



HEAT PUMPS  
THERMODYNAMIC WATER  
HEATERS  
ELECTRIC BOILERS  
GAS RADIATORS



MORE COMFORT, LESS ENERGY.

**CATALOG**

July 2023





intuis

MORE COMFORT, LESS ENERGY

## Dear partners, dear customers

For over 50 years, the Muller Group has been anticipating societal and environmental changes and has become the French specialist in thermal comfort.

Through our products, we innovate every day to contribute to the progress of our industry by making buildings more energy-efficient, more connected and more sustainable.

We are proud to have always been consistent with our industrial model of manufacturing our products in France to support the local economy, opting for technological independence, and guaranteeing that our products are Made in France.

Today, we'd like to share our new vision with you.

The world will never be the same again.

The climate emergency, growing energy needs, new consumer uses and the economic impact of energy prices are radically changing the shape of our market and the experience of thermal comfort.

To anticipate these changes, we decided to transform our company.

Our vision is to provide simple, intuitive use of our solutions, to contribute to reducing the carbon footprint of the home and to enable our customers to make savings on their energy bills.

To make sure we're always there for you and to write the next chapter in our story, the Muller Group and its professional brands, Airelec, Applimo, Auer, Campa, France Energie, Muller Intuitiv and Noirot, have become **intuis**.

**We're committed to delivering an ever-increasing level of comfort using less energy..**

Dedicated to thermal comfort, **intuis** offers connected, thermodynamic and electric solutions for residential, collective and tertiary use.

You are our long-standing partners and we are as loyal to you as you are to us.

We have created **intuis** with you and for you.

Together, we can meet the challenges of the new world of thermal comfort.



PHILIPPE DÉNECÉ  
Chief Executive Officer



and



NICOLAS BÉRANGER  
Group Sales Director





# GENERAL SUMMARY

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# Intuitively.

**intuis** is based on the word "intuition", reflecting that intuitive use is primarily the result of expert knowledge and technical skills, backed up by a streamlined experience.

Because thermal comfort is sensory, subjective and intimate all at the same time, **intuis** offers personalised, networked comfort in all living spaces, whether residential, individual and collective, industrial or tertiary.

Our raison d'être.

**From the outset, our aim has been to anticipate social and environmental changes in order to promote energy efficiency.**

With 50 years of history under its belt, **intuis** is leading the way in the energy transition. As part of our commitment to sensible and responsible consumption, we design innovative and efficient local solutions for thermal comfort.

From R&D to design to manufacturing, **intuis** designs products and services that respond to the need for energy saving and ecological protection.

Our promise.

**More comfort,  
less energy.**

Production, installation, use: with **intuis**, every use is designed to **offer** maximum comfort. Being mindful of our energy consumption isn't just an environmental responsibility, but also a social one as we aim to minimize our energy usage. By offering more comfort using less energy, **intuis** is leading the way in the name **of** progress for everyone.



Our pillars.

## Simplicity

intuis creates value with a demand for simplicity in every aspect of the business. For **intuis**, making it simple means making information accessible but also facilitating all the stages from installation to maintenance, right through to using the products and the user experience.

## Responsibility

Because **intuis** is a global force in thermal comfort, responsibility is a key value. It is embodied by a duty of transparency to its employees as well as to its partners and customers, by a commitment to the community, and by the desire to contribute to the 2050 climate plan.

## Innovation

At **intuis**, innovation is both technological and experience-based. We believe that it only makes sense by bringing real progress to the greatest number of people. For over 50 years, we have been improving comfort in living spaces by making it more accessible and more environmentally friendly. That's why our 120 engineers and researchers in our 5 research and development centres in France strive every day to provide you with more comfort using less energy.

## How we work.

**intuis** is a company that promotes synergies and cooperation. **intuis** is committed to and involved in the areas in which it operates. **intuis** is a dynamic company in touch with developments in its market. **intuis** is a manufacturer at the cutting edge of new technologies.

Process, technology, service, communication, experience... at **intuis**, **everything comes together** in the quest for peak performance : ours and yours. **intuis** is by your side, designing the **thermal comfort** of tomorrow, today. Comfort that will be driven by practicality. Comfortable living.

# Support and facilitate

# Discover intuis

The Muller Group and its professional brands, Airelec, Applimo, Auer, Campa, France Energie, Muller Intuitiv and Noirof, have become intuis.

Founded over 50 years ago, the Group has built its reputation by creating and integrating major brands specialising in multi-energy thermal comfort.

intuis is an industrial group based in France, and most of its products are certified "Origine France Garantie" or "Made in France".

We operate in the residential, industrial and tertiary markets with expertise and specific offers for each segment.

To deliver on our promise of "More comfort, less energy", we are constantly innovating to create products that offer some of the best levels of energy efficiency on the market.

At intuis, we work closely with our partners in distribution, installation, specification, maintenance and operation.



## intuis in figures

### In France:

**1,000** employees including 120 engineers and researchers

**6** factories located in Hauts-de-France, Grand Est and Pays de la Loire.

**5** research and development centres

**3** training centres

**200** sales and technical advisers at your service



# intuis solutions

## High performance energy solutions

Heat pumps for single-family homes and multi-family housing, hot water heaters.

At intuis, our heat pumps are designed, developed and manufactured with particular care to give our customers a real advantage in terms of ease of installation and use, outstanding performance and a robust product that stands the test of time.

There's a solution for everyone in our wide range of products: private individuals, landlords, developers and industry, to perfectly balance comfort and energy savings.

Pioneers in the use of refrigerants with very low environmental impact, our hot water heaters and heat pumps benefit from a number of patented innovations that guarantee more economical and environmentally-friendly production of heating and domestic hot water.

## Connected electric heating solutions

intuis connect with Netatmo



What matters to us at intuis is the simple and intelligent use of our solutions. We are constantly developing more technical and more efficient electric radiators and towel rails to meet the needs of every room in the home.

There's a solution to suit every layout and every budget, for living rooms, bedrooms and, of course, bathrooms, which require their own special levels of comfort.

In partnership with Netatmo, we have developed an intelligent remote control solution for our electric radiators. For even greater comfort, intuis connect with Netatmo lets you adjust the temperature in each room to the degree, using either your fingertips or your voice. For even greater savings, our connected solution gives users the option of monitoring their consumption in real time or adjusting the comfort of their home as suggested by our self-teaching algorithm.

## Tertiary and industrial solutions

Water loop heat pumps

To meet the challenges of sustainable and intelligent buildings, intuis has developed a range of services tailored to tertiary buildings:

Water loop heat pumps (PAC). We offer unique 4-in-1 solutions for air renewal, active heat recovery, heating and cooling. The benefits of these are threefold: healthy indoor air, optimum individual temperature and energy saving.



# Sustainable individual and collective solutions for heating and domestic hot water

## FRENCH EXPERTISE



### Exemplary industrial integration since 1892

Based at its historic site in Feuquières-en-Vimeu, intuis designs, develops and produces high-performance heating and domestic hot water solutions for individual and collective housing.

Always at the forefront of research and innovation, our products focus on renewable energies to support the energy transition and sustainable development in the home, and provide the best comfort at the best price.





## "Made in France" priority... Guaranteed French Origin

Manufacturing in France is nothing new for intuis. We have purposely always prioritised French manufacturing: our reputation and thermal expertise are built on appliances built at the Laon, Feuquières-en-Vimeu, Esquennoy, Fismes, Changé-Lès-Laval and La Ferté-Bernard sites.

Making "Made in France" a priority through the Origine France Garantie certification of the majority of our products is much more than a simple commercial approach, it is a natural step and a key commitment of the Group.



# THE FRENCH SPECIALIST

in thermal comfort for individual and collective housing



# 130 years of history, with innovation as the core value



**DR CARL AUER  
VON WELSBACH**

AUER's industrial activity began in 1892 with Dr Carl AUER VON WELSBACH's patent on the metal-filament light bulb.

1892

## STÉ AUER

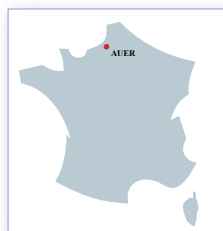
The AUER industrial site opened in Feuquières-en-Vimeu (Picardie Maritime) in 1912 with a foundry and an enamel works, marking the first step towards public lighting.



1912

## AUER EXPANDS

All industrial activity has been relocated to Feuquières-en-Vimeu, enabling Auer to manage its production on a single site.



1967

## DESIGN OFFICE AND LABORATORY

In 1983, the design office and an approved research laboratory were set up to carry out tests on gas appliances.



1983

1986

**Auer**

**Auer**

## GAS LIGHTING

The white-light incandescent mantle was renowned for its high light output.



## KITCHEN GAS

During the 1<sup>st</sup> half of the 20<sup>th</sup> century, AUER established itself as the leader in gas cooking and then heating.



## GAS RADIATOR

Very early on, AUER turned its attention to heating appliances with its gas radiators, for which it is still well known today.





## MULLER GROUP

Auer joins the French industrial group Muller.

## GROUPE MULLER

### EMPHASIS ON RESEARCH

AUER is focusing on the development of clean energy and tripling the surface area of its research and innovation centre.



### SITE EXTENSION

20,000m<sup>2</sup> extension for the manufacture of heat pumps and thermodynamic water heaters.

### NEW SITE EXTENSION

8200 m<sup>2</sup> extension dedicated to renewable energies

AUER changes its name to ...



2000

2010

2015

GROUPE MULLER

Auer devient

### BOILERS

In the 1950s, AUER developed its 1<sup>st</sup> central heating boiler. In 1996, the Pulsatoire gas condensing boiler revolutionised the world of heating, thanks to its exceptional efficiency.

### THERMODYNAMICS

The 21<sup>st</sup> century will mark a turning point for AUER, which is investing in the development, design and manufacture of high-temperature heat pumps and thermodynamic water heaters. The Feuquières-en-Vimeu industrial site now covers more than 42,000m<sup>2</sup>.





# Limiting the carbon footprint of our products...

## RE2020



### Solutions to meet RE2020 requirements

This is the new environmental regulation for new buildings aiming to achieve energy sobriety by 2050 (the RE2020 requirements will lead to the gradual disappearance of gas and oil heating in homes).



#### Energy

Prioritising energy sobriety and the decarbonisation of energy

**Bbio:** bioclimatic requirements

**PEF, nr:** non-renewable primary energy factor (electricity + gas)

**PEF:** Primary energy factor.



#### Summer cool

Keeping cool in hot weather to adapt to climate change

**Degree-hours:** Number of hours of discomfort during a summer heatwave.



#### Carbon

Reducing the carbon impact of building construction - Lifecycle Analysis

**Ic construction:** carbon impact of materials and equipment

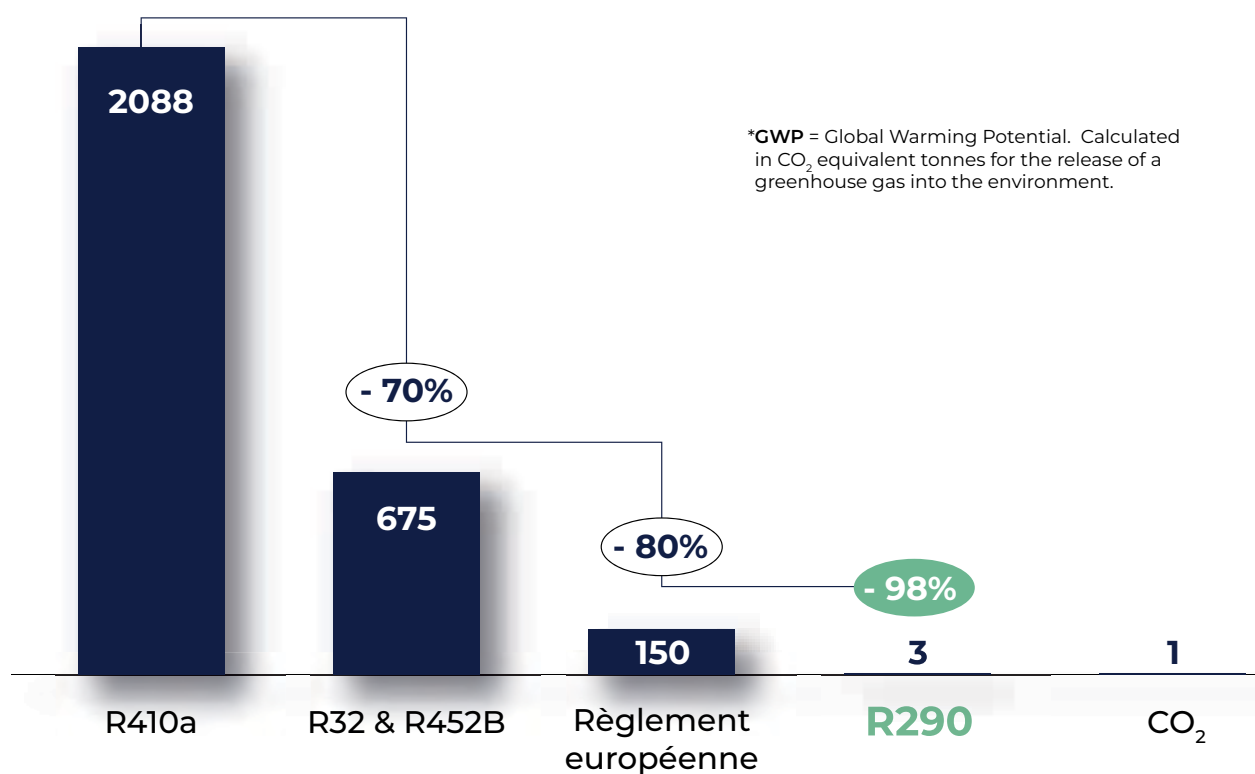
**Ic energy:** carbon impact of energy consumption

## R290 technology, focused performance for low-carbon solutions

R290 fluid is included in the RE2020 due to its low carbon impact, and it is a solution favoured by F-GAS because of its low environmental impact.

Edel and CYLIA thermodynamic water heaters and HRC<sup>70</sup> and HTi<sup>70</sup> heat pumps use environmentally-friendly **R290** fluid (natural fluid without HFCs) not subject to European F-GAS regulations which impose a GWP\* of less than 150. R290 has an index of just 3, which means it has virtually no impact on the environment.

### Environmental impact of refrigerant gases (in GWP\*)



RÈGLEMENTATION  
ENVIRONNEMENTALE  
**RE 2020**







# A complete industrial site

## RESEARCH & INNOVATION



The Intuls site brings together all the infrastructure essential to the design, development and production of high-performance, sustainable quality products.

### **An R&D department committed to developing tomorrow's solutions**

A wide range of skills devoted to driving innovation come together in a 1,000 m<sup>2</sup> facility, where engineers, technicians, industrial designers and prototypers develop the technologies of tomorrow.

An on-site testing building enables our products to be tested in real-life conditions.

#### **Skills**

- Thermodynamics
- Materials science
- Fluid mechanics
- Two-phase flow
- Acoustic
- Micro-cogeneration
- Heat transfer



*Environmental test chamber*

## A modern manufacturing base for "Made in France"

Focusing on short supply chains, protecting our technological innovations and promoting the national and local economic fabric are some of the reasons why the men and women who make up our company are so proud.

Our commitments and expertise reflect a key objective: to offer you greater comfort while consuming less energy!

Today, more than 26,000 m<sup>2</sup> are used to manufacture products in the intuis range.



Heat pumps



Foundry



New automated production area for thermodynamic water heaters

## Pre-sales, sales and after-sales technical support

A team of specialists is on hand to listen to your needs, answer the most frequently asked questions and support you with your projects:

### Skills

- Pre-purchase advice
- Installation
- Advice on use
- Maintenance
- AFTER-SALES SERVICE

Our approved technical stations and technicians operate **throughout the country** to provide you with the best possible service.



commercial services

Tel. 03 22 61 21 01 - Fax. 03 22 30 01 19 - [adv@groupe-intuis.fr](mailto:adv@groupe-intuis.fr)



spare parts services

Tel. 03 22 61 21 21 - Fax. 03 22 61 33 35 - [pieces@groupe-intuis.fr](mailto:pieces@groupe-intuis.fr)



advice

- Before sales  
- Technical assistance

Renewable energies: Tel. 03 22 61 33 33 - Fax. 03 22 61 33 35-  
[enr@groupe-intuis.fr](mailto:enr@groupe-intuis.fr)  
Other: Tel. 03 22 61 33 34 - Fax. 03 22 61 33 35  
[sav@groupe-intuis.fr](mailto:sav@groupe-intuis.fr)



# The customer experience...

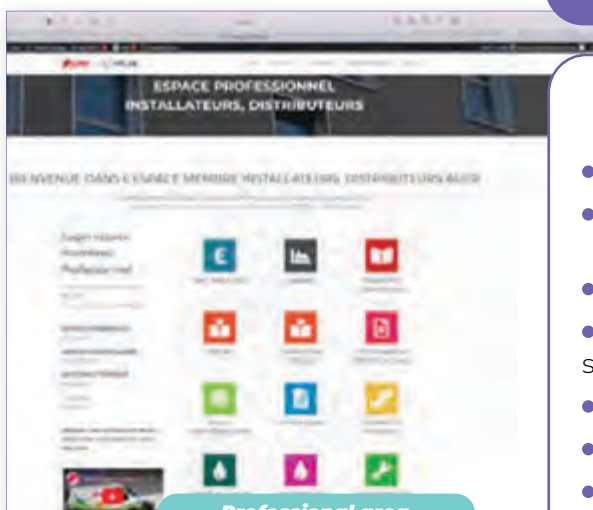
## SIMPLE



### A site designed by professionals for professionals

The site presents the range's thermal solutions, full technical specifications and the different configurations for each product.

#### AN AREA RESERVED FOR PROFESSIONALS



Professional area

<https://www.auer.fr>

Access the **"pro" tools** you need to get the job done right

- **DimoPAC**, sizing tool
- **Downloadable product sheets, price list and catalogue**
- **Product** information sheets
- **recommended solutions** special technical specifications (CCTP)
- **Title V application tool**
- **Data entry sheets**
- **DWG drawings**
- **BIM**
- **Certifications**



## E-shop, order your spare parts online

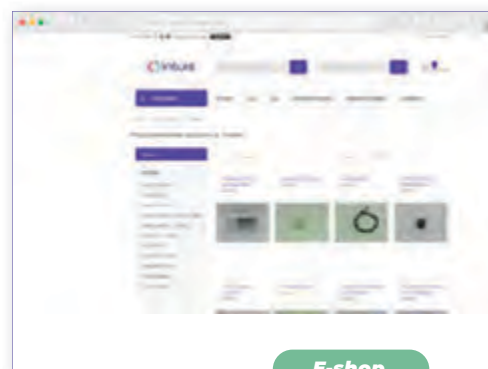
Order spare parts for your intuis (formerly Auer) product version quickly and easily from your E-shop.

### Secure payment

- Spare parts for all products (Renewable Energy and Fossil Fuel)
- Photos of parts, assembly instructions and exploded views of products
- Easy search by types, products and serial numbers
- Delivery within 24 hours for all orders placed before 1pm

Ask your sales representative for more information!

*Spare parts for intuis products are available for a period of 10 years from the date on which production of the series ceases, except in the event of circumstances beyond the control of intuis.*



<https://www.auer-pro.fr/> 

## DimoPAC, the perfect sizing tool for installers

Create your professional space on our website and use DimoPAC to calculate the dimensions of a thermodynamic installation and select the relevant equipment for an individual residential project.



<https://www.auer.fr> 

- DimoPAC is a software application (in Excel format) that allows you to estimate heat loss from your home and select the thermodynamic equipment that responds best to your project's needs.
- DimoPAC can be downloaded from the professional section of the website.

### SIZE AN INSTALLATION EFFORTLESSLY IN 3 STEPS

#### PROJECT ENTRY

Information on the customer, the home, the geographical location, the needs to be met, selection of thermodynamic products and accessories suited to the project.

#### SUMMARY

A design brief containing all the information on the project, the chosen solution, the technical features and the hydraulic and electrical connection diagrams.

#### COSTING

All the equipment for the project, enabling the installer to order the equipment from their intuis distributor and draw up a quotation for the customer.



The customer experience...  
at the heart of our business

# TOGETHER



## A strong, long-lasting and mutually beneficial professional relationship

We provide targeted support in terms of training, services and information, based on our customers' expectations and needs.



### Departments

- **Commercial services**
- **Pre-sales, sales and after-sales technical support**
- **Recommendation department**



### Training

- **Standard or customised training**



### Information

- **Financial assistance**
- **Commercial offers**

## Standard or customised training

These should enable professionals to be up and running straight away, installing and maintaining thermodynamic systems and boilers.

Training is provided by instructors with technical skills specific to the trade and who are after-sales specialists.

- **Learning** on individual simulator units.
- **Handling** products in operational conditions.



### Certification

- **QualiPac** (Training centre approved to deliver QualiPac Thermodynamic Water Heater (CET) training module)
- **Qualiopi** certified process (Training activity category Quality certification)



Training centre approved to deliver QualiPAC Thermodynamic Water Heater (CET) training module  
Approval number CETI-031

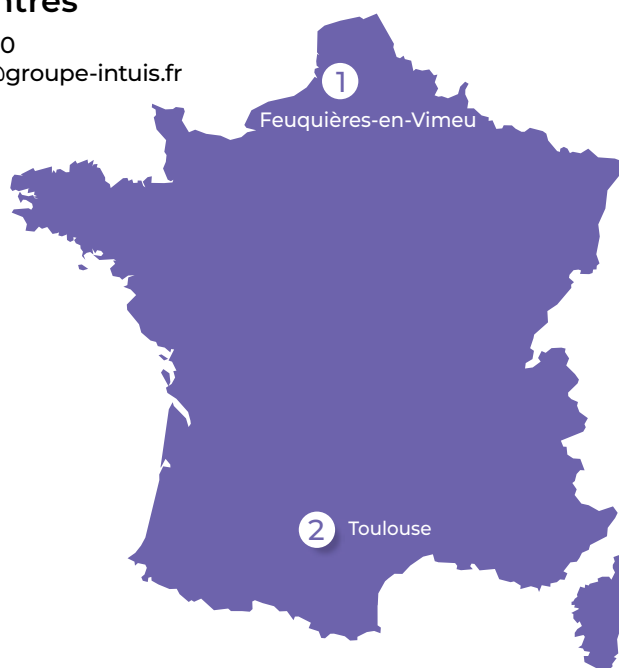


Quality certification has been awarded for the following activity category: training activity

## Training centres

Tel. : 03 22 61 21 00

Mail: [formation@groupe-intuis.fr](mailto:formation@groupe-intuis.fr)



### STANDARD TRAINING

**9 types of training tailored to different levels**

Number of sessions: **47**

Number of trainees: **386**

Overall satisfaction rate: **95%\***

### CUSTOMISED TRAINING

Customised training courses can be organised - contact your intuis representative.

Number of sessions: **8**

Number of trainees: **54**

Overall satisfaction rate: **93%\***

\* Data for 2022





# The customer experience...

## Connected products/thermostats Individual homes

### 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.
- . X3D and ZigBee 3.0 communication protocol for multiple compatibility.
- . Download the free Tydom app.
- . Also controls other functions in the home (lights, locks, smart plugs, etc.).



**PN 770001**

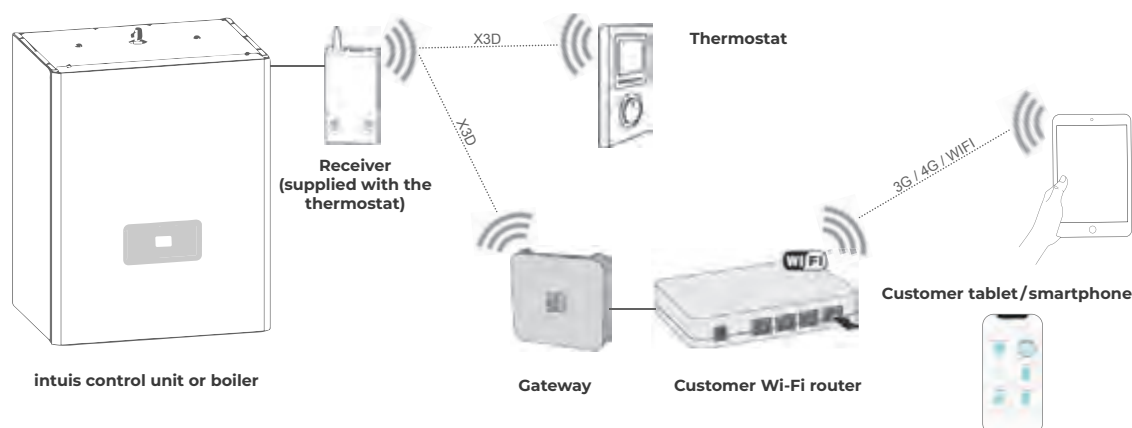
Thermostat (supplied with receiver)



**PN 770002**

Gateway

### Solutions diagram



### Thermostat accessories

Product name	PN
TH RNC/2 radio - Wireless non-chronoproportional room thermostat & receiver (1 per circuit) Connectable	770001
Thermo-Net - Communication gateway (only compatible with part number 770001)	770002

### Download the free Tydom app.

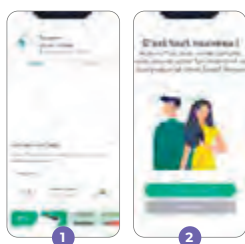
Available on Google play and the App Store



### 2 installation options:

- Installation by a professional
- End-user activation

## Installation by a professional



### Step 1: download and install the Tydom app

Tydom smartphone app, available on Google Play and the App Store.

### Step 2: create a Pro Delta Dore account

The Pro account is specific to each installer and must be created once for all Thermo-Net installations.

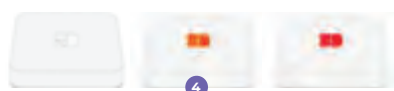


### Step 3: connect the Thermo-Net gateway

- Always connect the Ethernet cable first to make sure the gateway is updated.
- Connect the gateway to the mains.
- On power-up, the gateway starts flashing. The flashing may be longer or shorter if an update is made (2 minutes maximum).

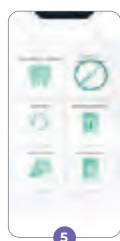
### Step 4: confirm the connection

- The LED turns solid white. This means that the gateway is connected to the Internet. It can be accessed locally and remotely, go to step 5.
- If the light is amber, the gateway is not connected to the internet. It can only be accessed via the local Wi-Fi network.
- If the light is red, the gateway is not connected to any network. Check the RJ45 Ethernet cable connection.



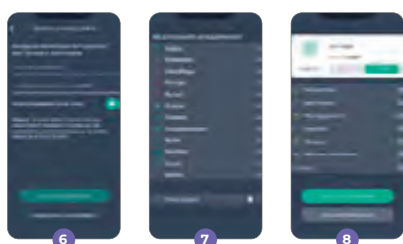
### Step 5: return to the app to register the gateway and the installation

On the app home page, select "new installation".



### Step 6: register the new installation

- Enter the name of the new installation.
- Enter the last 6 characters of the gateway MAC address (MAC address located under the gateway).
- Locate the installation.
- Confirm by pressing "add installation".



### Step 7: link the thermostat

- Go to "my installations", select the current installation, then go to "my equipment" to "add equipment".
- Go to "heating", "hydraulics", then "Tybox 1137" profile.

### Stage 8: finalise the installation and hand over to the customer

- After selecting "Finished", press "Send installation" to hand over to the user. Enter the user's e-mail address for delivery.

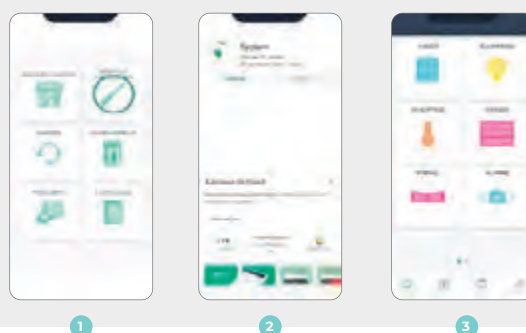
## End-user activation

### Step 1: download and install the Tydom app

### Step 2: create an account

### Step 3: log in using the app

Just log in to the customer account to access all the controls.





# The customer experience... financial assistance and grants

## GET A GRANT!



### Funding for projects

Your customers can benefit from one or more grants (from the government or local organisations)<sup>(1)</sup> for the installation of a heat pump by an RGE<sup>(2)</sup> qualified professional or a thermodynamic water heater.

<sup>(1)</sup> Subject to conditions, find full details at [www.france-renov.gouv.fr](http://www.france-renov.gouv.fr) and [www.anah.fr](http://www.anah.fr)

<sup>(2)</sup> RGE: Installateur Reconnu Garant de l'Environnement (Environmentally-friendly installer)

### Offer your customers:

Renovation of their heating system to improve their comfort.

Savings on their heating bill.

**The chance to do something for the planet** by reducing their carbon footprint by no longer using fossil fuels



## € Renovation grant

[www.maprimerenov.gouv.fr/](http://www.maprimerenov.gouv.fr/)



### Support for energy renovation (homeowners, landlords, co-owners)



**MaPrimeRénov'** is an energy renovation grant calculated based on your income and the environmental benefit of the work.

It aims to encourage the use of renewable energies to reduce dependence on gas and oil.

Get a financial analysis of your project at [www.france-renov.gouv.fr](http://www.france-renov.gouv.fr)

#### COMFORT

Stay comfortable in your home whatever the weather  
- cold, wet,  
or a heatwave.

#### SAVINGS

Save on your heating bills to reduce the cost of the work.

#### ENVIRONMENT

Join the collective effort against global warming.

- Assistance available subject to compliance with the eligibility criteria specific to each scheme.
- To benefit from the grants, you must register before starting your project.

## € Helping hand from the energy grant

in partnership with



**Offer valid until 31 December 2023**

Offer reserved for private individuals while stocks last

### Helping hand from the energy grant

If you buy a high-temperature heat pump, you can take advantage of a money-back offer.

#### High-temperature heat pump

- Specially designed for boiler replacement (except condensing) in renovation projects
- Compatible with any type of radiator: no modifications required to your central heating
- Heats water up to 70°C
- Modular power and broad range up to 40kW
- Autonomous operation down to -20°C outside air temperature
- System equipped with multifunction hydraulic control unit for easy, turnkey installation

**intuis**  
reimburses from  
**200€<sup>(1)</sup> to 350€<sup>(2)</sup>**  
TTC



\*Applies to HTi<sup>®</sup> 6 single-phase with Premium+ and DS170 D control units, HTi<sup>®</sup> 8 single-phase and three-phase with Premium+ and DS170 D control units

<sup>(1)</sup> Intuis cashback of €200 inc. VAT for heat pumps < 18kW

<sup>(2)</sup> Intuis cashback of €350 inc. VAT for heat pumps > 18kW

**All our heat pumps are eligible for the energy grant!**



Our available solutions

# SOLUTIONS FOR OUR CUSTOMERS

## Our solutions by market type

Each solution is a combination of a heat pump, which generates the power, and a control unit, which is responsible for hydraulic distribution, regulation and comfort. The two are linked and can be used in any situation. These two elements are often separated into an outdoor unit and an indoor unit, but they can also be contained within a single unit, as is the case with thermodynamic water heaters for example or the ZéCET.

Our electric range is an ideal complement to our thermodynamic range, and works very well in conjunction when necessary.

### The individual family home market

Houses of various sizes. For heating and domestic hot water we suggest:



► **The HTi<sup>70</sup>** heat pump range for small and medium-sized homes (from 80 to 160 m<sup>2</sup>).



► **The HRC<sup>70</sup> heat pump range** for larger houses (cascade installation).



► **The Edel & Cylia thermodynamic water heater ranges** to provide only DHW.



#### Our electric range:

- Gialix electric boiler
- Electric radiators: Etic, Oslo, Quartéa Intelligent, etc.

The relevant control units are: Orium, Premium+, DS170 D, Z1 and hybrid solutions. Each has its own specific features.

## The collective housing market/collective solutions

A building where the heating and/or domestic hot water is provided by a shared generator. This generator can be a combination of several outdoor units cascaded to increase power, but with a single control unit.



- **The HRC<sup>70</sup>** heat pump range for buildings.

The relevant control units are: the Z1, the MegaPAC and the ZéPAC. Each has its own specific features.



**Our electric range:** Etic, Oslo, Chamane, Quartéa Intelligent, etc.

## The collective housing market/individual solutions

A building in which the heating and/or domestic hot water needs are met by each flat.



- **The Edel thermodynamic water heater range** to provide DHW, connected to a common pipe.
- **The ZéCET thermodynamic water heater solution** to manage DHW, heating and cooling.

**Our electric range:** Etic, Oslo, Chamane, Quartéa Intelligent, etc.

## The small tertiary market

This includes schools, town halls, gyms, small shops, etc. whose heating or hot water requirements can also be easily met by the HRC<sup>70</sup> range and associated control units.



- **The HRC<sup>70</sup>** heat pump range for all types of tertiary buildings (cascade installation).

The relevant control units are: the Z1, the MegaPAC and the ZéPAC. Each has its own specific features.



**Our electrical range:** child-friendly R21, air heater...

## The tertiary and industrial market

Offices, hotels, shopping centres, large buildings... all equipped with water loop technology. Our HRC<sup>70</sup> range of AIR/WATER heat pumps balance the temperature of the water loop, while our WATER/AIR heat pumps recover, transfer and distribute heat throughout the water loop circuit.



- **The HRC<sup>70</sup>** heat pump range for all types of tertiary buildings.

The relevant control units are: the Z1, the MegaPAC and the ZéPAC. Each has its own specific features.



- **The Edel thermodynamic water heater range** to provide only DHW, connected to a common pipe.



- **The UtCi thermodynamic range** (Individual Comfort thermodynamic unit). With its 4-in-1 function, it heats, cools, treats and renews air.



**Our electric range:** air door, hand dryer...



## Our projects

# SOME EXAMPLES



### Vernon project (27)

HTi<sup>70</sup> + DS170 D, the intuit individual heat pump solution, integrated domestic hot water and heating



#### Context:

- Thermal comfort for individual homes. Installation of a HTi<sup>70</sup>-DS170D heat pump to provide integrated heating and hot water.

#### Advantages :

- Ideal for both new builds and renovations.
- Adaptable to all types of heating systems, underfloor heating, radiators, etc.
- Provides integrated heating and DHW.
- Economic and environmental.
- Operates without back-up down to -20°C outside air temperature.
- Silent.

#### Features:

- COP > 4.85 with an outdoor temperature of +7°C/35°C
- 170-litre integrated DHW (domestic hot water) cylinder. Thermodynamic domestic hot water up to 60°C.
- R290 fluid with very low environmental impact.
- Monobloc heat pump, easy to install, no fluid handling required.
- Power ratings from 6 to 14kW.



## Genas Project (69)

ZéPAC, collective heat pumps for 33 housing units, an intuis and Arcole Développement solution



### Context:

- Development of the project from RT2012 to RE 2025. Installation of a heat pump in a collective unit for DHW and heating. Installation of 2 80 kW generators and ZéPAC control unit.

### Advantages :

- Easy to install.
- Kept the original heaters.
- One-piece solution with no fluid handling.
- Compact equipment on the roof and in the equipment room.
- Energy savings help to tackle purchasing power issues, while at the same time responding to the environmental concerns of customers and landlords with an all-Renewable Energy solution.

### Features:

- Low carbon, with natural and eco-friendly R290 fluid, less CO<sub>2</sub> emissions.
- User-friendly to use and maintain.
- Remote control of the installation.
- Predictive maintenance.
- Space saving in the home.
- Acoustic comfort of a collective solution away from the living area.

## Sartrouville Project (78)

ZéPAC + HRC<sup>70</sup>, the intuis solution in collective heat pumps, domestic hot water and heating



### Context:

- Installation of 3 HRC<sup>70</sup> 80 kW rooftop heat pumps and ZéPAC control unit. ZéPAC is the ultimate high-performance, environmentally-friendly, practical and silent solution for heating, DHW and cooling in collective housing, all with a low-carbon approach.

### Advantages:

- Economical: no boiler room or flue pipes.
- Environmentally-friendly: the lowest carbon footprint on the market.
- Practical and easy to install: low product height < 1.30 m.
- Quiet: with extra-large diameter fans.

### Features:

- High-performance with high temperature > 70°C: 100% thermodynamic heating as low as -20°C outdoors without electric back-up.
- Compatible with all high-, medium- and low-temperature hydraulic heaters.
- Allows anti-Legionella cycles for DHW without the need for a back-up.
- Smart: manages DHW production priorities when combined with heating.
- "All-in-one" design to carry out maintenance and servicing at the same time.
- R290 fluid: very low environmental impact.
- Monobloc heat pump, easy to install, no fluid handling required.





## HIGH-TEMPERATURE HEAT PUMPS

HTi<sup>70</sup> from 6 to 14kW

Gas Hybrid

HRC<sup>70</sup> from 17 to 40kW

Cascade from 40 to 96kW

## HYDRAULIC & CONTROL EQUIPMENT

Thorix

Onix

Thermostats



# Guide to choosing heat pumps

## HTi<sup>20</sup> Range



Technology		
Maximum water outlet temperature (excluding back-up)		
Refrigerant		
Maximum heat pump capacity		
Type of back-up / Power		
Configuration	Heating	1 circuit
		2 circuits
	DHW	Integrated
		Remote <sup>(1)</sup>
Energy class up to		35°C / 55°C
		DHW
Description Application	New	Individual
		Collective
	Renovation	Individual
		Collective
Heaters		Floor/Ceiling
		Radiators

ORIUM UNIT	PREMIUM+ UNIT	DS170 D Unit
Variable power monobloc		
70°C		
R290		
Single-phase: 6kW Single-phase / Three-phase: 8kW	Single-phase: 6kW Single-phase / Three-phase: 8 / 11/14kW	
Electric 6kW single-phase / three-phase	Electric 6kW single / three or boiler <i>(not supplied)</i> .	Electric 6kW single-phase / three-phase
✓	✓	✓
Optional	Optional integration	Optional
-	-	170L
✓	✓	-
A+++ / A+++	A+++ / A+++	A+++ / A+++
-	-	A+
✓	✓	✓
-	-	-
✓	✓	✓
-	-	-
✓	✓	✓
✓	✓	✓

<sup>(1)</sup> See page 78



## HYBRID range



### GAS HYBRID UNIT

Variable power monobloc

70°C

R290

Single-phase: 6kW  
Single-phase / Three-phase: 8 / 11/14kW

Integrated  
Condensing gas boiler  
18kW

✓

Option<sup>(1)</sup>

-

✓

A+++ / A+++

-

✓

-

✓

-

✓

✓

## HRC<sup>TM</sup> Range



### PREMIUM+ UNIT

### DS170 D Unit

### Z1 UNIT

Monobloc with stepped power

70°C

R290

Single-phase: 17kW  
Three-phase: 17 / 20 / 25kW

Three-phase: 32 / 40kW

Electric 6kW single-phase / three-  
phase  
or boiler (not supplied)

Electric 6kW single-phase / three-  
phase

Electric 6kW single-phase / three-  
phase (optional)  
and / or boiler not supplied

✓

✓

✓

Optional integration

Option<sup>(1)</sup>

Option<sup>(1)</sup>

-

170L

-

✓

-

✓

A+++ / A++

A+++ / A++

A+++ / A++

-

A+

-

✓

✓

✓

-

-

✓

✓

✓

✓

-

-

✓

✓

✓

✓

✓

✓

✓

# HTi<sup>70</sup>

Air/Water Monobloc Heat Pump  
High Temperature 70°C with wide power modulation and R 290 (HFC free)



**PERFORMANCE RATING UP TO 4.8<sup>(1)</sup>**

**COMPRESSOR 5 YEAR WARRANTY<sup>(2)</sup>**



- **High temperature:** heats water up to **70°C**.
- **Very broad power** modulation **from 15% to 100%**.
- **Can be connected** either to a 35/30 underfloor heating system or a 70/50 radiator circuit.



Heating



Cooling



DHW



*"intuis patented high temperature heat pump with ultra modulating power."*

## Design

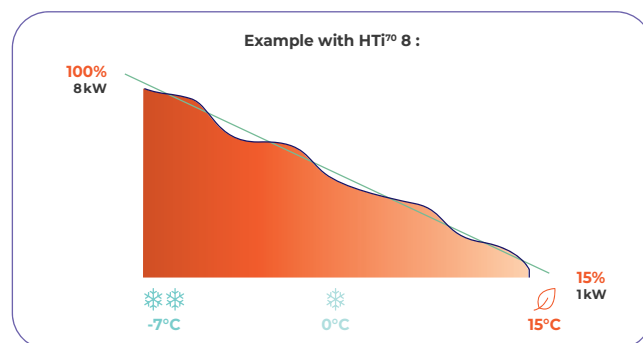
- Certified "Origine France Garantie<sup>(3)</sup>", French know-how combined with factories located within France.
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.
- Meets all heating, cooling and DHW requirements.

## Usage

- Individual house, recent, new RE2020 and renovations.
- Perfect for underfloor/ceiling heating/cooling, low-temperature, fan coil or high-temperature radiator projects.
- Can be installed to replace an old boiler and does not require the replacement of existing high-temperature radiators.

## Performance

- High temperature up to 70°C using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- Inverter compressor for ultra-modulation of power, from 15 to 100%, to adjust power to requirements and outdoor conditions.
- Broad power range, HTi<sup>70</sup> 6 single-phase, HTi<sup>70</sup> 8, 11, 14kW single-phase and three-phase.
- Thermodynamic operation down to -20°C outside air temperature.



— heating needs — adaptability of the inverter compressor ■ power generated by the 100% thermodynamic heat pump

🍃 In the mid-season, the HTi<sup>70</sup> adjusts its power and temperature to the optimum level.

❄️ In the middle of winter, the HTi<sup>70</sup> delivers full power at a high temperature to ensure comfort.

❄️ in extreme cold

❄️ at the onset of cold weather

🍃 mid-season



100%



50%



15%

The HTi<sup>70</sup> has an Inverter compressor that modulates its power from 15 to 100%.

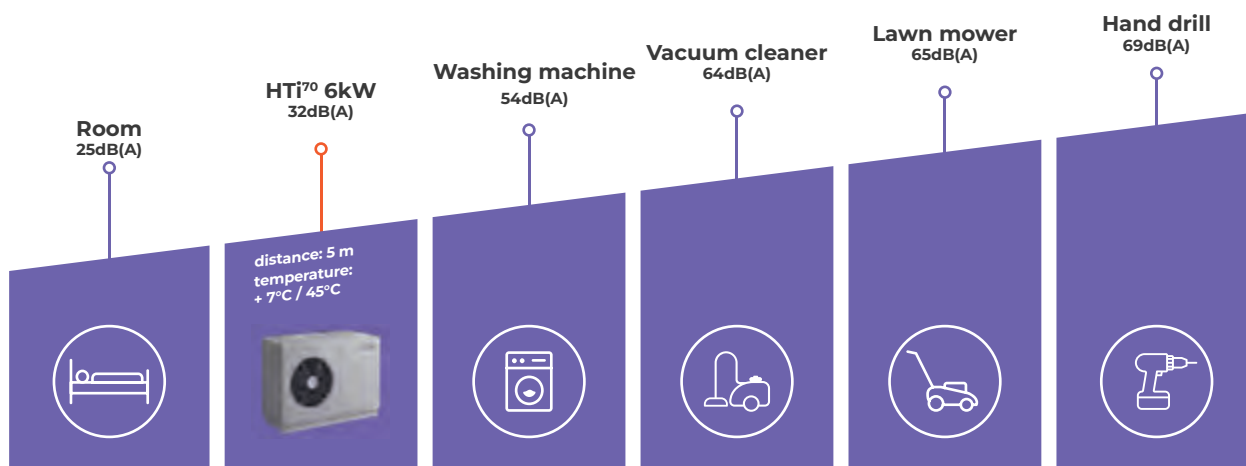
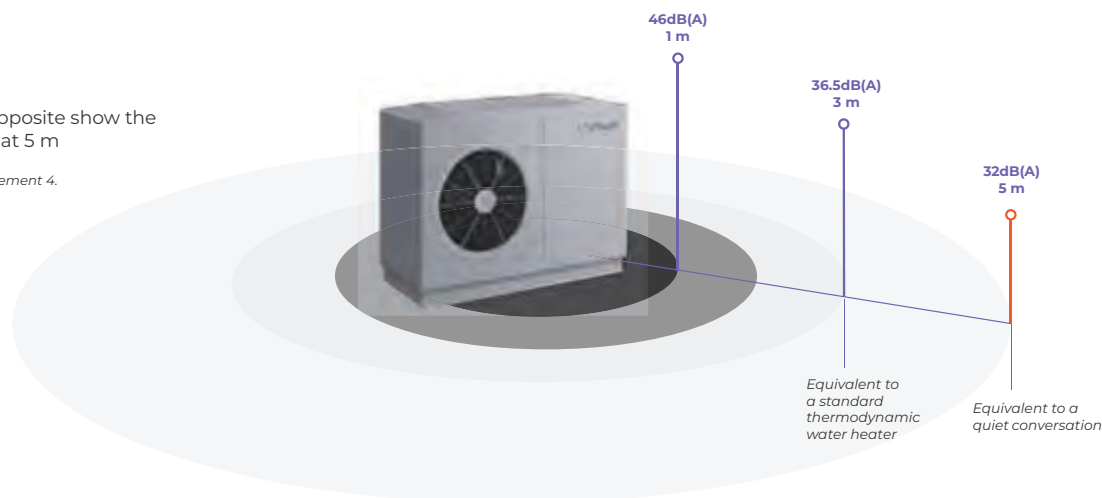
<sup>(1)</sup> Depending on the model

<sup>(2)</sup> Compressor guaranteed for 5 years subject to compliance with the warranty conditions set out in the T&Cs of the current catalog.

<sup>(3)</sup> Applies to HTi<sup>70</sup> 6 single-phase & 8 single-phase and three-phase, with Premium+ and DSI70 D control units.

## Noise output of 6kW outdoor unit

The diagrams opposite show the sound pressure at 5 m  
+7°C / 45°C.  
Directionality measurement 4.



### Comfort & reliability

- Quiet, with a carefully engineered design.
- Remote control with connectivity.
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator.

### Environment

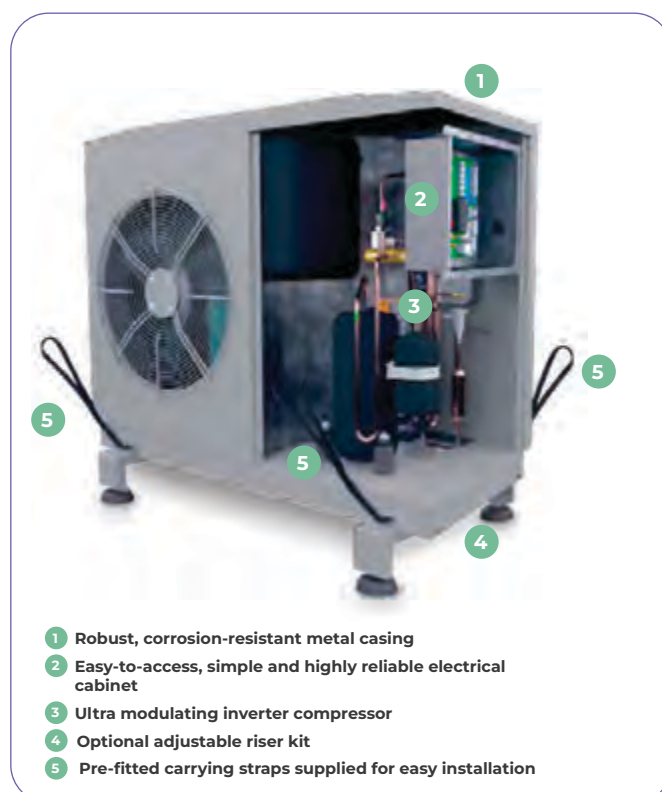
- Factory-sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented intuis technology.

### Installation

- Complete Heat Pump + Control unit + Hydraulic connection kit including filters and 2 hoses (1.50m).
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit, so you don't need to be a refrigeration engineer to install it.
- Carrying straps included.
- Supplied as standard with adjustable feet to adapt to different ground conditions on the HTi<sup>70</sup> 11 and 14kW.
- Condensate drainage provided by rear connection hole.
- Easy to maintain, everything can be accessed quickly.

### Savings

- Eligible for financial assistance / EDF grant.
- High COP for a lower bills.
- Operates with or without back-up (gas, electricity, etc.) depending on the installation configuration.



# HTi<sup>70</sup> - ORIUM

Air/Water

high temperature 70°C monobloc heat pump

Complete control unit for heating, cooling and remote DHW.



PERFORMANCE  
RATING  
UP TO 4.8<sup>(1)</sup>

COMPRESSOR  
5 YEAR WARRANTY<sup>(2)</sup>

*"Compact and multifunctional with triple service for all-season comfort."*

## Design

- Heat pump designed and manufactured in France, French know-how combined with factories located within France.
- Compact, comprehensive control unit for all your heating, cooling and remote DHW needs.
- Optional cooling kit (back panel + condensate drain tank part number: 754602).
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.

## Usage

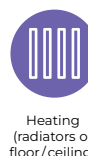
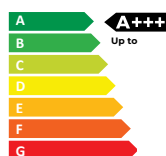
- Individual house, recent, new RE2020 and renovations.
- Ideal for new-build projects with low-temperature heating (underfloor or ceiling heating) or high-temperature radiators for renovations.

## Performance

- High temperature up to 70°C using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- Inverter compressor for ultra-modulation of power, from 15 to 100%, to adjust power to requirements and outdoor conditions.
- Power range, HTi<sup>70</sup> 6kW single, HTi<sup>70</sup> 8kW single and three.
- Thermodynamic operation down to -20°C outside air temperature.

## Compatible with :

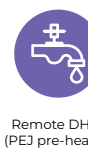
- HTi<sup>70</sup> 6 single-phase, HTi<sup>70</sup> 8 single-phase and three-phase



Heating  
(radiators or  
floor/ceiling)



Cooling (floor and  
ceiling)  
optional



Remote DHW  
(PEJ pre-heater)



## Comfort & reliability

- Quiet, with a carefully engineered design.
- Scalable as required to cover several circuits.
- Remote control with connectivity (optional).
- Integrated stepped 6kW electric back-up (2, 4 and 6kW), single or three-phase.
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator.

## Installation

- Complete Heat Pump + Control unit + Hydraulic connection kit including filters and 2 hoses (1.50m).
- Independent circuits - Extended service life.
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit, so you don't need to be a refrigeration engineer to install it.
- Carrying straps included.
- Condensate drainage provided by rear connection hole.
- Easy to maintain, everything can be accessed quickly.

## Environment

- Sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented Intuis technology.

## Savings

- Eligible for financial assistance / EDF grant.
- High COP for a lower bills.
- Operates with or without back-up (gas, electricity, etc.) depending on the installation configuration.

<sup>(1)</sup> Depending on the model

<sup>(2)</sup> Compressor guaranteed for 5 years subject to compliance with the warranty conditions set out in the T&Cs of the current catalog.





## Features

Heat pump		HTi70 6 single-phase	HTi70 8 single-phase	HTi70 8 three-phase
Energy class 35°C/55°C - SCOP		A+++ / A++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency 35°C/55°C - SEER (ηs)	%	187%/133%	190%/154%	190%/154%
Maximum heat output at -7°C/35°C	kW	6	8	8
Maximum heat output at -7°C/65°C	kW	5,5	6,85	6,85
Nominal heat output at +7°C/35°C (EN14511)	kW	4,06	5,72	5,89
COP at +7°C/35°C (EN14511)	-	4,59	4,85	4,71
Nominal sound pressure level (at 5 m directionality 4)	dB(A)	36,8	37,5	37,5
Power level (ERP +7°C/55°C)	dB(A)	55,8	57,6	57,6
Outside air range	°C	-20 to +40	-20 to +40	-20 to +40
Power supply	V	230 single-phase	230 single-phase	400 three
Protective circuit breaker	A	16 single	16 single	10 four-pole
Circuit breaker curve	-	D	D	D
Maximum electrical power	kVA	3,6	3,6	3,6
Minimum cross-section of power cable	mm <sup>2</sup>	3G 2.5	3G 2.5	5G 2.5
Dimensions (H x W x D)	mm	820 x 1035 x 450	1070 x 1035 x 450	1070 x 1035 x 450
Weight without water	kg	81	94	108
Nominal water flow rate	L/h	1000	1350	1350
Refrigerant	kg	0,42	0,6	0,6
Hydraulic connection	mm	26/34 male	26/34 male	26/34 male



## Features

Unit	ORIUM	
Minimum cross-section of power cable	mm <sup>2</sup>	3G 6 (single) / 5G 2.5 (three)
Power protection circuit breaker	A	32 (single) / 16 (four-pole)
Circuit breaker curve	-	C
Power supply	V	230 (single) / 400 (three)
Multi-purpose cylinder	L	-
Unit dimensions (H x W x D) / Unit empty weight	mm / kg	496 x 400 x 305 / 18
Hydraulic connections	mm	26/34 male
Boiler connection	-	✗
Electric connection (standard)	kW	0/2/4/6kW
Circuit separation	-	✓

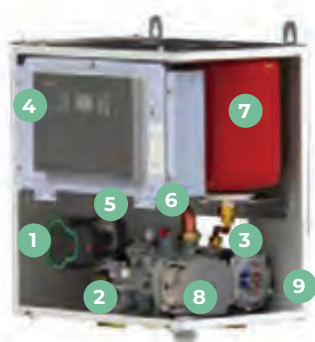
### Part number 754602

#### Cooling kit\*:

- Back panel
- Upward output
- Condensate recovery tank
- Exhaust pipe

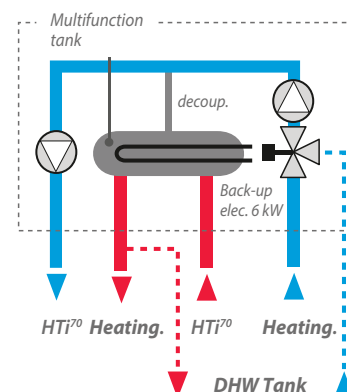


\* Optional cooling mode



### Diagram of ORIUM unit

- 1 Heat pump circulator
- 2 3-way heating / DHW valve
- 3 20-year warranty on cast-iron module
- 4 Control panel
- 5 Automatic air vent
- 6 Valve
- 7 5L expansion tank
- 8 DHW / Heating circulator
- 9 Stepped 6kW electric back-up



# HTi<sup>70</sup> - ORIUM - PART NUMBERS & ACCESSORIES

## HTi<sup>70</sup> 6, 8kW heat pump systems

Product name	Energy class & SEER 35°/55°C	Heating capacity Maximum at -7°/65°C	Part number
<b>ORIUM</b>			
HTi <sup>70</sup> 6kW single Orium	A+++/A++ 187%/133%	5,5	155009
HTi <sup>70</sup> 8kW single Orium	A+++/A++ 190%/154%	6,85	155019
HTi <sup>70</sup> 8kW three Orium	A+++/A++ 190%/154%	6,85	155059
Accessories	Cooling kit for Orium Control unit (optional)		754602

NB: sets are supplied with an exterior sensor as standard. This allows an extra 2% on the SEER value.

Heat pump + control unit + hydraulic kit included *Part number 155009*



For a full installation, see the list of accessories opposite.

opposite:									
Radiators	1 radiator circuit	Quantity							
	1 radiator circuit + 1 DHW circuit	Quantity							
	2 radiator circuits	Quantity							
	2 radiator circuits + 1 DHW circuit	Quantity							

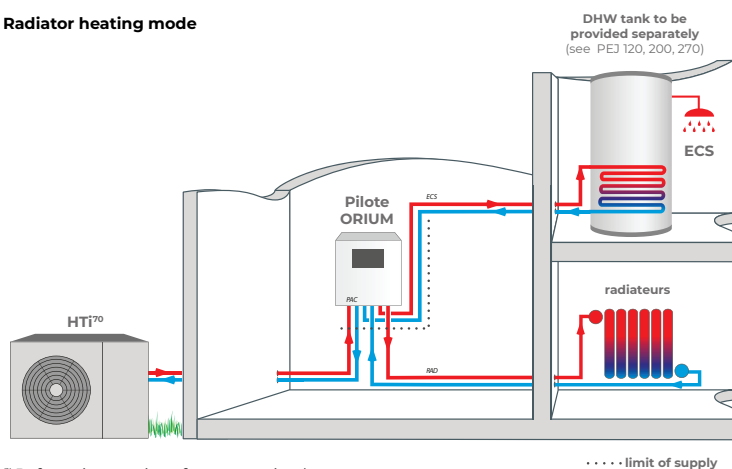
Underfloor heating	1 underfloor heating circuit	Quantity							
	1 underfloor heating circuit + 1 DHW circuit	Quantity							
	2 underfloor heating circuits	Quantity							
	2 underfloor heating circuits + 1 DHW circuit	Quantity							

Radiators + Underfloor heating	1 radiator circuit + 1 underfloor heating circuit	Quantity							
	1 radiator circuit + 1 underfloor heating circuit + 1 DHW circuit	Quantity							

Key:  Incompatible  Recommended  Essential  Optional

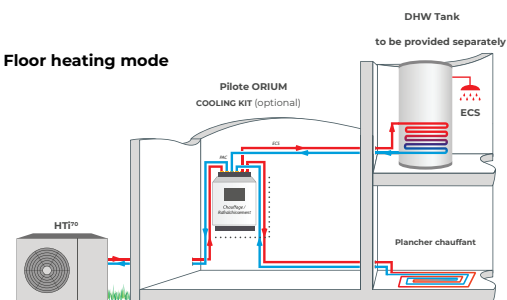
## Schematic diagram <sup>(1)</sup> : HTi<sup>70</sup> ORIUM

### Radiator heating mode

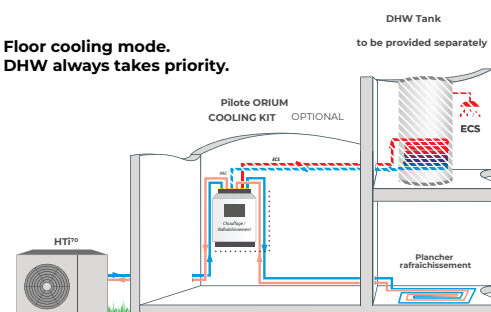


<sup>(1)</sup> Refer to instructions for connection layout.

### Floor heating mode



### Floor cooling mode. DHW always takes priority.



ORIUM control unit interior unit				Additional circuits	Circuit control			Connectivity		Hot water tank DHW pre-heater		Hydraulic circuit accessories		
Manual reset 65°C underfloor heating temperature limiter	KD 10 - Backflow prevention kit	Adjustable hygrostat for cooling mode	Cooling kit for Orium control unit	Thorix EVOLUTION 2C + exterior sensor	Room sensor with display	TH RNC/2 radio: non-chronoproportional wireless room thermostat (for heating only)	DHW / pool / cascade sensor	Thermo-Net Gateway (only with TH RNC/2)	Modbus kit - CET/Heat pump	PEJ 200	PEJ 270	3/4" filter valve	1" filter valve	1 1/4" filter valve
710111	710014	754300	754602	411003	751009	770001	710029	770002	730078	341111	341106	710124	710125	710132
78	78	78	78	78	78	78	78	78	78	92	92	78	78	78
							x1							
				x1										
				x1			x1							
x1														
x1							x1							
x1				x1										
x1				x1			x1							
x1														
x1				x1										
x1				x1			x1							

# HTi<sup>70</sup> - PREMIUM+

Air/Water high temperature 70°C monobloc heat pump  
Multifunctional control unit, adaptable to all configurations, remote heating and DHW.



**PERFORMANCE  
RATING  
UP TO 4.8<sup>(1)</sup>**

**COMPRESSOR  
5 YEAR WARRANTY<sup>(2)</sup>**



BYVCHL 6020118 \*

*"Ideal for renovation with many hydraulic connection options."*

## Design

- Certified "Origine France Garantie<sup>(3)</sup>", French know-how combined with factories located within France.
- Fits perfectly with an existing installation and can be connected to an existing boiler as a back-up.
- Numerous hydraulic connection options to manage several circuits.
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.
- Meets all heating and remote DHW requirements.

## Usage

- Individual, older, renovation project.
- Can be installed to replace or alongside an old boiler and does not require the replacement of existing high-temperature radiators.

## Performance

- High temperature up to 70°C using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- Inverter compressor for ultra-modulation of power, from 15 to 100%, to adjust power to requirements and outdoor conditions.
- Broad power range, HTi<sup>70</sup> 6 single-phase, HTi<sup>70</sup> 8, 11, 14kW single-phase and three-phase.
- Thermodynamic operation down to -20°C outside air temperature.

<sup>(1)</sup> Depending on the model

<sup>(2)</sup> Compressor guaranteed for 5 years subject to compliance with the warranty conditions set out in the T&Cs of the current catalog.

<sup>(3)</sup> Applies to HTi<sup>70</sup> 6 single-phase & 8 single-phase and three-phase, with Premium+ and DS170 D control units.

## Compatible with :

- ▶ HTi<sup>70</sup> 6kW single
- ▶ HTi<sup>70</sup> 8, 11, 14kW single and three



Heating  
(radiators or floor)



Remote DHW  
(PEJ and VS pre-heater)

and\*/or



\* With option to do both.

Optional kit PN 753105, to create a 2<sup>nd</sup> circuit at the same temperature and manage heating on radiators and DHW.

## Comfort & reliability

- Quiet, with a carefully engineered design.
- Scalable as required to cover several circuits.
- Remote control with connectivity (optional).
- Integrated stepped 6kW electric back-up (2, 4 and 6kW), single or three-phase.
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator.

## Installation

- Complete Heat Pump + Control unit + Hydraulic connection kit including filters and 2 hoses (1.50m).
- Independent circuits - Extended service life.
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit, so you don't need to be a refrigeration engineer to install it.
- Carrying straps included.
- Supplied as standard with adjustable feet to adapt to different ground conditions on the HTi<sup>70</sup> 11 and 14kW.
- Condensate drainage provided by rear connection hole.
- Easy to maintain, everything can be accessed quickly.

## Environment

- Sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented Intuis technology.

## Savings

- Eligible for financial assistance / EDF grant only if existing boiler is replaced.
- High COP for a lower bills.
- Operates with or without back-up (gas, electricity, etc.) depending on the installation configuration.



## Features

Heat pump		HTi <sup>70</sup> 6 single-phase	HTi <sup>70</sup> 8 single-phase	HTi <sup>70</sup> 8 three-phase	HTi <sup>70</sup> 11 single	HTi <sup>70</sup> 11 three	HTi <sup>70</sup> 14 single	HTi <sup>70</sup> 14 three
Energy class 35°C/55°C - SCOP		A+++/A++	A+++/A+++	A+++/A+++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Seasonal energy efficiency 35°C/55°C - SEER (η <sub>s</sub> )	%	187%/133%	190%/154%	190%/154%	186%/144%	185%/144%	175%/143%	175%/143%
Maximum heat output at -7°C/35°C	kW	6	8	8	11	11	14	14
Maximum heat output at -7°C/65°C	kW	5,5	6,85	6,85	11	11	13	13
Nominal heat output at +7°C/35°C (EN14511)	kW	4,06	5,72	5,89	8,95	8,95	10,76	10,76
COP at +7°C/35°C (EN14511)	-	4,59	4,85	4,71	4,85	4,85	4,64	4,64
Nominal sound pressure level (at 5m directionality 4)	dB(A)	36,8	37,5	37,5	36,3	36,3	39,4	39,4
Power level (ERP +7°C/55°C)	dB(A)	55,8	57,6	57,6	51,2	51,2	58,4	58,4
Outside air range	°C	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40
Power supply	V	230 single-phase	230 single-phase	400 three	230 single-phase	400 three	230 single-phase	400 three
Protective circuit breaker	A	16 single	16 single	10 four-pole	32 single	16 four-pole	32 single	16 four-pole
Circuit breaker curve	-	D	D	D	D	D	D	D
Maximum electrical power	kVA	3,6	3,6	3,6	7	7	7	7
Minimum cross-section of power cable	mm <sup>2</sup>	3G 2.5	3G 2.5	5G 2.5	3G 6	5G 2.5	3G 6	5G 2.5
Dimensions (H x W x D)	mm	820 x 1035 x 450	1070 x 1035 x 450	1070 x 1035 x 450	1028 x 1235 x 490	1028 x 1235 x 490	1028 x 1235 x 490	1028 x 1235 x 490
Weight without water	kg	81	94	108	136	146	142	150
Nominal water flow rate	L/h	1000	1350	1350	1550	1550	2000	2000
Refrigerant	kg	0,42	0,6	0,6	0,9	0,9	0,95	0,95
Hydraulic connection	mm	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male

## Features

Unit		PREMIUM+
Minimum cross-section of power cable	mm <sup>2</sup>	3G 6 (single) / 5G 2.5 (three)
Power protection circuit breaker	A	32 (single) / 16 (four-pole)
Circuit breaker curve	-	C
Power supply	V	230 (single) / 400 (three)
Multi-purpose cylinder	L	38 (integrated in the control unit)
Unit dimensions (H x W x D) / Unit empty weight	mm/kg	789 x 590 x 420 / 47
Hydraulic connections	mm	26/34 male
Boiler connection	-	✓
Electric connection (standard)	kW	0/2/4/6kW (single or three)
Circuit separation	-	✓



### Diagram of PREMIUM+ unit

- 1 Heating circulator
- 2 38L insulated multifunction tank
- 3 Safety valve
- 4 Pressure sensor
- 5 Cast iron hydraulic distribution module
- 6 Air vent
- 7 Heat pump circulator
- 8 Stepped 6kW electric back-up

# HTi<sup>70</sup> - PREMIUM+ - ACCESSORIES

## HTi<sup>70</sup> 6, 8, 11 & 14kW heat pump systems

Product name	Energy class & SEER 35°/55°C	Heating capacity Maximum at -7°/65°C	Part number
<b>PREMIUM+</b>			
HTi <sup>70</sup> 6kW single Premium+	A+++/A** 187%/133%	5,5	155006
HTi <sup>70</sup> 8kW single Premium+	A+++/A+++ 190%/154%	6,85	155016
HTi <sup>70</sup> 8kW three Premium+	A+++/A+++ 190%/154%	6,85	155056
HTi <sup>70</sup> 11kW single Premium+	A+++/A** 186%/144%	11	155026
HTi <sup>70</sup> 11kW three Premium+	A+++/A** 185%/144%	11	155066
HTi <sup>70</sup> 14kW single Premium+	A+++/A** 175%/143%	13	155036
HTi <sup>70</sup> 14kW three Premium+	A+++/A** 175%/143%	13	155076

NB: Sets are supplied with an exterior sensor as standard - this allows an extra 2% on the SEER value.

Heat pump + control unit + hydraulic kit included *Part number 155006*

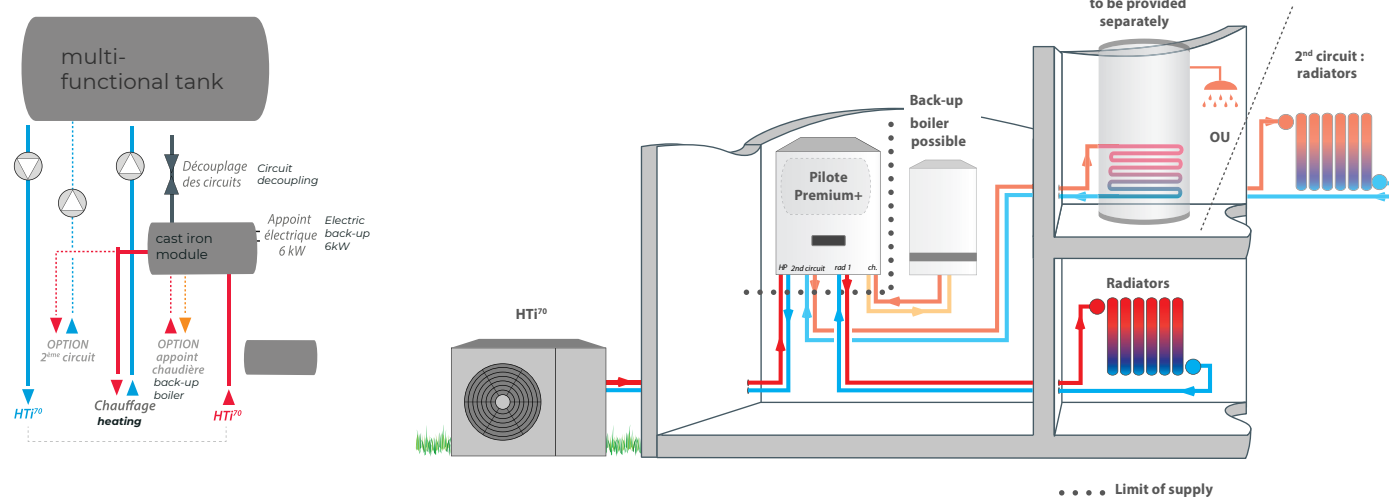


For a full installation, see the list of accessories opposite.

			Heat pump external unit									
Description			External defrosting cable for HTi <sup>70</sup>	2 core armoured cable, 20m	2 core armoured cable, 50m	40m DN25 durite hose for HTi <sup>70</sup> 6/8kW	40m DN30 durite hose for HTi <sup>70</sup> 11/14kW	4 DN25 tube connectors for HTi <sup>70</sup> 6/8kW	4 DN30 tube connectors for HTi <sup>70</sup> 11/14kW and HRC <sup>2</sup>	High-capacity 1 1/4 filtration kit for HTi <sup>70</sup> 6/8kW	12cm adjustable riser for HTi <sup>70</sup>	Ground fixing kit for HTi <sup>70</sup> 11/14kW
Part number			754101	753102	754103	754207	754208	754209	754210	711000	754600	754601
Catalogue page			78	78	78	78	78	78	78	78	78	78
Radiators	1 radiator circuit	Quantity										
	1 radiator circuit + 1 DHW circuit	Quantity										
	2 radiator circuits	Quantity										
	2 radiator circuits + 1 DHW circuit	Quantity										
	3 radiator circuits	Quantity										
Underfloor heating	1 underfloor heating circuit	Quantity										
	1 underfloor heating circuit + 1 DHW circuit	Quantity										
	2 underfloor heating circuits	Quantity										
	2 underfloor heating circuits + 1 DHW circuit	Quantity										
Radiators + Underfloor heating	1 radiator circuit + 1 underfloor heating circuit	Quantity										
	1 radiator circuit + 1 underfloor heating circuit + 1 DHW circuit	Quantity										

Key:  Incompatible  Recommended  Essential  Optional

## Schematic diagram <sup>(1)</sup>: HTi<sup>70</sup> PREMIUM+



<sup>(1)</sup> Refer to instructions for connection layout.

PREMIUM+ control unit interior unit				Additional circuits				Circuit control			Connectivity		Hot water tank DHW pre-heater			Hydraulic circuit accessories		
Manual reset 65°C underfloor heating temperature limiter	KD 10 - Backflow prevention kit	1" F/F check valve (only required for boiler back-up)	Adjustable tripod for Onix 40	2 <sup>nd</sup> circuit with identical temperature kit for PREMIUM+.	Thorix ÉVOLUTION 1C + Exterior sensor	Thorix ÉVOLUTION 2C + exterior sensor	2 <sup>nd</sup> Premium+ circuit kit by Thorix 1C	Room sensor with display	TH RNC/2 radio: non-chronoproportional wireless room thermostat	DHW / pool / cascade sensor	Thermo-Net Gateway (only with TH NRC/2)	Modbus kit - CET/Heat pump	PEJ 200	PEJ 270	BRS 500L / VS 750 to 3000L pre-heater	3/4" filter valve	1" filter valve	1 1/4" filter valve
710111	710014	710118	741003	753105	411002	411003	754211	751009	770001	710029	770002	730078	341111	341106	-	710124	710125	710132
78	78	78	78	78	78	78	78	78	78	78	78	78	92	92	93	78	78	78
				x1						x1								
				x1						x1								
				x1		x1				x1								
				x1		x1												
x1																		
					x1		x1			x1								
x2				x1														
x1				x1		x1				x1								
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x1				x1		x1				x1								

# HTi<sup>70</sup> - DS170 D

Air/Water

high temperature 70°C monobloc heat pump

Compact "All in 1" control unit, integrated heating and DHW.



ONIX 40L,  
only for HTi<sup>70</sup> 11  
and 14kW



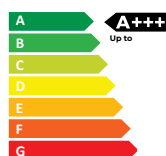
BY Cert. 6020118

PERFORMANCE  
RATING  
UP TO 4.8<sup>(1)</sup>

COMPRESSOR  
5 YEAR WARRANTY <sup>(2)</sup>

## Compatible with :

- ▶ HTi<sup>70</sup> 6kW single
- ▶ HTi<sup>70</sup> 8, 11, 14kW single and three



Heating  
(radiator or floor  
1 standard circuit + 1 optional)



Integrated DHW  
(170 L)



*"All-in-1 heating and DHW integrated into the unit for practicality, elegance and compactness."*

## Design

- Certified "Origine France Garantie<sup>(3)</sup>", French know-how combined with factories located within France.
- Autonomous, compact and complete hydro-electronic control unit for easy installation and optimised operation.
- The elegance of an "All in 1" solution.
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.
- Meets all integrated heating and DHW requirements.

## Usage

- Individual house, recent, new RE2020 and renovations.
- Perfectly suited to new-build projects with low-temperature heating (underfloor or ceiling heating, low-temperature radiators) or high-temperature radiators for renovations.
- Can be installed to replace an old boiler and does not require the replacement of existing high-temperature radiators.

## Performance

- High temperature up to 70°C using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- Inverter compressor for ultra-modulation of power, from 15 to 100%, to adjust power to requirements and outdoor conditions.
- Broad power range, HTi<sup>70</sup> 6 single-phase, HTi<sup>70</sup> 8, 11, 14kW single-phase or three-phase.
- Thermodynamic operation down to -20°C outside air temperature.

<sup>(1)</sup> Depending on the model

<sup>(2)</sup> Compressor guaranteed for 5 years subject to compliance with the warranty conditions set out in the T&Cs of the current catalog.

<sup>(3)</sup> Applies to HTi<sup>70</sup> 6 single-phase & 8 single-phase and three-phase, with Premium+ and DS170 D control units.

## Comfort & reliability

- Quiet, with a carefully engineered design.
- Scalable as required to cover several circuits.
- Remote control with connectivity (optional).
- Integrated 170 L DHW tank
- Integrated stepped 6kW electric back-up (2, 4 and 6kW), single or three-phase.
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator.

## Installation

- Complete Heat Pump + Control unit + Hydraulic connection kit including filters and 2 hoses (1.50m).
- Independent circuits - Extended service life.
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit, so you don't need to be a refrigeration engineer to install it.
- Carrying straps included.
- Supplied as standard with adjustable feet to adapt to different ground conditions on the HTi<sup>70</sup> 11 and 14kW.
- Condensate drainage provided by rear connection hole.
- Easy to maintain, everything can be accessed quickly.

## Environment

- Sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented intuis technology.

## Savings

- Eligible for financial assistance / EDF grant.
- High COP for a lower bills.
- Operates with or without electric back-up depending on the installation configuration.





## Features

Heat pump		HTi <sup>70</sup> 6 single-phase	HTi <sup>70</sup> 8 single-phase	HTi <sup>70</sup> 8 three-phase	HTi <sup>70</sup> 11 single	HTi <sup>70</sup> 11 three	HTi <sup>70</sup> 14 single	HTi <sup>70</sup> 14 three
Energy class 35°C/55°C - SCOP		A+++ / A++	A+++ / A+++	A+++ / A+++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency 35°C/55°C - SEER (η <sub>s</sub> )	%	187%/133%	190%/154%	190%/154%	186%/144%	185%/144%	175%/143%	175%/143%
Maximum heat output at -7°C/35°C	kW	6	8	8	11	11	14	14
Maximum heat output at -7°C/65°C	kW	5,5	6,85	6,85	11	11	13	13
Nominal heat output at +7°C/35°C (EN14511)	kW	4,06	5,72	5,89	8,95	8,95	10,76	10,76
COP at +7°C/35°C (EN14511)	-	4,59	4,85	4,71	4,85	4,85	4,64	4,64
Nominal sound pressure level (at 5m directionality 4)	dB(A)	36,8	37,5	37,5	36,3	36,3	39,4	39,4
Power level (ERP +7°C/55°C)	dB(A)	55,8	57,6	57,6	51,2	51,2	58,4	58,4
Outside air range	°C	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40
Power supply	V	230 single-phase	230 single-phase	400 three	230 single-phase	400 three	230 single-phase	400 three
Protective circuit breaker	A	16 single	16 single	10 four-pole	32 single	16 four-pole	32 single	16 four-pole
Circuit breaker curve	-	D	D	D	D	D	D	D
Maximum electrical power	kVA	3,6	3,6	3,6	7	7	7	7
Minimum cross-section of power cable	mm <sup>2</sup>	3G 2.5	3G 2.5	5G 2.5	3G 6	5G 2.5	3G 6	5G 2.5
Dimensions (H x W x D)	mm	820 x 1035 x 450	1070 x 1035 x 450	1070 x 1035 x 450	1028 x 1235 x 490	1028 x 1235 x 490	1028 x 1235 x 490	1028 x 1235 x 490
Weight without water	kg	81	94	108	136	146	142	150
Nominal water flow rate	L/h	1000	1350	1350	1550	1550	2000	2000
Refrigerant	kg	0,42	0,6	0,6	0,9	0,9	0,95	0,95
Hydraulic connection	mm	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male



## Features

Unit		DS170 D
Minimum cross-section of power cable	mm <sup>2</sup>	3G 6 (single) / 5G 2.5 (three)
Power protection circuit breaker	A	32 (single) / 16 (four-pole)
Circuit breaker curve	-	C
Power supply	V	230 (single) / 400 (three)
Multi-purpose cylinder	L	40 (only applies to HTi <sup>70</sup> 11 and 14)
Unit dimensions (H x W x D) / Unit empty weight	mm / kg	1725 x 571 x 542 / 80
Hydraulic connections	mm	20/27 male
Boiler connection	-	✗
Electric connection (standard)	kW	0/2/4/6kW (single or three)
Circuit separation	-	✓

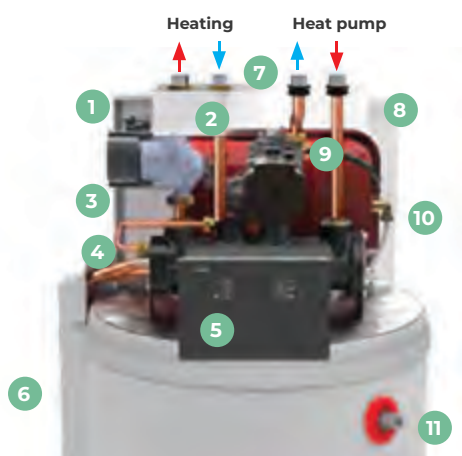


Diagram for DS170 D unit

- 1 Heating circulator
- 2 3-way heating / DHW valve
- 3 Separator
- 4 20-year warranty on cast-iron module
- 5 Control panel
- 6 Enamelled steel 170 L DHW tank
- 7 Automatic air vent
- 8 8L expansion tank
- 9 Heat pump/DHW circulator
- 10 Stepped 6kW electric back-up
- 11 DHW

# HTi<sup>70</sup> - DS170 D - ACCESSORIES

## HTi<sup>70</sup> 6, 8, 11 & 14kW heat pump systems

Product name	Energy class & SEER 35°/55°C	Heating capacity Maximum at -7°/65°C	Part number
<b>DS170 D Unit</b>			
HTi <sup>70</sup> 6kW single DS170 D	A+++/A++ 187%/133%	5,5	155004
HTi <sup>70</sup> 8kW single DS170 D	A+++/A+++ 190%/154%	6,85	155014
HTi <sup>70</sup> 8kW three DS170 D	A+++/A+++ 190%/154%	6,85	155054
HTi <sup>70</sup> 11kW single DS170 D / 40	A+++/A++ 186%/144%	11	155024
HTi <sup>70</sup> 11kW three DS170 D / 40	A+++/A++ 185%/144%	11	155064
HTi <sup>70</sup> 14kW single DS170 D / 40	A+++/A++ 175%/143%	13	155034
HTi <sup>70</sup> 14kW three DS170 D / 40	A+++/A++ 175%/143%	13	155074

NB: sets are supplied with an exterior sensor as standard. This allows an extra 2% on the SEER value.

PAC + control unit + hydraulic kit  
+ Onix 40L included (11 and 14kW  
only)  
Part number 155004



	Heat pump external unit							
Description	External defrosting cable for HTT <sup>70</sup> .	2 core armoured cable, 20m	2 core armoured cable, 50m	40m DN25 durite hose for HTT <sup>70</sup> 6/8kW	40m DN30 durite hose for HTT <sup>70</sup> 11/14kW	4 DN25 tube connectors for HTT <sup>70</sup> 6/8kW	4 DN30 tube connectors for HTT <sup>70</sup> 11/14kW and HRC <sup>®</sup>	High-capacity 1 1/4 filtration kit for HTT <sup>70</sup> 6/8kW
Part number	754101	753102	754103	754207	754208	754209	754210	711000
Catalogue page	78	78	78	78	78	78	78	78

For a full installation, see the list of accessories opposite.

Radiators	1 radiator circuit + 1 DHW circuit	Quantity							
	2 radiator circuits + 1 DHW circuit	Quantity							
Underfloor heating	1 underfloor heating circuit + 1 DHW circuit	Quantity							
	2 underfloor heating circuits + 1 DHW circuit	Quantity							
Radiators + Underfloor heating	1 radiator circuit + 1 underfloor heating circuit + 1 DHW circuit	Quantity							

Key:  Incompatible  Recommended  Essential  Optional

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# HTi<sup>70</sup> - GAS HYBRID

Air/Water

high temperature 80°C monobloc heat pump

Hybrid gas control unit, mixed energy for heating and remote DHW.



**PERFORMANCE  
RATING  
UP TO 4.8<sup>(1)</sup>**

**COMPRESSOR  
5 YEAR WARRANTY<sup>(2)</sup>**

*"Combines thermodynamics with a gas condensing back-up incorporated into the control unit, perfect for extreme temperatures or isolated locations in the countryside or mountains."*

## Design

- Designed and manufactured in France. French know-how combined with factories located within France.
- Fits perfectly with an existing installation and uses an 18 kW condensing gas boiler as a back-up.
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.
- Meets all heating and remote DHW requirements.
- Optimised DHW management with a choice of volume, choice of tank location and water heated by the heat pump.

## Usage

- Individual, older, renovation project.
- Can be installed to replace an old boiler and does not require the replacement of existing high-temperature radiators.
- Suitable for phased renovation of poorly insulated homes:
  - Before insulation work > boiler used if requirements exceed the capacity of the heat pump on the coldest days.
  - After the work > reduced heat loss increases the heat pump's operational share.
- The system adapts to the requirements, regardless of the order in which the work is carried out.

## Performance

- High temperature up to 70°C using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- High Temperature 80°C with boiler with no minimum outdoor temperature limit, within the limits of the power available.
- Guaranteed thermal comfort all winter long, thanks to the modulating gas condensing back-up.
- Dual modulation:
  - Heat pump: inverter compressor for ultra-modulation of power, from 15 to 100%, to adjust power to requirements and outdoor conditions.
  - Boiler: power modulation, from 19 to 100%, to match the needs of the heat pump via ModBus.
- Broad power range, HTi<sup>70</sup> 6 single-phase, HTi<sup>70</sup> 8, 11, 14kW single-phase and three-phase.
- Thermodynamic operation down to -20°C outside air temperature. The system selects the most efficient energy based on external conditions.

<sup>(1)</sup> Depending on the model

<sup>(2)</sup> Compressor guaranteed for 5 years subject to compliance with the warranty conditions set out in the T&Cs of the current catalog.

## Compatible with :

- ▶ HTi<sup>70</sup> 6kW single
- ▶ HTi<sup>70</sup> 8, 11, 14kW single and three



## 3 operating modes:

- ▶ Heat pump alone
- ▶ Hybrid heat pump / Gas backup
- ▶ Boiler only



heating  
(radiators or floor)



Remote DHW  
(PEJ and VS pre-heater)



## Comfort & reliability

- Quiet, with a carefully engineered design.
- Scalable as required to cover several circuits.
- Remote control with connectivity (optional).
- Integrated 18 kW gas boiler backup.
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator.
- Each system (heat pump and gas) can operate independently.
- Peak/off-peak operation and EJP scheme.

## Installation

- Complete Heat Pump + Control unit + Hydraulic connection kit including filters and 2 hoses (1.50m).
- Independent circuits - Extended service life.
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit, so you don't need to be a refrigeration engineer to install it.
- Carrying straps included.
- Supplied as standard with adjustable feet to adapt to different ground conditions on the HTi<sup>70</sup> 11 and 14kW.
- Condensate drainage provided by rear connection hole (exterior unit).
- Easy to maintain, everything can be accessed quickly.

## Environment

- Sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented intuis technology.

## Savings

- Eligible for financial assistance / EDF grant.
- High COP for a lower bills. No need to switch to three-phase and increase your electricity bill for high power requirements. Minimum gas subscription.





## Features

Heat pump		HTi <sup>70</sup> 6 single-phase	HTi <sup>70</sup> 8 single-phase	HTi <sup>70</sup> 8 three-phase	HTi <sup>70</sup> 11 single	HTi <sup>70</sup> 11 three	HTi <sup>70</sup> 14 single	HTi <sup>70</sup> 14 three
Energy class 35°C/55°C - SCOP		A+++ / A++	A+++ / A+++	A+++ / A+++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency 35°C/55°C - SEER (η <sub>s</sub> )	%	190%/137%	192%/155%	191%/153%	186%/144%	186%/144%	177%/144%	177%/144%
Maximum heat output at -7°C/35°C	kW	6	8	8	11	11	14	14
Maximum heat output at -7°C/65°C	kW	5,5	6,85	6,85	11	11	13	13
Nominal heat output at +7°C/35°C (EN14511)	kW	4,06	5,72	5,89	8,95	8,95	10,76	10,76
COP at +7°C/35°C (EN14511)	-	4,59	4,85	4,71	4,85	4,85	4,64	4,64
Nominal sound pressure level at 5m directionality 4)	dB(A)	36,8	37,5	37,5	36,3	36,3	39,4	39,4
Power level (ERP +7°C/55°C)	dB(A)	55,8	57,6	57,6	51,2	51,2	58,4	58,4
Outside air range	°C	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40
Power supply	V	230 single-phase	230 single-phase	400 three	230 single-phase	400 three	230 single-phase	400 three
Protective circuit breaker	A	16 single	16 single	10 four-pole	32 single	16 four-pole	32 single	16 four-pole
Circuit breaker curve	-	D	D	D	D	D	D	D
Maximum electrical power	kVA	3,6	3,6	3,6	7	7	7	7
Minimum cross-section of power cable	mm <sup>2</sup>	3G 2.5	3G 2.5	5G 2.5	3G 6	5G 2.5	3G 6	5G 2.5
Dimensions (H x W x D)	mm	820 x 1035 x 450	1070 x 1035 x 450	1070 x 1035 x 450	1028 x 1235 x 490	1028 x 1235 x 490	1028 x 1235 x 490	1028 x 1235 x 490
Weight without water	kg	81	94	108	136	146	142	150
Nominal water flow rate	L/h	1000	1350	1350	1550	1550	2000	2000
Refrigerant	kg	0,42	0,6	0,6	0,9	0,9	0,95	0,95
Hydraulic connection	mm	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male



Unit		GAS HYBRID
Minimum cross-section of module power cable	mm <sup>2</sup>	3G 1.5 (single)
Minimum cross-section of boiler power cable	mm <sup>2</sup>	3G 1.5 (single)
Module power protection circuit breaker	A	2 (single)
Module circuit breaker curve	-	C
Boiler power protection circuit breaker	A	10 (single)
Boiler circuit breaker curve	-	C
Power supply	V	230 (single)
Interior unit dimensions (H x W x D)	mm	1063 x 400 x 333
Empty weight of module / boiler	kg	17,2 / 32,5
Hydraulic connections	mm	26 / 34 male
Boiler connection	-	✓
Circuit separation	-	✓
Back-up	-	Natural gas / Propane / Biomethane
Gas connection	-	3/4" male
Flue connection	mm	60 / 100

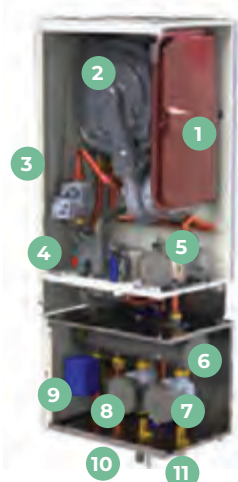


Diagram of a GAS HYBRID control unit

- 1 8L expansion tank
- 2 Burner
- 3 Gas block
- 4 Valve
- 5 Gas boiler circulator
- 6 Manifold
- 7 Heating / DHW return circulator
- 8 Heat pump circulator
- 9 3-way heating / DHW valve
- 10 Condensate drain
- 11 Exhaust valve

# HTi<sup>70</sup> - GAS HYBRID - ACCESSORIES

## HTi<sup>70</sup> 6, 8, 11 & 14kW heat pump systems

Product name	Energy class & SEER 35/55°C	Heating capacity Maximum at -7°/65°C	Part number
<b>GAS HYBRID UNIT</b>			
HTi <sup>70</sup> 6kW single Gas Hybrid	A <sup>+++</sup> /A <sup>++</sup> 190%/137%	5,5	155008
HTi <sup>70</sup> 8kW single Gas Hybrid	A <sup>+++</sup> /A <sup>+++</sup> 192%/155%	6,85	155018
HTi <sup>70</sup> 8kW three Gas Hybrid	A <sup>+++</sup> /A <sup>+++</sup> 191%/153%	6,85	155058
HTi <sup>70</sup> 11kW single Gas Hybrid	A <sup>+++</sup> /A <sup>++</sup> 186%/144%	11	155028
HTi <sup>70</sup> 11kW three Gas Hybrid	A <sup>+++</sup> /A <sup>++</sup> 186%/144%	11	155068
HTi <sup>70</sup> 14kW single Gas Hybrid	A <sup>+++</sup> /A <sup>++</sup> 177%/144%	13	155038
HTi <sup>70</sup> 14kW three Gas Hybrid	A <sup>+++</sup> /A <sup>++</sup> 177%/144%	13	155078

NB: sets are supplied with an exterior sensor as standard. This allows an extra 2% on the SEER value.

PAC + control unit + hydraulic kit  
included *Part number 155008*



For a full installation, see the list of accessories opposite.

Heat pump external unit								
Description	External defrosting cable for HTi <sup>70</sup>	2 core armoured cable, 20m	2 core armoured cable, 50m	40m DN25 durite hose for HTi <sup>70</sup> 6/8kW	40m DN30 durite hose for HTi <sup>70</sup> 11/14kW	4 DN25 tube connectors for HTi <sup>70</sup> 6/8kW	4 DN30 tube connectors for HTi <sup>70</sup> 11/14kW	Filtration kit 1" 1/4 large capacity for HTi <sup>70</sup> 6/8kW
Part number	754101	753102	754103	754207	754208	754209	754210	711000
Catalogue page	78	78	78	78	78	78	78	78

<b>Radiators</b>	1 radiator circuit	Quantity							
	1 radiator circuit + 1 DHW circuit	Quantity							
	2 radiator circuits	Quantity							
	2 radiator circuits + 1 DHW circuit	Quantity							
<b>Underfloor heating</b>	1 underfloor heating circuit	Quantity							
	1 underfloor heating circuit + 1 DHW circuit	Quantity							
	2 underfloor heating circuits	Quantity							
	2 underfloor heating circuits + 1 DHW circuit	Quantity							
<b>Radiators + Underfloor heating</b>	1 radiator circuit + 1 underfloor heating circuit	Quantity							
	1 radiator circuit + 1 underfloor heating circuit + 1 DHW circuit	Quantity							

Key:  Incompatible  Recommended  Essential  Optional

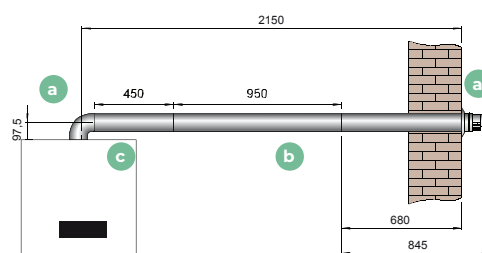
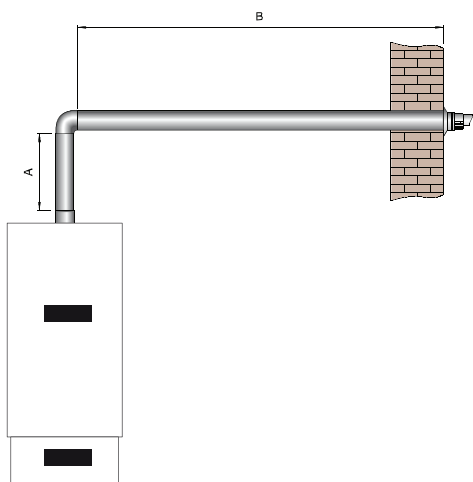
51

# HTi<sup>70</sup> - GAS HYBRID

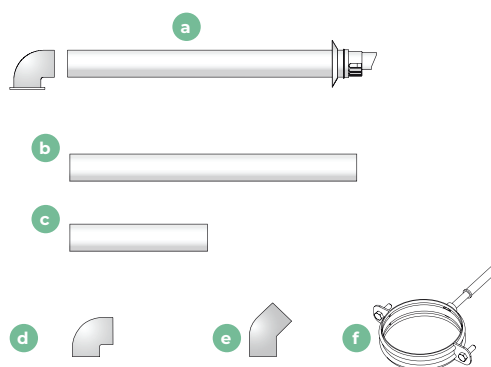
Exhaust options for every configuration and every need.

## HORIZONTAL FLUE CONFIGURATION (C 13)

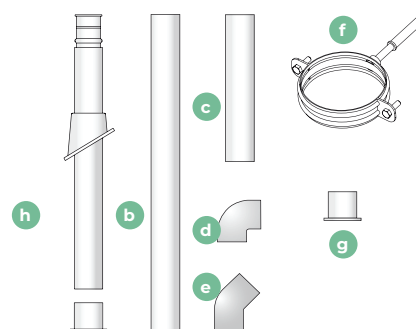
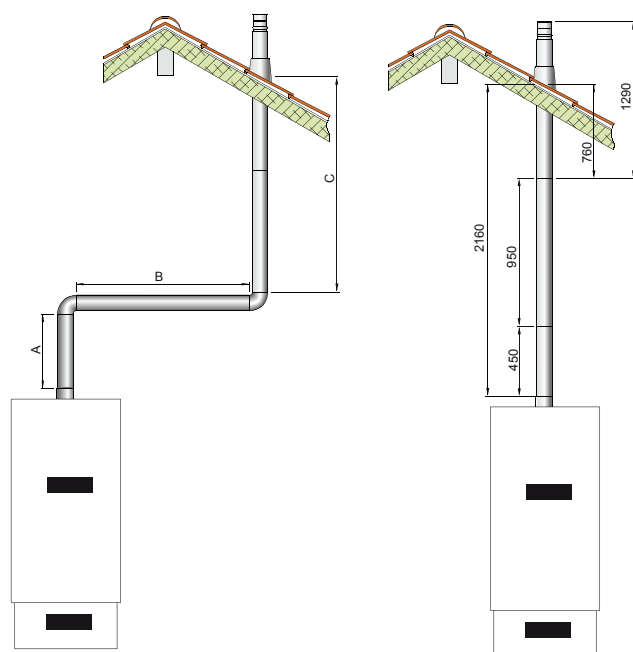
**Maximum length A + B Ø60 / 100 = 14m linear**  
(allow 1 linear metre per 90° elbow or 2 45° elbows)



Product name	Part number	Letter
1m Ø60/100 horizontal terminal + 90° flanged elbow	710400	a
1m extension Ø60/100 (useful length: 950mm)	710070	b
0.5cm extension Ø60/100 (useful length: 450mm)	710071	c
1 90° elbow Ø60/100	710072	d
2 45° elbows Ø60/100	710073	e
Clamp Ø60/100	710095	f



## VERTICAL FLUE CONFIGURATION (C 33)

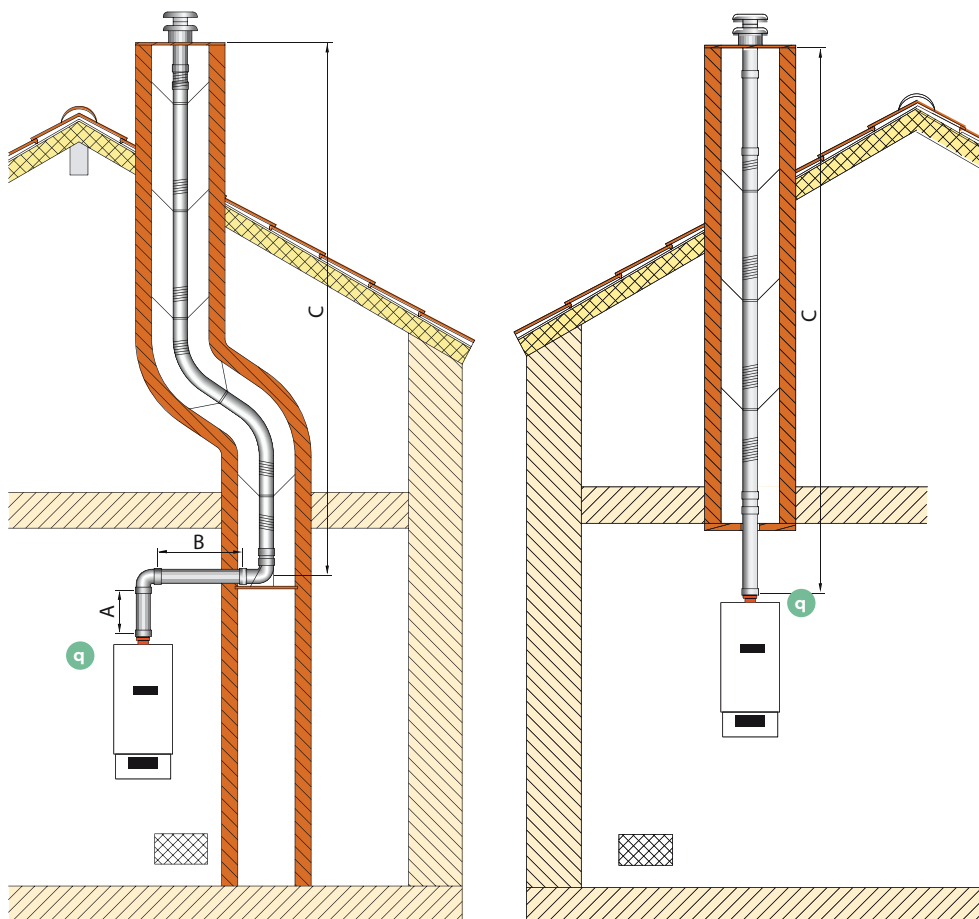


	Product name	Part number	Letter
Ø60/100	1m Ø60/100 vertical terminal + seal + sealing plate + flange adapter	710402	h
	1m extension Ø60/100 (useful length: 950mm)	710070	b
	0.5mm extension Ø60/100 (useful length: 450mm)	710071	c
	1 90° elbow Ø60/100	710072	d
	2 45° elbows Ø60/100	710073	e
	Clamp Ø60/100	710095	f
	Ø60/100 flange adapter	710401	g
Ø80/125	Available as standard from your distributor. Ask for the special condensing version with CSTB technical approval.		



## CHIMNEY CONFIGURATION (B23P)

**Maximum length A + B + C  $\varnothing 80 = 30\text{m}$  linear**  
(allow 1 linear metre per 90° elbow or 2 45° elbows)



Product name	Part number	Letter
Adapter kit $\varnothing 60/100$ to $\varnothing 80/125$	710404	q

Parts other than the adapter kit are available from your distributor.  
Ask for the special condensing version with CSTB technical approval.



# HRC<sup>70</sup>

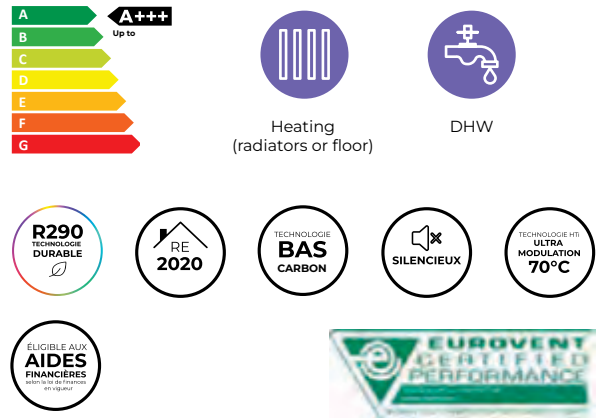
Air/Water Monobloc heat pump high temperature 70°C with modulation over 3 power levels and R290 (HFC free)



**PERFORMANCE RATING UP TO 4.6<sup>(1)</sup>**

**COMPRESSOR 5 YEAR WARRANTY<sup>(2)</sup>**

- Heats the building comfortably throughout the winter, at as low as -20°C external temperature, without the need for a back-up<sup>(3)</sup>.
- From 17 to 40 kW and up to 96kW in cascade.



*"HRC<sup>70</sup> Intuis high temperature 70°C heat pumps, the ultimate high-end solution with no compromises."*

## Design

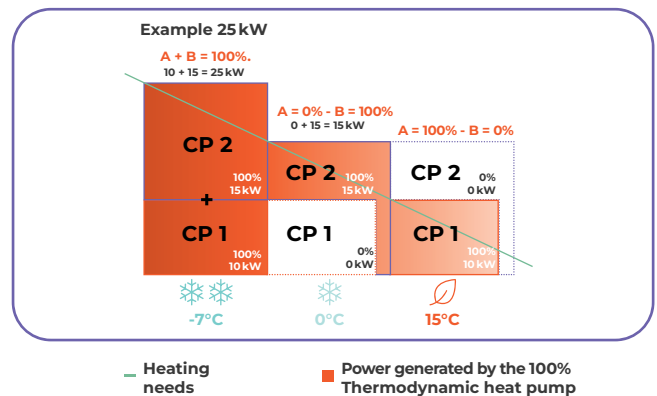
- Designed, developed and manufactured in France, French know-how combined with factories located within France.
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.
- Meets all your heating and DHW requirements.
- Single-phase and three-phase depending on the model.

## Usage

- For large houses, new-build RE 2020 or RE 2020/25 collective housing, the tertiary sector and industrial applications.
- For both new builds and renovations.
- Compatible with all high-, medium- and low-temperature heaters.
- Can be installed to replace an old boiler and does not require the replacement of existing high-temperature radiators.

## Performance

- High temperature up to 70°C on even the coldest days, using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- High compression ratio for 3 power levels (2 power levels for the 20kW).
- Modular power: innovative combination of 2 high-performance compressors to always match supply to demand.
- Wide power range from 17 to 40 kW.
- Cascade installation up to 96kW.
- Exceptional COP for up to 80% savings on heating.
- Thermodynamic operation down to -20°C outside air temperature.



- ❄ In the mid-season, the HRC<sup>70</sup> adjusts its power and temperature to the optimum level.
- ❄ In the middle of winter, the HRC<sup>70</sup> delivers full power at a high temperature to ensure comfort.

❄ in extreme cold



**CP 1 + CP 2 = 25 kW**  
The 2 compressors operate at maximum heating power

❄ at the onset of cold weather



**CP 2 = 15 kW**  
The large compressor takes over to increase heating power

❄ mid-season



**CP 1 = 10 kW**  
Only the small compressor is running

<sup>(1)</sup> Depending on the model

<sup>(2)</sup> Compressor guaranteed for 5 years subject to compliance with the warranty conditions set out in the T&Cs of the current catalog.

<sup>(3)</sup> Depending on the size

## Environment

- Factory-sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented intuis technology.

## Installation

- Complete Heat Pump + Control unit + Hydraulic connection kit including filters and 2 hoses (1.50m).
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit, so you don't need to be a refrigeration engineer to install it.

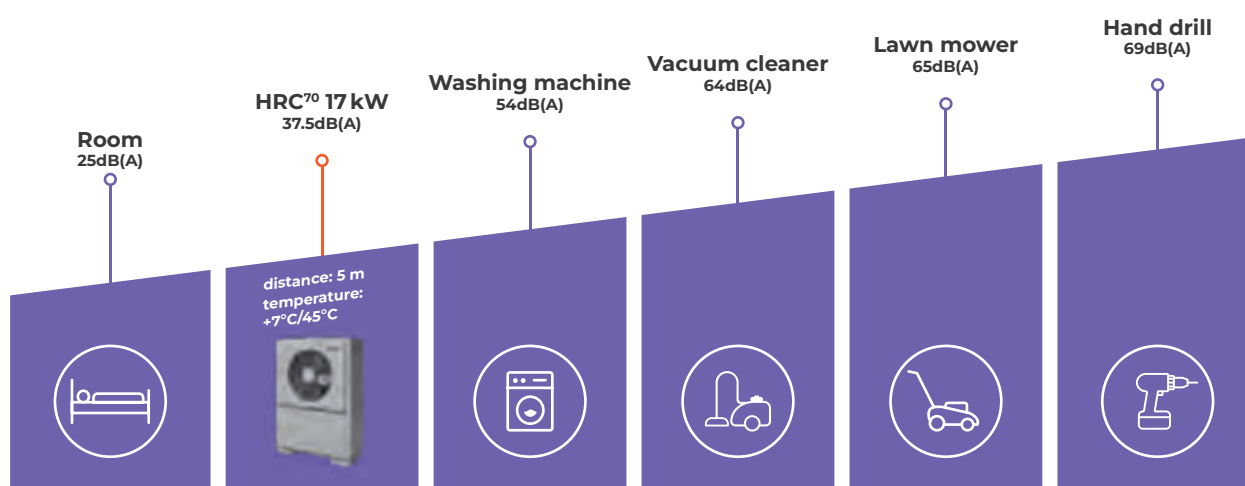
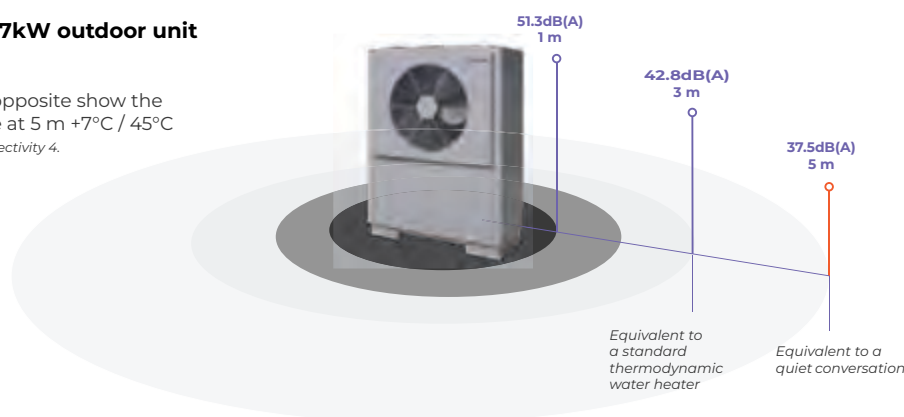
- Condensate drainage provided by rear connection hole.
- Simple, intuitive electrical connection.
- Integration solution for every building.
- Easy maintenance, quick access to components.

## Savings

- Eligible for financial assistance / EDF grant.
- High COP for a lower bills.
- Operates with or without back-up (gas, electricity, etc.) depending on the installation configuration.

## Noise output of 17kW outdoor unit

The diagrams opposite show the sound pressure at 5 m +7°C / 45°C  
Measurements in directivity 4.

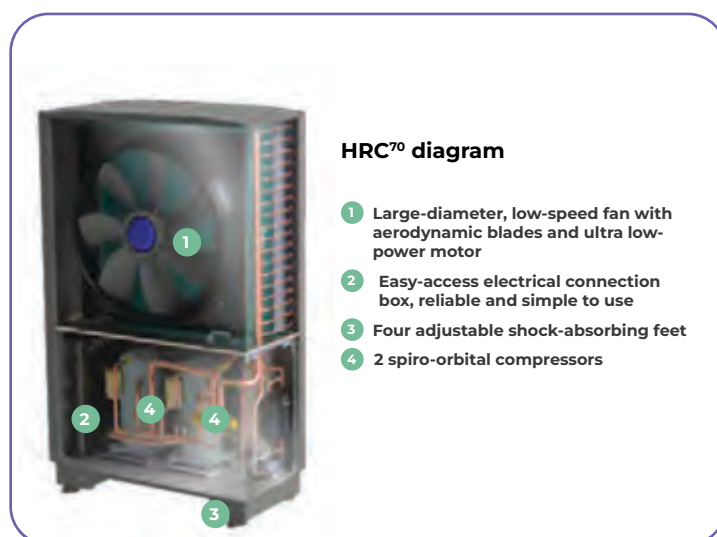


## Comfort & reliability

- Quiet, with a carefully engineered design.
- Remote control with connectivity.
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator, high-efficiency scroll compressor and reliable electrical and electronic components.

## Technology for silence

- 2 spiro-orbital compressors compress in 2 dimensions, mounted on anti-vibration mountings for quieter operation.
- Noise-reducing shaped blades for improved fan airflow performance.
- 4 adjustable shock-absorbing feet under the base.
- Soundproofed compressor compartment.



# HRC<sup>70</sup> - PREMIUM+

High-temperature 70°C monobloc air/water heat pump, multifunctional control unit adaptable to all configurations, remote heating and DHW.



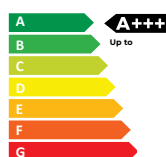
PERFORMANCE  
RATING  
UP TO 4.6<sup>(1)</sup>

COMPRESSOR  
5 YEAR WARRANTY <sup>(2)</sup>

*"Ideal for renovation with many hydraulic connection options."*

## Compatible with :

- ▶ HRC<sup>70</sup> 17kW single and three
- ▶ HRC<sup>70</sup> 20 & 25kW three



Heating  
(radiators or floor)



Remote DHW  
(PEJ pre-heater)



\* With option to do both.

Optional kit PN 753105, to create a 2<sup>nd</sup> circuit at the same temperature and manage heating on radiators and DHW.

## Design

- Designed, developed and manufactured in France, French know-how combined with factories located within France.
- Fits perfectly with an existing installation and can be connected to an existing boiler as a back-up.
- Numerous hydraulic connection options to manage several circuits.
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.
- Meets all integrated heating and DHW requirements.

## Usage

- For large houses, old houses, renovation projects as well as tertiary and industrial applications.
- Can be installed to replace or alongside an old boiler and does not require the replacement of existing high-temperature radiators.

## Performance

- High temperature up to 70°C on even the coldest days, using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- High compression ratio for 3 power levels (2 power levels for the 20kW).
- Modular power: innovative combination of 2 high-performance compressors to always match supply to demand.
- Power range from 17kW single and three-phase and up to 25kW three-phase.
- Performance rating up to 4.6<sup>(1)</sup>.
- Exceptional COP for up to 80% savings on heating.
- Thermodynamic operation down to -20°C outside air temperature.

<sup>(1)</sup> Depending on the model

<sup>(2)</sup> Compressor guaranteed for 5 years subject to compliance with the warranty conditions set out in the T&Cs of the current catalog.

## Comfort & reliability

- Quiet, with a carefully engineered design.
- Scalable as required to cover several circuits.
- Remote control with connectivity (optional).
- Integrated stepped 6kW electric back-up (2, 4 and 6kW), single or three-phase.
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator, high-efficiency scroll compressor and reliable electrical and electronic components.

## Installation

- Complete Heat Pump + Control unit + Hydraulic connection kit including filters and 2 hoses (1.50m).
- Independent circuits - Extended service life.
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit: so you don't need to be a refrigeration engineer to install it.
- Condensate drainage provided by rear connection hole.
- Simple, intuitive electrical connection.
- Integration solution for every building.
- Easy maintenance, quick access to components.

## Environment

- Sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented intuis technology.

## Savings

- Eligible for financial assistance / EDF grant.
- High COP for a lower bills.
- Operates with or without back-up boiler (gas, electricity, etc.) depending on the installation configuration.





## Features

Heat pump		HRC <sup>70</sup> 17/m	HRC <sup>70</sup> 17/t	HRC <sup>70</sup> 20/t	HRC <sup>70</sup> 25/t
Energy class 35°C/55°C - SCOP		A++/A++	A++/A++	A++/A++	A++/A++
Seasonal energy efficiency 35°C/55°C - SEER (η <sub>s</sub> )	%	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
COP at +7°C/35°C (EN14511)	-	4,4	4,9	4,6	4,6
Nominal sound pressure level (at 5 m directionality 4)	dB(A)	36	36	40	40
Power level (ERP +7°C/55°C)	dB(A)	60	60	61	61
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	A	40 single	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 stepped constant output			
Power stages	-	3	3	2	3
Soft starter	-	yes	no	no	yes
Minimum cross-section of power cable	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>
Dimensions (H x W x D)	mm	1713 x 1035 x 561	1713 x 1035 x 561	1713 x 1035 x 561	1713 x 1035 x 561
Weight without water	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



Unit		PREMIUM+
Minimum cross-section of power cable	mm <sup>2</sup>	5G 2.5 (three) / 3G 6 (single)
Power protection circuit breaker	A	16 (four-pole) / 32 (single)
Circuit breaker curve	-	C
Power supply	V	400V (three-phase) as standard, adaptable 230 (single-phase)
Multi-purpose cylinder	L	38 (integrated in the control unit)
Unit dimensions (H x W x D) / Unit empty weight	mm / kg	789 x 590 x 420 / 47
Hydraulic connections	mm	26/34 male
Boiler connection	-	✓
Electric connection (standard)	kW	0/2/4/6kW (single or three)
Circuit separation	-	✓



Diagram of PREMIUM+ unit

- 1 Heating circulator
- 2 38L insulated multifunction tank
- 3 Safety valve
- 4 Pressure sensor
- 5 Cast iron hydraulic distribution module
- 6 Air vent
- 7 Heat pump circulator
- 8 Stepped 6kW electric back-up

# HRC<sup>70</sup> - PREMIUM+ - ACCESSOIRES

## HRC<sup>70</sup> - domestic installations from 17 to 25kW

Product name	Energy class & SEER 35°/55°C	Heating capacity Maximum at -7°/65°C	Part number
<b>HRC<sup>70</sup> / PREMIUM</b>			
HRC <sup>70</sup> 17kW /3 single Premium+*	A <sup>++</sup> /A <sup>++</sup> 151%/125%	38L integrated	151431
HRC <sup>70</sup> 17kW /3 three Premium+*	A <sup>++</sup> /A <sup>++</sup> 165%/125%	38L integrated	151436
HRC <sup>70</sup> 20kW /3 three Premium+*	A <sup>++</sup> /A <sup>++</sup> 164%/129%	38L integrated	151446
HRC <sup>70</sup> 25kW /3 three Premium+*	A <sup>++</sup> /A <sup>++</sup> 150%/119%	38L integrated	151451

\* The unit is equipped for hydraulic connection to a boiler. The unit ensures the thermostatic control of the boiler by means of a wired connection that is not supplied.


NB: Sets are supplied with an exterior sensor as standard. This allows an extra 1.5% on the SEER value.

Heat pump + control unit + hydraulic kit included *Part number 151431*



For a full installation, see the list of accessories opposite.

included? or number 15151.

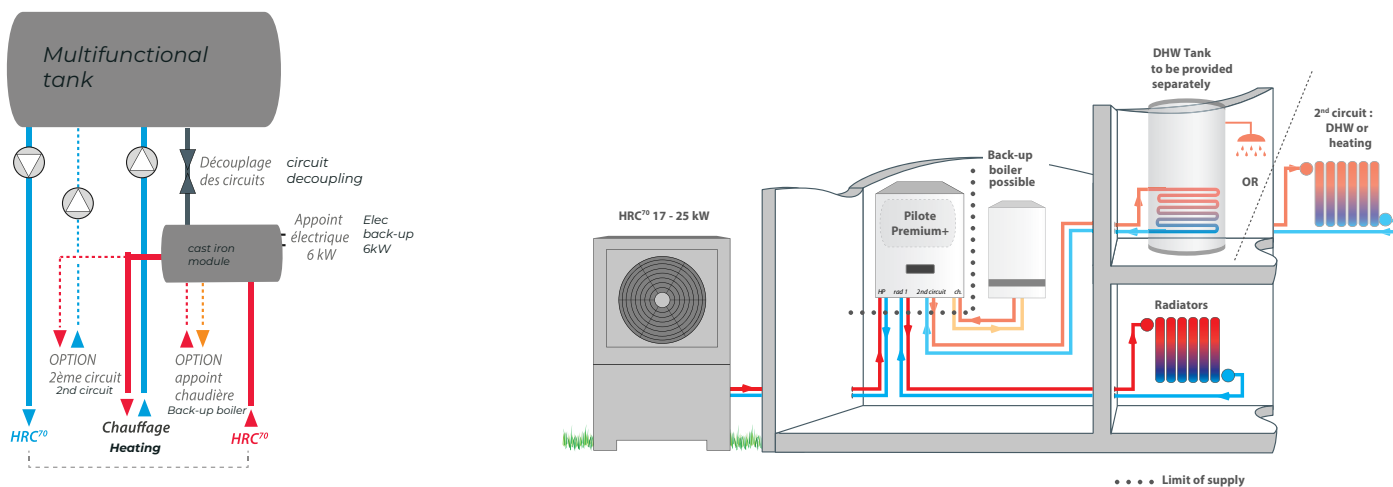


For a full installation, see the list of accessories opposite.

			Heat pump external unit					PREMIUM+ control unit interior unit			
Description			External defrosting cable for HRC <sup>70</sup> .	2 core armoured cable, 20m	2 core armoured cable, 50m	40m DN30 durite hose for HRC <sup>70</sup> .	4 DN30 tube connectors for HT17° 11/14kW and HRC <sup>70</sup> .	Manual reset 65°C underfloor heating temperature limiter	KD 10 - Backflow prevention kit	1" F/F check valve (only required for boiler back-up)	Adjustable tripod for Onix 40
Part number			751004	753102	754103	754208	754210	710111	710014	710118	741003
Catalogue page			78	78	78	78	78	78	78	78	78
Radiators	1 radiator circuit	Quantity									
	1 radiator circuit + 1 DHW circuit	Quantity									
	2 radiator circuits	Quantity									
	2 radiator circuits + 1 DHW circuit	Quantity									
	3 radiator circuits	Quantity									
Underfloor heating	1 underfloor heating circuit	Quantity						x1			
	1 underfloor heating circuit + 1 DHW circuit	Quantity									
	2 underfloor heating circuits	Quantity						x2			
	2 underfloor heating circuits + 1 DHW circuit	Quantity						x1			
Radiators + Underfloor heating	1 radiator circuit + 1 underfloor heating circuit	Quantity									
	1 radiator circuit + 1 underfloor heating circuit + 1 DHW circuit	Quantity						x1			

Key:  Incompatible  Recommended  Essential  Optional

## Schematic diagram <sup>(1)</sup>: HRC<sup>70</sup> - PREMIUM+



<sup>(1)</sup> Refer to instructions for connection layout.

Additional circuits				Circuit control			Connectivity		Hot water tank/DHW pre-heater			Hydraulic circuit accessories		
2 <sup>nd</sup> circuit with identical temperature kit for Premium+.	Thorix ÉVOLUTION IC + Exterior sensor	Thorix ÉVOLUTION 2C + exterior sensor	2 <sup>nd</sup> Premium+ circuit kit by Thorix IC	Room sensor with display	TH RNC/2 radio: non-chronoproportional wireless room thermostat	DHW / pool / cascade sensor	Thermo-Net Gateway (only with TH RNC/2)	Modbus kit - CET/Heat pump	PEJ 200	PEJ 270	BRS 500L / VS 750 to 3000L pre-heater	3/4" filter valve	1" filter valve	1 1/4" filter valve
753105	411002	411003	754211	751009	770001	710029	770002	730078	341111	341106	-	710124	710125	710132
78	78	78	78	78	78	78	78	78	92	92	93	78	78	78
x1						x1								
x1														
x1		x1				x1								
x1		x1												
	x1		x1			x1								
x1														
x1		x1				x1								
	x1		x1											
x1		x1				x1								

# HRC<sup>70</sup> - DS170 D

Air/Water

high temperature 70°C monobloc heat pump

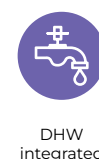
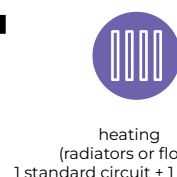
Compact "All in 1" control unit, integrated heating and DHW.



*"All-in-1 heating and DHW integrated into the unit for practicality, elegance and compactness."*

## Compatible with :

- ▶ HRC<sup>70</sup> 17kW single and three
- ▶ HRC<sup>70</sup> 20 & 25kW three



## Design

- Designed, developed and manufactured in France, French know-how combined with factories located within France.
- Autonomous, compact and complete hydro-electronic control unit for easy installation and optimised operation.
- The elegance of an "All in 1" solution.
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.
- Meets all integrated heating and DHW requirements.

## Usage

- For large houses, new houses, RE2020 new builds, renovation as well as tertiary and industrial applications.
- Perfectly suited to new-build projects with low-temperature heating (underfloor or ceiling heating, low-temperature radiators) or high-temperature radiators for renovations.
- Can be installed to replace an old boiler and does not require the replacement of existing high-temperature radiators.

## Performance

- High temperature up to 70°C on even the coldest days, using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- High compression ratio for 3 power levels (2 power levels for the 20kW).
- Modular power: innovative combination of 2 high-performance compressors to always match supply to demand.
- Power range from 17kW single and three-phase and up to 25kW three-phase.
- Performance rating up to 4.6<sup>(1)</sup>.
- Exceptional COP for up to 80% savings on heating.
- Thermodynamic operation down to -20°C outside air temperature.

<sup>(1)</sup> Depending on the model

<sup>(2)</sup> Compressor guaranteed for 5 years subject to compliance with the warranty conditions set out in the T&Cs of the current catalog.

## Comfort & reliability

- Quiet, with a carefully engineered design.
- Scalable as required to cover several circuits.
- Remote control with connectivity (optional).
- Integrated stepped 6kW electric back-up (2, 4 and 6kW), single or three-phase.
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator, high-efficiency scroll compressor and reliable electrical and electronic components.

## Installation

- Complete Heat Pump + Control unit + Hydraulic connection kit including filters and 2 hoses (1.50m).
- Independent circuits - Extended service life.
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit: so you don't need to be a refrigeration engineer to install it.
- Condensate drainage provided by rear connection hole.
- Simple, intuitive electrical connection.
- Integration solution for every building.
- Easy maintenance, quick access to components.

## Environment

- Sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented intuis technology.

## Savings

- Eligible for financial assistance / EDF grant.
- High COP for a lower bills.
- Operates with or without electric back-up depending on the installation configuration.



## Features

Heat pump		HRC <sup>70</sup> 17/m	HRC <sup>70</sup> 17/t	HRC <sup>70</sup> 20/t	HRC <sup>70</sup> 25/t
Energy class 35°C/55°C - SCOP		A++/A++	A++/A++	A++/A++	A++/A++
Seasonal energy efficiency 35°C/55°C - SEER (η <sub>s</sub> )	%	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
COP at +7°C/35°C (EN14511)	-	4,4	4,9	4,6	4,6
Nominal sound pressure level (at 5 m directionality 4)	dB(A)	36	36	40	40
Power level (ERP +7°C/55°C)	dB(A)	60	60	61	61
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	A	40 single	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 stepped constant output			
Power stages	-	3	3	2	3
Soft starter	-	yes	no	no	yes
Minimum cross-section of power cable	mm <sup>2</sup>	3G 10mm <sup>2</sup>	5G 4 mm <sup>2</sup>	5G 4 mm <sup>2</sup>	5G 6 mm <sup>2</sup>
Dimensions (H x W x D)	mm	1713 x 1035 x 561	1713 x 1035 x 561	1713 x 1035 x 561	1713 x 1035 x 561
Weight without water	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



Unit	DS170 D	
Minimum cross-section of power cable	mm <sup>2</sup>	5G 2.5 (three) / 3G 6 (single)
Power protection circuit breaker	A	16 (four-pole) / 32 (single)
Circuit breaker curve	-	C
Power supply	V	400 V (three-phase) as standard, adaptable 230 (single-phase)
Multi-purpose cylinder	L	40
Unit dimensions (H x W x D) / Unit empty weight	mm/kg	1725 x 571 x 542 / 80
Hydraulic connections	mm	20/27 male
Boiler connection	-	✗
Electric connection (standard)	kW	0/2/4/6kW (single or three)
Circuit separation	-	✓

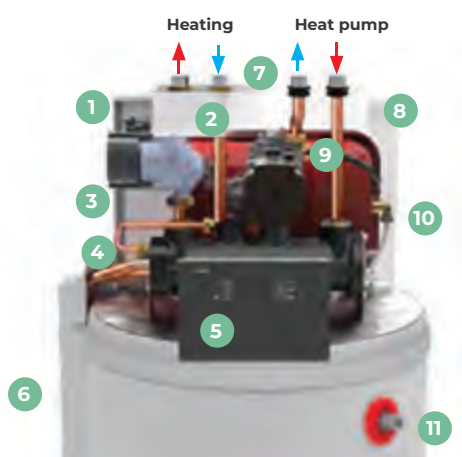


Diagram for DS170 D unit

- 1 Heating circulator
- 2 3-way heating / DHW valve
- 3 Separator
- 4 20-year warranty on cast-iron module
- 5 Control panel
- 6 Enamelled steel 170 L DHW tank
- 7 Automatic air vent
- 8 8L expansion tank
- 9 Heat pump/DHW circulator
- 10 Stepped 6kW electric back-up
- 11 DHW



# HRC<sup>70</sup> - DS170 D - ACCESSORIES

## HRC<sup>70</sup> - domestic installations from 17 to 25kW

Product name	Energy class & SEER 35°/55°C	Part number
<b>HRC<sup>70</sup> / DS170 D</b>		
HRC <sup>70</sup> 17kW /3 single DS170 D /40	A <sup>++</sup> /A <sup>++</sup> 151%/125%	151432
HRC <sup>70</sup> 17kW /3 three-phase DS170 D /40	A <sup>++</sup> /A <sup>++</sup> 165%/125%	151437
HRC <sup>70</sup> 20kW /3 three DS170 D /40	A <sup>++</sup> /A <sup>++</sup> 164%/129%	151447
HRC <sup>70</sup> 25kW /3 three DS170 D /40	A <sup>++</sup> /A <sup>+</sup> 150%/119%	151452

NB: Sets are supplied with an exterior sensor as standard. This allows an extra 1.5% on the SEER value.

Heat pump + control unit + hydraulic kit +  
Onix 40L included *Part number 151432*



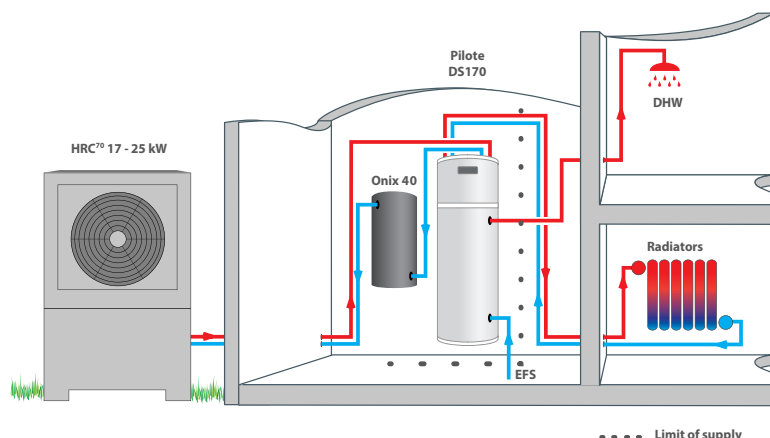
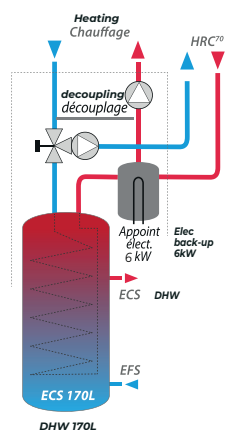
For a full installation, see the list of accessories opposite.

For a full installation, see the list of accessories opposite.

	Heat pump external unit		
Description	External defrosting cable for HRC <sup>70</sup> .	2 core armoured cable, 20m	2 core armoured cable, 50m
	Part number	751004	753102
	Catalogue page	78	78
Radiators	1 radiator circuit + 1 DHW circuit	Quantity	
	2 radiator circuits + 1 DHW circuit	Quantity	
Underfloor heating	1 underfloor heating circuit + 1 DHW circuit	Quantity	
	2 underfloor heating circuits + 1 DHW circuit	Quantity	
Radiators + Underfloor heating	1 radiator circuit + 1 underfloor heating circuit + 1 DHW circuit	Quantity	

Key:  Incompatible  Recommended  Essential  Optional

## Schematic diagram <sup>(1)</sup>: HRC<sup>70</sup> - DS170 D



<sup>(1)</sup> Refer to instructions for connection layout.

		PREMIUM+ control unit interior unit			Additional circuits	Circuit control		Connectivity		Hydraulic circuit accessories		
40m DN30 durite hose for HRC <sup>70</sup>	4 DN30 tube connectors for HTI <sup>70</sup> 11/14kW and HRC <sup>70</sup>	Manual reset 65°C underfloor heating temperature limiter	KD 10 - Backflow prevention kit	Onix 40 adjustable tripod	Thorix ÉVOLUTION 2C + exterior sensor	Room sensor with display	TH RNC/2 radio; non-chronopropotional wireless room thermostat	Thermo-Net Gateway (only with TH RNC/2)	Modbus kit - CET/Heat pump	3/4" filter valve	1" filter valve	1"1/4 filter valve
754208	754210	710111	710014	741003	411003	751009	770001	770002	730078	710124	710125	710132
78	78	78	78	78	78	78	78	78	78	78	78	78
					x1							
		x1										
		x1			x1							
		x1			x1							

# Z1 MONOPAC CONTROL UNIT

High-temperature 70°C monobloc air/water heat pump with multifunctional, multi-purpose control unit for heating and DHW.



*"Multi-function, multi-hydraulic connection, one unit for all applications handling intermediate power."*

## Compatible with :

► HRC<sup>70</sup> 32, 40kW three



heating  
(radiators or floor)  
1 standard circuit + 2 optional  
depending on configuration



Remote DHW  
(PEJ and VS  
pre-heater)



## Design

- Designed, developed and manufactured in France, French know-how combined with factories located within France.
- Fits perfectly with an existing installation and can be connected to an existing boiler as a back-up.
- Numerous hydraulic connection options to manage several circuits.
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.
- Meets all your heating and DHW requirements.

## Usage

- For large houses, new houses, RE2020 new builds, renovation as well as tertiary and industrial applications.
- Perfectly suited to new-build projects with low-temperature heating (underfloor or ceiling heating, low-temperature radiators) or high-temperature radiators for renovations.
- Can be installed to replace an old boiler and does not require the replacement of existing high-temperature radiators.

## Performance

- High temperature up to 70°C on even the coldest days, using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- High compression ratio for 3 power levels (2 power levels for the 20kW).
- Modular power: innovative combination of 2 high-performance compressors to always match supply to demand.
- 32kW and 40kW three-phase power range.
- Performance rating up to 4.6<sup>(1)</sup>.
- Exceptional COP for up to 80% savings on heating.
- Thermodynamic operation down to -20°C outside air temperature.

<sup>(1)</sup> Depending on the model

## Comfort & reliability

- Quiet, with a carefully engineered design.
- Hydraulic separation of the heat pump and heating circuits.
- Scalable as required to cover several circuits.
- Remote control with connectivity (optional).
- Stepped 6kW electric back-up (2, 4 and 6kW), single or three-phase (optional).
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator, high-efficiency scroll compressor and reliable electrical and electronic components.

## Installation

- Independent circuits - Extended service life.
- Multi-functional management: heating circuits, DHW pre-heaters and boiler back-up.
- Integrated pre-coupling for second circuit.
- Pre-coupling for boiler provided.
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit: so you don't need to be a refrigeration engineer to install it.
- Condensate drainage provided by rear connection hole.
- Simple, intuitive electrical connection.
- Integration solution for every building.
- Easy maintenance, quick access to components.

## Environment

- Sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented intuis technology.

## Savings

- Eligible for financial assistance / EDF grant.
- High COP for a lower bills.
- Operates with or without back-up boiler (gas, electricity, etc.) depending on the installation configuration.



## Features

Heat pump		HRC <sup>70</sup> 32/t	HRC <sup>70</sup> 40 V/t
Energy class 35°C/55°C - SCOP		A++/A+	A++/A++
Seasonal energy efficiency 35°C/55°C - SEER (η <sub>s</sub> )	%	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
COP at +7°C/35°C (EN14511)	-	4,57	4,64
Nominal sound pressure level (at 5m directionality 4)	dB(A)	44,8	38
Power level (ERP +7°C/55°C)	dB(A)	66	60,5
Outside air range	°C	-20 to +40	-20 to +40
Power supply	V	400	400
Protective circuit breaker	A	32 four-pole	32 four-pole
Circuit breaker curve	-	D	D
Maximum electrical power	kVA	14,5	17,5
Power regulation mode	-	Two-compressor stepped constant output	
Power stages	-	3	2
Soft starter	-	yes	yes
Minimum cross-section of power cable	mm <sup>2</sup>	5G 6mm <sup>2</sup>	5G 6mm <sup>2</sup>
Dimensions (H x W x D)	mm	1713 x 1235 x 561	1450 x 1620 x 1300
Weight without water	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



Z1 control unit		Z1
Minimum cross-section of power cable	mm <sup>2</sup>	3G 2.5 (single)
Power protection circuit breaker	A	10 (single)
Circuit breaker curve	-	C
Power supply	V	230 (single)
Multi-purpose cylinder	L	78
Unit dimensions (H x W x D) / Unit empty weight	mm/kg	1512 x 410 x 536 / 49
Hydraulic connections	mm	40/49 male
Boiler connection	-	✓
Electric back-up, separate power supply (optional)	kW	0/2/4/6kW (single or three)
Circuit separation	-	✓
Unit weight	kg	49

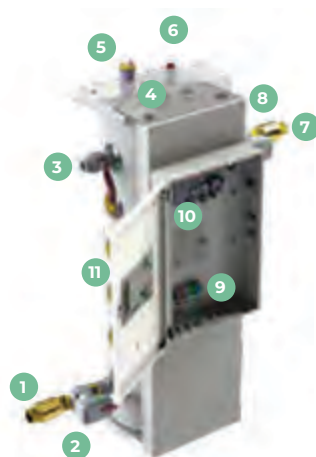


Diagram of a Z1 control unit

- 1 Check valve
- 2 Heat pump circulator
- 3 Isolation valve
- 4 Pressure sensor
- 5 Automatic vent
- 6 Safety valve
- 7 Check valve
- 8 Distribution circulator
- 9 Connecting terminal block
- 10 Circuit management board
- 11 78 L multi-purpose cylinder

# HRC<sup>70</sup> - Z1 - ACCESSORIES

## HRC<sup>70</sup> - domestic installations from 32 to 40kW


Product name	Energy class & SEER 35°C / 55°C	Part number
<b>HRC<sup>70</sup> / Z1 Unit</b>		
HRC <sup>70</sup> 32kW three-phase Z1	A <sup>++</sup> / A <sup>+</sup> 151% / 121%	151461
HRC <sup>70</sup> 40kW three-phase Z1	A <sup>++</sup> / A <sup>++</sup> 157% / 127%	151471

NB: Sets are supplied with an exterior sensor as standard. This allows an extra 1.5% on the SEER value.

Heat pump + control unit + hydraulic kit included *Part number 151461*



For a full installation, see the list of accessories opposite.

			Heat pump external unit					Z1 unit interior unit			
Description		Note: see diagram, case no.	External defrosting cable for HRC <sup>70</sup> .	2 core armoured cable, 20m	2 core armoured cable, 50m	40m DN30 durite hose for HRC <sup>70</sup> .	4 DN30 tube connectors for HTI <sup>70</sup> 11/14kW and HRC <sup>70</sup> .	Z1 control unit support (optional)	Manual reset 65°C underfloor heating temperature limiter	KD 10 - Backflow prevention kit	Electric back-up 6kW (230V/400V) for Z1
Part number			751004	753102	754103	754208	754210	754650	710111	710014	754105
Catalogue page			78	78	78	78	78	-	78	78	78
Radiators	1 radiator circuit	Quantity	1								
	1 radiator circuit + 1 DHW circuit	Quantity	4								
	2 radiator circuits	Quantity	3								
	2 radiator circuits + 1 DHW circuit	Quantity	7								
	3 radiator circuits	Quantity	6								
	1 radiator circuit + 2 DHW circuits	Quantity	8								
Underfloor heating	1 underfloor heating circuit	Quantity	1						x1		
	1 underfloor heating circuit + 1 DHW circuit	Quantity	29						x1		
	2 underfloor heating circuits	Quantity	3						x2		
	2 underfloor heating circuits + 1 DHW circuit	Quantity	-	Ask your intuis representative							
	3 underfloor heating circuits	Quantity	6						x3		
	1 underfloor heating circuit + 2 DHW circuits	Quantity	-	Ask your intuis representative							
Radiators + Underfloor heating	1 radiator circuit + 1 underfloor heating circuit	Quantity	28						x1		
	1 radiator circuit + 1 underfloor heating circuit + 1 DHW circuit	Quantity	-	Ask your intuis representative							
DHW circuit	1 DHW circuit	2	2								
	2 DHW circuits	2 DHW circuits	5								
	3 DHW circuits	3 DHW circuits	9								

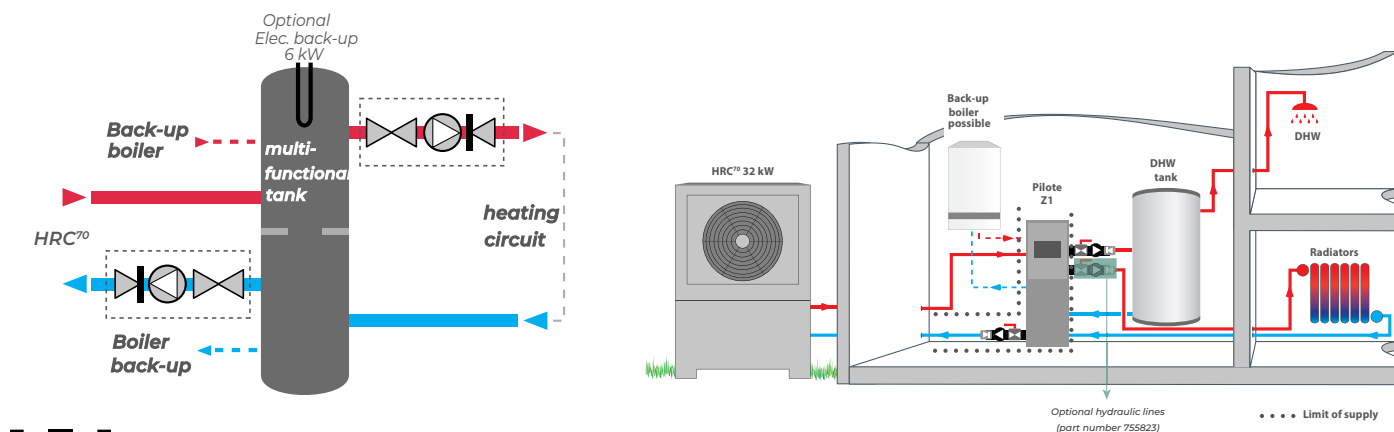
For a full installation, see the list of accessories opposite.

Key:   Incompatible   Recommended   Essential   Optional

**Caution:** install a relay between the control board and the circulator when it is not the one supplied in the auto line **Ref: 755823**



## Schematic diagram: HRC70 Z1 CONTROL UNIT



☐ ☐ ☐ Supplied as standard, unassembled

<sup>(1)</sup> Refer to instructions for connection layout.

		Additional circuits		Circuit control				Connectivity		Hot water tank/DHW pre-heater		Hydraulic circuit accessories	
V3V flow sensor for Z1	V3V and circulator for underfloor heating (not supplied)	Thorix ÉVOLUTION 1C + Exterior sensor	AUTO 25-125-130 hydraulic line	Room sensor with display	TH RNC/2 radi: non-chronoproportional wireless room thermostat	DHW / pool / cascade sensor	Aquastat	Thermo-Net Gateway (only with TH NRC/2)	Modbus kit - CET/Heat pump	PEJ 270	BRS 500L / VS 750 to 3000L pre-heater	1"1/4 filter valve	1"1/4 high-capacity filtration kit
710158	-	411002	755823	751009	770001	710029	752202	770002	730078	341106	-	710132	711000
78	-	78	78	78	78	78	78	78	78	92	93	78	78
			x1			x1							
			x1										
			x2			x1							
			x2										
			x2			x2							

x1	x1					x1							
			x1										

Ask your intuis representative

			x2										
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Ask your intuis representative

x1	x1												
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Ask your intuis representative

						x1							
			x1			x2							
			x2			x3							

# Z1 CASCADE CONTROL UNIT

High-temperature 70°C monobloc air/water heat pump with multifunctional, multi-purpose control unit for heating and DHW.

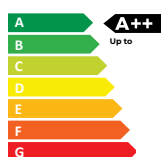


COMPRESSOR  
5 YEAR WARRANTY<sup>(1)</sup>

*"Multi-function, multi-hydraulic connection, one unit for all applications handling intermediate power."*

## Compatible with the following cascades:

- HRC<sup>70</sup> 40 (2x20kW), 50 (2x25kW), 64 (2x32kW), 75 (3x25kW), 96 (3x32kW)



heating  
(radiators or underfloor heating)  
depending on configuration



Remote DHW  
(PEJ and VS pre-heater)



## Design

- Designed, developed and manufactured in France, French know-how combined with factories located within France.
- Fits perfectly with an existing installation and can be connected to an existing boiler as a back-up.
- Numerous hydraulic connection options to manage several circuits.
- Monobloc design for easy installation, with a simple hydraulic link between the heat pump and its control unit, so there's no need to handle fluids.
- Meets all your heating and DHW requirements.

## Usage

- For large houses, new houses, RE2020 new builds, renovation as well as tertiary and industrial applications.
- Perfectly suited to new-build projects with low-temperature heating (underfloor or ceiling heating, low-temperature radiators) or high-temperature radiators for renovations.
- Can be installed to replace an old boiler and does not require the replacement of existing high-temperature radiators.

## Performance

- High temperature up to 70°C on even the coldest days, using R290 fluid, providing heating in all configurations and anti-legionella cycles without back-up for DHW production.
- High compression ratio for 3 power levels (2 power levels for the 20kW).
- Modular power: innovative combination of 2 high-performance compressors to always match supply to demand.
- Power range from 40kW three-phase and up to 96kW three-phase.
- Performance rating up to 4.6<sup>(2)</sup>.
- Exceptional COP for up to 80% savings on heating.
- Thermodynamic operation down to -20°C outside air temperature.

## Comfort & reliability

- Quiet, with a carefully engineered design.
- Hydraulic separation of the heat pump and heating circuits.
- Scalable as required to cover several circuits.
- Remote control with connectivity (optional).
- Stepped 6kW electric back-up (2, 4 and 6kW), single or three-phase (optional).
- Robust construction with anti-corrosion and UV-protected steel panel structure, fully stainless steel heat exchanger, anti-corrosion treated evaporator, high-efficiency scroll compressor and reliable electrical and electronic components.

## Installation

- Independent circuits - Extended service life.
- Multi-functional management: heating circuits, DHW pre-heaters and boiler back-up.
- Integrated pre-coupling for second circuit.
- Pre-coupling for boiler provided.
- As it's a monobloc one-piece unit, no work is needed on the refrigeration circuit: so you don't need to be a refrigeration engineer to install it.
- Condensate drainage provided by rear connection hole.
- Simple, intuitive electrical connection.
- Integration solution for every building.
- Easy maintenance, quick access to components.

## Environment

- Sealed non-fluorinated R290 fluid in the outdoor unit, drastically reduced impact on the greenhouse effect, F-GAS compliant, patented intuis technology.

## Savings

- Eligible for financial assistance / EDF grant.
- High COP for a lower bills.
- Operates with or without back-up boiler (gas, electricity, etc.) depending on the installation configuration.

<sup>(1)</sup> Compressor guaranteed for 5 years subject to compliance with the warranty conditions set out in the T&Cs of the current catalog.

<sup>(2)</sup> Depending on the model

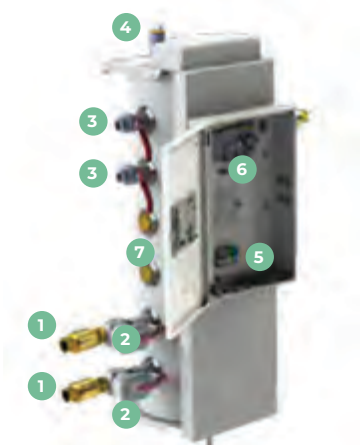


## Features

Heat pump		HRC <sup>70</sup> 40 kW (2x20)	HRC <sup>70</sup> 50 kW (2x25)	HRC <sup>70</sup> 64 kW (2x32)	HRC <sup>70</sup> 75 kW (3x25)	HRC <sup>70</sup> 96 kW (3x32)
Energy class 35°C/55°C - SCOP		A++ / A++	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Seasonal energy efficiency 35°C/55°C - SEER (ns)	%	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
COP at +7°C/35°C (EN14511)		4,6	4,6	4,57	4,6	4,57
Nominal sound pressure level (at 5 m directionality 4)	dB(A)	43	43	47,8	44,5	49,3
Power level (ERP +7°C/55°C)	dB(A)	64	64	69	65,5	70,5
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	A	16 tri / 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 output					
Power stages		4	6	6	9	9
Soft starter		No	Yes	Yes	Yes	Yes
Minimum cross-section of power cable	mm <sup>2</sup>	5G 4mm <sup>2</sup>	5G 6mm <sup>2</sup>	5G 6mm <sup>2</sup>	5G 6mm <sup>2</sup>	5G 6mm <sup>2</sup>
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
Weight without water	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



Z1 Cascade unit		Z1 Cascade
Minimum cross-section of power cable	mm <sup>2</sup>	3G 2.5 (single)
Power protection circuit breaker	A	10 (single)
Circuit breaker curve	-	C
Power supply	V	230 (single)
Multi-purpose cylinder	L	78
Unit dimensions (H x W x D) / Unit empty weight	mm / kg	1512 x 410 x 536 / 49
Hydraulic connections	mm	40/49 male
Boiler connection	-	✓
Electric back-up, separate power supply (optional)	kW	0/2/4/6kW (single or three)
Circuit separation	-	✓
Unit weight	kg	49



### Diagram of the Z1 Cascade control unit

- 1 Check valve
- 2 Heat pump circulator
- 3 Isolation valve
- 4 Pressure sensor
- 5 Connecting terminal block
- 6 Circuit management board
- 7 78 L multi-purpose cylinder

# HRC<sup>70</sup> - Z1 CASCADE - ACCESSORIES

## HRC<sup>70</sup> CASCADE INSTALLATION from 40 to 96kW


Product name	Energy class & SEER 35°/55°C	Part number
<b>HRC<sup>70</sup> 40 to 96kW - UNIT Z1</b>		
HRC <sup>70</sup> 40kW three-phase Z1 Cascade	A <sup>++</sup> /A <sup>+</sup> 153%/127%	151448
HRC <sup>70</sup> 50kW three-phase Z1 Cascade	A <sup>++</sup> /A <sup>+</sup> 150%/119%	151453
HRC <sup>70</sup> 64kW three-phase Z1 Cascade	A <sup>++</sup> /A <sup>+</sup> 151%/121%	151462
HRC <sup>70</sup> 75kW three-phase Z1 Cascade	A <sup>++</sup> /A <sup>+</sup> 150%/119%	151456
HRC <sup>70</sup> 96kW three-phase Z1 Cascade	A <sup>++</sup> /A <sup>+</sup> 151%/121%	151463

Heat pump + control unit + hydraulic kit included *Part number 151453*



For a full installation, see the list of accessories opposite.

					Heat pump external unit			Z1 unit interior unit					
					Note: see diagram, case no.	Description	External defrosting cable for HRC <sup>70</sup> .	2 core armoured cable, 20m	2 core armoured cable, 50m	Z1 control unit support (optional)	Manual reset 65°C underfloor heating temperature limiter	3-way valve (not supplied)	
						Part number	751004	753102	754103	754650	710111	Not supplied	
						Catalogue page	78	78	78	78	78	-	
Radiators	1 radiator circuit	151448	Cascade HRC 40kW/3 three-phase	10	Quantity	x2							
		151453	Cascade 50kW/3 three-phase	10	Quantity	x2							
		151462	Cascade 64kW three-phase	10	Quantity	x2							
		151456	Cascade HRC 75kW/3 three-phase	19	Quantity	x3							
		151463	Cascade 96kW three-phase	19	Quantity	x3							
	1 radiator circuit + 1 DHW circuit	151448	Cascade HRC 40kW/3 three-phase	13	Quantity	x2							
		151453	Cascade 50kW/3 three-phase	13	Quantity	x2							
		151462	Cascade 64kW three-phase	13	Quantity	x2							
		151456	Cascade HRC 75kW/3 three-phase	22	Quantity	x3							
		151463	Cascade 96kW three-phase	22	Quantity	x3							
	1 radiator circuit + 2 DHW circuits	151448	Cascade HRC 40kW/3 three-phase	17	Quantity	x2							
		151453	Cascade 50kW/3 three-phase	17	Quantity	x2							
		151462	Cascade 64kW three-phase	17	Quantity	x2							
		151456	Cascade HRC 75kW/3 three-phase	26	Quantity	x3							
		151463	Cascade 96kW three-phase	26	Quantity	x3							
	2 radiator circuits	151448	Cascade HRC 40kW/3 three-phase	12	Quantity	x2							
		151453	Cascade 50kW/3 three-phase	12	Quantity	x2							
		151462	Cascade 64kW three-phase	12	Quantity	x2							
		151456	Cascade HRC 75kW/3 three-phase	21	Quantity	x3							
		151463	Cascade 96kW three-phase	21	Quantity	x3							
	2 radiator circuits + 1 DHW circuit	151448	Cascade HRC 40kW/3 three-phase	16	Quantity	x2							
		151453	Cascade 50kW/3 three-phase	16	Quantity	x2							
		151462	Cascade 64kW three-phase	16	Quantity	x2							
		151456	Cascade HRC 75kW/3 three-phase	25	Quantity	x3							
151463		Cascade 96kW three-phase	25	Quantity	x3								
3 radiator circuits	151448	Cascade HRC 40kW/3 three-phase	15	Quantity	x2								
	151453	Cascade 50kW/3 three-phase	15	Quantity	x2								
	151462	Cascade 64kW three-phase	15	Quantity	x2								
	151456	Cascade HRC 75kW/3 three-phase	24	Quantity	x3								
	151463	Cascade 96kW three-phase	24	Quantity	x3								

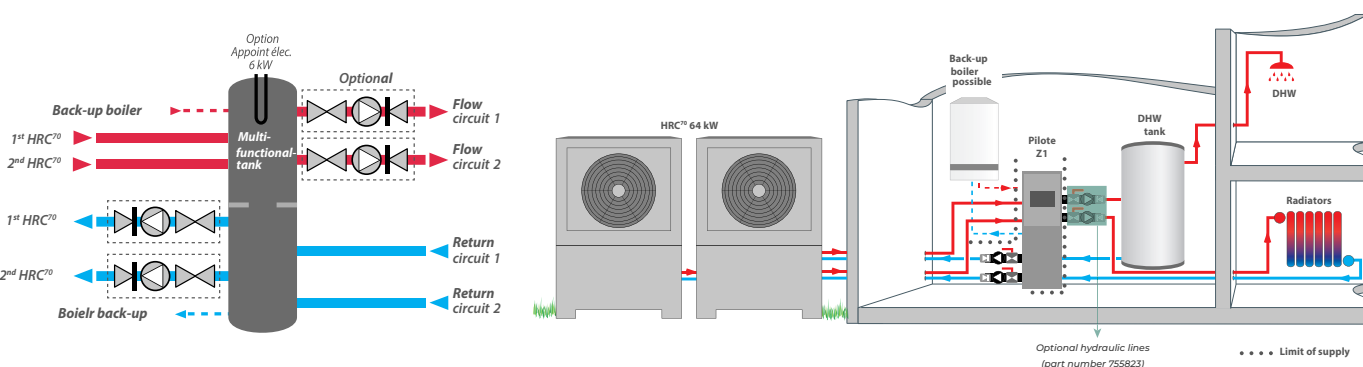


For a full installation, see the list of accessories opposite.

Key:  Incompatible  Recommended  Essential  Optional

**Caution:** install a relay between the control board and the circulator when it is not the one supplied in the auto line **Ref: 755823**, install a relay between the control board and the circulator

## CASCADE Schematic diagram: HRC<sup>70</sup> Z1 unit



		Additional circuits			Circuit control					Connectivity		Hot water tank DHW pre-heater		
Manifold (not supplied)	Electric back-up 6kW (230V/400V)	Thorix ÉVOLUTION 1C + Exterior sensor	Thorix ÉVOLUTION 2C + Exterior sensor	AUTO 25-125-130 hydraulic line	Room sensor with display	TH RNC/2 radio: non- chronoproportional wireless room thermostat	DHW / pool / cascade sensor	Aquastat	V3V flow sensor for Z1	Thermo-Net gateway (only with TH RNC/2)	Modbus kit CET/Heat pump	PEJ 200	PEJ 270: 3kW electric back-up for VS 300/500L	BRS 300L / VS 750 to 3000L pre-heater
Not supplied	754105	411002	411003	755823	751009	770001	710029	752202	710158	770002	730078	341111	341106	-
-	78	78	78	78	78	78	78	78	78	78	78	92	92	93
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## HRC<sup>70</sup> - Z1 CASCADE - ACCESSORIES (continued)

Heat pump + control unit + hydraulic kit included *Part number 151453*



For a full installation, see the list of accessories opposite.

					Heat pump external unit			Z1 unit interior unit					
					Note: see diagram, case no.	Description	External defrosting cable for HRC <sup>70</sup> .	Armoured cable 2 wires 20m long	Armoured cable 2 wires 50m long	Z1 control unit support (optional)	Manual reset 65°C underfloor heating temperature limiter	3-way valve (not supplied)	
							Part number	751004	753102	754103	754650	710111	Not supplied
For a full installation, see the list of accessories opposite.					Part number	Product name	Catalogue page	78	78	78	78	78	-
Underfloor heating	1 underfloor heating circuit	151448	Cascade HRC 40kW/3 three-phase	10	Quantity	x2					x1		
		151453	Cascade 50kW/3 three-phase	10	Quantity	x2					x1		
		151462	Cascade 64kW three-phase	10	Quantity	x2					x1		
		151456	Cascade HRC 75kW/3 three-phase	19	Quantity	x3					x1		
		151463	Cascade 96kW three-phase	19	Quantity	x3					x1		
	1 underfloor heating circuit + 1 DHW circuit	151448	Cascade HRC 40kW/3 three-phase	31	Quantity	x2					x1	x1	
		151453	Cascade 50kW/3 three-phase	31	Quantity	x2					x1	x1	
		151462	Cascade 64kW three-phase	31	Quantity	x2					x1	x1	
		151456	Cascade HRC 75kW/3 three-phase	33	Quantity	x3					x1	x1	
		151463	Cascade 96kW three-phase	33	Quantity	x3					x1	x1	
	1 underfloor heating circuit + 2 DHW circuits	151448	Cascade HRC 40kW/3 three-phase		Quantity	x2							
		151453	Cascade 50kW/3 three-phase		Quantity	x2							
		151462	Cascade 64kW three-phase		Quantity	x2							
		151456	Cascade HRC 75kW/3 three-phase		Quantity	x3							
		151463	Cascade 96kW three-phase		Quantity	x3							
	2 underfloor heating circuits	151448	Cascade HRC 40kW/3 three-phase	12	Quantity	x2					x2		
		151453	Cascade 50kW/3 three-phase	12	Quantity	x2					x2		
		151462	Cascade 64kW three-phase	12	Quantity	x2					x2		
		151456	Cascade HRC 75kW/3 three-phase	21	Quantity	x3					x2		
		151463	Cascade 96kW three-phase	21	Quantity	x3					x2		
	2 underfloor heating circuits + 1 DHW circuit	151448	Cascade HRC 40kW/3 three-phase		Quantity	x2							
		151453	Cascade 50kW/3 three-phase		Quantity	x2							
		151462	Cascade 64kW three-phase		Quantity	x2							
		151456	Cascade HRC 75kW/3 three-phase		Quantity	x3							
		151463	Cascade 96kW three-phase		Quantity	x3							

Key:   Incompatible   Recommended   Essential   Optional

**Caution:** install a relay between the control board and the circulator when it is not the one supplied in the auto line **Ref: 755823**, install a relay between the control board and the circulator

		Additional circuits			Circuit control					Connectivity		Hot water tank DHW pre-heater		
Manifold (not supplied)	Electric back-up 6kW (230V/400V)	Thorix ÉVOLUTION 1C + Exterior sensor	Thorix ÉVOLUTION 2C + Exterior sensor	AUTO 25-125-130 hydraulic line	Room sensor with display	TH RNC/2 radio: non- chronopropotional wireless room thermostat	DHW / pool / cascade sensor	Aquastat	V3V flow sensor for ZI	Thermo-Net gateway (only with TH RNC /2)	Modbus kit CEI/Heat pump	PEJ 200	PEJ 270: 3kW electric back-up for VS 300/500L	BRS 300L / VS 750 to 3000L pre-heater
Not supplied	754105	411002	411003	755823	751009	770001	710029	752202	710158	770002	730078	341111	341106	-
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## HRC<sup>70</sup> - Z1 CASCADE - ACCESSORIES (end)

Heat pump + control unit + hydraulic kit included *Part number 151453*



For a full installation, see the list of accessories opposite.



For a full installation, see the list of accessories opposite.

					Heat pump external unit			Z1 unit interior unit		
Part numbers	Product name	Note: see diagram, case no.	Description	External defrosting cable for HRC <sup>70</sup> .	2 core armoured cable, 20m	2 core armoured cable, 50m	Z1 control unit support (optional)	Manual reset 65°C underfloor heating temperature limiter	3-way valve (not supplied)	
			Part number	751004	753102	754103	754650	710111	Not supplied	
			Catalogue page	78	78	78	-	78	-	
Radiators + underfloor heating	1 radiator circuit + 1 underfloor heating circuit	151448	Cascade HRC 40kW/3 three-phase	30	Quantity	x2			x1	x1
		151453	Cascade 50KW /3 three-phase	30	Quantity	x2			x1	x1
		151462	Cascade 64KW three-phase	30	Quantity	x2			x1	x1
		151456	Cascade HRC 75kW /3 three-phase	32	Quantity	x3			x1	x1
		151463	Cascade 96KW three-phase	32	Quantity	x3			x1	x1
	1 radiator circuit + 1 underfloor heating circuit + 1 DHW circuit	151448	Cascade HRC 40kW/3 three-phase		Quantity	x2				
		151453	Cascade 50KW /3 three-phase		Quantity	x2				
		151462	Cascade 64KW three-phase		Quantity	x2				
		151456	Cascade HRC 75kW /3 three-phase		Quantity	x3				
		151463	Cascade 96KW three-phase		Quantity	x3				
	1 underfloor heating circuit + 1 DHW circuit	151448	Cascade HRC 40kW/3 three-phase		Quantity	x2				
		151453	Cascade 50KW /3 three-phase		Quantity	x2				
		151462	Cascade 64KW three-phase		Quantity	x2				
		151456	Cascade HRC 75kW /3 three-phase		Quantity	x3				
		151463	Cascade 96KW three-phase		Quantity	x3				
	2 radiator circuits + 1 underfloor heating circuit	151448	Cascade HRC 40kW/3 three-phase		Quantity	x2				
		151453	Cascade 50KW /3 three-phase		Quantity	x2				
		151462	Cascade 64KW three-phase		Quantity	2x				
		151456	Cascade HRC 75kW /3 three-phase		Quantity	x3				
		151463	Cascade 96KW three-phase		Quantity	x3				

DHW circuit	1 DHW circuit	151448	Cascade HRC 40kW/3 three-phase	11	Quantity	x2					
		151453	Cascade 50kW/3 three-phase	11	Quantity	x2					
		151462	Cascade 64kW three-phase	11	Quantity	x2					
		151456	Cascade HRC 75kW/3 three-phase	20	Quantity	x3					
		151463	Cascade 96kW three-phase	20	Quantity	x3					
	2 DHW circuits	151448	Cascade HRC 40kW/3 three-phase	14	Quantity	x2					
		151453	Cascade 50kW/3 three-phase	14	Quantity	x2					
		151462	Cascade 64kW three-phase	14	Quantity	x2					
		151456	Cascade HRC 75kW/3 three-phase	23	Quantity	x3					
		151463	Cascade 96kW three-phase	23	Quantity	x3					
	3 DHW circuits	151448	Cascade HRC 40kW/3 three-phase	18	Quantity	x2					
		151453	Cascade 50kW/3 three-phase	18	Quantity	x2					
		151462	Cascade 64kW three-phase	18	Quantity	x2					
		151456	Cascade HRC 75kW/3 three-phase	27	Quantity	x3					
		151463	Cascade 96kW three-phase	27	Quantity	x3					

Key:   Incompatible   Recommended   Essential   Optional

**Caution:** install a relay between the control board and the circulator when it is not the one supplied in the auto line **Ref: 755823**, install a relay between the control board and the circulator

Manifold (not supplied)	Electric back-up 6kW (230V/400V)	Additional circuits			Circuit control					Connectivity		Hot water tank DHW pre-heater		
		Thorix ÉVOLUTION IC + Exterior sensor	Thorix ÉVOLUTION 2C + Exterior sensor	AUTO 25-125-130 hydraulic line	Room sensor with display	TH RNC/2 radio: non- chronoproportional wireless room thermostat	DHW / pool / cascade sensor	Aquastat	3-way valve flow sensor for Z1	Thermo-Net gateway (only with TH RNC /2)	Modbus kit CEI/Heat pump	PEJ 200	PEJ 270: 3kW electric back-up for VS 300 / 500 L	BPS 300L / VS 750 to 3000L pre-heater
Not supplied	754105	411002	411003	755823	751009	770001	710029	752202	710158	770002	730078	341111	341106	-
-	78	78	78	78	78	78	78	78	78	78	78	92	92	93
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# THORIX

Hydraulic management module for two circuits with different temperatures.



For coupling to  
**ANY TYPE**  
of generator.

**Designed, assembled and optimised to power two circuits of any type:**

- Underfloor heating
- Radiators

**For better comfort control and greater savings**

- Heat pump defrosting assistance



heating  
(radiators or underfloor heating)  
depending on configuration



## Thorix module

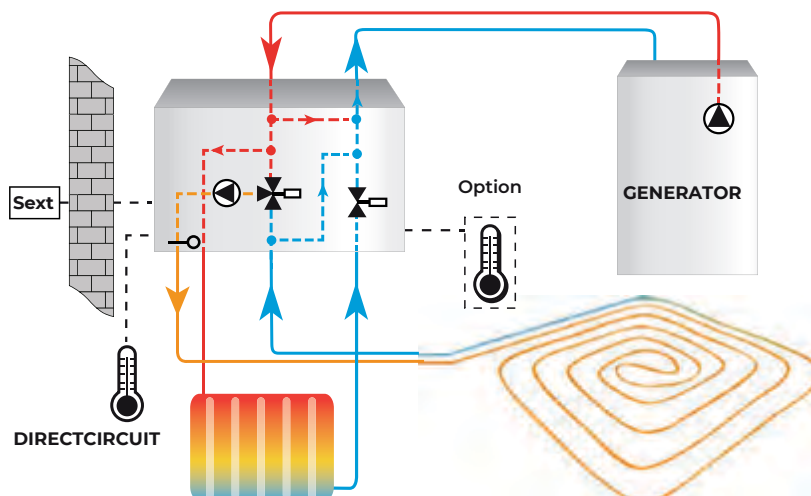
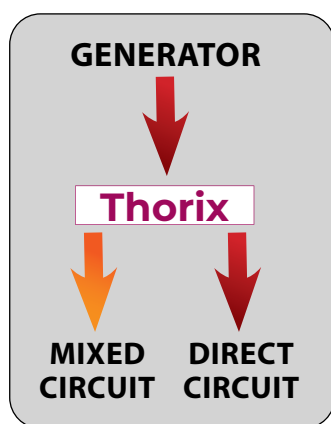
Product name	Cumulative maximum power *	Dimension HxWxD / Weight	Part number
Thorix EVOLUTION 1C - 1 mixed circuit + exterior sensor	20kW*	286 x 420 x 260 10kg	411002
Thorix EVOLUTION 2C - 1 direct circuit + 1 mixed circuit + exterior sensor (with motorised 2-way valve included)	20kW*	286 x 420 x 260 11kg	411003

\*Total power distributed = radiator circuit + underfloor circuit

## Thorix accessories

Product name	Part number
Motorised 2-way valve for the direct circuit (integrated into the appliance). Only for Thorix EVOLUTION ref. 411002	740022

## Thorix ÉVOLUTION 2C manages the entire system (with 2-way valve)



Low energy variable speed pump



LTP Integrated Floor Temperature Limiter



Exterior sensor supplied



Motorised 3-way valve for mixed circuit control.



Motorised 2-way valve for direct circuit control:



Optional room sensor or room

thermostat for direct circuit and mixed circuit  
Standard on model 2C  
Optional on model 1C



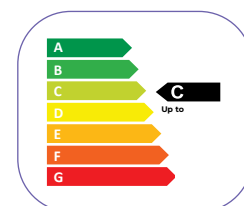
# ONIX

Primary buffer tank for heat pumps, boilers and all hydraulic circuits.



## New range for greater reliability

- ▶ Hydraulic separator
- ▶ Increased water volume
- ▶ Anti-short-cycle
- ▶ Degassing, sludge decantation
- ▶ Steel tank with rigid 45mm polyurethane foam insulation
- ▶ Operating pressure 3 bar
- ▶ 6 or 8 connection spigots of 1" 1/4
- ▶ Spigots for thermowells, for 1/2" purge and for 1" or 1" 1/4 drain
- ▶ 100 and 200L models supplied with 4 x 1" 1/4 plugs



## Onix buffer tanks

Product name	Energy class	Connection spigot	Dimension (øx H*) Weight	Part number
<b>8-spigot models</b>				
Onix 100 CF8-MRS/2	C	8 x 1" 1/4	ø500 x 1105 * - 24kg	422316
Onix 200 CF8-MRS/2	C	8 x 1" 1/4	ø596 x 1360 * - 48kg	422317

## Accessories

Product name	Part number
Tripod adjustable from 30 to 50cm for Onix 100 / 200L and CET 100/150L	730016
Thermowell 1/2" 300mm lonh for Onix 100 / 200L and VS 350/3000L	732053

\* Height on feet

# ACCESSORIES

## EXTERNAL UNIT



**PN 753102**  
2 core armoured cable,  
20m



**PN 754208**  
40m DN30 durite hose for  
HTI<sup>70</sup> 11/14kW and HRC<sup>70</sup>



**PN 753209**  
4 DN25 tube connectors  
for HTI<sup>70</sup> 6/8kW



**PN 754600**  
12cm adjustable riser for  
HTI<sup>70</sup>



**PN 754601**  
Ground fixing kit for HTI<sup>70</sup>  
11/14kW



**PN 753103**  
2 core armoured cable, 50m



**PN 741003**  
Adjustable tripod for Onix  
40



**PN 711000**  
High-capacity 1 1/4 filtration  
kit for HTI<sup>70</sup> 6/8kW



**PN 751004**  
External defrosting cable  
for HRC<sup>70</sup>



**PN 754210**  
4 DN 30 tube connectors for  
HTI<sup>70</sup> 11/14kW

## INTERIOR UNIT



**PN 710014**  
KD 10 - Backflow  
prevention kit



**PN 710111**  
Manual reset 65°C  
underfloor heating  
temperature limiter



**PN 710018**  
1" F/F check valve



**PN 754602**  
Cooling kit  
for Orium



**PN 754300**  
Adjustable hygostat for  
cooling mode

## ADDITIONAL CIRCUITS



**PN 710111**  
Manual reset 65°C  
underfloor heating  
temperature limiter



**PN 754211**  
Premium+ second circuit  
kit  
by Thorix 1C



**PN 753105**  
Second circuit with  
identical temperature kit for  
Premium+.



**PN 755823**  
Auto 25-125-130  
hydraulic line



**PN 411002**  
Thorix EVOLUTION 1C - 1  
mixed circuit + exterior  
sensor (integrated LTP)  
**PN. 411003**  
Thorix EVOLUTION 2C - 1  
direct circuit + mixed circuit  
+ exterior sensor (integrated  
LTP) See p. 76

## CIRCUIT CONTROL



**PN 751009**  
Room sensor with display



**PN 710029**  
DHW / pool / cascade  
sensor



**PN 710158**  
3-way valve flow sensor  
for ZI



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



**PN 752202**  
Aquastat

## CONNECTIVITY

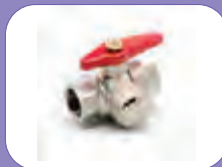


**PN 730078**  
Modbus kit  
CET / Heat pump



**PN 770002**  
ThermoNet Gateway

## HYDRAULIC CIRCUITS



**PN 710124**  
3/4" filter valve



**PN 710125**  
1" filter valve



**PN 710132**  
1 1/4" filter valve

## Heat pump accessories

Product name	HTi	HRC	Part number
External defrosting cable for HTi <sup>70</sup> .	✓	-	754101
External defrosting cable for HRC <sup>70</sup> .	-	✓	751004
2 core armoured cable, 20m long, heat pump/control unit (replaces 10m cable supplied as standard)	✓	✓	753102
2 core armoured cable, 50m long, heat pump/control unit (replaces 10m cable supplied as standard)	✓	✓	754103
40m DN 25 durite hose for HTi <sup>70</sup> 6/8kW	HTi <sup>70</sup> 6/8kW	-	754207
40m DN 30 durite hose for HTi <sup>70</sup> 11/14kW and HRC <sup>70</sup>	HTi <sup>70</sup> 11/14kW	✓	754208
4 DN25 tube connectors for HTi <sup>70</sup> 6/8kW	HTi <sup>70</sup> 6/8kW	-	754209
4 DN30 tube connectors for HTi <sup>70</sup> 11/14kW and HRC <sup>70</sup>	HTi <sup>70</sup> 11/14kW	✓	754210
High-capacity 1" 1/4 filtration kit for HTi <sup>70</sup> 6/8kW	HTi <sup>70</sup> 6/8kW	-	711000
12cm adjustable riser for HTi <sup>70</sup>	✓	-	754600
Ground fixing kit for HTi <sup>70</sup> 11/14kW	HTi <sup>70</sup> 11/14kW	-	754601
Adjustable tripod for Onix 40	HTi <sup>70</sup> 11/14kW	✓	741003

## Control unit accessories

Product name	ORIUM	PREMIUM+	DS170 D	GAS HYBRID	Z1 UNIT	Part number
Room sensor with display <a href="#">extra 2% on SEER value</a>	✓	✓	✓	✓	Circuit 1 only	751009
TH RNC/2 radio: non-chrono-proportional wireless room thermostat* <a href="#">extra 2% on SEER value</a> (see page 22)	✓	✓	✓	✓	✓	770001
DHW / pool / cascade sensor	✓	✓	Integrated	✓	✓	710029
Aquastat	-	-	-	-	✓	752202
Domestic hot water tanks	✓	✓	-	✓	✓	see page 92
Manual reset 65°C underfloor heating temperature limiter with bundle	✓	✓	✓	✓	✓	710111
Modbus kit - CET/Heat pump	✓	✓	✓	✓	✓	730078
2 <sup>nd</sup> circuit with identical temperature kit for Premium+.	-	✓	-	-	-	753105
1" 1/4 high-capacity filtration kit	✓	✓	✓	✓	✓	711000
"1" F/F check valve(required for domestic boiler back-up only)	-	✓	-	-	-	710118
Thorix ÉVOLUTION 1C - 1 mixed circuit + exterior sensor 2 <sup>nd</sup> circuit at a lower temperature	✓	✓	✓	✓	✓	411002
Thorix ÉVOLUTION - 2C - 1 direct circuit + 1 mixed circuit + exterior sensor - 2 <sup>nd</sup> circuit at a lower temperature	✓	✓	✓	✓	✓	411003
KD 10 - Backflow prevention kit	✓	✓	✓	✓	-	710014
Auto 25-125-130 hydro line	-	-	-	-	✓	755823
3-way valve flow sensor for Z1	-	-	-	-	✓	710158
Electric back-up 6kW (230/400 V)	-	-	-	-	✓	754105
All flue connections	-	-	-	✓	-	(not supplied)

\*Compatible with all non-chrono-proportional connectable thermostats on the market.

## Hydraulic accessories

Product name	Part number
3/4" filter valve	710124
1" filter valve	710125
1" 1/4 filter valve	710132

# WARRANTY

## Heat pumps

### Case 1

The installer sends back to us:

- The warranty certificate

Heat pumps	Parts	Labour
DHW tank <sup>(1)</sup>	3 years	0
Compressor	2 years	0
Electrical control equipment	2 years	0

<sup>(1)</sup> When combined with Control unit DSI70 D

Years	1	2	3	4	5
DHW tank					
Compressor					
Electrical control equipment					
Labour					

In the event of failure to return the warranty certificate, from the date of manufacture of the appliance, the warranty shall take effect a maximum of 6 months after dispatch of our product from our factories.

### Case 2

The installer sends back to us:

- The warranty certificate
- Commissioning form
- Photos of the installation
- The USB operating file <sup>(2)</sup>

Subject to acceptance of commissioning requirements by Intuis.

**5 year** warranty  
**COMPRESSOR**

Heat pumps	Parts	Labour
DHW tank <sup>(1)</sup>	3 years	0
Compressor	5 years	0
Electrical control equipment	2 years	0

<sup>(1)</sup> When combined with Control unit DSI70 D

<sup>(2)</sup> optional

Years	1	2	3	4	5
DHW tank					
Compressor					
Electrical control equipment					
Labour					

### Case 3

The approved technical centre sends back to us:

- The warranty certificate
- Commissioning form
- Photos of the installation
- The USB operating file <sup>(2)</sup>

Subject to acceptance of commissioning requirements by Intuis.

**5 year** warranty  
**COMPRESSOR**

Heat pumps	Parts	Labour
DHW tank <sup>(1)</sup>	5 years	0
Compressor	5 years	0
Electrical control equipment	5 years	1 year

<sup>(1)</sup> When combined with Control unit DSI70 D

<sup>(2)</sup> optional

Years	1	2	3	4	5
DHW tank					
Compressor					
Electrical control equipment					
Labour					

## Technical conditions for commissioning systems

### The installer and user must be present during commissioning.

The equipment must be installed in accordance with the technical installation manual for the appliance.  
In particular, the following work must be carried out by the installer before commissioning :

- Hydraulic and electrical installation and connection,
- Boiler connected to the control unit (hydraulic, electrical and control),
- Hydraulic circuits cleaned, rinsed and put in water,
- Hydraulic circuits treated against sludge, corrosion, and freezing (in accordance with the manufacturer's specifications),
- Hydraulic circuits purged,
- The filters upstream of the heat pump are set up,
- The devices (heat pump, hydro-electronic control unit, sensors...) are electrically connected,
- Connection of the back-up control (if not integrated in the control unit),
- Condensate drained from the connected heat pump,
- For all mono heat pumps, it is mandatory to check the compatibility of your electricity distribution network.

This check is the responsibility of the installer or the customer. The conformity request form is available on our website [www.auer.fr](http://www.auer.fr) under "Heat pumps". Any non-conformity will invalidate the guarantee.

Commissioning can only take place once all these operations have been completed. If commissioning cannot be carried out (due to unfinished work, non-compliant installation, lack of power, unsafe access to equipment, etc.), this service will be billed to the customer in addition to the commissioning fee.

### Commissioning includes

- Checking:
  - the minimum clearances around equipment,
  - the type of electrical voltage,
  - the electrical connections (in compliance with standard NF C 15-100),
  - the electrical protection,
  - the hydraulic connections between the heat pump and the hydroelectronic control unit,
  - the heating, DHW and/or swimming pool circuits,
  - the presence of the filter on the water return to the heat pump,
  - the cleanliness and corrosion inhibitor treatment of the heat transfer fluid in the heater circuit and its glycol content,
  - the circuit seals (excluding the refrigeration circuit),
  - the expansion tank volume,
  - the condensate connection and drainage.
- Checking that the heat pump is operating correctly, including measuring the temperatures of the various water modes,
- Setting the operating parameters to suit the user's requirements and the type of heating system (radiators, underfloor heating, etc.),
- A full demonstration to the user of the customisable functions available (excluding factory settings or those restricted to after-sales service),
- Return to the manufacturer (by e-mail or post) of the completed warranty certificate and commissioning report,
- Travel by the Approved Technical Centre within a 30 km radius (additional kilometres will be charged).

### Does not include

- Fitting accessories (lift pump, heating elements, etc.),
- All additional installation work (parts and labour).

### Commissioning heat pumps

Type of appliance	Part number
HRC <sup>70</sup> and HTi <sup>70</sup> (domestic)	MSPU
HTi <sup>70</sup> Gas Hybrid	MSPU

Commissioning charges are not subject to any discount. The commissioning service will be billed to the applicant by the Approved Technical Centre.





## THERMODYNAMIC WATER HEATERS

Edel Air

Edel Water

Cylia 250

## DOMESTIC HOT WATER TANKS

Domestic tanks

Tertiary tanks



# EDEL AIR

The revolutionary thermodynamic water heater that uses air.



Edel 200 AIR  
Floor

Edel 270 AIR  
Floor

NOT SUBJECT  
to F-GAS  
regulations



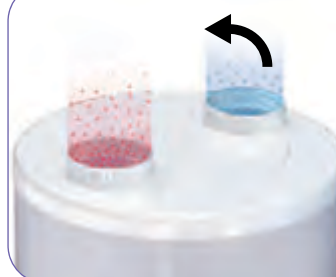
*"Take advantage of free energy from the surrounding air to heat domestic water"*

## Oversize means overconsumption!

- 200 or 270L floor version
- 100 or 150L wall-mounted version

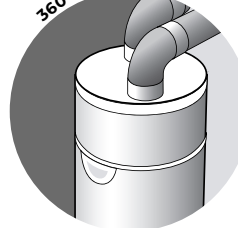


DHW



- Air connection up to 12 m with insulated semi-rigid ducts Ø 160

360° rotatable



- 360° rotatable air inlet and outlet nozzles.
- Practical and easy to use accessories: insulated semi-rigid pipe corners and ducts, assembly fittings, external outlet nozzle and fixing clamps.

## High performance

- Very wide range: 100, 150, 200 or 270L.
- Floor, wall or tripod mounted, depending on capacity.
- Designed to last, with a stainless steel tank and innovative anti-limescale technology<sup>(1)</sup>.
- Uses an environmentally-friendly fluid with no greenhouse effect.
- Up to 80% free energy for DHW<sup>(2)</sup>.
- COP up to 3.19 (at 7°C/55°C).

## Major innovation

- Heat exchanger with very high heat transfer. This provides gentle heat, prevents limescale build-up and therefore improves the lifespan of the heater.

## Ecological and economical

- Edel is the most energy-efficient solution for both new build and renovation projects, meeting all your needs with unbeatable comfort.
- It is so quiet, you can even install it in your living space.
- It consumes only 250 W on average. This reduces the power used overall and therefore reduces energy bill costs.

<sup>(1)</sup> 200L and 270L - <sup>(2)</sup> air at 15°C / water at 55 °C

## Reduce consumption with an appropriately sized water heat pump

Edel uses the heat in the air to produce DHW using its integrated heat pump. It consumes up to 5 times less energy than a conventional electric water heater, saving you money.

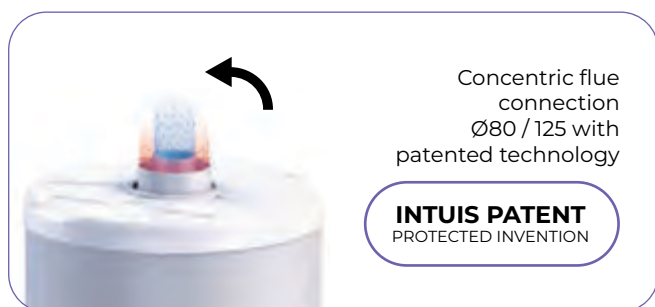
- Air inlet and outlet are grouped in a 360° rotatable concentric flue with various shapes and extensions.
- A wide range of flues and accessories for all kinds of installations.



**Edel 100 AIR**  
Wall-mounted



**Edel 150 AIR**  
Wall Mounted



Tank volume	Number of showers* (morning + evening)	Number of baths* (evening)
Edel 100L AIR - Wall-mounted	3 + 3	
Edel 150L AIR - Wall-mounted	3 + 2	OR 1
Edel 200L AIR - Floor	5 + 3	OR 2
Edel 270L AIR - Floor	6 + 3	OR 2

\* Indicative data in addition to household usage, based on typical standard hot water heating. To take full advantage of the Edel's performance, it is important not to connect it to off-peak/on-peak contracts.

### Edel 270 AIR DE

Has a heat exchanger for connection to a boiler or solar backup.



### Edel AIR Floor

- ▶ Lightweight and compact
- ▶ 630 mm diameter
- ▶ Low height:
  - Edel 200L: 1.46 m
  - Edel 270L: 1.78 m
- ▶ Transport bag supplied as standard



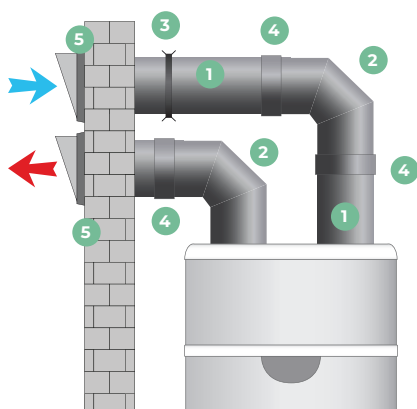
## Thermodynamic water heaters

Product name	NF	Energy class	ETAS (pumping cycle)	COP	Exchanger	Electric back-up	Dimensions Empty weight	Circuit breaker curve D	Insulated casing diameter	PN
<b>Edel Mural</b> (palletised in sets of 4)										
Edel 100 AIR*	✓	A	99% (M)	2,38	-	1000W	Ø520 x H1290 47kg	6A	Ø80/ 125 mm	353210
Edel 150 AIR*	✓	A+	104% (M)	2,5	-	1000W	Ø520 x H1660 57.5kg	6A	Ø80/ 125 mm	353211
<b>Edel Floor</b>										
Edel 200 AIR D/2 (integrated adjustable feet, 0 to 25 mm)	✓	A+	132% (L)	3,19	-	1200W	Ø630 x H1460 55kg	8A	Ø160	353420
Edel 270 AIR D/2 (integrated adjustable feet, 0 to 25 mm)	✓	A+	130% (L)	3,14	-	1200W	Ø630 x H1780 63kg	8A	Ø160	353430
Edel 270 AIR DE/2 with boiler exchanger (integrated adjustable feet, 0 to 25 mm)	✓	A+	125% (L)	3	0.8m <sup>2</sup> 20 kW	1200W	Ø630 x H1780 68kg	8A	Ø160	353431

\* Only the mounting brackets are supplied as standard; wall mounting plates are optional. See accessories on page 86.

# EDEL AIR

## Accessories and connections



### Edel AIR Floor Accessories

Product name	PN
1 Insulated semi-rigid duct Ø160 int - length 2 m	730011
2 Insulated 90° elbow Ø160 int	730012
3 Wall mounting brackets - set of 2 - Ø160 int	730013
4 Assembly connector for insulated duct - per 2 - Ø160 int	730014
5 Horizontal stainless steel terminal for insulated duct	730015
6 Flexible silencer Ø160 int F/F	730050

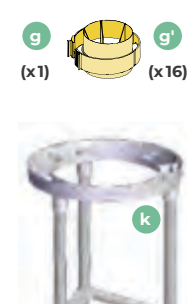
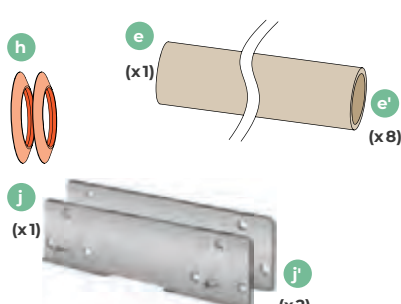
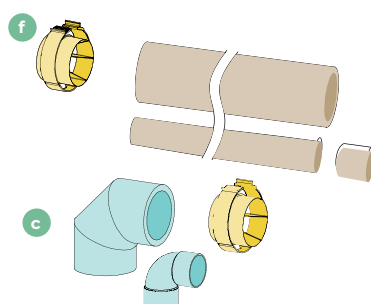
NB: 3 adjustable feet supplied as standard (from 0 to 25 mm)



### Edel AIR Wall-mounted Accessories

Product name	Qty	PN
<b>a</b> Ø80/125 insulated flue		
1 - PVC elbow Ø80 - M/F	6 - insulated extension Ø125, length 150 mm	
2 - Ø125 sleeve	7 - pipe cover plate	
3 - Ø80 flexible duct	8 - clamp (x2)	1 730072
4 - half tee Ø125 (x2)	9 - flue nose	
5 - tee cap	10 - external seal	
▲ Ø80 and Ø125 pipes not supplied for connection.		
<b>b</b> Ø80/125 > 150mm insulated flue		
1 - PVC elbow Ø80 - M/F	6 - insulated extension Ø125, length 850 mm	
2 - sleeve Ø125	7 - pipe cover plate	
3 - Ø80 flexible duct	8 - clamp (x2)	1 730073
4 - half tee Ø125 (x2)	9 - flue nose	
5 - tee cap	10 - external seal	
▲ Ø80 and Ø125 pipes not supplied for connection.		
<b>c</b> Insulated 90° elbow Ø80/125		
- insulated elbow Ø125		
- assembly connection		
- PVC elbow Ø80 - F/F		
<b>d</b> Insulated 45° elbow Ø80/125		
- insulated elbow Ø125		
- assembly connection		
- PVC elbow Ø80 - F/F		
<b>e</b> 1 insulated extension Ø125 int. length 2 m	1	730001
<b>e'</b> 8 insulated extensions Ø125 int. length 2 m	8	730002

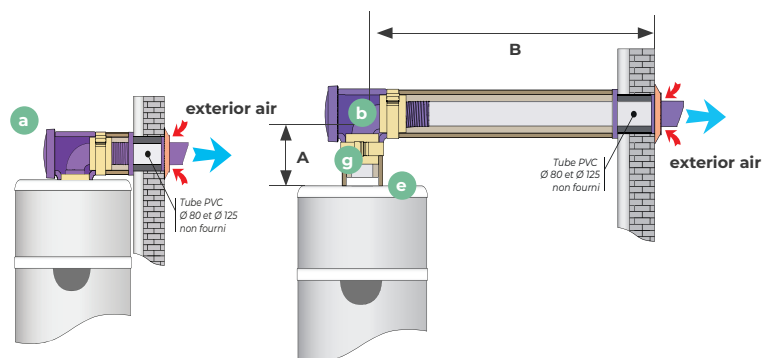
Product name	Qty	PN
<b>f</b> Insulated extension Ø80/125 length 2 m Ø125		
- insulated extension		
- Ø80 PVC pipe	1	730064
- assembly connector for insulated duct Ø125		
- Ø80 PVC assembly connector		
<b>g</b> 1 assembly connector for insulated duct Ø125	1	730044
<b>g'</b> 16 assembly connectors for insulated duct Ø125	16	730069
<b>h</b> 2 wall seals Ø80	2	730006
<b>i</b> 1 wall mounting bracket Ø125	1	730066
<b>j</b> 1 wall mounting plate (for Edel 100)	1	730017
<b>j'</b> Wall mounting plate (for Edel 150)	2	730018
<b>k</b> Adjustable tripod for CET 100/150 L PEJ 120 and Onix 100/150L	1	730016
Ø80 PVC pipe (central pipe)	Contact your distributor	
Ø125 PVC pipe (wall feed-through)	Contact your distributor	
<b>l</b> Vertical terminal 1 m Ø80/125 (see next page)		
- vertical exhaust terminal		
- 25 to 50° seal	1	710167
- sealing plate		
- clamp		
<b>m</b> Terminal Ø80 (see next page)	included	
<b>n</b> PVC connector Ø80 F/F	Contact your distributor	
<b>o</b> PVC elbow Ø80 F/F	Contact your distributor	
<b>e</b> 1 insulated extension Ø125 int. length 2 m	1	730001
<b>e'</b> 8 insulated extensions Ø125 int. length 2 m	8	730002



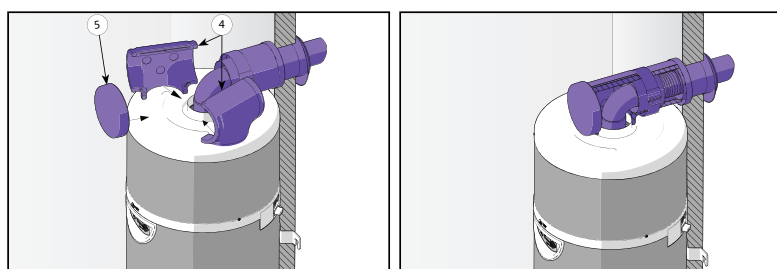
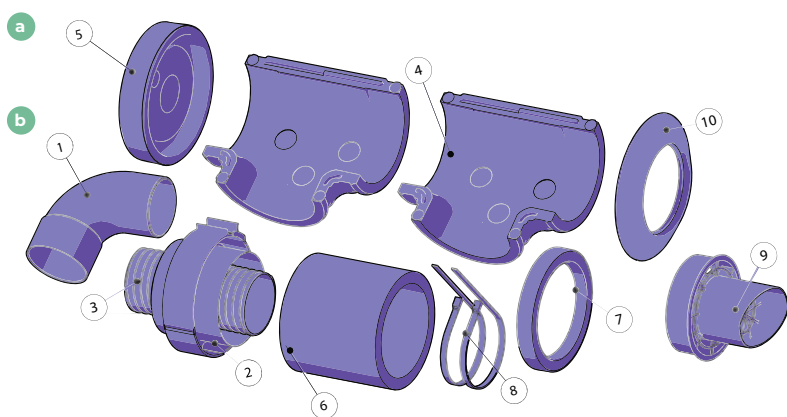
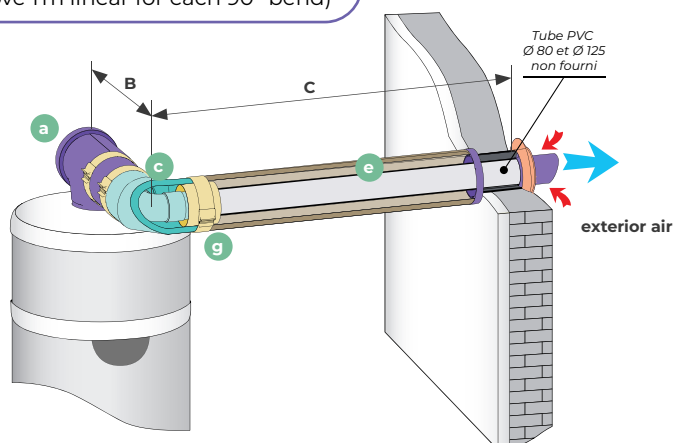
# EDEL AIR

## Connection configuration

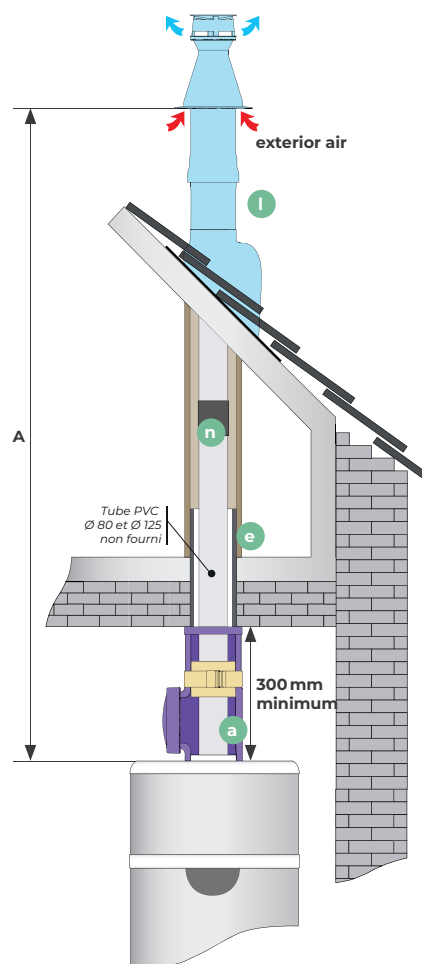
### Horizontal flue



**A + B + C = 5m max**  
(remove 1m linear for each 90° bend)

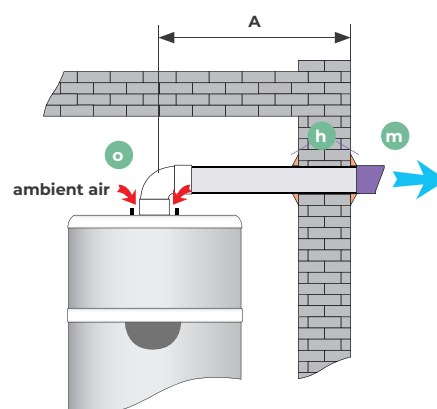


### Vertical flue



### Mixed connection

Ambient air intake  
Outside air outlet





# EDEL WATER

Thermodynamic water heater on water loop.



Edel 150 WATER  
Wall Mounted

Edel 200 WATER  
Floor

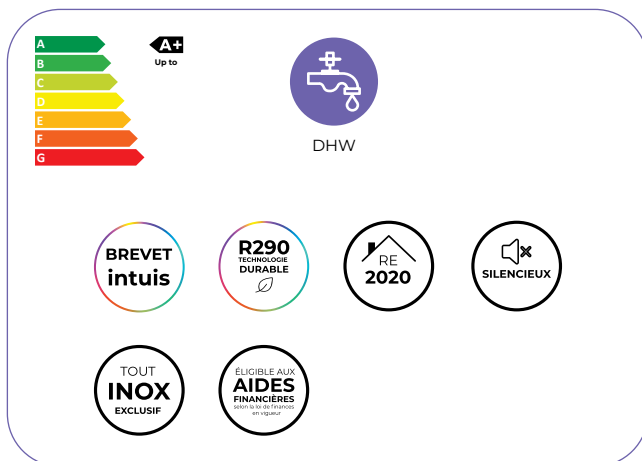
Edel 270 WATER  
Floor

Adjustable feet supplied as standard  
(from 0 to 25mm)



## Thermodynamic water heater on water loop that

- Recovers heat from underfloor heating/cooling returns
- Has anti-limescale innovation
- Has 4 operating modes (eco, comfort, turbo, holiday).



## High performance

- 150L wall-mounted or tripod-mounted 200L and 270L floor-standing (adjustable feet supplied as standard).
- Designed to last, with a stainless steel tank and innovative anti-limescale technology<sup>(1)</sup>.
- Simple to install, just one hydraulic connection.
- Can be positioned close to water drawing points in a heated room.
- High performance: COP up to 4.3<sup>(2)</sup>.
- Incomparably quiet <34 dB(A) at 2 metres.
- Coaxial heat exchanger for optimum performance, reduces sludge.

## Major innovation

- Heat exchanger with very high heat transfer. 100% aluminium, its asymmetrical micro-channels guarantee perfect contact with the tank and an unequalled heating quality.

## Ecological and economical

- Exceptional thermal and acoustic performance.
- No air duct: just a hydraulic connection for complete freedom of installation in the home.
- Up to 60% more economical than a dual-service heat pump.

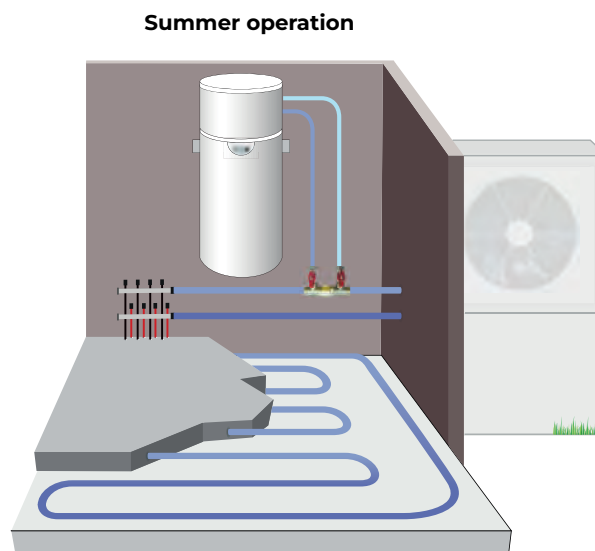
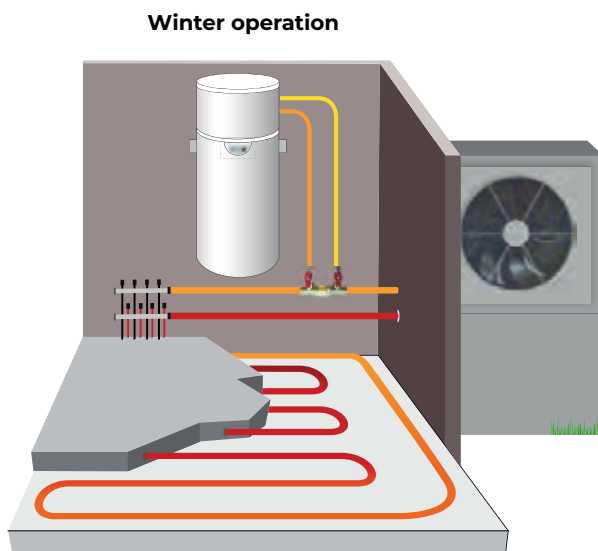
## Reduce consumption with an appropriately sized water heat pump

Tank volume	Number of showers* (morning + evening)	Number of baths* (evening)
Edel 150L WATER - Wall Mounted	3 + 2	OR 1
Edel 200L WATER - Floor	5 + 3	OR 2
Edel 270L WATER - Floor	6 + 3	OR 2

\* Indicative data in addition to household usage, based on typical standard hot water heating. To take full advantage of the Edel's performance, it is important not to connect it to off-peak/on-peak contracts.

<sup>(1)</sup> 200L and 270L.

<sup>(2)</sup> Depending on the model



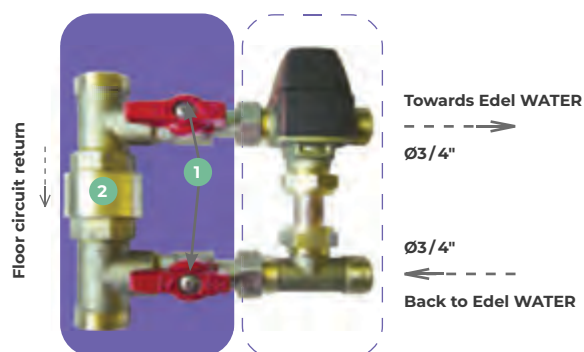
### In winter

Edel WATER draws free energy from the outside air via the generator that supplies the underfloor heating system to produce water at 60°C.

Note: depending on the water heat pump model, a minimum floor area is required: 150L: 60m<sup>2</sup>/200L: 90m<sup>2</sup>/270L: 100m<sup>2</sup>

### In summer

The free heat drawn from the underfloor heating system is returned to the domestic hot water while cooling your home with an exceptional COP of up to 4.3<sup>(2)</sup>.



- 1 - Manual shut-off valves  
2 - Check valve

### Bypass module included

### Limitless installation options.

Possibility of connecting a mixing valve for primary circuit >35°C for hydraulic bypass module (optional).

— Included  
- - - Optional

**COP**  
up to  
4,3<sup>(2)</sup>

## Thermodynamic water heaters

Product name	NF	Energy class	SEER (pumping cycle)	COP	Back-up elec.	Dimensions empty weight	Circuit breaker curve D	Part number
<b>EDEL WALL MOUNTED</b>								
Edel 150 WATER/3	In progress	A+	160% (M)	3,77	1000W	Ø520 x H1618 57,5kg	6A	352231
<b>EDEL FLOOR</b>								
Edel 200 WATER/3*	In progress	A+	179% (M)	4,17	1200W	Ø630 x H1412 46kg	8A	352421
Edel 270 WATER/3*	In progress	A+	179% (L)	4,26	1200W	Ø630 x H1732 54kg	8A	352431

\* 3 adjustable feet supplied as standard on the Edel Floor (from 0 to 25mm)

# CYLIA 250

Air-source hot water heater.

## Ecological and economical 250-litre floor-standing air-source water heater

- Guaranteed 2 years parts, 5 years tank
- Optimum volume to meet the needs of a family of up to 6 people
- Very intuitive interface



Up to **€450 SAVING / YEAR\***  
for a family with 2 children  
(200L/d on average)

Up to **75 % FREE ENERGY**  
taken from the air to  
heat domestic hot water

### High performance

- The ideal replacement for a conventional electric water heater: all you need is a simple DHW and electrical connection.
- All the benefits of renewable energy:
  - Eligible for government support
  - Improves the energy efficiency of your home
  - Better for the planet
- The end of over-consuming water heaters! Cylia reduces electricity consumption for your DHW.
- Treat yourself to Class A+ by replacing your old electric water heater.

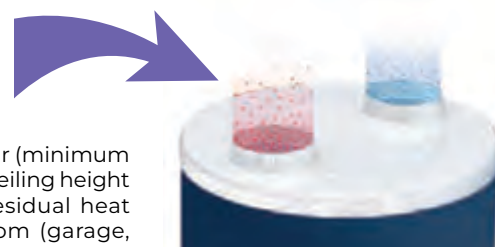
### Practical

- Cylia 250 has the optimum volume to meet the needs of a family of up to 6 people.
- Very compact, complete and ready to use.
- Easy to install, it comes with a transport strap.

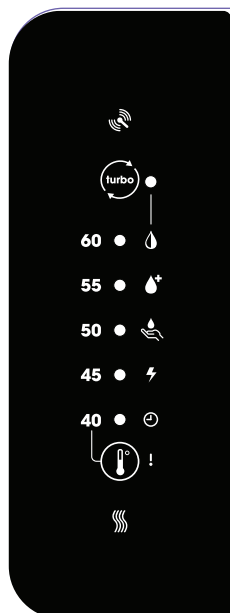
\* With an electric tank with a COP of 1 and a kWh rate of 0.18 cents, the bill comes to €687/year. The Cylia has a COP of 3.2, so annual consumption is Q/3.2=1193kWh/year or €214/year, which equates to savings of around €473/year (687-214).



Can be linked if necessary, up to a maximum of 2 metres per outlet (1 m + 1 90° elbow)



Operates on ambient air (minimum air volume: 40m<sup>3</sup> for a ceiling height of 2.50m). Recovers residual heat from an unheated room (garage, workshop, cellar, etc.)



## TOUCH SCREEN SIMPLE AND INTUITIVE

**6 functions:**

- Eco
- Comfort
- Comfort +
- Turbo
- All electric
- Anti-legionella

Can be controlled by an external timer

Product name	Energy class & SEER 35°/55°C	Materials	Electric connection (standard)	Dimensions	Capacity (L)	PN
<b>CYLIA</b>						
Cylia 250	A <sup>+</sup> <133% (cycle L)	Enamelled steel	1200 W	Ø630 x h 1721 82kg	250	353601

# HEATER TANKS

Domestic tanks

## Vertical and floor-standing DHW heating tank

- ▶ Stainless steel tank
- ▶ Coil heat exchanger in stainless steel.
- ▶ Guaranteed 2 years parts, 3 years tank



DHW



conforms to EU Community regulations



PEJ 200

PEJ 270

PEJ 120

## Domestic tanks

Product name	Energy class & SEER 35°/55°C	Dimensions	Power*	Capacity (L)	Part number
<b>Floor-standing or wall-mounted vertical - stainless steel tank</b>					
PEJ 120 (wall-mounted and floor - stainless steel)	C	Ø520 x 1065	29/21	120	341109
PEJ 200 (floor - stainless steel)	C	Ø630 x 1040	29/21	200	341111
PEJ 270 (floor - stainless steel)	C	Ø630 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

## Domestic tank accessories

Product name	Part number
3/4" DHW thermostatic mixing valve	769003
DHW / pool / cascade sensor	710029
2 wall-mounting plates (for PEJ 120 only)	730018
Adjustable tripod for Edel / Onix / wall-mounted PEJ (for PEJ 120 only)	730016

## Authorised pairings\* DHW pre-heaters with coil exchangers / HTi<sup>70</sup> and HRC<sup>70</sup> heat pumps

DHW pre-heater	Capacity V (litres)	Q Primary nominal Qprim (m³/h)	Heat exchanger capacity at Tprim = 65°C, TEFS = 10°C, TECS = 40°C (kW)	Heat pump power at Text = +20°C T start = 65°C (kW)								
				HTi <sup>70</sup> 6	HTi <sup>70</sup> 8	HTi <sup>70</sup> 11	HTi <sup>70</sup> 14	HRC <sup>70</sup> 17 (3 floors)	HRC <sup>70</sup> 20 (2 floors)	HRC <sup>70</sup> 25 (3 floors)	"HRC <sup>70</sup> 32 (3 floors)"	HRC <sup>70</sup> 40 (2 floors)
PEJ	200	1,5	21									
	270	1,5	29									
DSI70 D	170	1,5	24									
VS	300	3,0	33									
	500	3,0	62									
	750	3,0	83									
	1000	3,0	103									
	1500	3,0	108									
	2000	4,0	120									
	2500	4,0	139									
	3000	4,0	139									

Key: ■ Impossible combination ■ Possible combinations ■ Can be combined but long recharge time

\* The exchanger capacity at 65°C must represent at least 90% of the heat pump capacity at Text = + 20°C and Tstart = 65°C.

NOTE: the limiting power = that of the generator (not that of the heat exchanger).



# HEATER TANKS

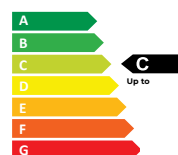
Tertiary tanks



VS 300 to 3000

## VS tank

- The bigger exchanger improves heat pump performance.
- Large range up to 3,000L
- Reinforced M1 insulation at the ends of the tank
- Also available in a low profile version and M4 insulation (ask your intuis representative).



DHW



conforms to EU Community regulations



## Tertiary tanks

Product name		Energy class	Dimensions	Power*	Capacity (L)	Part number
VS 300L RM1 TP - with 150 mm raised feet (floor - enamelled)	100mm M1-rated flexible casing	C	Ø900 x 1500	45/33	300	342148
VS 500L RM1 TP - with 150 mm raised feet (floor - enamelled)		C	Ø900 x 1950	85/62	500	342149
VS 750 RM1 TP - with 150mm raised feet.		N/A	Ø990 x 1925	114/83	750	342150
VS 1000 RM1 TP - with 150mm raised feet.		N/A	Ø990 x 2280	141/103	1000	342151
VS 1500 RM1 TP - with 200mm raised feet.	Enamelled tank	N/A	Ø1300 x 2110	148/108	1500	342152
VS 2000 RM1 TP - with 200mm raised feet.		N/A	Ø1300 x 2295	165/120	2000	342153
VS 2500 RM1 TP - with 200mm raised feet.	Supplied without thermowell	N/A	Ø1600 x 2165	190/139	2500	342154
VS 3000 RM1 TP - with 200mm raised feet.		N/A	Ø1600 x 2295	190/139	3000	342155

\*Primary 80°/65°C - secondary 10-40°C.

N/A: Not subject to energy rating.

## Accessories for tertiary tanks

Product name	Part number
3kW electric back-up - 230V for VS 300 to 500 RM1 TP	732054
6 kW electric back-up - 400V for BRS 500 heater tank	732049
9kW electric back-up - 400V for VS 750 RM1 TP	732050
15 kW electric back-up - 400V for VS 750 to 2000 RM1 TP	732051
9kW electric back-up - 400V for VS 750 to 3000 RM1 TP	732052
Thermowell 1/2" length 300mm for VS 750 to 3000 RM1 TP / Onix	732053
DHW / pool / cascade sensor	710029



# ELECTRIC BOILERS

Gialix (electric)



# GIALIX

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



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

## Durability, simplicity and efficiency

- Carefully selected components and an intelligent design make this a completely reliable, whisper-quiet boiler.



"Cast iron for the most efficient electric boiler."

## Gialix electric boiler 6 to 24kW\*

Product name	Energy class & SEER	Power adjustable by configuring the settings (kW)	Voltage	Minimum cross-section of power cable (mm²)	Protective circuit breaker (A)	External sensor	DHW sensor	Part number
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### Wall-mounted electric boilers for new buildings and small homes

#### Electronic control with external sensor

Gialix 6 MT single-phase*	D	2-4-6	230V-single-phase	6	32	optional	optional	132632
Gialix 12 MT single-phase*	D	2-4-6-8-10-12	230V-single-phase	16	63	optional	optional	132631
Gialix 12 MT three-phase*	D	2-4-6-8-10-12	400V-three-phase	4	25	optional	optional	132636
Gialix 16 MT three-phase*	D	2.7-5.3-8-10.7-13.3-16	400V-three-phase	6	32	optional	optional	132637
Gialix 24 MA three-phase*	D	4, 8, 12, 16, 20, 24	400V-three-phase	10	50	optional	optional	132645

Product name	Energy class & SEER	Power adjustable by configuring the settings (kW)	Voltage	Minimum cross-section of power cable (mm²)	Protective circuit breaker (A)	External sensor	DHW sensor	Part number
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### Electric boiler hydraulically equipped for 2 underfloor heating and/or radiator circuits

#### Electronic control and electrical power modulation

Gialix 12 MT mono 2C Confort+ 2 circuits	D	(2x) (2-4-6)	230V-single-phase	16	63	as standard (x2)	optional (x2)	132635
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\* DHW cylinder not included: this Gialix boiler needs to be supplemented with a tank and a DHW sensor if you wish to produce DHW (see page 92)

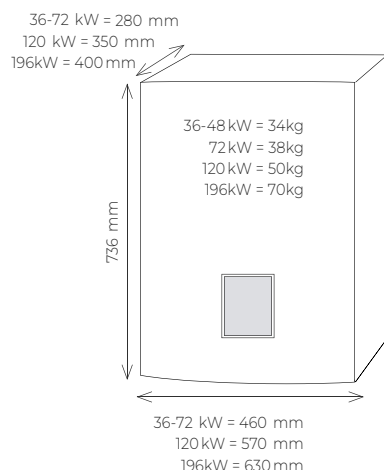
# GIALIX

The modulating wall-mounted electric boiler with cast iron heating element.

**Designed for collective and commercial buildings**

- Radiators
- Floors
- Air heaters
- DHW

**Collective DHW with plate heat exchanger or heater tank**



## Gialix electric boiler 36 - 196kW

Product name	Energy class & SEER	Power adjustable by configuring the settings (kW)	Voltage	Minimum cross-section of power cable (mm²)	Protective circuit breaker (A)	Part number
<b>Wall-mounted tertiary electric boilers - not hydraulically equipped (steel heating element)</b>						
<b>Electronic control with external sensor</b>						
Gialix 36 MA three-phase	D	24 - 36	400V-three-phase	16	80	131417
Gialix 48 MA three-phase	D	36 - 48	400V-three-phase	25	100	131418
Gialix 72 MA three-phase	N/A	48 - 72	400V-three-phase	35	125	131419
Gialix 120 MA three-phase	N/A	96 - 120	400V-three-phase	70	250	131420
Gialix 196 MA three-phase	N/A	140 - 196	400V-three-phase	120	400	131423

N/A: Not subject to energy rating.

## Gialix MOBILE

Product name	Energy class & SEER	Power adjustable by configuring the settings (kW)	Voltage	Minimum cross-section of power cable (mm²)	Protective circuit breaker (A)	Part number
<b>Mobile electric boiler for professional use only</b>						
Gialix MOBILE	n/a	2-4-6-8-10-12	230V-single 400V-three-phase	16 4	63 25	132643



Multi-voltage Gialix 12kW ready to connect, with reduced dimensions and weight, with castors and handle for easy transport and handling.

## Gialix accessories

Product name	Part number
TA - Room thermostat	710043
TH - Room thermostat with timer	710044
TH RNC/2 radio - Non chrono-proportional wireless room thermostat.	770001
External sensor (for Gialix MA, MT and mobile)	710157

Product name	Part number
Spacer backplate for Gialix 6 to 24kW (except Gialix MOBILE)	710217
KD 10 - Backflow prevention kit	710014
Spring-return 3-way directional valve for heating and DHW 1" (for Gialix 6 to 24kW)	710098
DHW/Pool/Cascade sensor for Gialix MA/MT (except Gialix MOBILE)	710029
Domestic hot water tanks	





## DOCUMENTATION & PRESENTATIONS

List per part number  
General terms and  
conditions of sale



# List by product part number

PN	Product name
131417	Gialix 36 MA three-phase
131418	Gialix 48 MA three-phase
131419	Gialix 72 MA three-phase
131420	Gialix 120 MA three-phase
131423	Gialix 196 MA three-phase
132631	Gialix 12 MT single-phase
132632	Gialix 6 MT single-phase
132635	Gialix 12 MT single-phase 2C Confort+
132636	Gialix 12 MT three-phase
132637	Gialix 16 MT three-phase
132643	Gialix MOBILE
132645	Gialix 24 MA three-phase
151431	HRC <sup>70</sup> 17kW /3 single-phase PREMIUM+
151432	HRC <sup>70</sup> 17kW /3 single-phase DSI70 D /40
151436	HRC <sup>70</sup> 17kW /3 three-phase PREMIUM+
151437	HRC <sup>70</sup> 17kW /3 three-phase DSI70 D /40
151446	HRC <sup>70</sup> 20kW /3 three-phase PREMIUM+
151447	HRC <sup>70</sup> 20kW /3 three-phase DSI70 D /40
151448	HRC <sup>70</sup> 40kW three-phase Z1 Cascade
151451	HRC <sup>70</sup> 25kW /3 three-phase PREMIUM+
151452	HRC <sup>70</sup> 20kW /3 three-phase DSI70 D /40
151453	HRC <sup>70</sup> 50kW three-phase Z1 Cascade
151456	HRC <sup>70</sup> 75kW three-phase Z1 Cascade
151461	HRC <sup>70</sup> 32kW three-phase Z1
151462	HRC <sup>70</sup> 64kW three-phase Z1 Cascade
151463	HRC <sup>70</sup> 96kW three-phase Z1 Cascade
151471	HRC <sup>70</sup> 40kW three-phase Z1
155004	HTi <sup>70</sup> 6kW single-phase DSI70 D
155006	HTi <sup>70</sup> 6kW single-phase PREMIUM+
155008	HTi <sup>70</sup> 6kW single-phase GAS HYBRID

PN	Product name
155009	HTi <sup>70</sup> 6kW single-phase ORIUM
155014	HTi <sup>70</sup> 8kW single-phase DSI70 D
155016	HTi <sup>70</sup> 8kW single-phase PREMIUM+
155018	HTi <sup>70</sup> 8kW single-phase GAS HYBRID
155019	HTi <sup>70</sup> 8kW single-phase ORIUM
155024	HTi <sup>70</sup> 11kW single-phase DSI70 D /40
155026	HTi <sup>70</sup> 11kW single-phase PREMIUM+
155028	HTi <sup>70</sup> 11kW single-phase GAS HYBRID
155034	HTi <sup>70</sup> 14kW single-phase DSI70 D /40
155036	HTi <sup>70</sup> 14kW single-phase PREMIUM+
155038	HTi <sup>70</sup> 14kW single-phase GAS HYBRID
155054	HTi <sup>70</sup> 8kW three-phase DSI70 D
155056	HTi <sup>70</sup> 8kW three-phase PREMIUM+
155058	HTi <sup>70</sup> 8kW three-phase GAS HYBRID
155059	HTi <sup>70</sup> 8kW three-phase ORIUM
155064	HTi <sup>70</sup> 11kW three-phase DSI70 D /40
155066	HTi <sup>70</sup> 11kW three-phase PREMIUM+
155068	HTi <sup>70</sup> 11kW three-phase GAS HYBRID
155074	HTi <sup>70</sup> 14kW three DSI70 D /40
155076	HTi <sup>70</sup> 14kW three PREMIUM+
155078	HTi <sup>70</sup> 14kW three-phase GAS HYBRID
211100	MV 212 Modulgaz + flue Ø90mm
211101	MV 220 Modulgaz + flue Ø90mm
211102	MV 230 Modulgaz + flue Ø120mm
211103	MV 240 Modulgaz + flue Ø150mm
211116	MV 260 Modulgaz + flue Ø150mm

PN	Product name
211150	Dulcis B1000 Modulgaz + flue Ø90mm
211152	Dulcis B1500 Modulgaz + flue Ø90mm
212100	3105 Ø nozzle 97mm
212101	3107 Ø nozzle 97mm
212114	MC 430 Ø nozzle 83mm
212130	5207 white Ø nozzle 97mm
212131	5208 white Ø nozzle 97mm
212132	5210 white Ø 97mm nozzle
212141	6207 white Ø nozzle 97mm
212142	6208 white Ø nozzle 97mm
212143	6210 white Ø nozzle 97mm
341106	PEJ 270
341109	PEJ 120
341111	PEJ 200
342148	VS 300 RM1 TP
342149	VS 500 RM1 TP
342150	VS 750 RM1 TP
342151	VS 1000 RM1 TP
342152	VS 1500 RM1 TP
342153	VS 2000 RM1 TP
342154	VS 2500 RM1 TP
342155	VS 3000 RM1 TP
352231	Edel 150 WATER /3
352421	Edel 200 WATER /3
352431	Edel 270 WATER /3
353210	Edel 100 AIR
353211	Edel 150 AIR
353420	Edel 200 AIR D/2
353430	Edel 270 AIR D/2
353431	Edel 270 AIR DE/2
353601	Cylia 250
411002	"Thorix ÉVOLUTION 1C + exterior sensor".
411003	"Thorix ÉVOLUTION 2C + exterior sensor".
422316	Onix 100 CF8 MSR /2
422317	Onix 200 CF8 MSR /2

PN	Product name
710014	KD 10 - Backflow prevention kit
710029	DHW/Pool/Cascade sensor
710043	TA - Room thermostat
710044	TH - Room thermostat with timer
710070	1m extension Ø60/100
710071	0.5m extension Ø60/100
710072	90° elbow Ø60/100
710073	2 45° elbows Ø60/100
710095	Clamp Ø60/100
710098	Spring-return 3-way directional valve for heating and DHW 1" (for Gialix 6 to 24kW)
710111	Manual reset 65°C underfloor heating temperature limiter
710118	1" F/F check valve
710124	3/4" filter valve
710125	1" filter valve
710132	1"1/4 filter valve
710157	External sensor
710158	V3V flow sensor for Z1
710167	Vertical terminal 1m Ø80/125
710217	Spacer backplate for Gialix 6 to 24kW (except Gialix MOBILE)
710400	"1m Ø60/100 horizontal terminal + 90° flanged elbow"
710401	Ø60/100 flange adapter
710402	"1m Ø60/100 vertical terminal +seal +sealing plate +flange adapter"
710404	Adapter kit Ø60/100 to Ø80/125
711000	High-capacity 1 1/4 filtration kit for HTi70 6/8kW
721100	Flue guard for MV and Dulcis
721101	1m flue for MV 212/220
721102	1m flue for MV 230
721104	1m flue for MV 240
721105	2 Adaptable feet for MV 230/240

PN	Product name
721106	Locked access for MC/MV
721120	TR25 transformer
721121	17.6x40 RW 350 Ohms resistor
721125	Solenoid valve for MC/MV (except MV 260)
721200	Solenoid valve for 3100/5200/6200 range
722110	Vertical outlet for MC 430
730001	1 Insulated extension Ø125 int length 2m
730002	8 Insulated extensions Ø125 int length 2m
730006	2 Wall seals Ø80
730011	Insulated semi-rigid duct Ø160 int length 2m
730012	Insulated 90° elbow Ø160 int
730013	2 Wall mounting brackets
730014	2 Assembly connectors for insulated duct Ø160 int
730015	Horizontal stainless steel terminal for insulated duct
730016	Adjustable tripod for wall-mounted Edel/Onix/PEJ
730017	1 Wall mounting plate for Edel 100L
730018	2 Wall mounting plates for Edel 150L
730044	1 Assembly connector for insulated duct Ø125
730045	Insulated 45° elbow Ø80/125
730050	Flexible silencer Ø160 int F/F
730064	Insulated extension Ø80/125 length 2m
730066	Wall mounting bracket Ø125
730067	Insulated 90° elbow Ø80/125
730069	16 Assembly connectors for insulated duct Ø125
730072	Ø80/125 insulated flue
730073	Ø80/125 <150mm insulated flue
730078	Modbus kit - CET/Heat pump
732050	"9kW electric back-up - 400V for VS 750 RM1 TP"

PN	Product name
732051	"15 kW electric back-up 400V for VS 750 to 2000 RM1 TP"
732052	"30kW electric back-up 400V for VS 750 to 3000 RM1 TP"
732053	"Thermowell 1/2" length 300mm for VS 750 to 3000 RM1 TP / Onix"
732054	"3kW electric back-up - 230V for VS 300 to 500 RM1 TP"
740022	Motorised 2-way valve for direct circuit
741003	Adjustable tripod for Onix 40
751004	External defrosting cable for HRC70.
751009	Room sensor with display
752202	Aquastat
753102	2 core armoured cable, 20m
753105	2nd circuit with identical temperature kit for Premium+.
754101	External defrosting cable for HTi70.
754103	2 core armoured cable, 50m
754105	"6kW electric back-up -230V/400V for Z1"
754207	40m DN25 durite hose for HTi70 6/8kW
754208	40m DN30 durite hose for HTi70 11/14kW and HRC70
754209	4 DN25 tube connectors for HTi70 6/8kW
754210	4 DN30 tube connectors for HTi70 11/14kW and HRC70
754211	PREMIUM+ 2nd circuit kit by Thorix EVOLUTION 1C
754300	Adjustable hygrostat for cooling mode
754600	12cm adjustable riser for HTi70
754601	Ground fixing kit for HTi70 11/14kW
754602	ORIUM cooling kit
755823	Auto 25-125-130 hydraulic line
769003	3/4" DHW thermostatic mixing valve



# General Terms and Conditions of Sale 2023

These general terms and conditions of sale (hereinafter the "Terms and Conditions of Sale" or "T&Cs") govern the contractual relationship between Société Industrielle Auer, with a share capital of 5,280,000.00 euros, having its registered office at 28, rue de Verdun, 92150 Suresnes, registered in the Paris Trade and Companies Register under number 722 041 845 (hereinafter the "Seller") and its customers (hereinafter the "Buyer") for the sale of heating, ventilation and domestic hot water products and equipment for residential or tertiary use (hereinafter the "Products").

Société Industrielle Auer (Siret 39488599000017) has been allocated the unique identification number FR007574\_05FGX4 by ADEME, certifying its inclusion in the register of EEE manufacturers, in accordance with article L.541-10-13 of the French Environmental Code.

This identification number is proof of the company's compliance with its obligation to appear on the register of manufacturers of electrical and electronic equipment (EEE) and submitting its product launch notifications to ecosystem.

## 1. GENERAL - CATALOGUE - OFFERS - ORDERING - PRODUCTS

**1.1.** All information in writing or in the form of illustrations, diagrams or photographs, relating in particular to the layout, shape, size, material of the Products, and the prices, appearing in the catalogue or any other communication medium of the Seller, are provided for informational purposes only and are not binding on the Seller.

**1.2.** Offers made by the Seller are valid for a period of one (1) month, after which the Buyer may no longer place an order at the prices offered by the Seller.

**1.3.** Any order placed or sent to the Seller necessarily implies, as an essential and determining condition, the Buyer's unreserved acceptance of the T&Cs and waiver of their own general terms and conditions of purchase. The T&Cs take precedence over any of the Buyer's general or specific purchasing conditions and/or over any printed or handwritten provisions included in any of the Buyer's commercial documents, whether these documents and/or conditions were sent to the Seller before or after the Buyer's receipt of the T&Cs. Only special clauses duly approved in writing by the Seller may derogate from this.

**1.4.** The Seller is only bound by any commitments made by its representatives or employees subject to written confirmation.

**1.5.** All orders must be placed by the Buyer in writing, including by e-mail or electronic data interchange (hereinafter, "EDI"), and must include the exact name and part number of the Product, the quantity and, where applicable, if the Buyer wishes the Seller to arrange Transport, the Delivery Location of the Products within the meaning of Article 2.2, the base price in accordance with the price list and any purchase price negotiated with the Seller. When an order is placed based on a quotation or proposal from the Seller, the reference of this quotation or proposal must be indicated in the order. On receipt of an order, if the Seller accepts it, they will confirm the order in writing, including by email or EDI, by means of an order acknowledgement which will include the part number, name, quantity, one of the Delivery locations within the meaning of article 2.2, depending on whether or not Transport is to be provided by the Seller, the estimated Delivery date and the price of the Products, which results in the formation of a contract between the parties.

**1.6.** The first order placed by a Buyer results in the creation of a customer account by the Seller. At this stage, the Seller will examine the Buyer's solvency, in particular with his credit insurer. The Buyer is then informed of the level of credit the Seller can extend to the Buyer, based on the Buyer's creditworthiness.

**1.7.** The Seller reserves the right to refuse an order, particularly if one or more previous orders have not been paid for by the due date, if the amount of the order exceeds the Buyer's available credit, or if the Seller has reason to believe the Buyer may have difficulty making payment, and to confirmation the order subject to the Buyer providing accounting, financial and legal documents and, where applicable, guarantees. In the aforementioned cases, the Seller also reserves the right to demand full or partial payment of the price of the Products at the time the order is confirmed. Finally, in the event that, after the Seller confirms the order, they are informed by their credit insurer of a deterioration in the Buyer's solvency leading to a reduction in the amount of credit available to an amount below the value of the order, the Seller then reserves the right to amend the payment terms initially agreed and to request from the Buyer either an advance payment or the provision of a guarantee, which the Buyer accepts.

**1.8.** All orders confirmed by the Seller are firm and final.

**1.9.** The Seller reserves the right to modify certain Products or to stop manufacturing them without prior notice and at any time.

**1.10.** The Products sold are accompanied by the necessary instructions for use in accordance with legal and regulatory requirements. They are intended for installation in private and residential premises. The Products comply with the Seller's specifications, directives and standards in effect, provided that they are installed and used in accordance with their intended purpose and the applicable standards.

**1.11.** Once the Products have been installed, and provided that they have been installed in mainland France, the Seller may use an approved technical centre to commission the Products, subject to the Seller's express agreement. Commissioning is not included in the price of the Products and is invoiced separately.

## 2. TRANSPORT - DELIVERY - CUSTOMS

**2.1.** Transport, including all operations relating to collection, shipment, customs, carriage and insurance relating to transport (hereinafter "Transport") to the destination of the Products is carried out either by the Buyer or, at the Buyer's request at the time of the order, by the Seller.

**2.2.** Delivery shall be deemed to have taken place on the following dates (hereinafter the "Delivery"): if the Transport is carried out by the Buyer, delivery shall be deemed to have taken place as soon as the Products are made available to the Buyer at the Seller's factory or depot; if the Transport is carried out by the Seller, delivery shall be deemed to have taken place when the Products arrive at the destination indicated by the Buyer in the order, ready to be unloaded by the Buyer.

**2.3.** Where the Transport is carried out by the Buyer, the transfer of risk takes place on the date of Delivery of the Products to the Seller's factory or depot. Transport is then carried out at the Buyer's risk and expense. Additional costs may be invoiced to the Buyer in the event of a delay in collecting the Products from the Delivery location.

**2.4.** When, at the Buyer's request, Transport is carried out by the Seller, the transfer of risk takes place on the date of Delivery of the Products to the destination indicated by the Buyer in the order, ready to be unloaded by the Buyer. The Buyer is responsible for unloading the Products and undertakes to have the equipment and human resources required to handle and unload the Products at their destination. If, on arrival at the destination, the Buyer does not have the necessary means for handling and unloading the Products, the Seller may invoice the Buyer for any additional costs caused by this incapacity, and in particular the costs of return transport of the Products, the costs of rescheduling a shipment, the additional time required to access the site, the use of the Seller's staff, etc. Moreover, any return transport, rescheduled transport of the Products and/or any storage of the Products shall be at the sole risk of the Buyer.

**2.5.** Transport costs shall be borne exclusively by the Seller, unless the total invoiced amount of the Products is less than €3,000 excluding tax per shipment. In this case, the Buyer will be billed a flat-rate transport charge of €90 excluding VAT.

**2.6.** Delivery times refer to the time between the date of the order acknowledgement and the Delivery date as defined in article 2.2 above, as applicable. Delivery dates quoted are indicative only, as they may be affected by unforeseen circumstances during the production process. They are updated when the order is placed and are stated on the order acknowledgement or on any other document for informational purposes only. Should the Seller exceed the delivery dates, the Buyer shall under no circumstances have the right to cancel all or part of the order or to refuse the Products to which the order relates. The Seller shall not be held liable for them, nor shall they give rise to any withholding, compensation, penalties or damages of any kind.

**2.7.** The Products are sold packaged ready to be collected, loaded and transported.

**2.8.** It is the Buyer's responsibility to check the Products as soon as they are delivered, in accordance with article 2.2 of the T&Cs, to raise any issues with the carrier and, if necessary, to take any action against the carrier in accordance with article 4 of the T&Cs below.

**2.9.** The weight of each Product does not include packaging. Any special packaging will be invoiced separately.



# General Terms and Conditions of Sale 2023

**2.10.** For sales abroad and to French overseas departments and territories, the Buyer undertakes to send the duly signed transport document to the Seller.

## 3. PRICES - PAYMENT TERMS

**3.1.** The prices of the Products are those in effect at the time the order is placed, unless expressly agreed otherwise in the order acknowledgement or any other subsequent document expressly accepted by the Seller.

**3.2.** Where Transport is carried out by the Seller, prices are carriage paid (Transport costs to be borne by the Seller) and are stated, in accordance with the provisions of Article 9 of the T&Cs, exclusive of tax, French eco tax and handling costs for collection or dispatch from our warehouses (3% in addition to the price excluding VAT). However, if the total invoiced value of the Products is less than €3,000 excluding tax per shipment, a flat-rate charge of €90 excluding tax will be invoiced to the Buyer for carriage.

**3.3.** Where Transport is carried out by the Buyer, prices are ex works (Transport costs to be borne by the Buyer) and are stated, in accordance with the provisions of Article 9 of the T&Cs, exclusive of tax, French eco tax and handling for collection or dispatch from our warehouses (3% in addition to the price excluding VAT).

**3.4.** The Products sold are invoiced on the date they leave the Seller's factory or warehouse.

**3.5.** No discount will be granted for early payment.

**3.6.** Unless otherwise agreed in writing between the Parties and without prejudice to the provisions of this Article, invoices are payable by bank transfer within thirty (30) days of the invoice date. However, under the circumstances referred to in article 1.7 of the T&Cs, the Seller reserves the right to modify the payment terms initially agreed and to require the Buyer either to pay for the order in advance or to provide a guarantee, which the Buyer accepts.

**3.7.** Any delay in payment will result in the Buyer being invoiced late payment interest due to the Seller, equal to the current refinancing rate of the European Central Bank plus ten points. Recovery costs will be added to these amounts. Any total or partial non-fulfilment by the Buyer of their payment obligations will result in the addition of a flat-rate €40 fee for collection costs as provided for in article D 441-5 of the French Commercial Code, unless such are higher, and without prejudice to any damages.

**3.8.** Payment terms may not be extended and any complaint about the quality of a Product shall not affect the payment thereof, unless expressly agreed otherwise by the Seller. In any event, payment may only be withheld in respect of the invoiced value of the parts in question.

**3.9.** In the event of non-payment in full of an invoice that has fallen due, and after formal notice has remained without effect for 48 hours, the Seller reserves the right to suspend/cancel any Delivery and/or Carriage of any current and/or future order and to demand immediate payment of all outstanding debts.

**3.10.** No invoice or payment owed by the Buyer to the Seller may be offset at the sole initiative of the Buyer against any claim which the Buyer may have or may believe to have against the Seller, in particular in the event of an allegation by the Buyer of late delivery or non-conformity of the Products delivered, the prior written agreement of the Seller being absolutely

essential, regardless of any provisions to the contrary which may appear in the Buyer's terms and conditions of purchase. Any such compensation not authorised by the Seller will be treated as a payment default, in which case the Seller will be entitled to refuse any new orders, or even to stop Deliveries relating to orders in progress.

## 4. COMPLAINTS

**4.1.** In order to be accepted, complaints about the composition, quantity and weight of the Products delivered or any non-conformity with the dispatch note must be made in the following form and within the following time limits. If Delivery is made to the destination indicated by the Buyer in the order, the Buyer must note the complaint on the carrier's delivery note when the Products arrive at their destination and confirm this complaint by sending a registered letter with acknowledgement of receipt to the Seller within 72 hours of Delivery, without prejudice to the measures to be taken with regard to the carrier within 72 hours in accordance with the provisions of Article L. 133-3 of the French Commercial Code. Complaints must be detailed and accompanied by photos. Any claim not submitted in the aforementioned form and timeframe will not be accepted. Should Delivery take place by the Products being made available at the Seller's factory or warehouse, no complaint will be accepted.

**4.2.** No returned Products will be accepted without the Seller's prior written agreement to the principle of the return, as well as to its financial and operational terms.

**4.3.** No complaint by the Buyer may result in the modification or suspension of the payment due, in accordance with the provisions of article 3 of the T&Cs.

## 5. RETENTION OF OWNERSHIP

**5.1.** The Seller shall retain ownership of the Products sold until the price of the Products and any accessories has been paid in full. Any clause to the contrary, particularly one contained in any general terms and conditions of purchase, is deemed to be unwritten. Failure to pay any of the amounts when due may result in the Products being recovered on first request and without prior formal notice, without prejudice to any damages and/or the right to suspend any other order in progress. In the event of non-payment and/or the instigation of insolvency proceedings, the Buyer shall immediately authorise the Seller, at its request, to visit the premises or places where the Products are stored in order to draw up an inventory and, should the Seller deem necessary, to affix a notice to the Products indicating its right of retention. By express agreement, the Seller may exercise its rights under this clause in respect of any receivables it may be entitled to in respect of all Products in the Buyer's possession or recover the price thereof in the event of resale, these being assumed by agreement to be the unpaid Products. All costs relating to the return of the Products shall be borne by the Buyer and shall be added to the amount owed to the Seller. In the event of damage to the recovered Products, the Seller shall be entitled to request payment of compensation to cover the cost of repair or the value of the damaged Product.

Once the Products have been returned or recovered, the Seller may resell them. The proceeds of such sale will be deducted from the sums still owed by the Buyer, including the costs of recovering or repairing the goods. By express agreement, the value of the recovered goods within the meaning of Article 2371 of the French Civil Code shall be determined by reference to the resale

price (excluding tax) of the Product, as obtained by the Seller. If this price exceeds the amount of the sums still owed by the Buyer, the Seller will refund the Buyer a sum equal to the difference.

**5.2.** Without prejudice to the above, the Buyer assumes the risk of loss or deterioration of the Products as well as liability for any damage they may cause, from the date of Delivery within the meaning of article 2.2.

## 6. WARRANTY

**6.1.** The warranty is strictly limited to the free replacement, at the Seller's discretion, of the part(s) of the Product found to be defective or to the factory repair of such part(s). It also includes the return transport of the Products to the Seller. The warranty excludes all labour costs (such as, in particular, those relating to the recovery, dismantling and reassembly of the Product or the defective part(s)), as well as any compensation for damages.

**6.2.** Any return of parts is subject to the prior written agreement of the Seller, after diagnosis by the Buyer. As soon as the Seller agrees to the return of the defective part(s), the same must be sent by the Buyer, together with the customer complaint form duly completed by the Buyer, to be received in the Seller's factories within fifteen (15) days of the Seller's agreement. After this time, the Buyer will no longer be covered by the warranty for the part(s) concerned. Returned parts are transported at the Buyer's risk.

**6.3.** Defective parts are defined as parts with a manufacturing defect. The warranty can only be exercised in respect of Products that have been subject to normal use in the conditions for which they are intended, and in accordance with the instructions for use and user manuals accompanying the Products. The warranty is not applicable in the event of unforeseen circumstances or force majeure, nor in respect of replacements or repairs resulting from normal wear and tear of the Products, deterioration or accidents caused by the negligence or fault of the Buyer or any third party, alterations to the Products, faulty installation, supervision, maintenance or storage and abnormal use or use that does not comply with the Seller's instructions.

**6.4.** The Products are guaranteed for the period shown in the Product price list in effect on the date of the order, starting from the date on which the Product is commissioned, as stated on the guarantee certificate which the Buyer must return to the Seller within two (2) weeks following the date on which the Product is commissioned. If it is not possible to establish the date on which the Product was commissioned, the warranty period will begin no later than six (6) months after the date of manufacture of the Product (as indicated on the identification label on the Product).

**6.5.** Repairs and replacements carried out under the warranty do not result in a new warranty period beginning and do not extend the original warranty.

**6.6.** Spare parts essential to the use of the Product will be available for ten (10) years from the date of manufacture of the Product.

**6.7.** In the event that the Buyer wishes to extend the duration or application of the warranties with respect to the warranty granted by the Seller under the terms of the T&Cs, when reselling the Products to its customers, or that such extension of the warranty with respect to its customers stems from legal provisions that apply to its obligations towards its customers, it

# General Terms and Conditions of Sale 2023

shall do so at its sole risk and responsibility. In this event, the Buyer undertakes (i) not to claim any warranty from the Seller in excess of that provided for in the T&Cs, (ii) to indemnify the Seller and hold it harmless for any compensation (including legal fees and court costs) that they may be ordered to pay and for any damages they may suffer as a result of the extended warranty granted by the Buyer to its customers.

**6.8.** The warranty provided under the terms of the T&Cs and those provided by law are the only warranties offered by the Seller to the Buyer.

## 7. LIABILITY

**7.1.** The Seller's liability is strictly limited to the obligations set out in the T&Cs. The Seller is only liable for direct material damage resulting from faults caused by the Seller. As a result, the Seller is not obliged to compensate for any consequential injury or damage suffered by the Buyer or any third party resulting from a breach by the Buyer or a third party or from non-compliance with contractual or legal obligations relating in particular to a lack of care, upkeep, storage or maintenance of the Products or to incorrect installation/use of the Products or of the installations in which these Products are fitted or resulting from acts of wilful damage or vandalism. In any event, the Seller's liability shall not exceed the amount of the Buyer's order from which the event arose.

**7.2.** The commissioning service provided by the Seller and invoiced to the Buyer is limited to starting up the Products once they have been installed by the Buyer or any third party. A report is drawn up following commissioning. The Seller, who does not carry out the installation, cannot be held responsible for any malfunction that may occur after commissioning, the report of which indicates that it has been carried out successfully. Nor shall the Seller be held liable for inadequate sizing or inappropriate use on the grounds that it has carried out the commissioning.

**7.3.** The Seller is also not liable for damage caused to movable or immovable property which the Buyer does not use primarily for his personal use or private consumption, in accordance with article 1245-14 of the French Civil Code.

**7.4.** Any action against the Seller is time-barred on expiry of a period of one year from the event giving rise to the action for damages.

**7.5.** Under no circumstances will the Seller be liable to the Buyer or any third party for any consequential or indirect loss or damage such as, but not limited to, loss of profit, loss of business, loss of commercial opportunity, increased overheads or lower savings than expected, even if such loss or damage was foreseeable.

**7.6.** The Seller declines any and all other express or implied liability, including but not limited to liability for saleability, fitness for a particular purpose, or results obtained from the use of the Products.

**7.7.** Any service and/or technical advice and/or documentation of any nature whatsoever provided by the Seller at any time to the Buyer, whether orally or in writing, shall be offered by the Seller in good faith, on a commercial basis.

**7.8.** Any presentation by the Seller to the Buyer, at the latter's request, of an installation company to fit the Products, will be made by the Seller on a commercial basis, the final choice of installation company being made by and under the sole responsibility of the Buyer. Consequently, the Seller shall not be held liable for any errors made by the Buyer

and/or the installation company chosen by the Buyer when fitting the Products.

**7.9.** All of the above: (i) in no way releases the Buyer from its obligation to check/validate and/or have checked/validated by any competent professional of its choice any service/technical advice/documentation provided by the Seller as well as the suitability of the Products sold for the end uses/purposes and/or conversion for which they are intended, the Buyer being solely responsible for the end use/purpose and/or conversion of the Products; (ii) does not in any way relieve the Buyer and/or the installation company chosen by the Buyer of its responsibility for all inspections to be carried out in accordance with its obligations as a contractor; (iii) does not under any circumstances give the Seller any capacity whatsoever as project owner for design and/or implementation, and/or as a manufacturer, and/or as a technical inspector.

## 8. FORCE MAJEURE / UNFORESEEN CIRCUMSTANCES

**8.1.** Neither party shall incur any liability whatsoever if it is prevented or delayed from carrying out its obligations due to force majeure, under the conditions set out in this article.

**8.2.** Force majeure is any event beyond the control of the party failing to fulfil its obligation, which could not reasonably have been foreseen at the time the order was confirmed, the effects of which cannot be avoided by taking appropriate measures, and which prevents the party in question from fulfilling its obligation.

**8.3.** By express agreement, it is agreed that the following cases in particular constitute force majeure within the meaning of this article, without it being necessary to demonstrate their unforeseeable nature: industrial disputes, intervention by civil or military authorities, legislative or regulatory changes, natural disasters, fire, water damage, malfunction or interruption of the telecommunications network or the electricity network, tooling accidents, scrapping of important parts in the course of manufacture, failure or default of a supplier or subcontractor, unavailability of raw materials or energy, interruption or delay in transport or any other cause leading to the total or partial unemployment of the Seller or its suppliers, pandemics or epidemics, population lockdowns, acts of God, acts of terrorism or riots, introduction of legislative or administrative rules prohibiting the manufacture and/or sale of the Products.

**8.4.** Failure to comply with an obligation to pay a sum of money cannot be excused by force majeure.

**8.5.** The fact that one Party is affected by a case of force majeure does not release the other Party from the fulfilment of its own obligations.

**8.6.** Article 1195 paragraph 2 of the French Civil Code does not apply to contracts entered into between the Seller and the Buyer and covered by the T&Cs.

## 9. TAXES AND OTHER CONTRIBUTIONS

**9.1.** Our prices do not include VAT or eco-tax. All orders will be invoiced inclusive of VAT and the French eco-tax applicable on the day of Delivery.

**9.2.** In accordance with articles L. 541-2 and L. 541-10 of the French Environmental Code, as a manufacturer of electrical and electronic appliances, the Seller has joined the ECO-SYSTEMES organisation in order to fulfil its obligations in respect of the collection, disposal and handling of electrical appliances deemed to be

household waste. An eco-tax contribution is shown on the invoice. This eco-tax contribution must be passed on identically by all Buyers to their own customers. It cannot be discounted or reduced.

**9.3.** With regard to electrical waste deemed to be commercial waste, unless otherwise agreed between the parties, the collection, disposal and handling of such waste shall be the responsibility of the Buyer. The above obligations must be transferred from subsequent commercial purchasers to the end user of the Product, on penalty of criminal sanctions.

## 10. SEVERABILITY, WAIVER, ASSIGNMENT AND CHANGE OF CONTROL

**10.1.** The nullity, unenforceability or, more generally, the lack of effect of any one of the provisions of the T&Cs shall not affect any other provision, which shall all remain perfectly valid and binding.

**10.2.** Insofar as possible, the parties agree to replace any ineffective provision with a valid provision having the same effect and reflecting their original intention. If this is not achieved, the provision will be deemed never to have existed.

**10.3.** The waiver by either party of any of these provision from time to time shall not be construed as a permanent waiver by that party of its right to exercise such provision.

**10.4.** The Seller may freely assign all or part of the order(s) entered into with the Buyer. When such transfer is made to a company outside of the Intuis group, the Seller will inform the Buyer within a reasonable period of time. The transfer of the order(s) releases the Seller.

**10.5.** In the event of a change in control of the Buyer, within the meaning of Article L. 233-3 of the French Commercial Code, the Buyer shall inform the Seller in writing without delay. Where such change of control takes place in favour of a company carrying on a business which competes with the activities of the Intuis group, current orders will only be processed subject to the prior written agreement of the Seller.

## 11. INTELLECTUAL PROPERTY RIGHTS

**11.1.** The Buyer undertakes not to convert the Products in any way.

**11.2.** The Buyer expressly acknowledges that the intellectual property rights held by the Seller in respect of the Products and the software used by the Seller, such as, but not limited to, trademarks, trade names, Product names, logos or any other distinctive sign, patents, know-how or trade secrets, are and shall remain the exclusive property of the Seller. Unless expressly stipulated otherwise in this article, the Buyer does not hold any intellectual property rights relating to the Products and software. The Buyer is therefore prohibited from (i) directly or indirectly contesting the validity or ownership of these Intellectual Property rights, (ii) manufacturing the Products or having them manufactured.

**11.3.** The Seller grants the Buyer the right to use the trademarks, trade names and logos owned by the Seller as necessary for the resale of the Products, under the conditions agreed by the Seller. Under no circumstances may such use be considered as the granting of a trademark licence for any other purpose.

**11.4.** The Seller makes no representation and gives no warranty to the Buyer as to the validity of the trademarks and logos granted or as to the fact that they do not infringe (or are not likely to infringe) the

# General Terms and Conditions of Sale 2023

intellectual property rights of third parties. However, it undertakes to use its best efforts, insofar as is legally possible, to try to ensure some protection of the intellectual rights granted.

**11.5.** The Buyer shall not in any way alter the written and visual references to the Seller's trademarks and logos on the Products and accessories and/or on any promotional material. **11.6.** The Buyer is not authorised to use the Seller's trademarks/logos/ trade names as a corporate name or as a component of a corporate name, nor to make any filing or registration in its name, or in the name of any other person, including any trademark filing or any domain name registration, which includes or relates to the trademark. The Buyer undertakes to ensure that no confusion is created in the minds of any person, and in particular in the minds of customers, as to the Buyer's status as a trader independent of the Seller, assuming the risks of his own operation and as to the fact that the trademarks/trade names/logos are the exclusive property of the Seller.

Warranty summary table (in years)

## 12. PRIVACY

**12.1.** Information of any kind, in particular technical, commercial and financial

information, brought to the knowledge of one Party by the other Party, by means of any medium whatsoever, will be subject to the strictest confidentiality. Each Party undertakes to ensure that this obligation of confidentiality is respected by all persons, including its staff, advisors, potential subcontractors and suppliers, to whom the confidential information may be disclosed, such disclosure being made only to enable the smooth completion of the Sale.

**12.2.** The obligation of confidentiality will remain effective for ten (10) years from the delivery of the Product sold.

## 13. APPLICABLE LAW - JURISDICTION - DISPUTES - TIME LIMITATION

**13.1.** The T&Cs and, more generally, the sale of the Products are governed by French law.

**13.2.** Any dispute, controversy or difference of any nature whatsoever arising between the Parties, and relating in particular, without this list being exhaustive, to the validity, interpretation, performance or non-performance of the T&Cs and to sales of the Products, as well as to the relationship between the Buyer and

the Seller under the terms hereof, shall be subject to mediation as a means of amicable settlement prior to referral to the Commercial Court of Paris. This mediation will be regulated by the CMAP mediation rules which the Parties agree to respect (CMAP - <http://www.mediationetarbitrage.com>).

**13.3.** In the absence of an amicable agreement between the parties in the mediation procedure, exclusive jurisdiction over any dispute or litigation is granted to the relevant courts of Paris, notwithstanding multiple defendants or the introduction of third parties, including for protective measures, summary or ex parte proceedings.

**13.4.** Any action or claim by the Buyer arising from the relationship between the Seller and the Buyer in relation to a given year shall be time-barred after a period of two (2) years from the last day of that year.

**13.4.** Any action or claim by the Buyer arising from the relationship between the Seller and the Buyer in relation to a given year shall be time-barred after a period of two years from the last day of that year.

## SOCIÉTÉ INDUSTRIELLE AUER

28 rue de Verdun - 92150 Suresnes - France - Tel. Tel.: 01 53 06 27 77

(S.A.S.) - Capital: €5,280,0000 - Trade Register: PARIS 722 041 845 - SIRET: 722 041 845 00149 - VAT No.: FR 20 722 041 845 - APE Code: 2752Z

Product name	Heating element	DHW tank	Compressor	Electrical equipment
Gialix 6 to 24kW	20	3 <sup>(1)</sup>		2
Heat pumps / units		3 / 5 <sup>(1)(2)</sup>	2 / 5 <sup>(2)</sup>	2 / 5 <sup>(2)</sup>
Domestic hot water tanks		3 <sup>(1)</sup>		2
Thermodynamic water heaters		5 <sup>(3)</sup>		2
Gas radiators	20			2
Onix / Thorix		3		2
Accessories				2

<sup>(1)</sup>For models fitted with a domestic hot water tank.

<sup>(2)</sup>If the heat pump is commissioned by an intuis Approved Technical Centre, the warranty is 5 years for the DHW tank, compressor, electrical equipment and 1 year for labour. Subject to receipt by intuis of the duly completed commissioning form and validation of compliance by intuis services.

<sup>(3)</sup>Meets "NF Performance" label standards.



MORE COMFORT, LESS ENERGY.

**Registered office:**

28 rue de Verdun - 92150 Suresnes - 01 76 31 05 20

**intuis thermodynamique:**

27 rue de la République - 80210 Feuquières-en-Vimeu

Web	Customer service	department	AFTER-SALES SERVICE
<a href="http://www.intuis.fr">www.intuis.fr</a>	03 22 61 21 00	03 22 61 21 01	03 22 61 33 33
<a href="http://www.auer.fr">www.auer.fr</a>	<a href="mailto:standard@groupe-intuis.fr">standard@groupe-intuis.fr</a>	<a href="mailto:adv@groupe-intuis.fr">adv@groupe-intuis.fr</a>	<a href="mailto:sav@groupe-intuis.fr">sav@groupe-intuis.fr</a>