

# **FURIA**

## **R290 Heat Pump Systems**

**DOMESTIC HOT WATER  
HEATING  
COOLING**





## WHAT IS FURIA?

Furia is a heat pump system that uses R290 gas for heating, cooling and the production of domestic hot water.

The system is composed of a monobloc unit, installed outdoor, and an indoor unit dedicated to the production of DHW and the management of the air conditioning system.

# THE COMPLETE FURIA RANGE

## MONOBLOC



### Display included

The entire Furia range includes a 5" color display touchscreen, WI-FI and Bluetooth functions.



**FURIA 6 kW**



**FURIA 8 kW**



**FURIA 12 kW**



**FURIA 18 kW**

## SYSTEMS

### TWR indoor unit

DHW, heating, cooling on 1 zone



**FURIA 6, 8, 12 kW Monobloc**

### TWR 2 indoor unit

DHW, heating, cooling on 2 zones



**FURIA 6, 8, 12 kW Monobloc**

### INW indoor unit

DHW, heating only built-in



**FURIA 6, 8, 12 kW Monobloc**

The monobloc units can be sold individually or in combination with the indoor units (except Furia 18kW). The indoor units can only be sold in combination with the 6, 8, 12 kW monobloc units.





# FURIA IS THE BEST CHOICE

The Furia system can replace traditional boilers, because it reaches temperatures of up to 75°C while maintaining high performance thanks to R290 gas.



## Energy efficiency

The Furia monobloc unit  
it is certified with A+++/A++  
energy classes  
and SCOP up to 5



## Smart

Control your system even  
remotely using the dedicated  
App, available for iOS  
and Android



## Silent

Enjoy your comfort thanks to  
the silence of the monobloc  
43÷54 dB(A) at 1 meter



## Ecological

R290 gas is a refrigerant  
with GWP = 3



## ENVIRONMENT INCENTIVES

Heat pump systems with R290 gas have a very high degree of innovation and efficiency. Many countries provide incentive plans for reducing environmental impact: e.g. to improve energy efficiency, generate thermal energy from renewable sources, bonuses related to the energy requalifications. Check the active incentives within your local and national administrations.

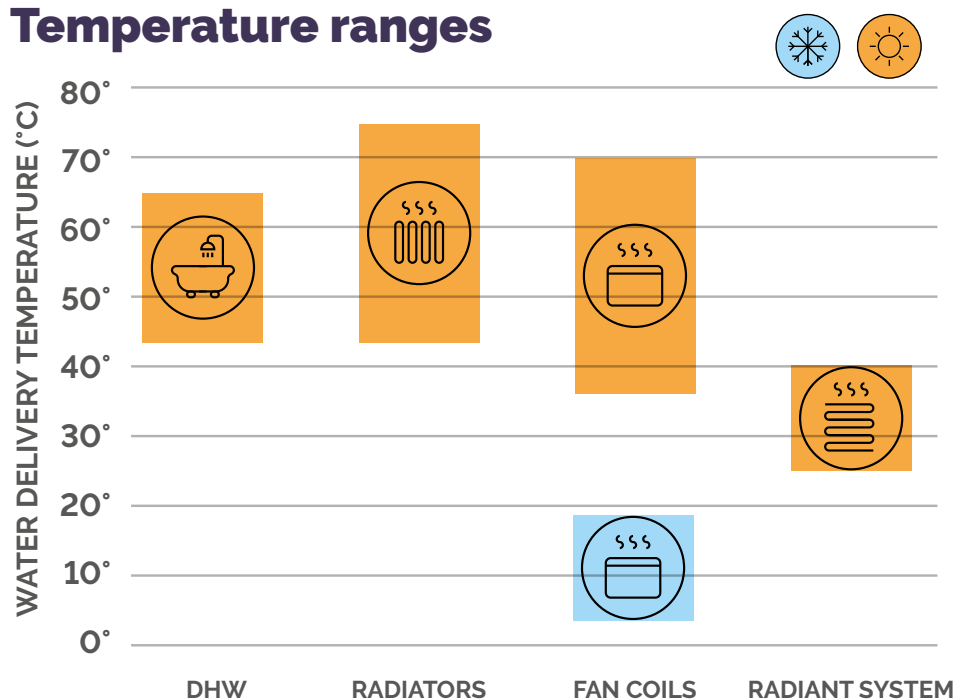


# SUITABLE FOR ANY SYSTEM

## Versatile

- Suitable for all climatic conditions
- Water delivery temperature up to 75°C
- Ideal for renovations
- Suitable for any heating solution
- Cascade installation of up to 8 units
- From the apartment to the condominium

## Temperature ranges



# INSTALLATION METHOD

## □ STAND ALONE

Monobloc unit with free-standing display



## □ FREE-STANDING

Monobloc unit with display integrated into the indoor unit



## □ BUILT-IN

Monobloc unit with built-in internal unit and free-standing display



# FREE START-UP

We believe that quality assistance is the most important aspect in systems dedicated to hot water, heating and cooling. This is why we are committed to providing a top quality assistance service on the entire range of Furia systems through a training program dedicated to assistance centers and widespread distribution throughout the territory.

Start-up is free, and is dedicated to the heat pump and internal units.

The service is offered by one of the authorized Technical Assistance Centers present throughout the territory, which has a direct line with the company's assistance department for any specialist support.

Start-up must be done by the distributor or by a technical assistance center affiliated with the distributor.



# SUSTAINABLE EFFICIENCY

The range of Furia products aims to minimize environmental impact while offering very high level performance, reaching **temperatures of 75°C** on the primary circuit.

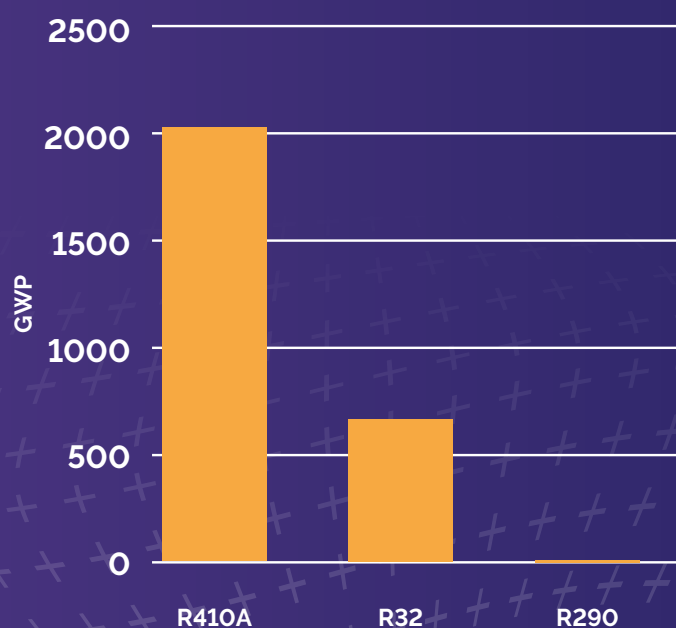
This result is possible thanks to the use of **R290 gas, a natural refrigerant gas with a very low global warming potential (GWP=3)**, compared to traditional gases (R32 GWP=675 and R410A GWP=2088).

R290 gas has thermophysical properties that allow for high efficiency in refrigeration and heating cycles, and the DC inverter motor uses a more accurate regulation system, reducing energy consumption.



## GWP

Global Warming Potential



# REMOTE CONTROL

The display is supplied along with the monobloc and allows you to adjust the system in an easy way. The display is integrated inside the TWR and TWR 2 hydronic units, while it will be wall-mounted with INW unit.

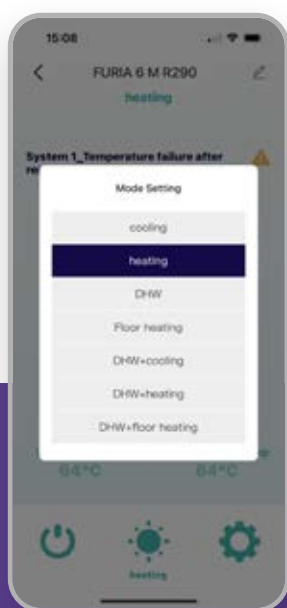
\*The display does not perform the function of a room thermostat.





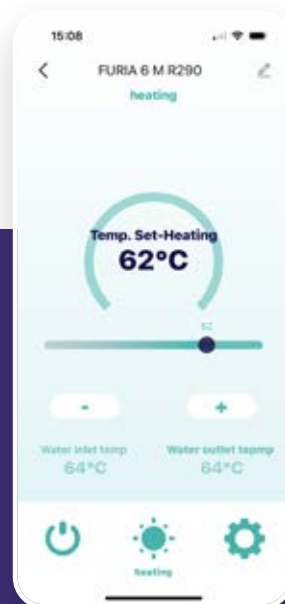


# APP MANAGEMENT



## MODE SETTING

Set the operating mode of your system wherever you are using the appropriate App.



## TEMPERATURE SETTING

Set the operating temperatures of your system wherever you are using the appropriate App available for Android and iOS smartphones.



# Warranty

**The warranty on Furia systems lasts 2 years and begins with the start-up date.** To activate the warranty period, is mandatory to fill the online form on the website: [www.pompadicalorer290.com](http://www.pompadicalorer290.com)

## Assistance centers

The widespread network of Technical Assistance Centers is available to carry out start-up and pre-starting of products and provide support for spare parts.

Start-up must be done by the distributor or by a technical assistance center affiliated with the distributor, available to provide support or spare parts.

## Datasheets available

For any information related to Furia systems, you can contact your local distributor and our sales offices.

The documentation is available on [www.pompadicalorer290.com](http://www.pompadicalorer290.com), such as brochures, user manuals, installation manuals, system schemes and technical drawings.





**FURIA**





## FURIA MONOBLOC UNIT

### MONOBLOC UNIT CODES

Code	Description
844090006X	FURIA 6 M R290
844090007X	FURIA 8 M R290
844090008X	FURIA 12 M R290
844090011X	FURIA 18 T R290



**FURIA 6 kW**



**FURIA 8 kW**



**FURIA 12 kW**



**FURIA 18 kW**



# TECHNICAL SPECIFICATIONS

## MONOBLOC

The monobloc units can be installed in **cascade up to 8 units.**

Model		FURIA 6 M	FURIA 8 M	FURIA 12 M	FURIA 18 T	
Electric data	V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	
Nominal heating (Max) (A7/6,W30/35)	Heating capacity	kW	2.92~9.10	4.10 ~12.10	4.30 ~ 15.20	7.24 ~ 21.90
	Power	kW	0.61~2.11	0.79 ~2.85	0.87 ~ 3.73	1.50 ~ 5.88
	Current	A	2.8~9.25	3.45~13.04	4.02 ~ 16.38	2.82 ~ 9.16
	COP	W/W	4.31 ~ 5.66	4.24 ~ 5.57	4.07 ~ 5.57	3.82 ~ 5.59
Nominal heating (Max) (A7/6,W47/55)	Heating capacity	kW	2.99~8.16	4.05~12.15	4.25 ~ 14.55	6.36 ~ 19.45
	Power	kW	1.03~2.92	1.38~4.06	1.45 ~ 4.28	2.15 ~ 6.85
	Current	A	4.57~12.79	5.73~17.70	6.71 ~ 18.80	3.71 ~ 10.60
	COP	W/W	2.79 ~ 3.46	2.99 ~ 3.45	2.83 ~ 3.45	2.84 ~ 3.57
Nominal cooling (Max) (A35/24,W12/7)	Cooling capacity	kW	1.38~5.70	3.65~8.59	3.65 ~ 11.04	4.55 ~ 17.20
	Input power	kW	0.67~2.44	1.12~3.31	1.12~3.97	1.85 ~ 7.31
	Input current	A	3.06~10.27	5.18~14.47	5.18~17.44	2.99 ~ 11.26
Energy class with water at 35℃		A+++	A+++	A+++	A+++	
Max absorbed power	kW	3.50	5.40	5.40	10.5	
Max absorbed current	A	15.0	25.0	25.0	17.0	
Refrigerant type / Load / GWP	... / kg	R290 / 0.55 / 3	R290 / 1.05 / 3	R290 / 1.05 / 3	R290 / 1.4 / 3	
Water flow	m³/h	100	14	2.06	3.1	
Number of fans		1	1	1	2	
Fan motor type		DC inverter				
Compressor		DC inverter				
Pump		Inverter / Integrated				
IP class		IPX4				
Sound pressure at 1 m	dB(A)	46	43	46	56	
Max water temperature	℃	75	75	75	75	
Hydraulic connections		G1	G1	G1	G1 - 1 / 4	
Max. pressure loss	kPa	20	20	20	55	
Temperature range (heating)	℃	-25~35				
Temperature range (cooling)	℃	15~45				
Size ( L'D'H )	mm	1187*418*805	1287*448*904	1287*448*904	1187*488*1456	
Packaging size ( L'D'H )	mm	1217*463*920	1317*493*1020	1317*493*1020	1217*538*1570	
Net weight	kg	110	134	134	195	
Packaging weight	kg	122	146	146	208	



## TWR & TWR2

Always include:

- ✓ DHW tank
- ✓ Control panel
- ✓ Pump group
- ✓ DHW expansion vessel
- ✓ Inertial tank
- ✓ Recirculation
- ✓ Pump system
- ✓ Polyphosphate dispenser
- ✓ DHW thermostat

## COMPLETE SYSTEMS CODES

The indoor units are always sold in combination with the external units, so each 6-8-12 kW size can be combined with a TWR, TWR2 or INW internal unit.

Code	Description
844130001X	FURIA 6 M R290 TWR
844130002X	FURIA 6 M R290 TWR 2
844130003X	FURIA 6 M R290 INW
844130004X	FURIA 8 M R290 TWR
844130005X	FURIA 8 M R290 TWR 2
844130006X	FURIA 8 M R290 INW
844130007X	FURIA 12 M R290 TWR
844130008X	FURIA 12 M R290 TWR 2
844130009X	FURIA 12 M R290 INW

### Indoor unit TWR



DHW, heating,  
cooling  
on 1 zone

### Indoor unit TWR 2



DHW, heating,  
cooling  
on 2 zones

### Indoor unit INW



DHW,  
only heating  
built-in

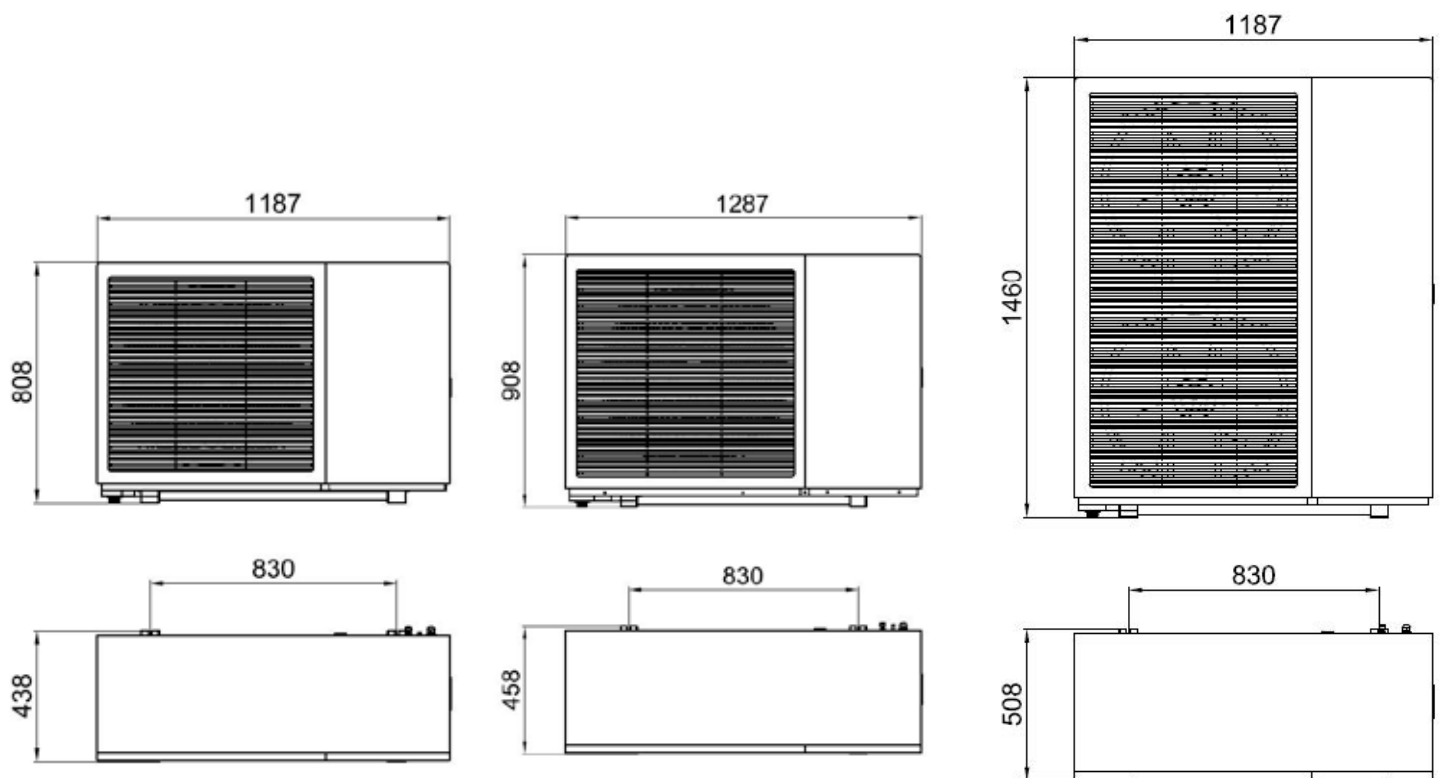
# TECHNICAL SPECIFICATIONS

## INDOOR UNITS



		TWR	TWR2	INW
Brazed heat exchanger with insulation		✓	✓	✓
Insulated copper pipings		✓	✓	✓
Vent valve		✓	✓	✓
Pump on DHW circuit		15/4	15/4	15/4
Safety valve on system side	bar	3	3	3
Inertial tank	L	20	20	20
Adjustable by-pass valve	mca	0 ÷ 0.5	-	0 ÷ 0.5
Optional dirt separator filter		external	external	internal
System expansion vessel	L	7	7	7
DHW enamelled tank	L	185	185	150
Pressure gauge	bar	0 ÷ 6	0 ÷ 6	0 ÷ 6
Electric heating element	W / V / Ph	2000 / 230 / 1	2000 / 230 / 1	optional
DHW expansion vessel	L	8	8	8
Safety and load unit	bar	10	10	7
DHW thermostatic valve	°C	35 ÷ 60	35 ÷ 60	35 ÷ 60
Tank drain valve		✓	✓	✓

# Furia MONOBLOC size

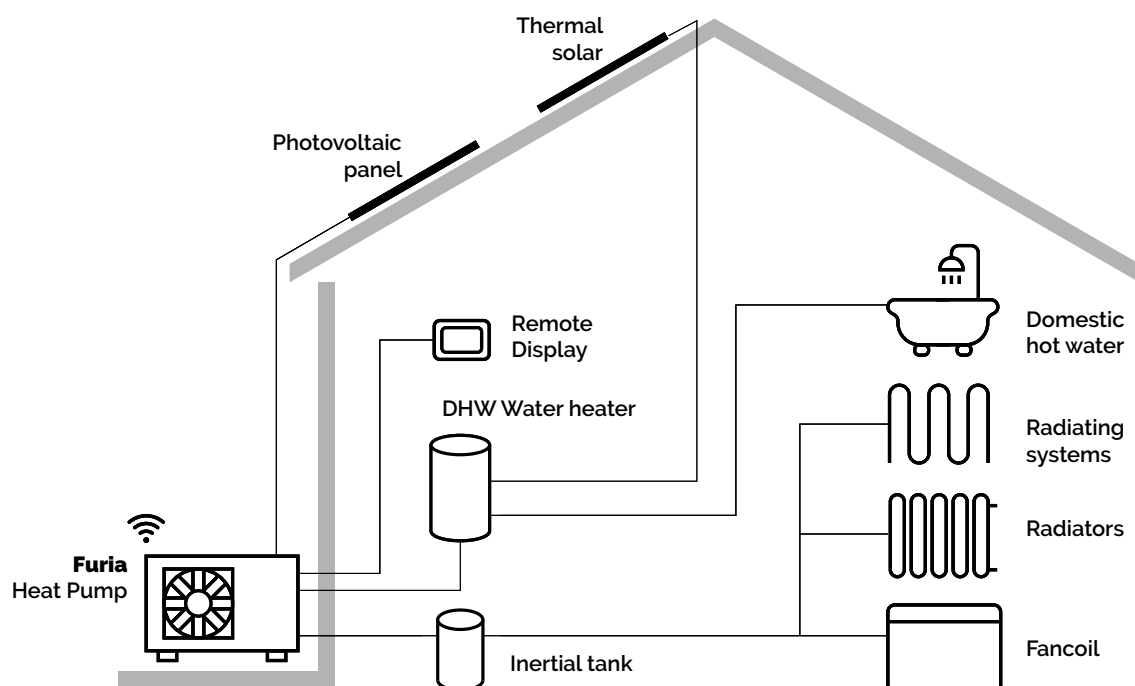


FURIA 6 KW

FURIA 8-12 KW

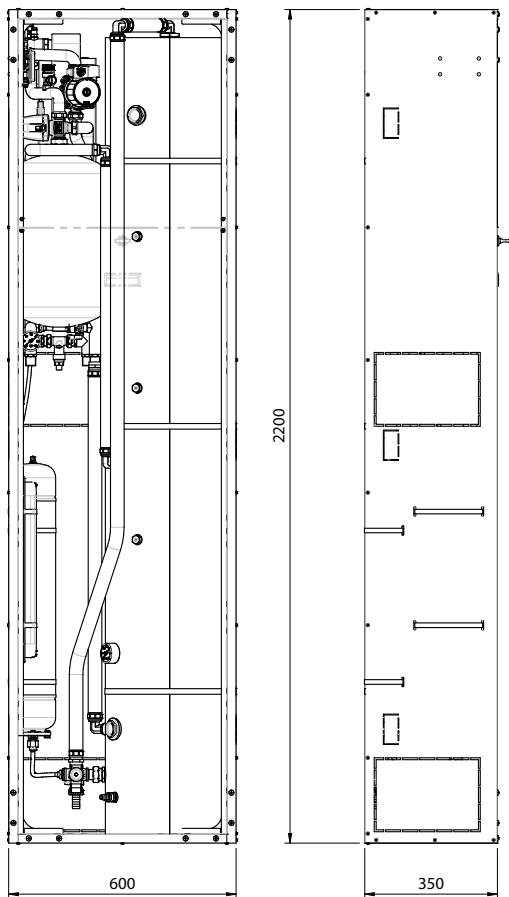
FURIA 18 KW

## MONOBLOC chart





# INW indoor unit size

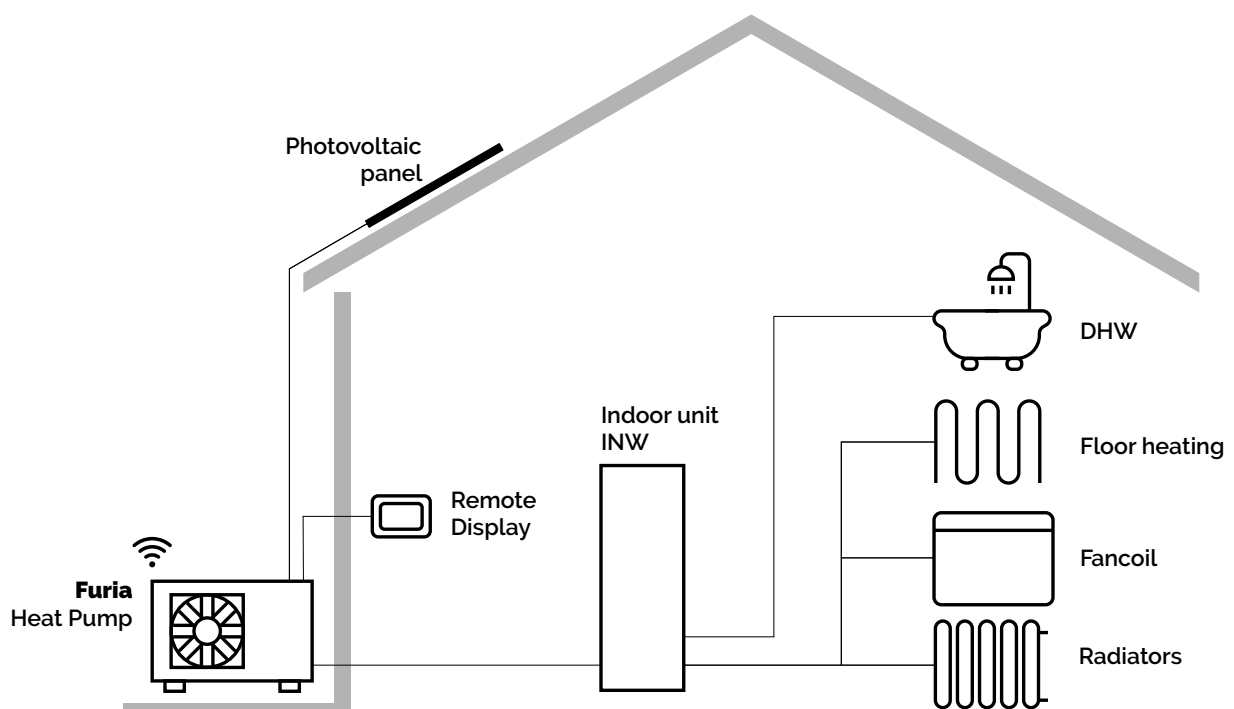


## Main components

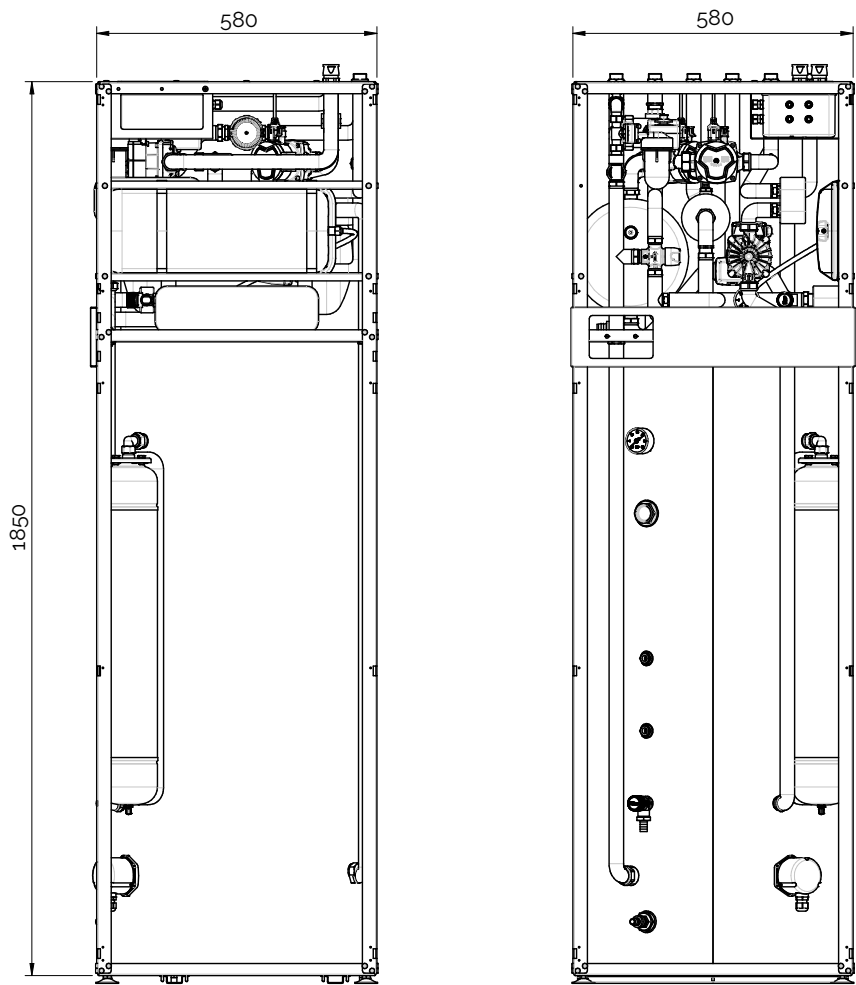
1. Hydraulic unit
2. DHW tank 150 l
3. Inertial tank 20 l
4. Thermostatic valve
5. Expansion vessel for DHW and heating circuit

# FURIA INW chart

Management of DHW and high temperature heating

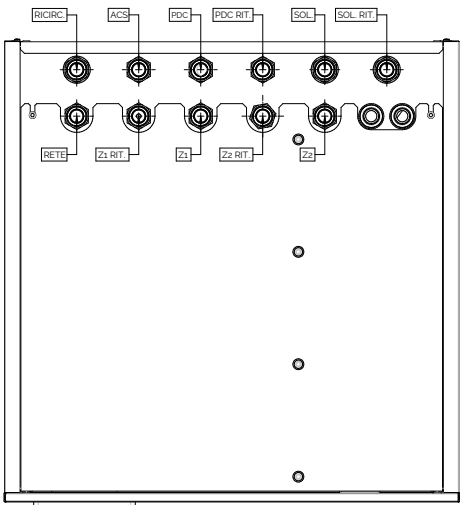


# TWR indoor unit size



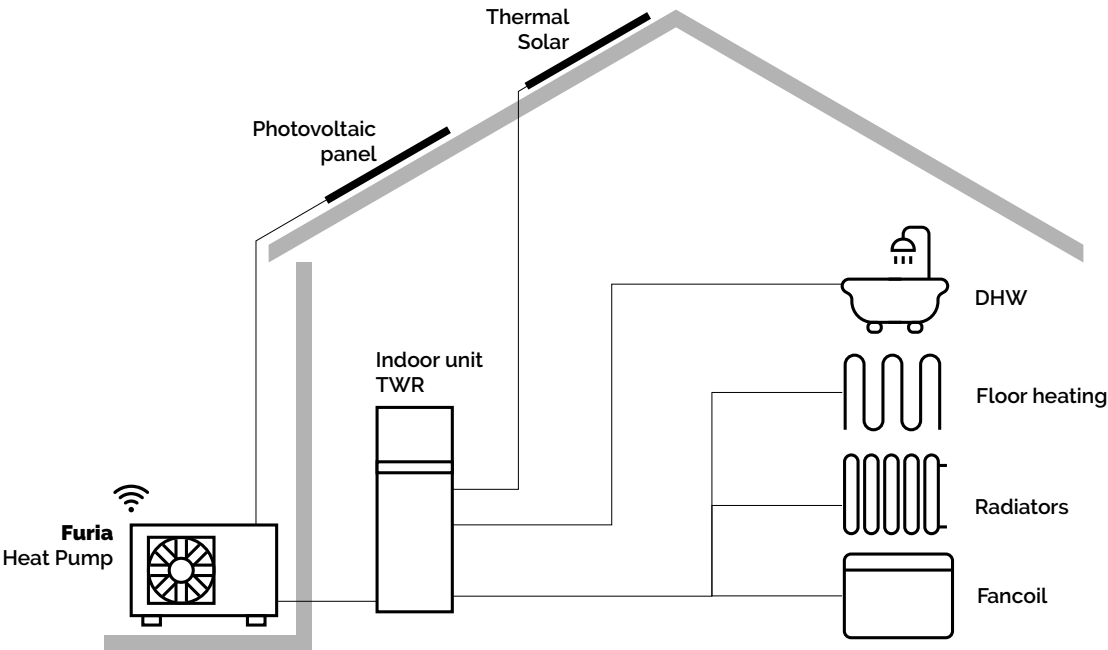
## Main components

1. Hydraulic unit
2. DHW tank 185 l
3. Inertial tank 20 l
4. Thermostatic valve
5. Expansion vessel for DHW and heating circuit
6. Electric heating element 2 kW

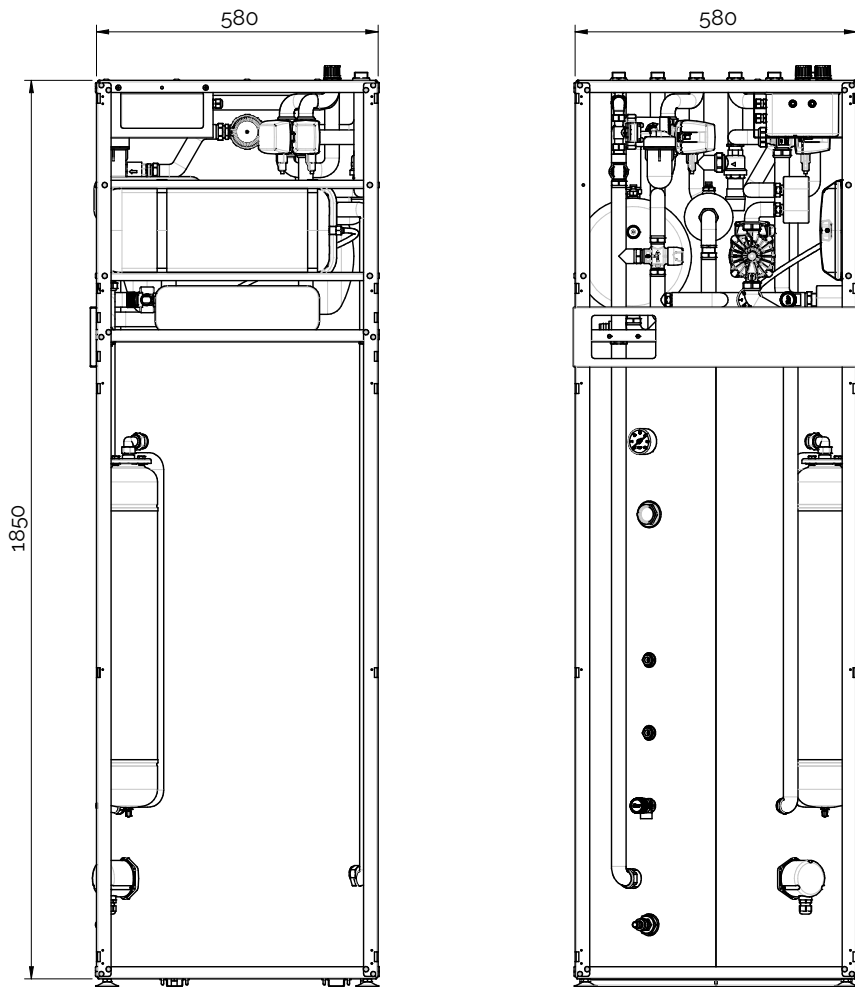


# FURIA TWR chart

Management of DHW, heating and cooling on 1 zone with solar integration

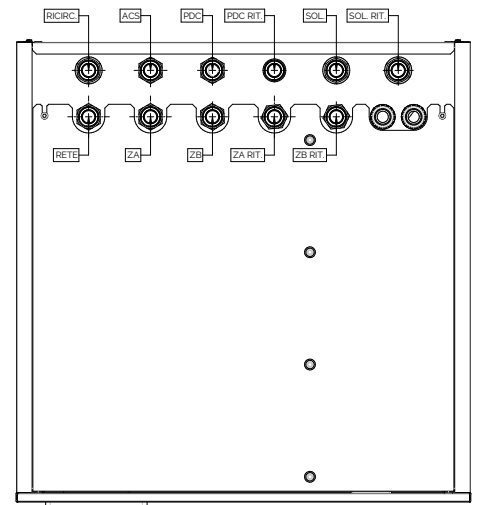


# TWR 2 indoor unit size



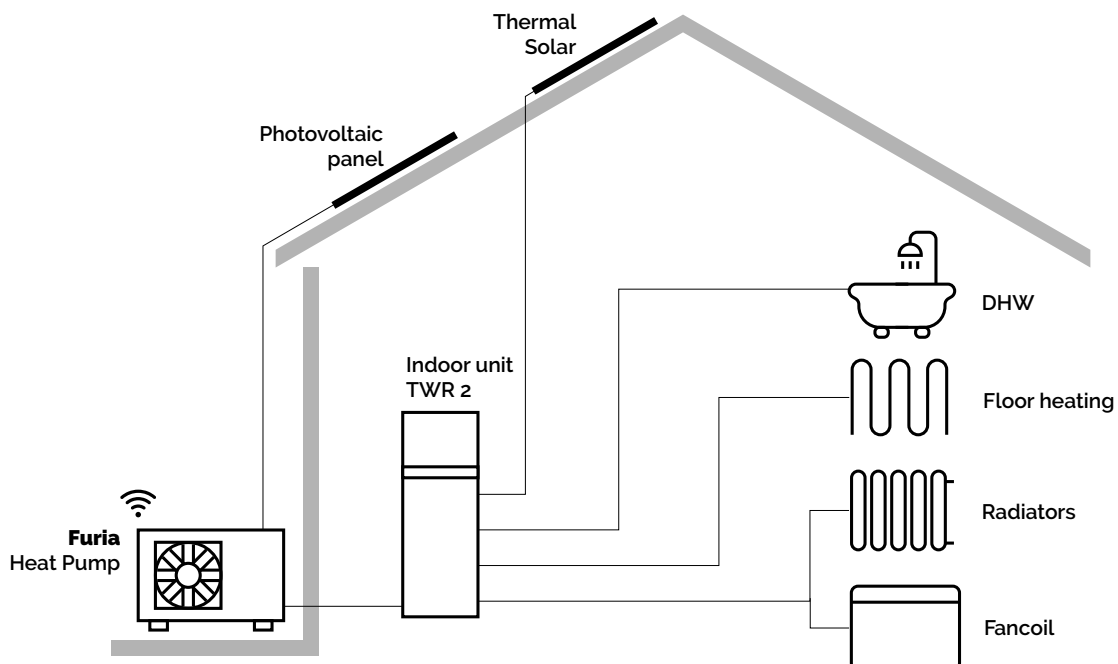
## Main components

1. Hydraulic unit
2. DHW tank 185 l
3. Inertial tank 20 l
4. Thermostatic valve
5. Expansion vessel for DHW and heating circuit
6. Electric heating element 2 kW



## FURIA TWR 2 chart

Management of DHW, heating and cooling on 2 zones with solar integration



# FURIA

[www.pompadicalorer290.it](http://www.pompadicalorer290.it)

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