

**MIXA**<sup>®</sup>  
HEATING & COOLING

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# Calido **R290**

Heat pump water heater and Wall-hung heat pump water heater with R290 refrigerant



# Calido

## Heat pump water heater and Wall-hung heat pump water heater with R290 refrigerant

The Calido range includes heat pump water heaters designed to guarantee efficient, sustainable and easy-to-manage domestic hot water. Reliable and proven solutions that combine low consumption, respect for the environment and intelligent comfort, adapting flexibly to different types of installation and use.

Calido provides a concrete response to daily domestic hot water production needs thanks to its different capacities: 105 litres for

compact installations, up to 190–250 litres for more structured systems.

The range uses the natural refrigerant R290, an environmentally responsible choice characterised by very low GWP and excellent thermodynamic properties. R290 delivers high performance and low consumption, contributing to reduced emissions and ensuring reliable operation even over a wide range of outdoor temperatures.

### Build quality and long-term reliability

The range shares construction solutions geared towards durability and efficiency:

- vitrified steel boiler with thick polyurethane insulation
- external microchannel condenser, not immersed in water, to reduce scaling and contamination
- high-efficiency compressors, designed for quiet operation
- integrated electric resistance as support in the most demanding conditions
- hot gas defrosting systems and dedicated safety devices



### Wi-Fi connectivity

Calido 105, 190 and 250 are equipped with integrated Wi-Fi connectivity, allowing complete remote management of the device via smartphone using the Smart Life app.

At any time, you can:

- adjust the water temperature
- set timers and time slots
- monitor operation
- activate safety and hygiene functions, such as the anti-legionella cycle



		<b>CALIDO 105</b>	
	Energy class		A++
	Power supply	V/Ph/Hz	220-240/1Ph+N+PE/50
	Actual tank capacity	L	103.9
	Heating capacity	W	1000* (+1500**)
	Power input	W	210* (+1500**)
	Rated current	A	1.03 (+6.5**)
	COP DHW***	W/W	3.16
	COP DHW****	W/W	3.73
	Maximum absorption	W	330* (+1500**)
	Maximum current	A	1.67* (+6.5**)
	Heating time with cold tank (*)	h:min	6:52
	Maximum water outlet temperature (without using the heater)	°C	65
	Maximum water temperature	°C	70**
	Minimum water start-up temperature	°C	10
	Working ambient temperature	°C	-5 ~ +43
	Maximum refrigerant discharge pressure	bar	32
	Maximum refrigerant suction pressure	bar	12
	Refrigerant type		R290
	Charge refrigerant	g	140
<b>Calido 105</b>	Compressor	Type	Rotary
		Oil	PAG or equivalent, 170 ml
	Fan motor	Type	DC
		W	45
		RPM	900
	Nominal flow rate	m³/h	270
	Available static pressure	Pa	60
	Duct diameter	mm	125
	Maximum allowable tank pressure	bar	10
	Internal tank surface material		S235JR with double-layer vitrification
Auxiliary electric heater	Kw	1.5	
Electronic expansion valve		yes	
Magnesium anode		yes	
Heat pump heat exchanger material (condenser)		aluminum alloy	
Cold water inlet	inch	G 1/2" male	
Hot water outlet	inch	G 1/2" male	
Condensate water outlet		Plastic flexible hose φ18 mm	
Condensate drain	inch	For external installation	
IP protection class		IPX1	
Net size	mm	500x520x1406	
Packing dimensions	mm	550x550x1460	
Net weight	Kg	72	
Weight with water-filled tank	Kg	182	
Gross weight	Kg	84	
Sound power (2)	dB (A)	45	
Sound pressure (3)	dB (A)	30.2	

\* Heating capacity and power input measured under the following conditions: room temperature 20°C, water temperature from 15°C to 55°C (data obtained from internal laboratory tests on uniform reheating of the storage tank temperature).

\*\* In relation to the auxiliary heater. During the disinfection cycle, the temperature is raised to 70°C by the auxiliary heater.

\*\*\* Obtained with the tank stored at an ambient temperature of 20°C, with ducted air inlet at 7°C and all other parameters in accordance with EN 16147.

\*\*\*\* According to EN 12102: ducted unit in/out 2 m.

\*\*\*\*\* Heat loss value of the tank alone, with ambient temperature at 20°C and stored water at 65°C.

(1) rating data referring to integration with boiler in accordance with DIN 4708 standards (primary 80/60°C, secondary 10/45°C).

(2) measured according to standard EN 12102 under the conditions specified in standard EN 16147.

(3) calculated according to ISO 3744:2010 algorithm at 1 m from the unit.



		CALIDO 190	CALIDO 250	CALIDO 190-S	CALIDO 250-S
Energy class		A+			
Power supply	V/Ph/Hz	220-240/1Ph+N+PE/50			
Actual tank capacity	L	196	256	190	250
Heating capacity	W	1500* (+1200**)			
Power input	W	365* (+1200**)			
Rated current	A	1.69* (+5.2**)			
COP DHW***	W/W	3.2	3.4	3.2	3.4
COP DHW****	W/W	3.85	4.19	3.85	4.19
Maximum absorption	W	700* (+1200**)			
Maximum current	A	9.6* (+5.2**)			
Heating time with cold tank (*)	h:min	7:56	10:56	7:56	10:56
Maximum water outlet temperature (without using the heater)	°C	65			
Maximum water temperature	°C	70**			
Minimum water start-up temperature	°C	10			
Working ambient temperature	°C	-10 ~ +43			
Maximum refrigerant discharge pressure	bar	32			
Maximum refrigerant suction pressure	bar	12			
Refrigerant type		R290			
Charge refrigerant	g	150			
Compressor	Type	Rotary			
	Oil	PAG or equivalent			
Fan motor	Type	DC			
	W	45			
	RPM	900			
Nominal flow rate	m³/h	290			
Available static pressure	Pa	60			
Duct diameter	mm	160			
Maximum allowable tank pressure	bar	10			
Internal tank surface material		S235JR with double-layer vitrification			
Tank transmittance (kboll) *****	W/K	1.73	2	1.73	2
Auxiliary electric heater	Kw	1.2			
Electronic expansion valve		yes			
Magnesium anode		yes			
Heat pump heat exchanger material (condenser)		aluminum alloy			
Solar heat exchanger coil surface	m²	/		0.8	
Solar heat exchanger coil flow rate (1)	m³/h	/		1.2	1.2
Maximum heat exchanger coil pressure	bar	/		6	
Coil heat exchange material		S235JR			
Cold water inlet	inch	G 1" female			
Hot water outlet	inch	G 1" female			
Solar integration input/output	inch	/		G 1" female	
Condensate water outlet		Plastic flexible hose 0.3 m φ22 mm			
Condensate drain	inch	For external installation			
IP protection class		IPX1			
Net size	mm	φ655x1504	φ655x1713	φ655x1504	φ655x1713
Packing dimensions	mm	690x690x1844			
Net weight	Kg	106	114.5	114	122.5
Weight with water-filled tank	Kg	302	371	310	379
Gross weight	Kg	112	89	120	128
Sound power (2)	dB (A)	49			
Sound pressure (3)	dB (A)	33.5			

\* Heating capacity and power input measured under the following conditions: room temperature 20°C, water temperature from 15°C to 55°C (data obtained from internal laboratory tests on uniform reheating of the storage tank temperature).

\*\* In relation to the auxiliary heater. During the disinfection cycle, the temperature is raised to 70°C by the auxiliary heater

\*\*\* Domestic hot water heating energy efficiency based on ErP regulation (EN 16147), profile L (190 L) and XL (250 L), ambient temperature 7 °C / 6 °C, water temperature from 10 °C to 55 °C (SCOP DHW).

\*\*\*\* Water heating energy efficiency based on ERP regulation (EN 16147), L profile (190 l) and XL

profile (250 l), ambient temperature 14°C / 12°C, water temperature from 10°C to 55°C.

\*\*\*\*\* Referred to the tank installed at an ambient temperature of 20°C and storage with water at 65°C.

(1) rating data referring to integration with boiler in accordance with DIN 4708 standards (primary 80/60°C, secondary 10/45°C).

(2) measured according to standard EN 12102 under the conditions specified in standard EN 16147.

(3) calculated according to ISO 3744:2010 algorithm at 1 m from the unit.