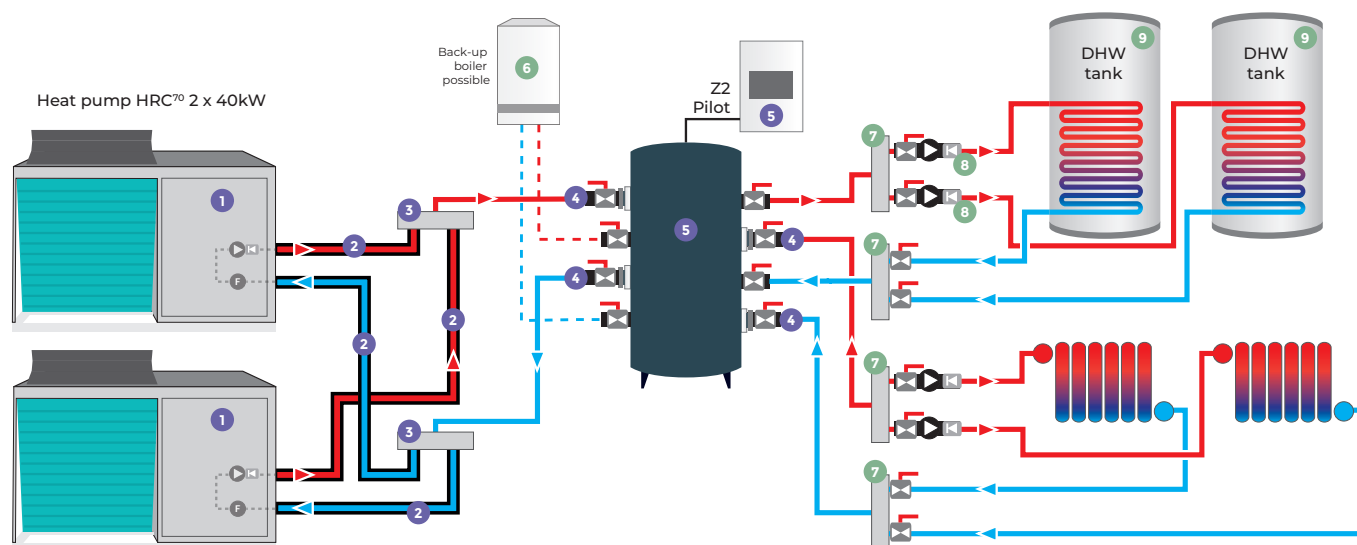
NS : Non soumis à l'étiquetage énergétique.

(1) OFG : Concerns the Gialix 6 MT, 12 MT, 16 MT et 24 MA

(2) This Gialix boiler must be supplemented with a tank and a domestic hot water sensor if you wish to produce domestic hot water (see pages 22-23)

# Composition of an installation

## Element details



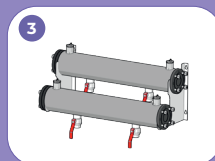
### Included as standard in reference 151310



HRC<sup>70</sup> 2 x 40kW  
with filter, non-return valve  
and circulators



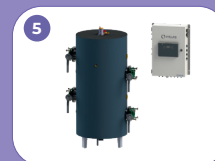
Hydraulic connection kit



Collectors  
Flow cross-section 2"1/2  
Tapping diameter 1"1/2



2"1/2" flanged valve  
to isolate the tank from  
the pilot

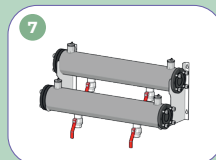


Z2 pilot, 200L tank,  
remote control box

### Optional accessories



**Ref. 131417**  
Back-up boiler  
Gialix 48 MA



**Ref. 755815, 755816,  
755817, 755818**  
Hydraulic accessory See  
p. 27



**Ref. 755823**  
Hydraulic branch  
Valve assembly, non-return  
valve, pump, only on 1"1/2 sleeve



**Ref. 342153**  
DHW cylinder  
VS 2000 RM1 TP

**Commercial references including:** Heat pump + Pilots + Hydraulic connection + Manifold + Valve, supplied with

| Heat pump                               | HRC <sup>70</sup> 17kW/m | HRC <sup>70</sup> 17kW/t | HRC <sup>70</sup> 20kW/t | HRC <sup>70</sup> 25kW/t       | HRC <sup>70</sup> 32kW/t       | HRC <sup>70</sup> 40kW/t       | HRC <sup>70</sup> 80kW/t |
|-----------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------|
| Associated part numbers<br>Z1 single HP | 151433                   | 151439                   | 151449                   | 151459                         | 151461                         | 151476                         | -                        |
| Associated part numbers<br>Z2 single HP | -                        | -                        | -                        | -                              | -                              | -                              | 151330                   |
| Associated part numbers<br>Z1 battery   | -                        | -                        | 2x20 : 151448            | 2x25 : 151453<br>3x25 : 151456 | 2x32 : 151462<br>3x32 : 151463 | -                              | -                        |
| Associated part numbers<br>Z2 battery   | -                        | -                        | -                        | -                              | -                              | 2x40 : 151310<br>3x40 : 151312 | 2x80 : 151331            |

### Good to know



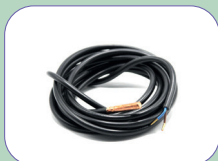
The hydraulic branch Ref. 755823 is available as an option to ensure circulation in the circuit connected to the 1"1/2 sleeve and to the 2"1/2 flange (with the addition of Ref. 755843) if the flow/pressure characteristics of the circuits allow (max. 5m<sup>3</sup>/h over 5m of water column).

For a higher flow rate on the main 2"1/2 circuit, a pump (not supplied) must be selected according to the heating characteristics and flow rate requirements.

**Check that these water circulators are powerful enough for the radiator circuits at the time of sizing.**

# PAC accessories and Z1 & Z2 battery pilots

## CIRCUIT CONTROL



**Ref. 710158**  
Valve flow sensor  
3-way for Z1



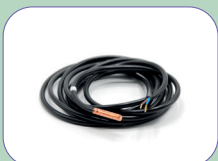
**Ref. 752202**  
Sanitary aquastat



**Ref. 751009**  
Room sensor  
with display  
(only for 1 circuit)



**Ref. 770001**  
TH RNC/2 radio: non-  
chronoproportional  
wireless room thermostat



**Ref. 710029**  
DHW / pool / cascade  
sensor

## CONNECTIVITY



**Ref. 730078**  
PAC modbus kit



**Ref. 770002**  
Thermo-Net Gateway

## OUTDOOR UNIT



**Ref. 753102**  
Shielded 2-wire  
cable lg 20m



**Ref. 754103**  
Shielded 2-wire  
cable lg 50m



**Ref. 751004**  
External defrost  
for HRC<sup>70</sup>



**Ref. 754208**  
40m DN30 flex. pipe

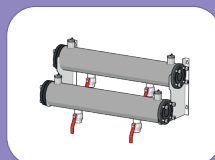
## HYDRAULIC ACCESSORIES AND PILOTS



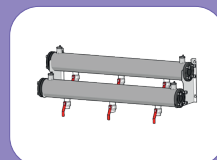
**Ref. 755843**  
Flange DN65  
tapped DN40



**Ref. 755823**  
Hydraulic branch  
auto 25-125-130



**Ref. 755815**  
Flow cross-section 2 1/2  
2 fittings ø 1 1/2



**Ref. 755816**  
Flow cross-section 2 1/2  
3 fittings ø 1 1/2



**Ref. 754650**  
Z1 Pilot floor stand

## FLOOR HEATING MANAGEMENT



**Ref. 710111**  
Underfloor heating  
temperature limiter 65°C  
manual reset



**Ref. 411002**  
Thorix evolution 1C -  
1 mixed circuit + outdoor  
sensor (integrated LTP)

## Heat pump accessories

| Designation                                                                          | HRC | Reference |
|--------------------------------------------------------------------------------------|-----|-----------|
| External defrost cable for HRC <sup>70</sup>                                         | ✓   | 751004    |
| 2-wire shielded cable lg 20m PAC/pilot (replaces the 10m cable supplied as standard) | ✓   | 753102    |
| 2-wire shielded cable lg 50m PAC/pilot (replaces the 10m cable supplied as standard) | ✓   | 754103    |
| Crown 40m DN 30 flexible pipe                                                        | ✓   | 754208    |
| 4 fittings DN30                                                                      | ✓   | 754210    |
| Rubber foot kit lg 600mm for HRC <sup>70</sup> 40kW                                  | ✓   | 754603    |
| Rubber foot kit lg 1000mm for HRC <sup>70</sup> 80kW                                 | ✓   | 754604    |
| Springs kit for HRC <sup>70</sup> 40kW                                               | ✓   | 754605    |
| Springs kit for HRC <sup>70</sup> 80kW                                               | ✓   | 754606    |

## Pilots accessories

| Designation                                                                                            | Z1 PILOT       | Z2 PILOT                 | Reference        |
|--------------------------------------------------------------------------------------------------------|----------------|--------------------------|------------------|
| Room sensor with display<br>+ 2% on ETAS value                                                         | Circuit 1 only | Circuit 1 only           | 751009           |
| TH RNC/2 radio: Non-chrono-proportional wireless room thermostat* + 2% on ETAS value                   | ✓              | ✓                        | 770001           |
| DHW / pool / battery sensor                                                                            | ✓              | ✓                        | 710029           |
| Sanitary aquastat                                                                                      | ✓              | ✓                        | 752202           |
| Domestic hot water tanks                                                                               | ✓              | ✓                        | (See price list) |
| Manual reset 65°C underfloor heating temperature limiter with wiring harness                           | ✓              | ✓                        | 710111           |
| Modbus kit - CET/PAC                                                                                   | ✓              | ✓                        | 730078           |
| Check valve "1" F / F (only required for domestic boiler back-up)                                      | ✓              | ✓                        | 710118           |
| Thorix ÉVOLUTION 1C - 1 mixed circuit + outdoor sensor<br>2 <sup>nd</sup> circuit at lower temperature | ✓              | -                        | 411002           |
| Flow sensor 3-way valve                                                                                | ✓              | ✓                        | 710158           |
| Electric booster 6kW (230/400V)                                                                        | ✓              | -                        | 754105           |
| Z1 pilot stand for floor mounting                                                                      | ✓              | -                        | 754650           |
| Hydro auto branch 25-125-130                                                                           | ✓              | ✓ ⚠<br>Secondary circuit | 755823           |
| DN65 flange with DN40 thread for connecting the hydraulic branch ref 755823 to the Z2 main outlet      | -              | ✓ ⚠                      | 755843           |

\* Compatible with all commercially available non-chrono-proportional connectable thermostats.

⚠ The hydraulic branch ref. 755823 offered as an option has a flow rate of 5m<sup>3</sup>/hour for a pressure difference of 5 meters of the water column, corresponding to an equivalent power of 40kW. Above this, the heating circulation pump and/or DHW storage tank must be sized to meet the requirements (flow rate and pressure drop).

## Hydraulic accessories

| Designation   | Cross-section | Number of stitches | Tapping diameter | Reference |
|---------------|---------------|--------------------|------------------|-----------|
| Collector 2.2 | 2"1/2         | 2                  | 1"1/2            | 755815    |
| Collector 2.3 | 2"1/2         | 3                  | 1"1/2            | 755816    |
| Collector 4.2 | 4"            | 2                  | 2"               | 755817    |
| Collector 4.3 | 4"            | 3                  | 2"               | 755818    |



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