

# MAGIS M TOP

*R290 monobloc heat pumps*



**MAGIS M TOP** is the new range of **Immergas** monobloc air-water heat pumps with **R290** refrigerant gas.

This project had a significant impact on the entire company and has led to important investments in the production process to create the new line dedicated to the production of heat pumps.

MAGIS M TOP is in fact **the first range of heat pumps assembled, registered and tested at the Immergas plant in Brescello.**

The choice made highlights the company's strong commitment to invest in its future to face international competition, today and in the coming years.

MAGIS M TOP is the ideal product for both **new and existing buildings**, thanks to the **high energy performance** of **R290** gas (system flow temperature up to **75°C**) which allows operation even on systems **with high temperature emitters (radiators and fan coils)**. MAGIS M TOP can be installed individually or in series on **centralized** systems to heat, cool and produce domestic hot water.

**Magis M Top will join the existing Magis M** in the catalog, positioned as the high-end option in monobloc heat pumps.

# Range

The range includes 6 models from 5 up to 16 kW, mono-phase and three-phase.

MAGIS M TOP RANGE			
Model	Power A7/W35	Power supply	Gas
MAGIS M5 TOP	5 kW	mono-phase	R290
MAGIS M8 TOP	8 kW	mono-phase	
MAGIS M12 TOP	12 kW	mono-phase	
MAGIS M16 TOP	16 kW	mono-phase	
MAGIS M12 T TOP	12 kW	three-phase	
MAGIS M16 T TOP	16 kW	three-phase	

# MAGIS M TOP



**MAGIS M 5 TOP**  
**MAGIS M 8 TOP**



**MAGIS M 12 TOP**  
**MAGIS M 12 T TOP**  
**MAGIS M 16 TOP**  
**MAGIS M 16 T TOP**

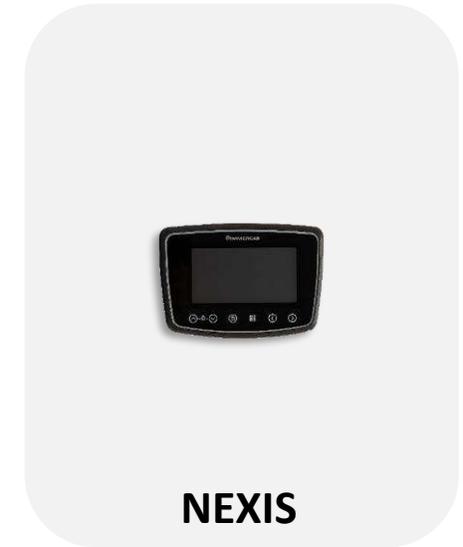
# MAGIS M TOP

The MAGIS M TOP monobloc heat pump consists, as standard, of:

1. **external hydronic air to water** unit complete with expansion vessel, safety valve, flow meter, filter, circulator and heating cable;
2. **E-BOX TOP: electrical box**, to be installed internally;
3. **NEXIS: control panel**, for electronic management of the outdoor unit and the system.



MAGIS M TOP



# Main features

- ✓ **Single fan – full range**
- ✓ **Exclusive Immergas design – Schumann design**
- ✓ **Color remote panel – TFT 4,3'' display**
- ✓ **Natural refrigerant gas R290 – GWP = 3**
- ✓ **Maximum system flow temperature = 75°C**
- ✓ **Maximum DHW (Domestic Hot Water) flow temperature = 65°C**
- ✓ **Silent mode – 35 dB(A) – sound pressure at 3 meters**
- ✓ **Connectivity for User and Service – in combination to GATEWAY V2**
- ✓ **Modbus protocol for integration with home automation systems (BMS)**
- ✓ **Advanced stand-alone electronics – management of complex systems with cascades of up to 6 MAGIS M TOP units of the same size**
- ✓ **Photovoltaic and SG Ready function**
- ✓ **Energy class A+++ LT (35°C) and A++ MT (55°C)**
- ✓ **HP Keymark Certification – ongoing**



# Main dimensions

The main dimensions, weight and connections of the entire range are shown in the table.

PARAMETERS/MODELS		MAGIS M5 TOP	MAGIS M8 TOP	MAGIS M12 TOP MAGIS M 12 T TOP	MAGIS M16 TOP MAGIS M 16 T TOP
Length	mm	1270	1270	1270	1270
Height	mm	850	850	1018	1018
Depth	mm	500	500	530	530
Weight	Kg	126	126	137	137
Hydraulic connections	Inches	1	1	1	1
Compressor		Rotary		Scroll	
Gas quantity	gr	630	870	1250	

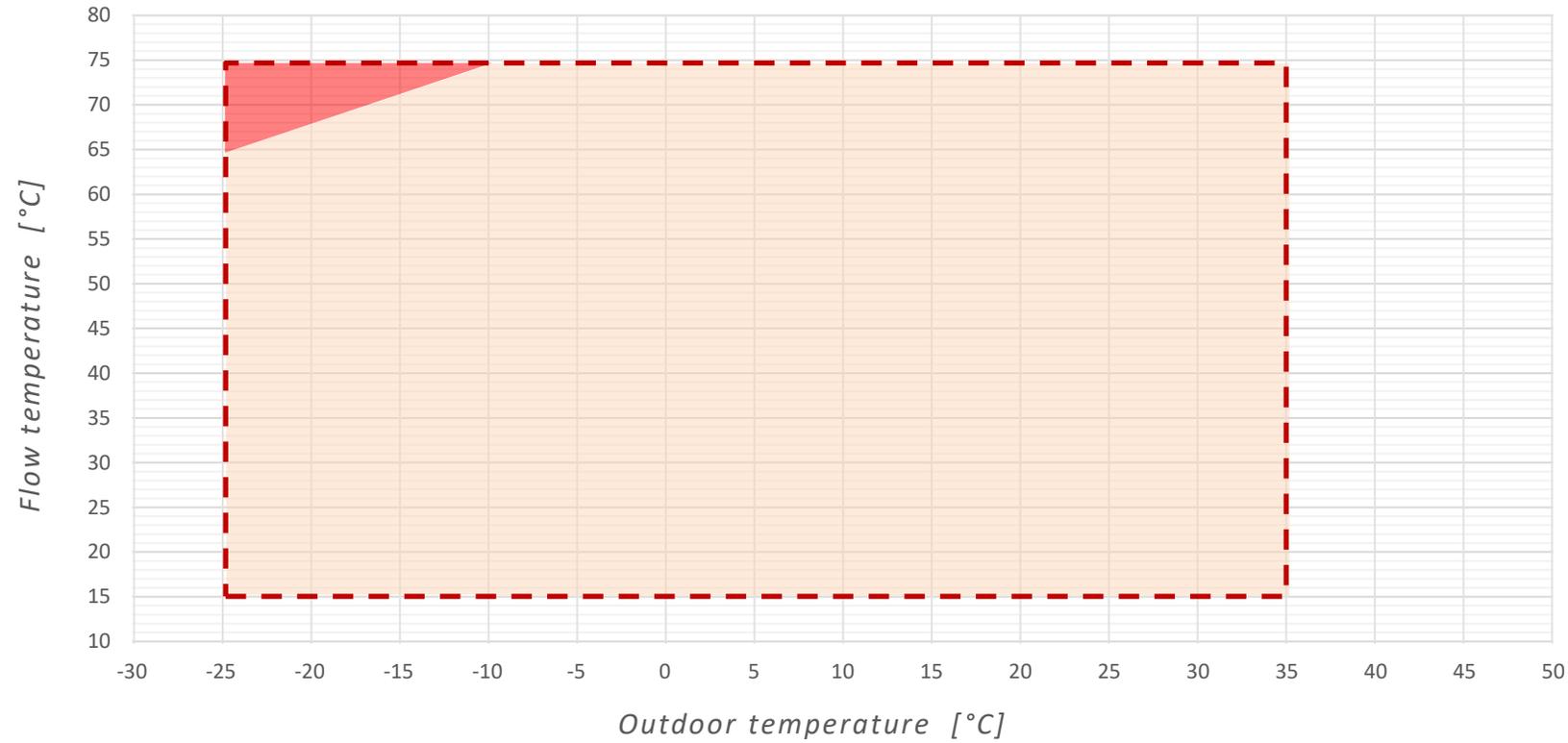
# Main indicative performance data

The main performances of the entire range are shown in the table.

PARAMETERS/MODELS		MAGIS M5 TOP	MAGIS M8 TOP	MAGIS M12 TOP MAGIS M12 T TOP	MAGIS M16 TOP MAGIS M16 T TOP
Heat output A7/W35	kW	5	8	12	16
COP A7/W35	-	5,10	4,91	4,80	4,51
EER A35/W18	-	3,91	3,90	4,00	3,80
Energy class SCOP (35°C)	-	A+++	A+++	A+++	A+++
Energy class SCOP (55°C)	-	A++	A++	A++	A++
Max. flow temp. HEATING	°C	75	75	75	75
Max. DHW temperature	°C	65	65	65	65
HEATING operating range	°C	-25/+35	-25/+35	-25/+35	-25/+35
COOLING operating range	°C	10/+46	10/+46	10/+46	10/+46
DHW operating range	°C	-25/+43	-25/+43	-25/+43	-25/+43

# Operating range with integration

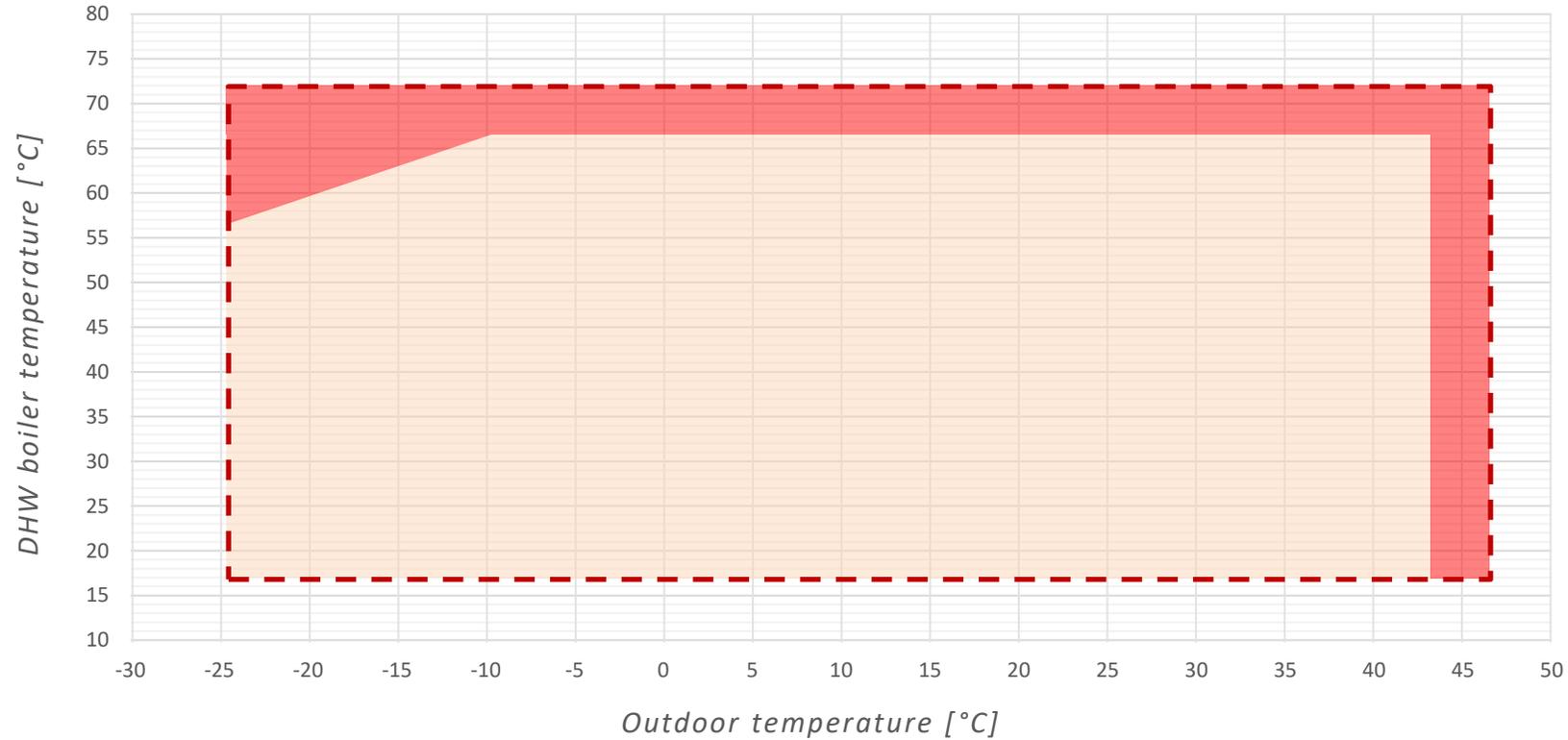
## HEATING



**ONLY WITH INTEGRATION  
ENABLED**

# Operating range with integration

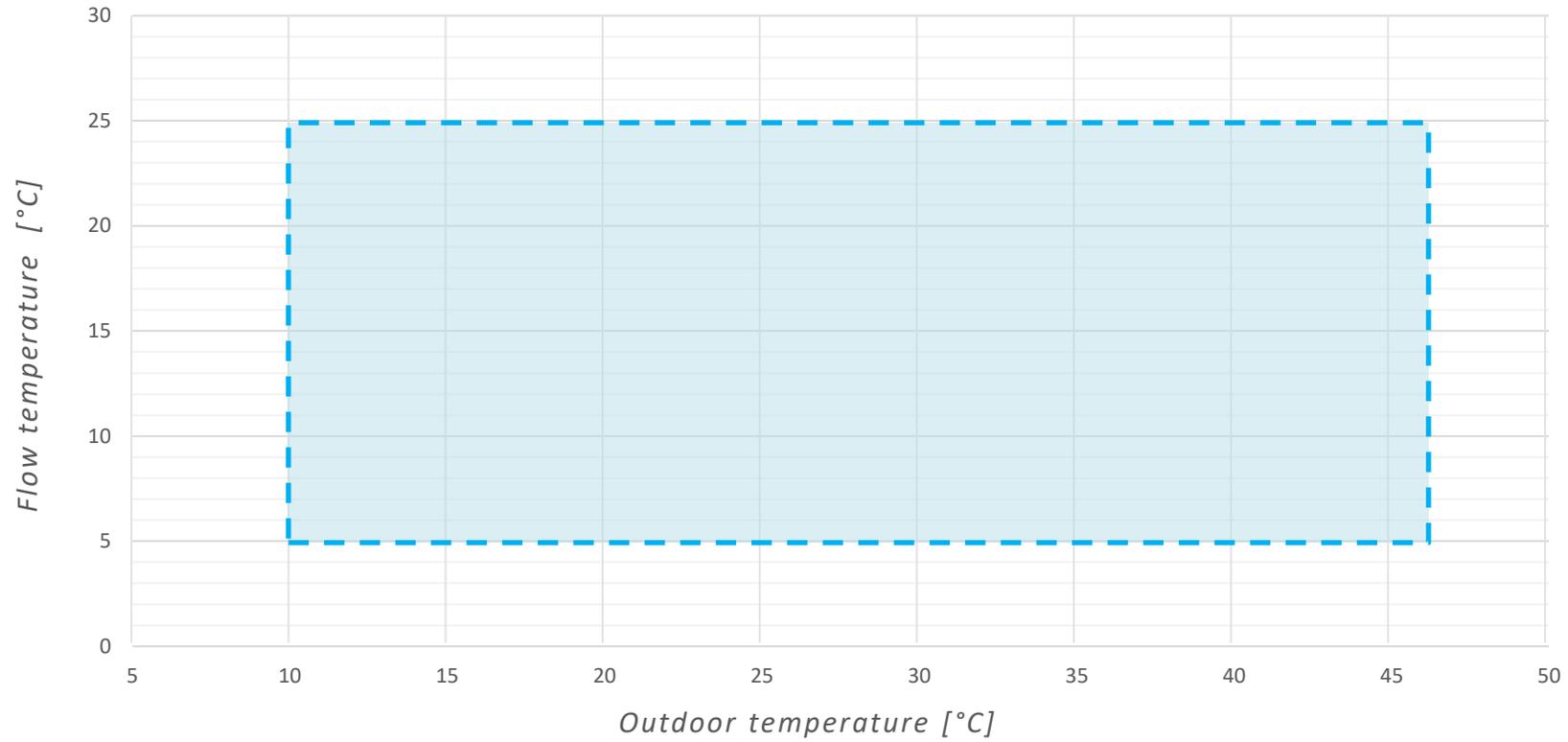
## DOMESTIC HOT WATER (DHW)



**ONLY WITH INTEGRATION  
ENABLED**

# Operating range

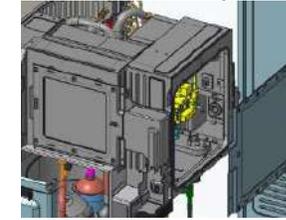
## COOLING



# Main features

**Standard equipment** to ensure **SAFETY** in operation with R290 refrigerant gas:

- ✓ **High-efficiency deaerator**  
*to prevent any gas leaks into the hydronic circuit*
- ✓ **Safety valve calibrated at 2.5 bar**  
*to avoid discharge of the safety valve installed inside the dwelling (3 bar)*
- ✓ **Hermetically sealed electrical part**  
*for explosion-proof safety*
- ✓ **Initial fan start-up**  
*to evacuate any potential leaks*



# Main features

## Standard equipment:

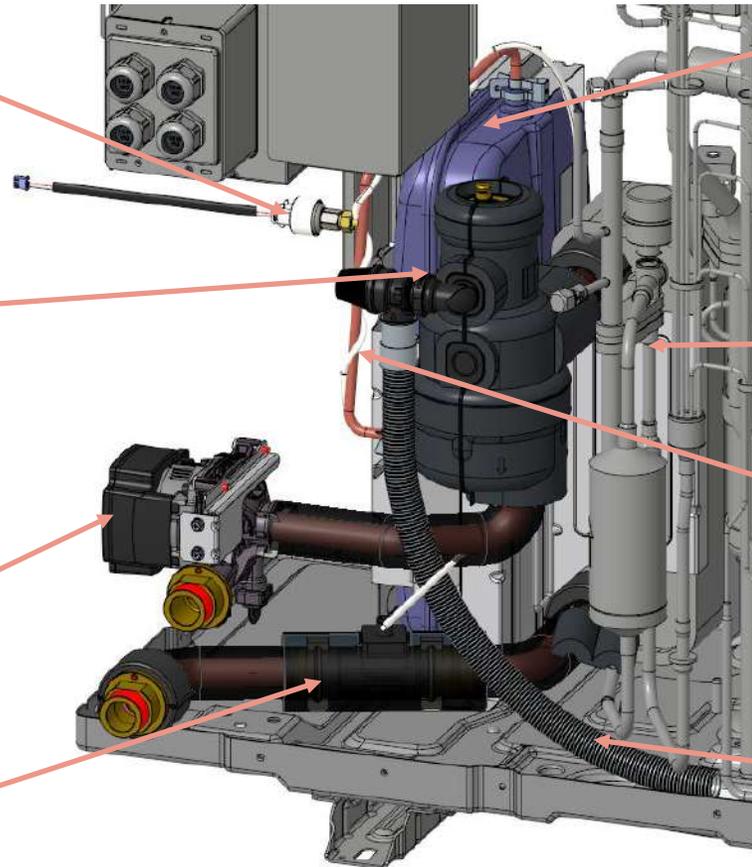
- ✓ Circulator
- ✓ Expansion vessel
- ✓ Flow meter (Minimum flow rate 500 l/h)
- ✓ Y-filter
- ✓ 50 W anti-freeze heating cable

*Protects against frost (expansion vessel and connecting pipe), not protected by anti-freeze logic.*

- ✓ 150 W condensate heating element



# Hydraulic part MAGIS M 5 – 8 TOP



PRESSURE  
SENSOR

DEGASIFIER  
+  
2,5 bar  
SAFETY VALVE

CIRCULATOR

FLOW METER

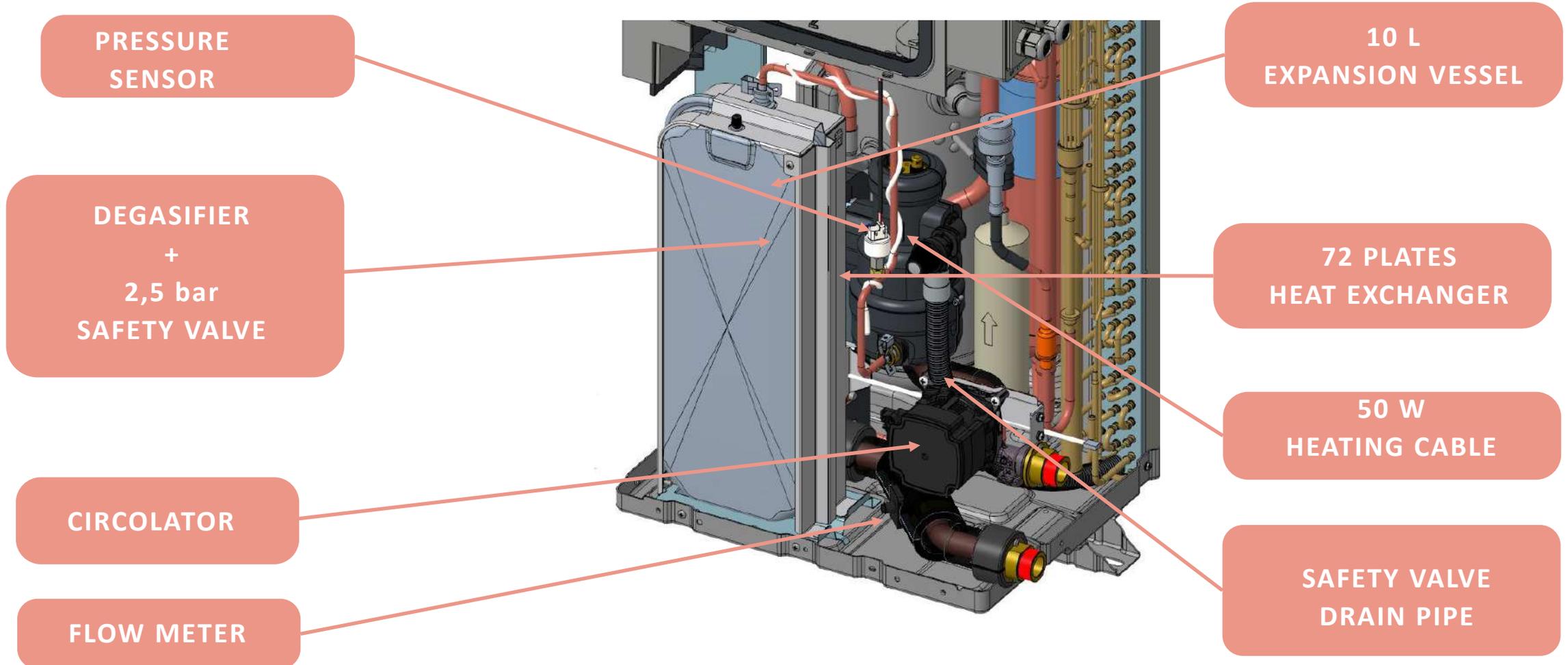
10 L  
EXPANSION VESSEL

42 PLATES  
HEAT EXCHANGER

50 W  
HEATING CABLE

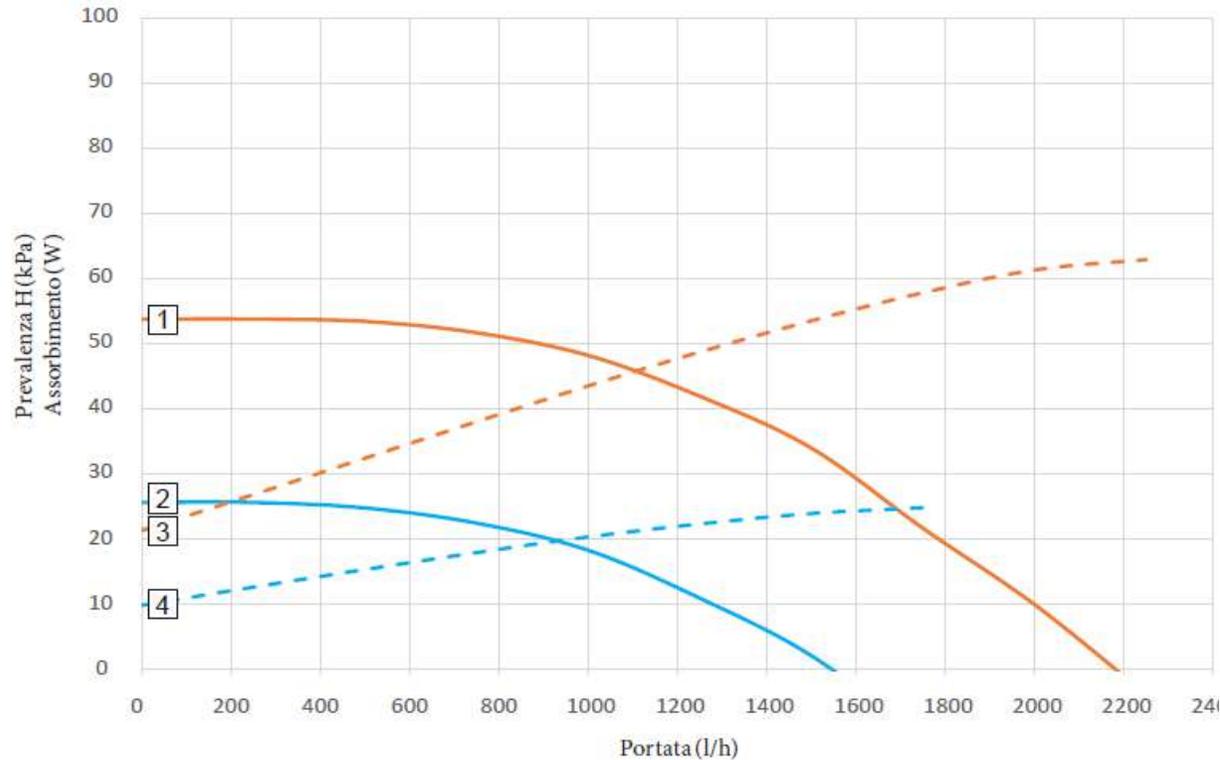
SAFETY VALVE  
DRAIN PIPE

# Hydraulic part MAGIS M 12 – 16 TOP



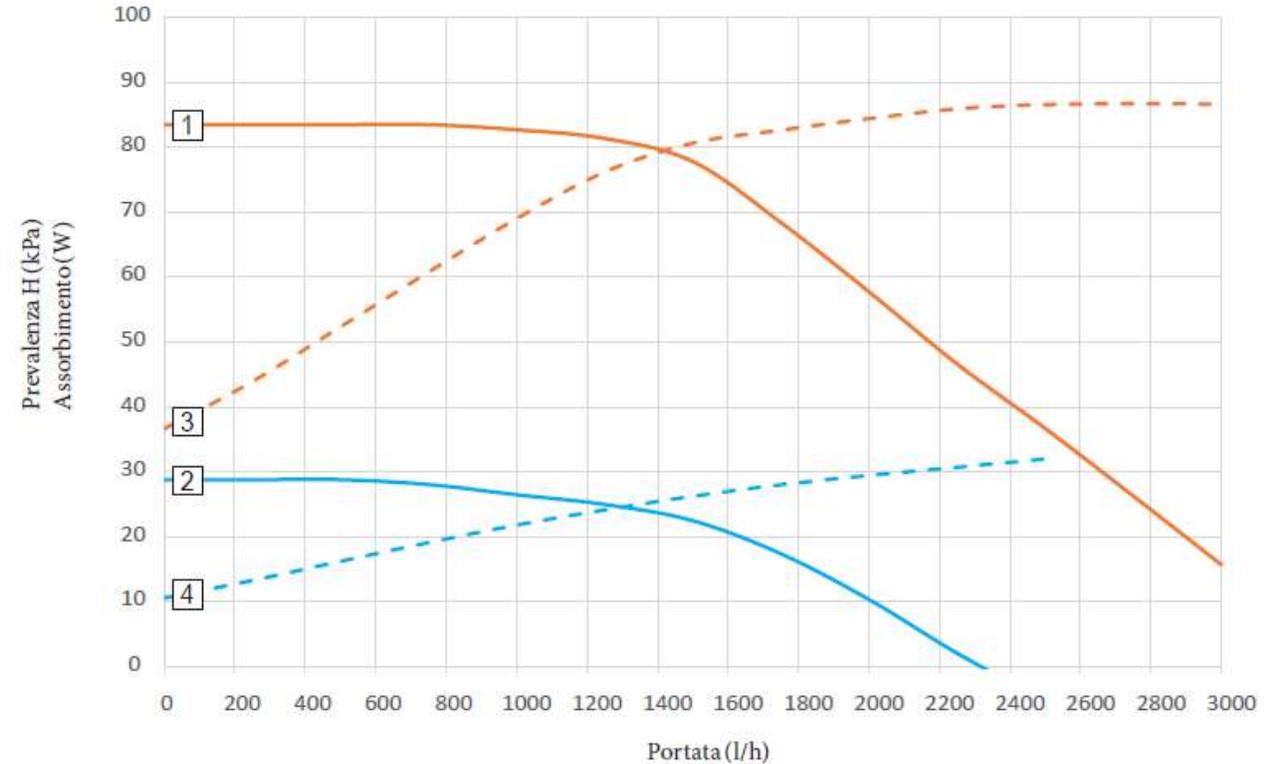
# Circulator

## MAGIS M 5 – 8 TOP (7m – 63 W)



- 1 = Prevalenza disponibile all'impianto con velocità fissa massima
  - 2 = Prevalenza disponibile all'impianto con velocità minima
  - 3 = Potenza assorbita dal circolatore con velocità fissa massima
  - 4 = Potenza assorbita dal circolatore con velocità minima
- Area compresa tra le curve 1 e 2 = Prevalenza disponibile  
Area compresa tra le curve 3 e 4 = Potenza assorbita dal circolatore

## MAGIS M 12 – 16 TOP (9m – 90 W)



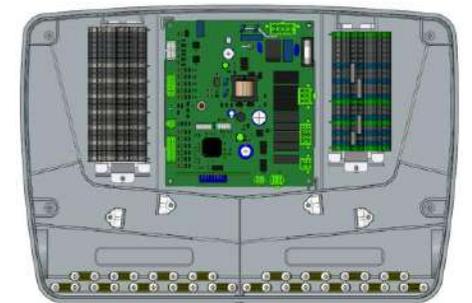
- 1 = Prevalenza disponibile all'impianto con velocità fissa massima
  - 2 = Prevalenza disponibile all'impianto con velocità minima
  - 3 = Potenza assorbita dal circolatore con velocità fissa massima
  - 4 = Potenza assorbita dal circolatore con velocità minima
- Area compresa tra le curve 1 e 2 = Prevalenza disponibile  
Area compresa tra le curve 3 e 4 = Potenza assorbita dal circolatore

# E-Box Top

E-Box Top contains the electronics that manages MAGIS M TOP.

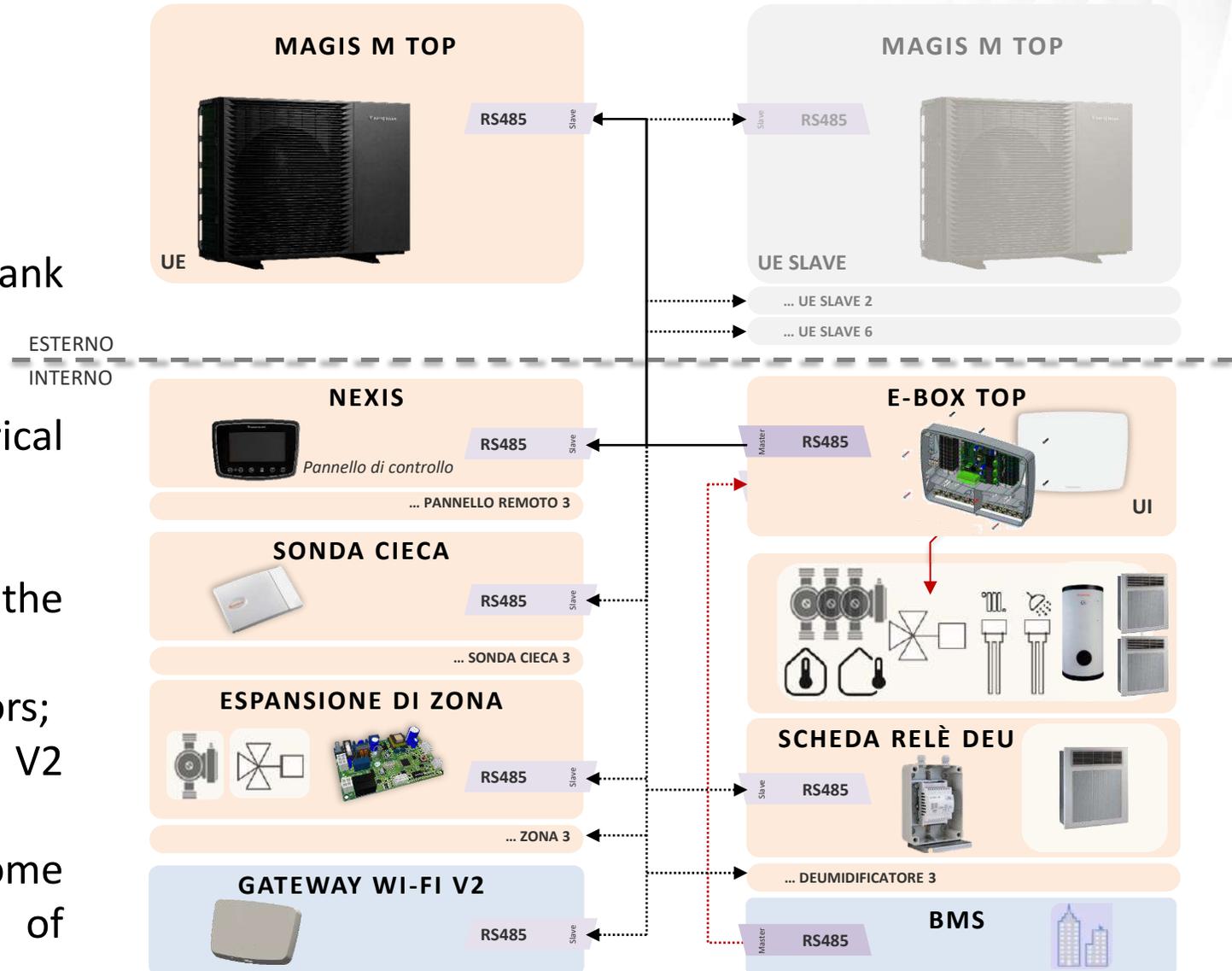
To be installed inside the building, it simplifies the electrical connections of the system elements (probes, circulators, three-way, integrative resistances, zone panels and more).

It communicates with the external unit, the internal system and the user panel via the Modbus communication protocol.



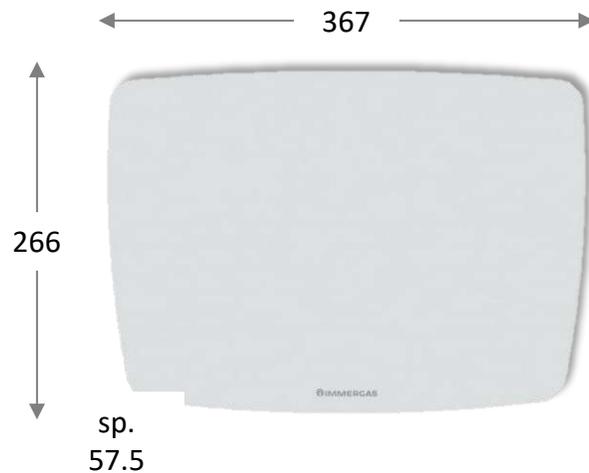
The board, through configurable inputs and outputs, manages:

- up to 6 units in simple cascade;
- up to **3 system zones**;
- a DHW diverter valve or a storage tank loading circulator;
- a heating/cooling 3-way valve;
- back-up sanitary and/or system electrical resistances;
- up to 2 dehumidifiers;
- up to 2 Nexis remote panels in addition to the one supplied as standard;
- up to 3 temperature/humidity active sensors;
- remote management using the Gateway V2 kit;
- remote management with BMS home automation systems (without the need of additional kits).



Through configurable inputs/outputs, it is possible to manage **FUNCTIONS** of:

- ✓ **Concurrency**
- ✓ **DHW boost**
- ✓ **DHW priority**
- ✓ **Antifreeze protection**
- ✓ **SILENT MODE ON 4 levels**
- ✓ **Photovoltaic**
- ✓ **Anti-legionella without electric heating element**
- ✓ **History and anomaly management**





- ✓ 4.3'' color TFT display + 6 backlit touch buttons
- ✓ **Black** as standard – black/white optional available
- ✓ Modbus communication
- ✓ **Heat pump user interface**  
*functions as EU (External Unit) control panel + zone panel*
- ✓ **T° and Ur (Temperature and Humidity) sensor**
- ✓ **Calendar management**  
*available for system and domestic hot water zones, with 8 time slots and temperature customization for each slot*
- ✓ **24V** electrical power supply
- ✓ Available languages: Italian, English, Romanian, Lithuanian, Slovenian, French, Portuguese, Polish, Czech, Slovak, Hungarian, Spanish, Greek, Russian, Ukrainian, Dutch, Bulgarian, German, Turkish.

The presence of a minimum water content is important, especially to facilitate the correct execution of defrost cycles. The minimum amount of water to be ensured is:

→ **30 liters for MAGIS M 5-8 TOP**

→ **50 liters for MAGIS M 12-16 TOP (single-phase and three-phase)**

A **NEW 50 LITER VERTICAL INERTIAL STORAGE TANK** is available in the range with the same color as the MAGIS M TOP.

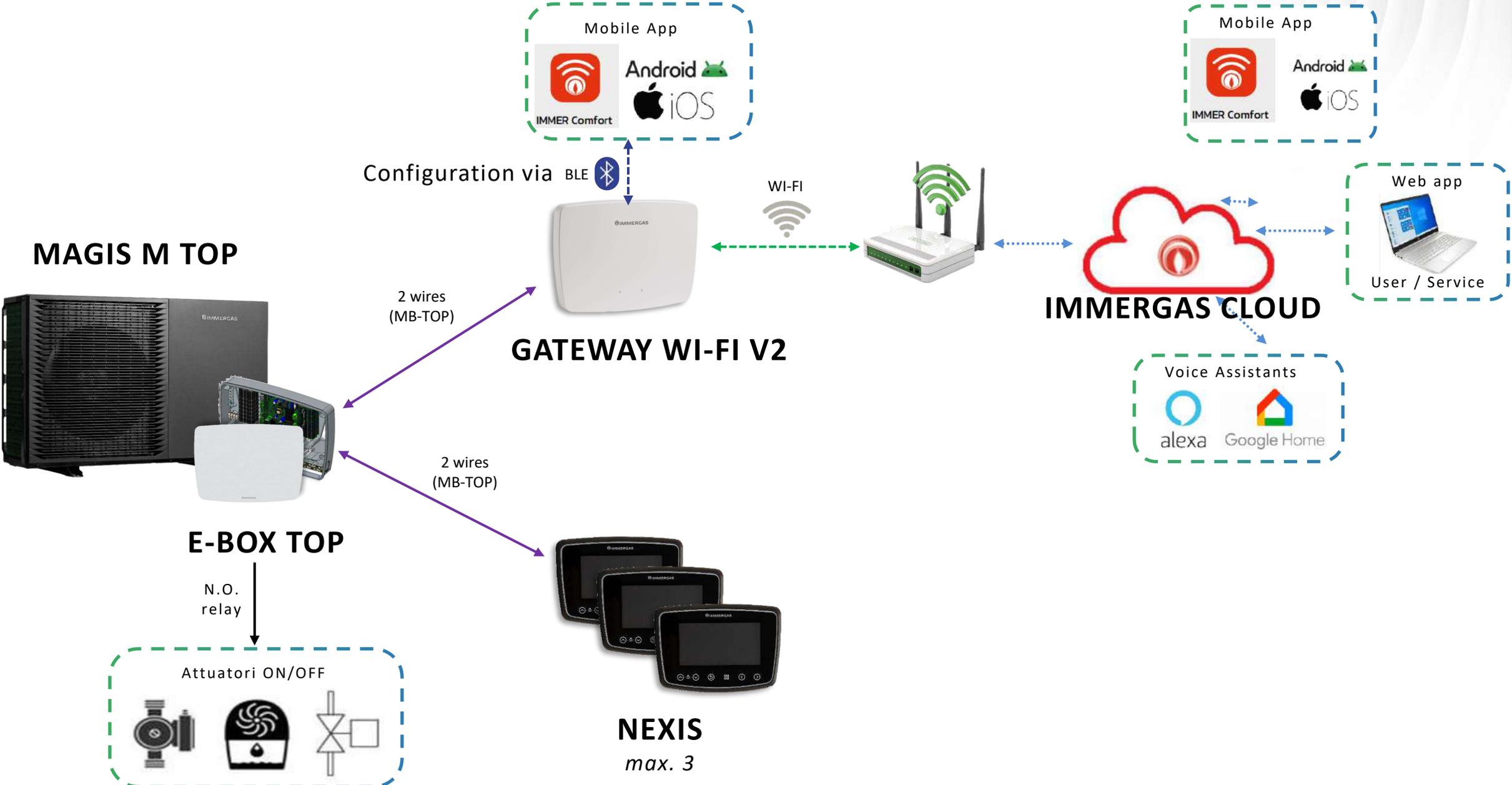


Through the new **app/web app** and new **cloud infrastructure**, it will allow remote management of:

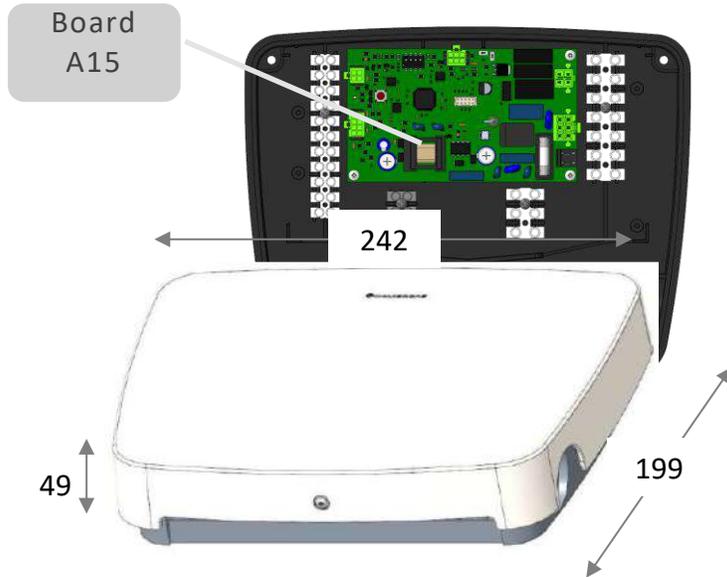


- *Zones and calendars for climate control and domestic hot water*
- *System status – standby / winter / summer / ...*
- *Room and DHW conditions (Setting and monitoring)*
- *Multi-user geo location (Away Function)*
- *Error management/OTA (Remote firmware updates for devices) via pop-up notifications*
- *System backup via Cloud (in case of Gateway breakdown)*
- *Possibility of targeted marketing*
- *It will be compatible with major voice assistants (with Nexis installed)*

# Advanced Smart Thermoregulation System – MAGIS M TOP

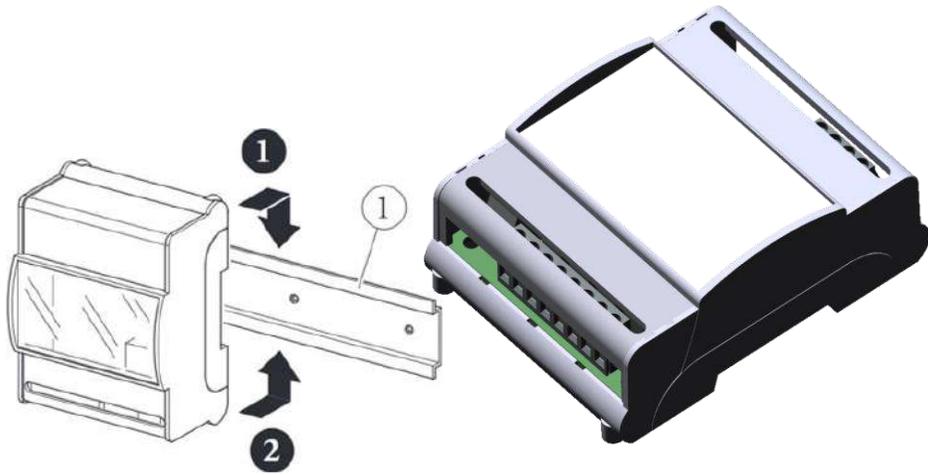


# Additional zone board kit – code 3.035840



## OPTIONAL BOARD:

- ✓ For each zone, it controls one circuit, direct or mixed
- ✓ Manages:
  - 1 Circulator
  - 1 Mixer
  - 1 NTC Probe
  - 1 On-Off Thermostat - Humidistat
- ✓ The zone panel and blind zone probe will be connected directly to the EBOX-TOP via Modbus.
- ✓ Communicates via Modbus with the E-Box Top.
- ✓ Installable up to 3, one per zone
- ✓ 230V power supply.



## OPTIONAL BOARD:

- ✓ Controls 1 dehumidifier for each zone in AN and AR
- ✓ Manages the dehumidifier alarm (via NEXIS panel)
- ✓ Controls any dehumidifier zone valve with a 230V command
- ✓ Installable up to 3, one for each thermal zone
- ✓ Aesthetics identical to Dominus V1
- ✓ DIN rail or wall mount support
- ✓ MODBUS connection on E-BOX TOP board
- ✓ External 24Vdc power supply (transformer NOT supplied)

Description	Code
CONNECTION KIT WITH FLEXIBLE PIPES AND SHUT-OFF KNOBS 1"	3.025954
<b>ANTIVIBRATION SUPPORTS KIT MAGIS M TOP</b>	<b>3.035580</b>
3-WAY DIVERTER VALVE KIT	3.020632
12 LITRES SYSTEM EXPANSION VESSEL KIT	3.011679
INTEGRATION ELECTRIC RESISTANCE KIT	3.021525
ADDITIONAL 2 KW ELECTRIC RESISTANCE KIT	3.020861
2 ZONES KIT (1 DIRECT AND 1 MIXED) FOR 5-8 KW MODELS	3.026301
2 ZONES KIT (1 DIRECT AND 1 MIXED) FOR 12-16 KW MODELS	3.031695
2 ZONES KIT (1 DIRECT AND 1 MIXED) HEATING ONLY FOR 5-8 KW MODELS	3.032265
2 ZONES KIT (1 DIRECT AND 1 MIXED) HEATING ONLY FOR 12-16 KW MODELS	3.035333
2 DIRECT ZONES KIT, HEATING ONLY FOR 12-16 KW MODELS	3.035334
2 DIRECT ZONES KIT, HEATING ONLY FOR 5-8 KW MODELS	3.032264
VERTICAL 50 LITRES BUFFER TANK (WHITE COLOR)	3.027539
<b>VERTICAL 50 LITRES BUFFER TANK (RAL 7030)</b>	<b>3.036742</b>
75 LITRES BUFFER TANK	3.027288
75 LITRES BUFFER TANK WALL-HUNG BRACKET KIT	3.027290

Description	Code
<b>NEXIS CONTROL PANEL KIT – BLACK</b>	<b>3.035812</b>
<b>NEXIS CONTROL PANEL KIT – WHITE</b>	<b>3.035829</b>
<b>ADDITIONAL ZONE EXPANSION KIT</b>	<b>3.035840</b>
<b>GATEWAY WI-FI V2</b>	<b>3.035537</b>
<b>DEHUMIDIFIER RELAY BOARD KIT</b>	<b>3.036231</b>
SYSTEM CONTROLLER	3.021522
ROOM HYGROSTAT	3.023302
STORAGE TANK NTC PROBE	3.019375
CRONO 7	3.021622
CRONO 7 WIRELESS	3.021624
EXTERNAL PROBE	3.015266
TEMPERATURE/HUMIDITY ACTIVE SENSOR MODBUS KIT	3.030992
OMNISTOR 300	3.027910
OMNISTOR 500	3.027911



**MAGIS M 5 TOP**

3.035574

**MAGIS M 8 TOP**

3.035575

**MAGIS M 12 TOP**

3.035576

**MAGIS M 12 T TOP**

3.035578

**MAGIS M 16 TOP**

3.035577

**MAGIS M 16 T TOP**

3.035579

**4° QUARTER 2025**