



**IMMERGAS**

# MAGIS HERCULES PRO/MINI

Split type floor standing heat pumps  
with DHW storage tank



# MAGIS HERCULES PRO/MINI

More comfort and gas zero with renewable

MAGIS HERCULES PRO MINI and MAGIS HERCULES PRO are **split air-to-water heat pumps** consisting of an external unit and an internal "all-in-one" floor standing unit, i.e. equipped with all the components for heating, cooling systems and DHW production. The high capacity integrated storage tank ensures maximum comfort in medium and large homes such as townhouses, villas or single-family homes.

The **buffer tank** - important for the correct functioning of the heat pump - is standard integrated, thus simplifying installation and optimizing costs.

The range expands with the MINI version, with compact dimensions, designed to have maximum frontal access and reduce size in the space home.

Immergas full electric solutions are **ideal for new homes with zero energy impact but also in significant renovations and redeveloped buildings with thermal coat and photovoltaic system**. The best for those who want to minimize waste, save energy and lowers harmful emissions as much as possible in line with European standards.





### **FULL ELECTRIC: GAS ZERO IN NEW HOUSES AND REDEVELOPMENTS**

Highly efficient heat pumps from 4 to 16 kW perfect **for obtaining the highest energy classes in new residential buildings or major renovations** even where external temperatures can be particularly freezing.

### **"ALL IN ONE" TO MAKE INSTALLATION EASIER**

MAGIS HERCULES PRO and MINI "all-in-one" appliances are **easy to install** because they join, inside **the single casing, the DHW storage tank (235 or 180 litres), the DHW electric heater, the CH electric heater (standard for MINI "EH" models) and the buffer tank**. The suffix "PRO" refers to the requirement for installation by professionals, with F-GAS certification for the refrigeration connections between the 2 units.

### **PROTECTED FROM FROST**

**The water circuit is completely protected from frost** because it is located inside the internal unit: solution particularly suitable in cold climatic areas.

### **MAXIMIZE YOUR SAVINGS WITH PHOTOVOLTAIC SYSTEMS**

All appliances of the range **combine in the most effective way with photovoltaic systems** and allow to obtain domestic hot water, heating and cooling with the free energy of the sun.

# MAGIS HERCULES PRO MINI

Split type floor standing heat pump with 180 litres  
DHW storage tank





### NEW "ALL-IN-ONE" COMPACT SOLUTION

MAGIS HERCULES PRO MINI is the new compact version available **in single-phase models of 6 and 9 kW, with R32 refrigerant gas.**

Designed for major renovations of medium-sized homes as well as for new buildings also where the external temperatures can be particularly freezing. The casing of the indoor unit contains a domestic hot water boiler with electric resistance in order to work simultaneously on DHW and the system, inertial storage and circulator for one plant area. **The "EH" versions are equipped with CH electric heater as standard.** The recirculation pump (optional) can also be integrated inside the casing.

### USER INTERFACE AND ELECTRONICS

Wide display and user interface. Illuminated touch keys with sound effect and encoders to make the adjustments. **From the dashboard it is possible to directly set the operation modality of the machine and program time slots and climatic curves of the system zones (heating/cooling).** Numerous electronic functions including the time programming of the anti-legionella cycle and the domestic hot water recirculation, the control of up to 2 system zones (one direct and one mixed hot/cold) and the management of an external three-way valve to be able to use different terminals in summer/winter.





## MAIN FEATURES INDOOR UNIT

R32 refrigerant/water exchanger

180 litres DHW stainless steel storage tank

25 litres buffer tank with set up for integration of 1 heating system integrative electric heater 3-kW (available as optional kit), as standard in "EH" models

Hydraulic distribution with 1 direct zone as standard

2,3 kW DHW electric heater supplied as standard

**3 kW CH electric heater supplied as standard for EH models**

10 litres expansion vessel for heating system

12 litres DHW expansion vessel (2 vessels of 6 litres each one)

3 way valve for DHW/ System

Flow-meter that switch on the heat pump when the water flow rate is enough and "Y" filter as standard

Protection index IPX5D (approved for indoor installation only)





### COMPACTNESS AND EASY INSTALLATION

The remarkable dimensional compactness of the floor standing indoor unit and the connections (hydraulic and refrigerant gas) placed in the upper part, allow **to install MAGIS HERCULES PRO MINI in narrow spaces in width.**

The connections to the plants and to the outdoor unit are placed in the top part of the appliance to **make installation simpler and easier.**

In MAGIS HERCULES PRO MINI the accessibility is completely frontal.

### CONNECTION GROUPS (OPTIONAL)

The pipes bringing connections perfectly aligned to the wall are optional.

There are 3 kits available (see page 31):

- MAGIS HERCULES PRO MINI hydraulic connection group kit with adjustable by-pass
- MAGIS HERCULES PRO MINI hydraulic connection unit kit (without by-pass it needed a ring always open on the plant)
- R32 refrigerant line connection unit kit

Even delivery and return solar pipes (inside of the kit thermal solar code 3.033210) are connected to the upper part of the indoor unit.



*Outdoor unit 6 V2*

## **MAIN FEATURES OUTDOOR UNIT**

**Inverter technology** rotative compressor

**Preloaded refrigerant gas R32**

Shut off knobs for refrigerant gas circuit as standard

Air finned heat exchanger with single fan

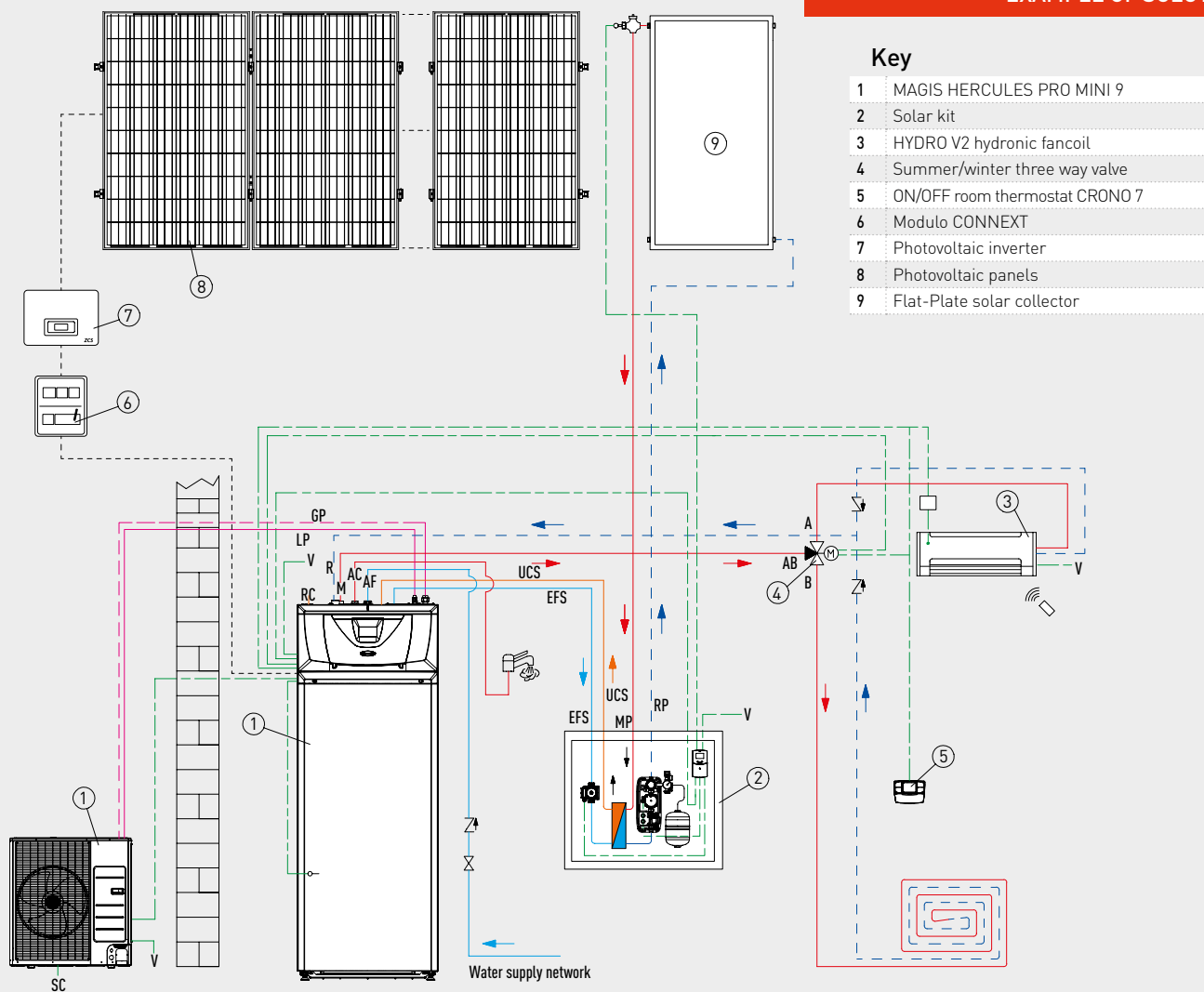
Electronic lamination valve bi-flow

4-way valve for cycle inversion

**Heating and cooling operation (reversible)**

Approved for installation outdoor without protection





## Key

- |   |                                |
|---|--------------------------------|
| 1 | MAGIS HERCULES PRO MINI 9      |
| 2 | Solar kit                      |
| 3 | HYDRO V2 hydronic fancoil      |
| 4 | Summer/winter three way valve  |
| 5 | ON/OFF room thermostat CRONO 7 |
| 6 | Modulo CONNEXT                 |
| 7 | Photovoltaic inverter          |
| 8 | Photovoltaic panels            |
| 9 | Flat-Plate solar collector     |

## EXAMPLE OF SOLUTION WITH MAGIS HERCULES PRO MINI 9 SINGLE ZONE WITH SUMMER/WINTER DIVERTER VALVE, THERMAL SOLAR PLANT FOR DHW AND PHOTOVOLTAIC

### Heating mode

The CRONO 7 (5), linked to radiant panels and located in the room, turns on the winter mode. If present the heating resistance integration (as standard for EH models), the electronics switches it on when the set temperature is not reached within the maximum time and if the outside temperature is below a defined value (both parameters can be set). It is also possible to set the activation of heat pump and heating resistance (alternating or contemporary on the same service).

### Cooling mode

Switching the summer/winter diverter valve (4) takes place with the change of mode hot/cold operation on the CRONO 7 (5). Following a request from the remote control of the hydronic split, the heat pump is activated.

### Domestic hot water mode

When the DHW temperature drops below the set point, the electronics turns on the heat pump. The electric resistance of the tank is switched on when the set temperature is not reached within the maximum time and if the outside temperature is below a defined value (both parameters can be set). It is also possible to set the activation of heat pump and heating resistance alternating, contemporary (on the same service) or concurrent (on two different services, e.g. request for heating/cooling and DHW). The solar thermal system dedicated to the production of domestic hot water allows to the heat pump to deal exclusively with environmental comfort.

**NOTE:** In the case of photovoltaic production, the DHW storage tank is heated to the maximum temperature exclusively by the heat pump. In case of a simultaneous domestic hot water and system request, the system will decide which service to satisfy to ensure the best possible comfort.

Technical characteristics	Unit of measurement	MAGIS HERCULES PRO MINI 6	MAGIS HERCULES PRO MINI 9	MAGIS HERCULES PRO MINI 6 EH	MAGIS HERCULES PRO MINI 9 EH
Code		3.034093	3.034094	3.034095	3.034096
Energetic class in heating at 35 °C		A+++	A+++	A+++	A+++
Energetic class in heating at 55 °C		A++	A++	A++	A++
Energetic class DHW/load profile		A+/L	A/XL	A+/L	A/XL
Refrigerant quantity (R32)	g	1.200	1.400	1.200	1.400
Length limit refrigerant line*	m	30	35	30	35
Heating capacity (system water 35 °C)	kW	6,00	9,00	6,00	9,00
Heating capacity (system water 45 °C)	kW	5,40	8,60	5,40	8,60
Heating capacity (system water 55 °C)	kW	4,80	8,00	4,80	8,00
Flow temperature range (C.H.)**	°C	20-65	20-65	20-65	20-65
COP (system water 35 °C)		4,92	4,81	4,92	4,81
COP (system water 45 °C)		3,58	3,69	3,58	3,69
COP (system water 55 °C)		2,65	2,93	2,65	2,93
Cooling capacity (system water 18 °C)	kW	6,50	8,70	6,50	8,70
Cooling capacity (system water 7 °C)	kW	4,70	6,50	4,70	6,50
Flow temperature range (cooling)	°C	5 - 25	5 - 25	5 - 25	5 - 25
EER (system water 18 °C)		4,42	4,12	4,42	4,12
EER (system water 7 °C)		3,26	3,33	3,26	3,33
Heat pump power absorbed***	W	1.220	1.870	1.220	1.870
Power supply	V - Hz	230 - 50	230 - 50	230 - 50	230 - 50
Outdoor unit weight (empty)	kg	46,5	46,5	46,5	46,5
DATA REFERRED TO INDOOR FLOOR-STANDING UNIT					
Expansion vessel capacity (C.H.)	l	10	10	10	10
Expansion vessel capacity (D.H.W.)	l	12	12	12	12
Electric power absorbed	W	95	95	95	95
Electrical absorption DHW integrative resistance	kW	2,3	2,3	2,3	2,3
Electrical absorption CH integrative resistance	kW	optional	optional	3	3
Max operating pressure hydronic circuit	bar	3	3	3	3
Protection index	IP	X5D	X5D	X5D	X5D
D.H.W. temperature range**	°C	10-65	10-65	10-65	10-65
Indoor unit weight (empty)	kg	150	150	150	150

\* The maximum length requires the integration of R32 more than the preload; with the preload it is possible to develop maximum lengths of 15 m.

\*\* The maximum values can be reached with the contribution of electric resistances. In order to know the correlation between delivery temperature and external temperature consult the technical data sheet of the product.

\*\*\* T. system water (D/R) - air (bs/bu) 35/30 °C - 7/6 °C.

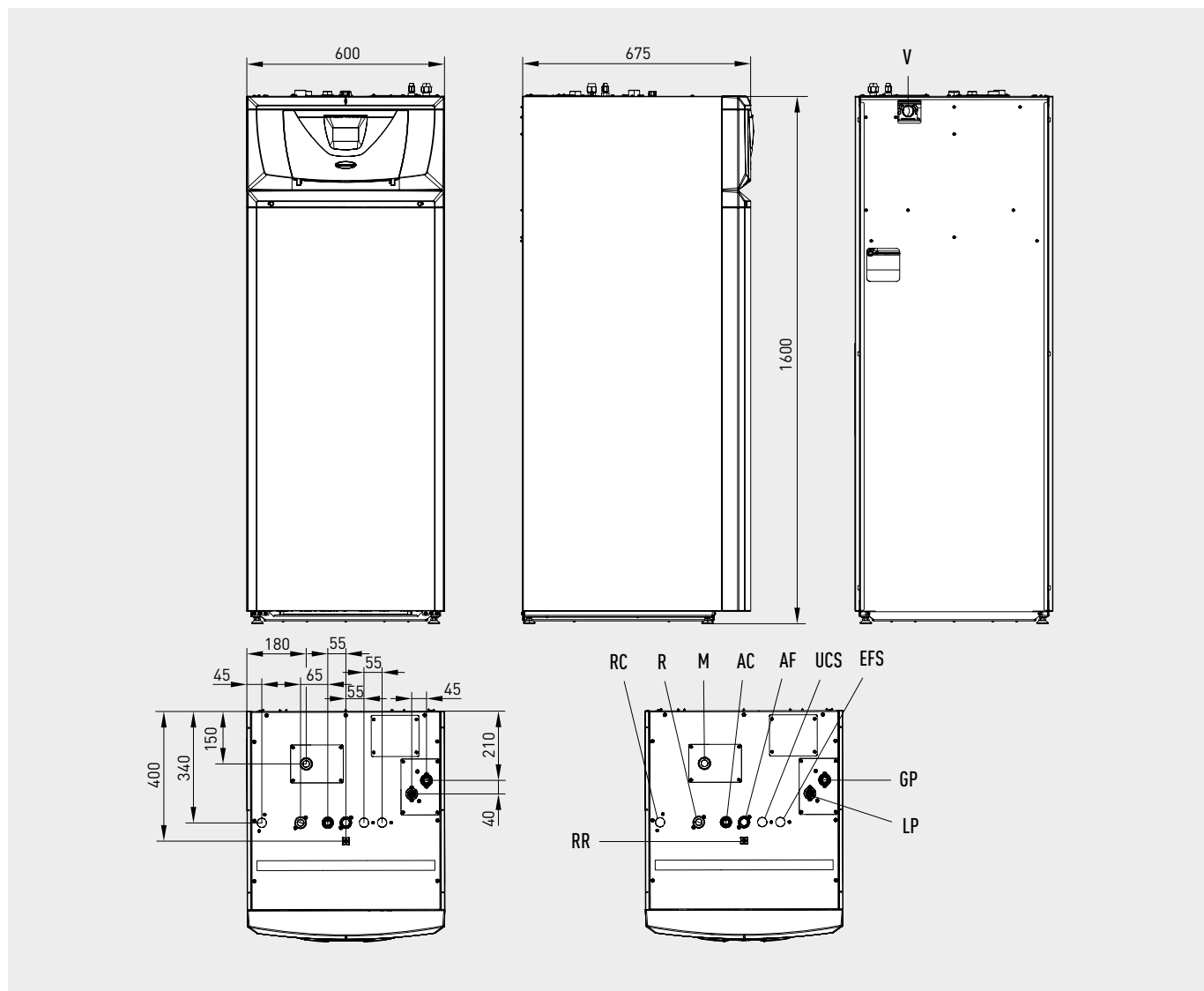
Referred to the following conditions:

Environment	Heating (°C)	Cooling (°C)
T system water (D/R) - air (bs/bu)	35/30 - 7/6	18/23 - 35 (bs)
T system water (D/R) - air (bs/bu)	45/40 - 7/6	7/12 - 35 (bs)
T system water (D/R) - air (bs/bu)	55/47 - 7/6	

For more information consult the technical sheet or the website [immergas.com](http://immergas.com)



### MAGIS HERCULES PRO MINI



#### Key

**GP** Chiller line - gaseous phase (optional)

**LP** Chiller line - liquid phase (optional)

**R** System return (optional)

**M** System delivery (optional)

**AC** Domestic hot water outlet (optional)

**AF** Domestic cold water inlet (optional)

**RC** Recirculation (optional)

**UCS** Delivery to solar collectors (optional)

**EFS** Return from solar collectors (optional)

**V** Electrical connections

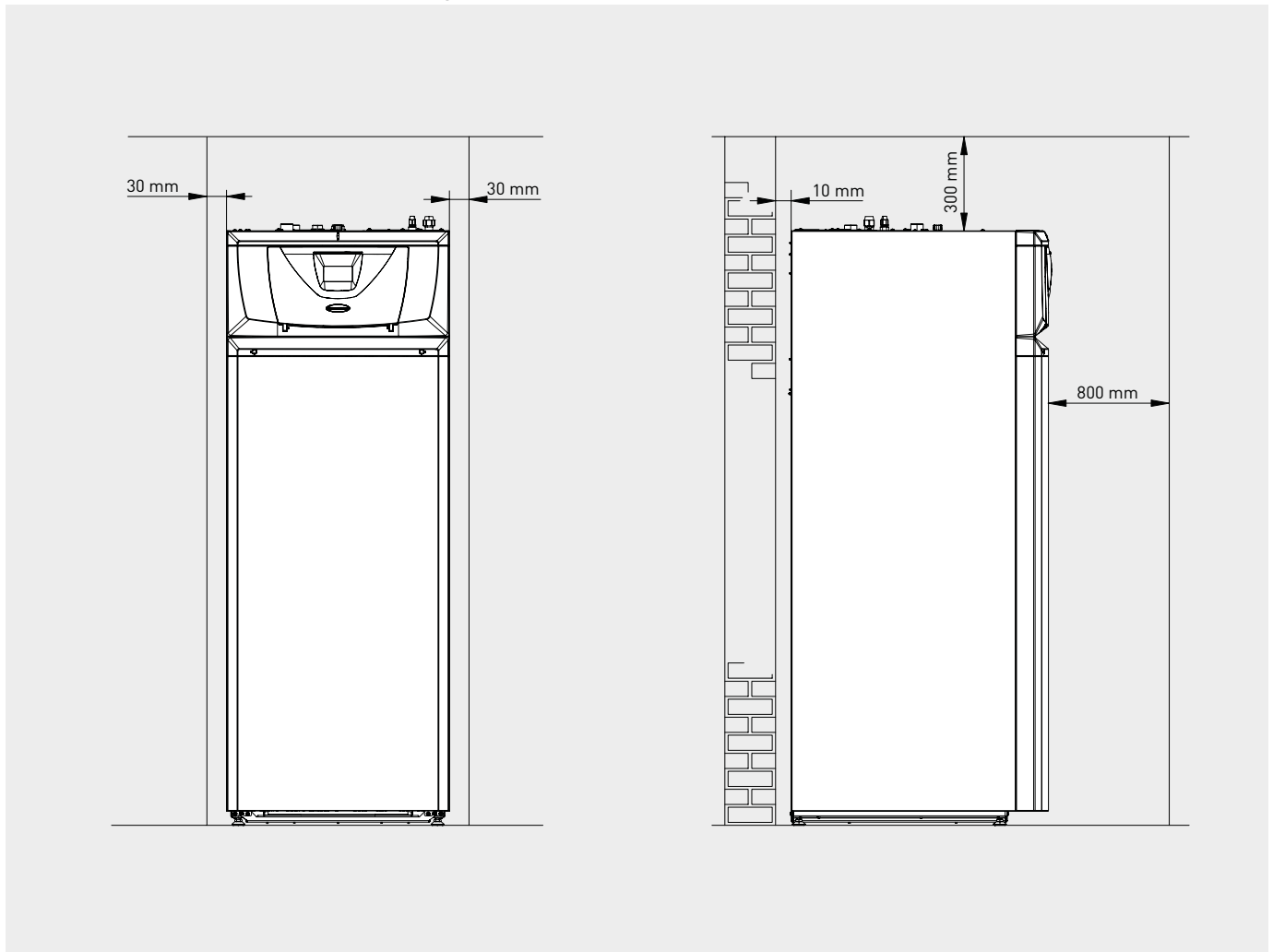
**RR** System filling

#### Connections MAGIS HERCULES PRO MINI 6/9/6 EH/9 EH

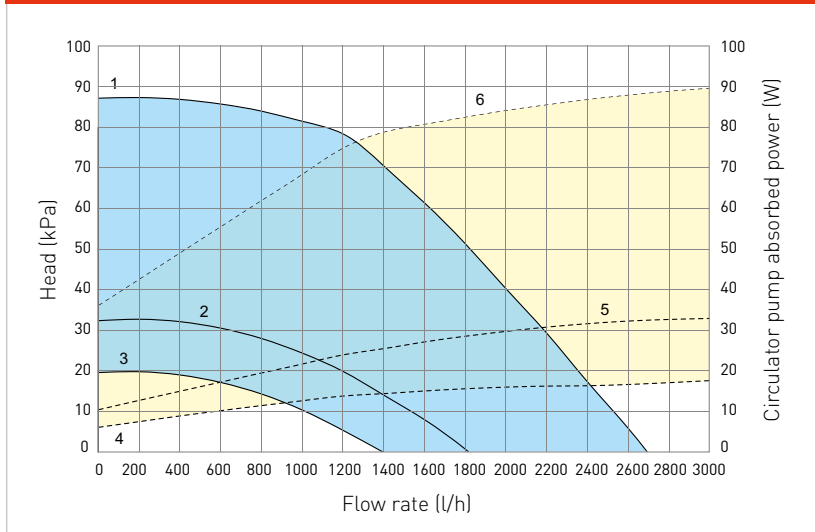
R32		D.H.W.			Recirculation	System			
LP	GP	AC	AF	RR	RC	M	R	UCS	EFS
SAE $\frac{1}{4}$ "	SAE $\frac{5}{8}$ "	G $\frac{3}{4}$ "	G $\frac{3}{4}$ "	G $\frac{3}{4}$ "	G $\frac{3}{4}$ "	G1"	G1"	G $\frac{3}{4}$ "	G $\frac{3}{4}$ "



Minimum distances for floor-standing indoor unit



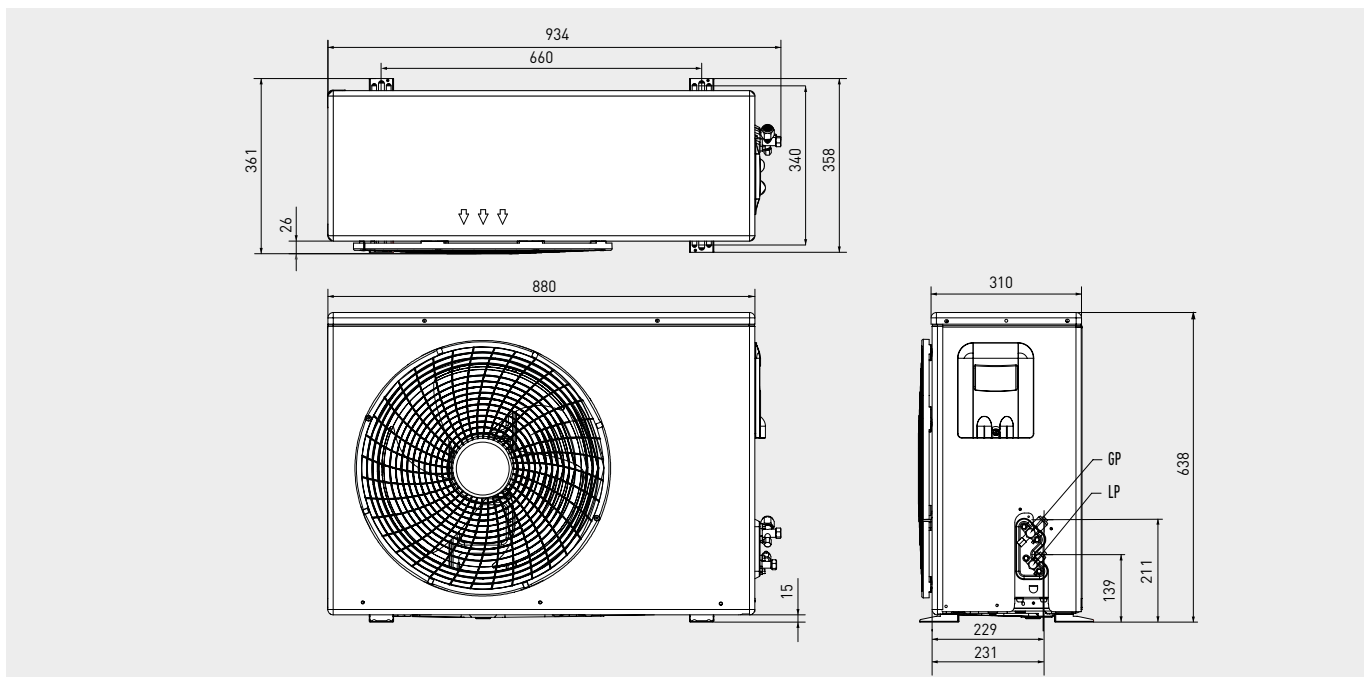
MAGIS HERCULES PRO MINI 6/9/6 EH/9 EH  
direct zone (as standard)



Key

- 1 = Head available to the system PWM 100%
- 2 = Head available to the system PWM 60% (minimum head that can be set for the product with system electric heater)
- 3 = Head available to the system PWM 50% (minimum head that can be set for the product with system electric heater)
- 4 = Absorbed power by the circulator PWM 50%
- 5 = Absorbed power by the circulator PWM 60%
- 6 = Absorbed power by the circulator PWM 100%

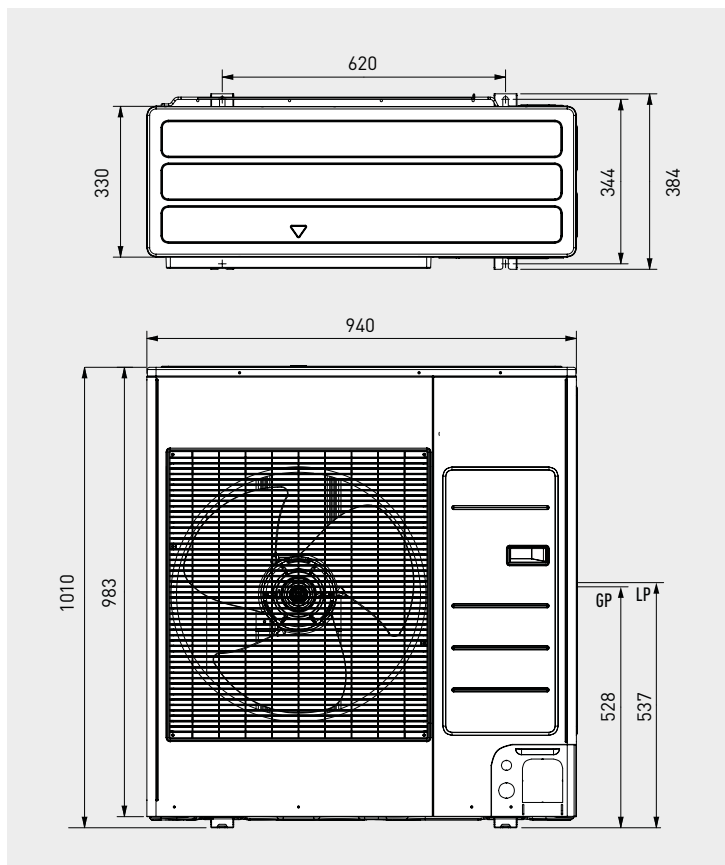
Outdoor unit 6 V2 for MAGIS HERCULES PRO MINI



Connections

R32	
GP (gaseous phase)	LP (liquid phase)
$\frac{5}{8}$ " (15,88 mm)	$\frac{1}{4}$ " (6,35 mm)

Outdoor unit 9 V2 for MAGIS HERCULES PRO MINI



Connections

R32	
GP (gaseous phase)	LP (liquid phase)
$\frac{5}{8}$ " (15,88 mm)	$\frac{1}{4}$ " (6,35 mm)



# MAGIS HERCULES PRO

Split type floor standing heat pump with 235 litres  
DHW storage tank





### **ADVANCED SOLUTIONS FOR NEW HOUSES**

MAGIS HERCULES PRO offers a wide range of models: **single-phase with R32 refrigerant gas of 4, 6, 9 kW and single-phase or three-phase with R410A refrigerant gas of 12, 14, 16 kW.**

They are highly efficient appliances, perfect for obtaining the highest energy classes in new residential buildings of large dimensions and **combining in the most effective way with photovoltaic** systems in order to obtain domestic hot water, heating and cooling with the free energy of the sun.

### **"ALL IN ONE" APPLIANCES AND MAXIMUM DHW COMFORT**

Easy to assemble because they join, inside the single casing, **the 235-liter DHW storage tank, inertial storage and the ability to manage systems up to 3 zones**, all with a complete range of accessories. The suffix "PRO" refers to the requirement for installation by professionals, with F-GAS certification for the refrigeration connections between the 2 units.





## MAIN FEATURES INDOOR UNIT

72 plates refrigerant/ water exchanger

**235-litres DHW stainless steel storage tank**

**45-litres buffer tank**, working also as hydraulic manifold with set up for integration of 1 or 2 heating system integrative electric heater 3-kW (available as optional kit)

**2,3-kW DHW electric heater supplied as standard**

(possible installation of 1 or 2 further DHW heaters - available as optional kit)

24-litres expansion vessel for heating system

16-litres DHW expansion vessel

3-way valve for DHW/ System

**Flow-meter** that switch on the heat pump when the water flow rate is enough

Shut off knobs with "Y" filter as standard

Protection index IPX5D (approved for indoor installation only)





### MAIN FEATURES INDOOR UNIT

Equipped with one pump to manage one direct zone, as standard. The casing of the indoor unit can contain 2 further pumps and 2 mixing valves, thus managing a total of 3 zones (1 direct and 2 mixed).

Kit	Description	Code
Additional mixed 2nd zone kit for MAGIS HERCULES PRO 4-6-9	Composed by: 1 low consumption pump, mixing valve and connection pipes.	3.030855
Additional mixed 2nd zone kit for MAGIS HERCULES PRO 12/14/16/12T/14T/16T	Composed by: 1 low consumption pump, mixing valve and connection pipes.	3.030943
Additional mixed 3rd zone kit for MAGIS HERCULES PRO 4-6-9	Composed by: 1 low consumption pump, 1 mixing valve, connection pipes and expansion.	3.030856
Additional mixed 3rd zone kit for MAGIS HERCULES PRO 12/14/16/12T/14T/16T	Composed by: 1 low consumption pump, 1 mixing valve, connection pipes and expansion.	3.030944





**SUPPLIED AS A SINGLE PACKAGE, THE INDOOR UNIT MAY BE SEPARATED INTO TWO UNITS**

In order to simplify the work of installers, the design of MAGIS HERCULES PRO has been particularly careful to handling and transport aspects.

The floor-standing indoor unit of MAGIS HERCULES PRO, thanks to suitable mechanical and electrical arrangements, **can be divided into 2 sections** halving its volume and weight thus facilitating the handling in the installation sites.

## MAIN FEATURES OUTDOOR UNIT

**Inverter technology** rotative compressor

**Preloaded refrigerant GAS R32 (4/6/9 versions)**

**Preloaded refrigerant GAS R410A (12/14/16/12T/14T/16T versions)**

Shut off knobs for refrigerant gas circuit as standard

Air finned heat exchanger (with single fan in 4/6/9 versions, with double fan in 12/14/16/12T/14T/16T versions)

Electronic lamination valve bi-flow

4-way valve for cycle inversion

**Heating and cooling operation (reversible)**

Approved for installation outdoor without protection



*Outdoor unit 14 V2*



### USER INTERFACE

Interface equipped with cover hatch for control panel provided with opening for visibility of the wide and backlit display.

The controls are composed of LED touch buttons with sound effect and encoders for adjustments.

### ELECTRONICS

Hydraulic and electric parts are managed directly by MAGIS HERCULES PRO electronics, therefore they are not additional supervision boards required.

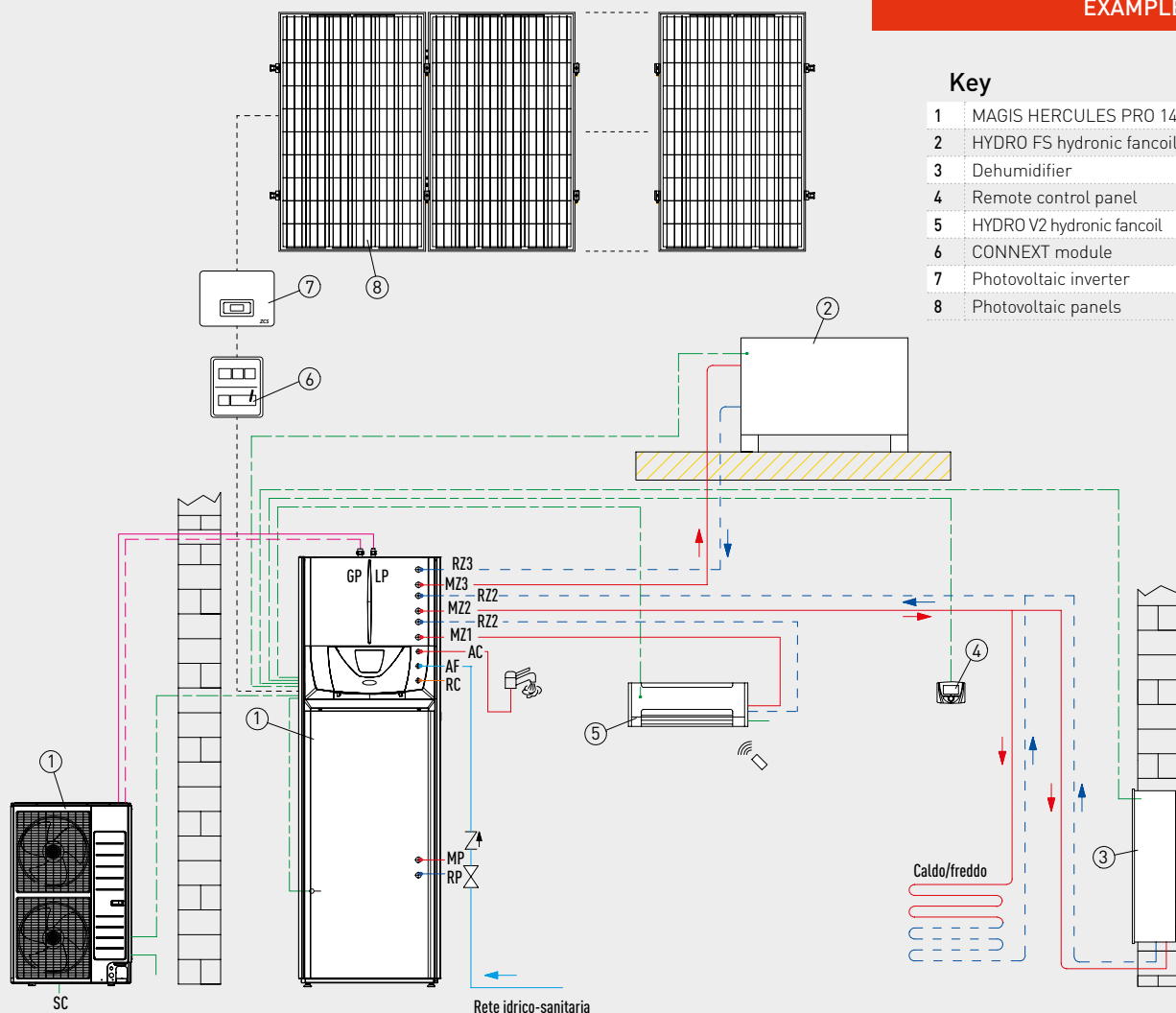
The main adjustment and control functions take place from the dashboard:

- the time slots scheduling and related climatic curves for each circuit/zone (both for heating and cooling);
- identification of the operating mode of each single zone by choosing between heating only, cooling only, heating/cooling, heating/cooling with dehumidification, cooling only with dehumidification.

In addition, the **Remote control panel (code 3.030863)** and the **ModBus temperature and humidity sensor (code 3.030992)** allow easy connection and communication with the electronic board, integrated into the casing of the MAGIS HERCULES PRO indoor unit, in managing time slots, temperature and humidity of each single zone.

## Key

- |   |                           |
|---|---------------------------|
| 1 | MAGIS HERCULES PRO 14     |
| 2 | HYDRO FS hydronic fancoil |
| 3 | Dehumidifier              |
| 4 | Remote control panel      |
| 5 | HYDRO V2 hydronic fancoil |
| 6 | CONNEXT module            |
| 7 | Photovoltaic inverter     |
| 8 | Photovoltaic panels       |



## EXAMPLE OF SOLUTION WITH MAGIS HERCULES PRO 14 WITH 3 ZONES ( 1 DIRECT AND 2 MIXED), DEHUMIDIFICATION AND PHOTOVOLTAIC

### Heating mode

The remote control panel linked to radiant panels (4) or the request contacts from the hydronic fancoils, turn on the winter mode. If present the heating resistance integration (optional) the electronics switches it on when the set temperature is not reached within the maximum time and if the outside temperature is below a defined value (both parameters can be set). It is also possible to set the activation of heat pump and heating resistance (alternating or contemporary on the same service).

### Cooling mode

The remote control panel linked to radiant panels (4) or the request contacts from the hydronic fancoils, turn on the summer mode.

### Domestic hot water mode

When the DHW temperature drops below the set point, the electronics turns on the heat pump. The electric resistance of the storage tank is switched on when the set temperature is not reached within the maximum time and if the outside temperature is below a defined value (both parameters can be set). It is also possible to set the activation of heat pump and heating resistance alternating, contemporary (on the same service) or concurrent (on two different services, e.g. request for heating/cooling and DHW).

NOTE: In the case of photovoltaic production, the DHW storage tank is heated to the maximum temperature exclusively by the heat pump. In case of a simultaneous domestic hot water and system request, the system will decide which service to satisfy to ensure the best possible comfort.



Technical characteristics	Unit of measurement	MAGIS HERCULES PRO 4	MAGIS HERCULES PRO 6	MAGIS HERCULES PRO 9
Code		3.030428	3.030429	3.030430
Energetic class in heating at 35 °C		A+++	A+++	A+++
Energetic class in heating at 55 °C		A++	A++	A++
Energetic class DHW/load profile		A/L	A/L	A/XL
Refrigerant quantity (R32)	g	1.200	1.200	1.400
Length limit refrigerant line*	m	30	30	35
Heating capacity (system water 35 °C)	kW	4,40	6,00	9,00
Heating capacity (system water 45 °C)	kW	4,20	5,40	8,60
Heating capacity (system water 55 °C)	kW	3,90	4,80	8,00
Flow temperature range (C.H.)**	°C	20-65	20-65	20-65
COP (system water 35 °C)		5,20	4,92	4,81
COP (system water 45 °C)		3,85	3,58	3,69
COP (system water 55 °C)		2,95	2,65	2,93
Cooling capacity (system water 18 °C)	kW	5,00	6,50	8,70
Cooling capacity (system water 7 °C)	kW	3,60	4,70	6,50
Flow temperature range (cooling)	°C	5 - 25	5 - 25	5 - 25
EER (system water 18 °C)		4,59	4,42	4,12
EER (system water 7 °C)		3,24	3,26	3,33
Heat pump power absorbed***	W	850	1.220	1.870
Power supply	V - Hz	230 - 50	230 - 50	230 - 50
Outdoor unit weight (empty)	kg	46,5	46,5	73
DATA REFERRED TO INDOOR FLOOR-STANDING UNIT				
Expansion vessel capacity (C.H.)	l	24	24	24
Expansion vessel capacity (D.H.W.)	l	16	16	16
Electric power absorbed	W	135	135	135
Electrical absorption DHW integrative resistance	kW	2,3	2,3	2,3
Max operating pressure hydronic circuit	bar	3	3	3
Protection index	IP	X5D	X5D	X5D
D.H.W. temperature range**	°C	10-65	10-65	10-65
Indoor unit weight (empty)	kg	211	211	211

\* The maximum lengths require the integration of R410A more than the preload; with the preload it is possible to develop maximum lengths of 15 m.

\*\* The maximum values can be reached with the contribution of electric resistances. To know the correlation between delivery temperature and external temperature consult the technical data sheet of the product.

\*\*\* T. system water (D/R) - air (bs/bu) 35/30 °C - 7/6 °C.

Referred to the following conditions:

Environment	Heating (°C)	Cooling (°C)
T system water (D/R) - air (bs/bu)	35/30 - 7/6	18/23 - 35 (bs)
T system water (D/R) - air (bs/bu)	45/40 - 7/6	7/12 - 35 (bs)
T system water (D/R) - air (bs/bu)	55/47 - 7/6	

For more information consult the technical sheet or the website [immergas.com](http://immergas.com)



Technical characteristics	Unit of measurement	MAGIS HERCULES PRO 12	MAGIS HERCULES PRO 14	MAGIS HERCULES PRO 16	MAGIS HERCULES PRO 12 T	MAGIS HERCULES PRO 14 T	MAGIS HERCULES PRO 16 T
Code		3.030431	3.030432	3.030433	3.030434	3.030435	3.030436
Energetic class in heating at 35 °C		A+++	A+++	A++	A+++	A+++	A++
Energetic class in heating at 55 °C		A+	A+	A+	A+	A+	A+
Energetic class DHW/load profile		A/XL	A/XL	A/XL	A/XL	A/XL	A/XL
Refrigerant quantity (R410A)	g	2.980	2.980	2.980	2.980	2.980	2.980
Length limit refrigerant line*	m	50	50	50	50	50	50
Heating capacity (system water 35 °C)	kW	12,00	14,00	16,00	12,00	14,00	16,00
Heating capacity (system water 45 °C)	kW	11,50	13,00	15,30	11,50	13,00	15,30
Heating capacity (system water 55 °C)	kW	11,01	12,45	14,60	11,01	12,45	14,60
Flow temperature range (C.H.)**	°C	20 - 55	20 - 55	20 - 55	20 - 55	20 - 55	20 - 55
COP (system water 35 °C)		4,63	4,44	4,26	4,63	4,44	4,26
COP (system water 45 °C)		3,56	3,47	3,37	3,56	3,47	3,37
COP (system water 55 °C)		2,87	2,80	2,74	2,87	2,80	2,74
Cooling capacity (system water 18 °C)	kW	12,00	14,00	15,00	12,00	14,00	15,00
Cooling capacity (system water 7 °C)	kW	9,00	10,50	11,20	9,00	10,50	11,20
Flow temperature range (cooling)	°C	5 - 25	5 - 25	5 - 25	5 - 25	5 - 25	5 - 25
EER (system water 18 °C)		3,87	3,68	3,62	3,87	3,68	3,62
EER (system water 7 °C)		2,90	2,80	2,80	2,90	2,80	2,80
Heat pump power absorbed***	W	2.590	3.150	3.760	2.590	3.150	3.760
Power supply	V - Hz	230 - 50	230 - 50	230 - 50	400 - 50	400 - 50	400 - 50
Outdoor unit weight (empty)	kg	100	100	100	100	100	100
DATA REFERRED TO INDOOR FLOOR-STANDING UNIT							
Expansion vessel capacity (C.H.)	l	24	24	24	24	24	24
Expansion vessel capacity (D.H.W.)	l	16	16	16	16	16	16
Electric power absorbed	W	205	205	205	205	205	205
Electrical absorption DHW integrative resistance	kW	2,3	2,3	2,3	2,3	2,3	2,3
Max operating pressure hydronic circuit	bar	3	3	3	3	3	3
Protection index	IP	X5D	X5D	X5D	X5D	X5D	X5D
D.H.W. temperature range**	°C	10 - 65	10 - 65	10 - 65	10 - 65	10 - 65	10 - 65
Indoor unit weight (empty)	kg	212	212	212	212	212	212

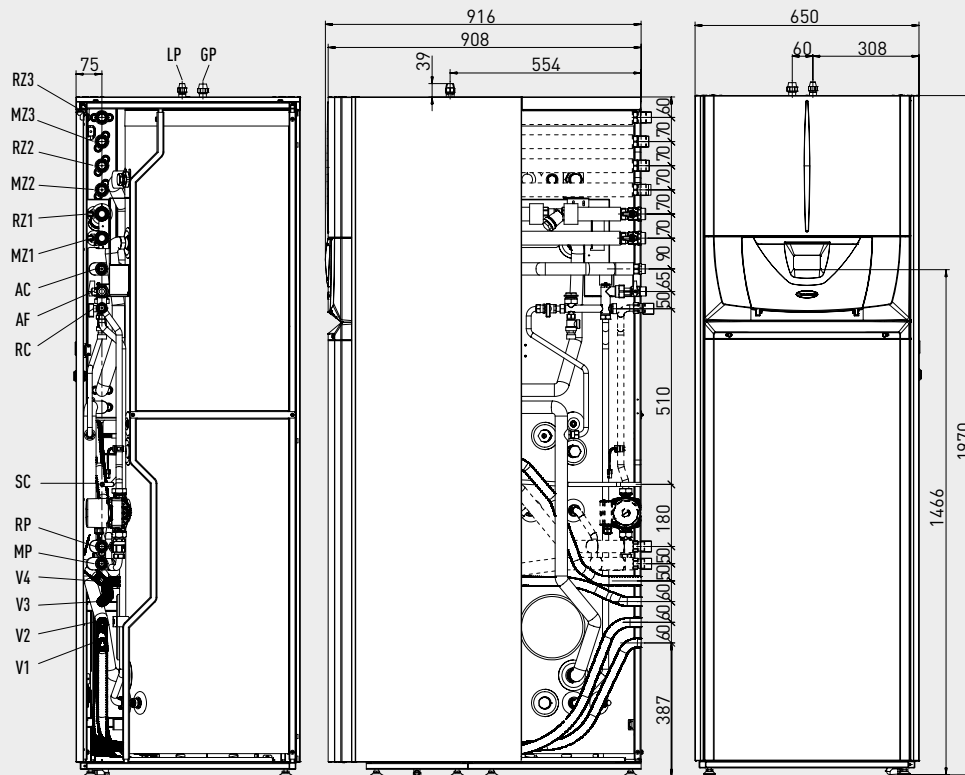
\* The maximum lengths require the integration of R410A more than the preload; with the preload it is possible to develop maximum lengths of 15 m.

\*\* The maximum values can be reached with the contribution of electric resistances. To know the correlation between delivery temperature and external temperature consult the technical data sheet of the product.

\*\*\* T. system water (D/R) - air (bs/bu) 35/30 °C - 7/6 °C.



**MAGIS HERCULES PRO**



**Key**

- |   |   |
|---|---|
| <b>RP</b> Return from solar collectors (optional) | <b>AF</b> Domestic cold water inlet                                   |
| <b>MP</b> Delivery to solar collectors (optional) | <b>RC</b> Recirculation (optional)                                    |
| <b>RZ3</b> Return 3d mixed zone (optional)        | <b>SC</b> Condensate water drain                                      |
| <b>MZ3</b> Delivery 3rd mixed zone (optional)     | <b>GP</b> Chiller line - gaseous phase (optional)                     |
| <b>RZ2</b> Return 2nd mixed zone (optional)       | <b>LP</b> Chiller line - liquid phase (optional)                      |
| <b>MZ2</b> Delivery 2nd mixed zone (optional)     | <b>V1</b> Electrical connections 3rd zone                             |
| <b>RZ1</b> Return 1st direct zone                 | <b>V2</b> Electrical connections integrative resistances power supply |
| <b>MZ1</b> Delivery 1st direct zone               | <b>V3</b> Electrical connections alimentation cable                   |
| <b>AC</b> Domestic hot water outlet               | <b>V4</b> Main electrical connections                                 |

**Connections MAGIS HERCULES PRO 4/6/9**

R32		D.H.W.		Recirculation	System							
LP	GP	AC	AF	RC	RP	MP	RZ1	MZ1	RZ2	MZ2	RZ3	MZ3
SAE <sup>3</sup> / <sub>8</sub> "	SAE <sup>5</sup> / <sub>8</sub> "	G <sup>3</sup> / <sub>4</sub> "	G <sup>3</sup> / <sub>4</sub> "	G <sup>3</sup> / <sub>4</sub> "	G <sup>3</sup> / <sub>4</sub> "	G <sup>3</sup> / <sub>4</sub> "	G1"	G1"	G1"	G1"	G1"	G1"

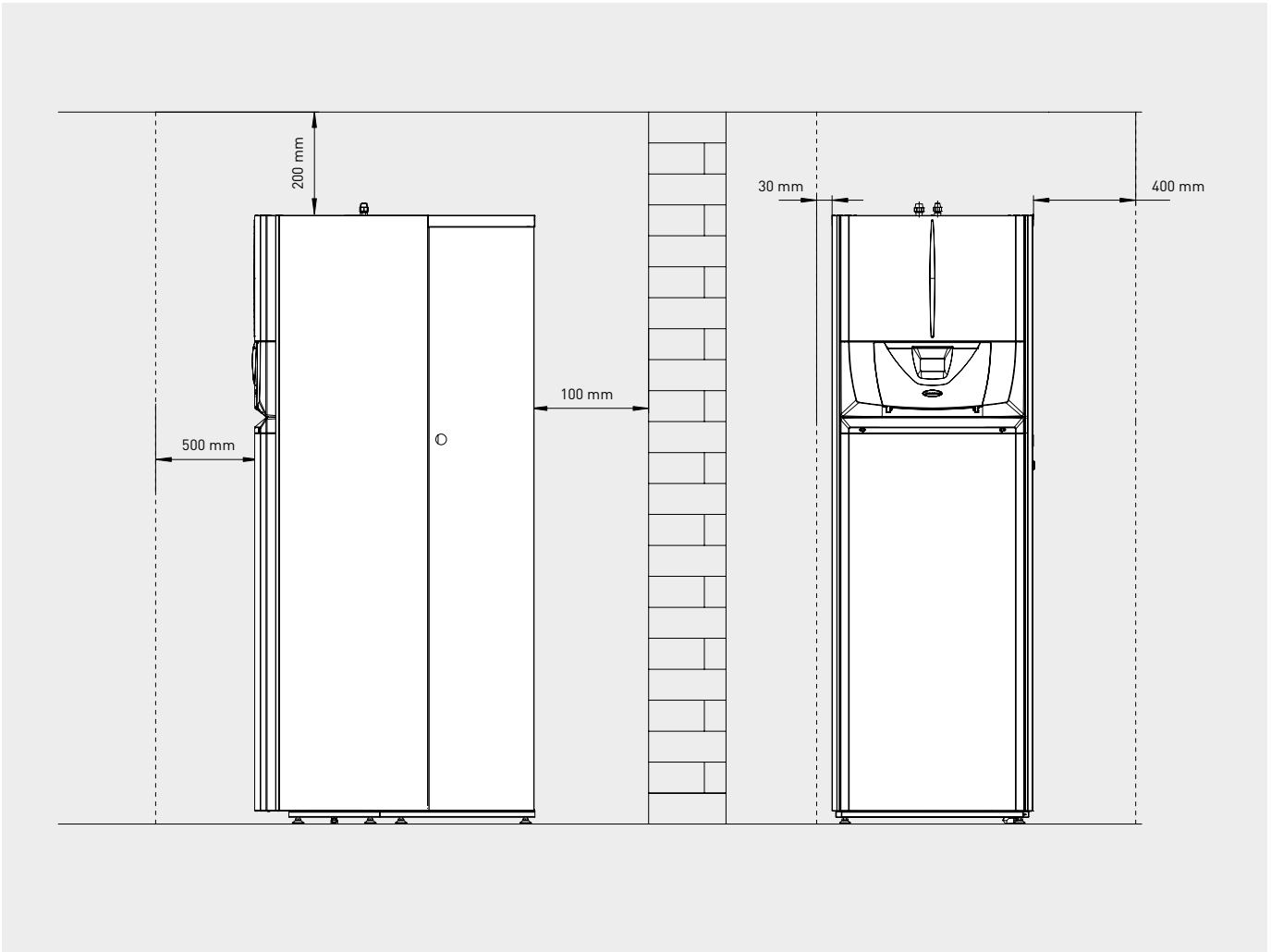
**Connections MAGIS HERCULES PRO 12/14/16/12T/14T/16T**

R410A		D.H.W.		Recirculation	System							
LP	GP	AC	AF	RC	RP	MP	RZ1	MZ1	RZ2	MZ2	RZ3	MZ3
SAE <sup>3</sup> / <sub>8</sub> "	SAE <sup>5</sup> / <sub>8</sub> "	G <sup>3</sup> / <sub>4</sub> "	G <sup>3</sup> / <sub>4</sub> "	G <sup>3</sup> / <sub>4</sub> "	G <sup>3</sup> / <sub>4</sub> "	G <sup>3</sup> / <sub>4</sub> "	G1"	G1"	G1"	G1"	G1"	G1"

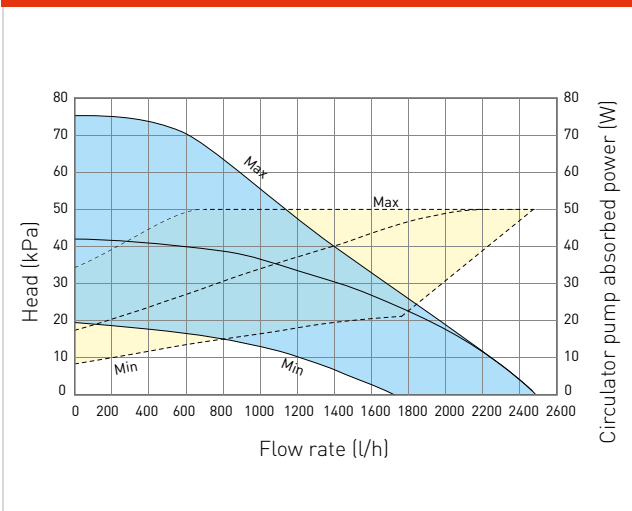




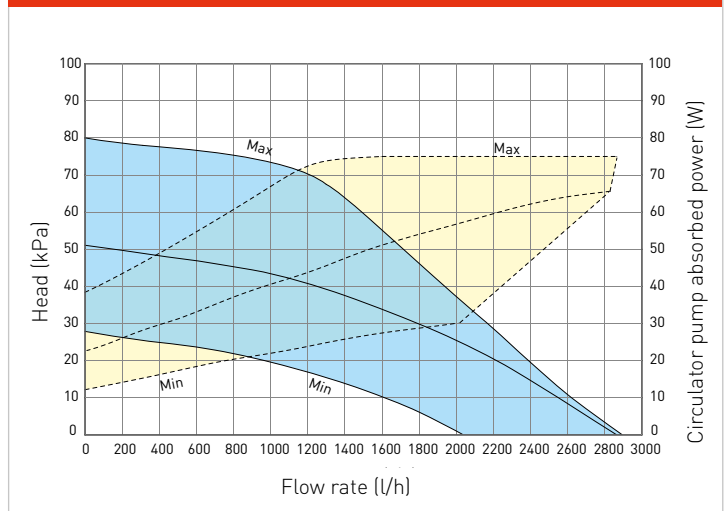
Minimum distances for floor-standing indoor unit



MAGIS HERCULES PRO 4/6/9  
1st direct zone (as standard) fixed speed



MAGIS HERCULES PRO 12/14/16/12T/14T/16T  
1st direct zone (as standard) fixed speed

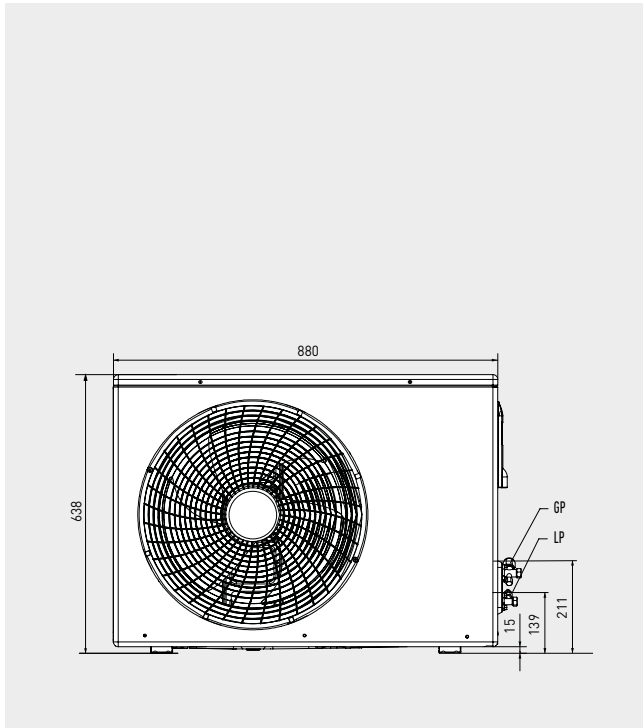


Key

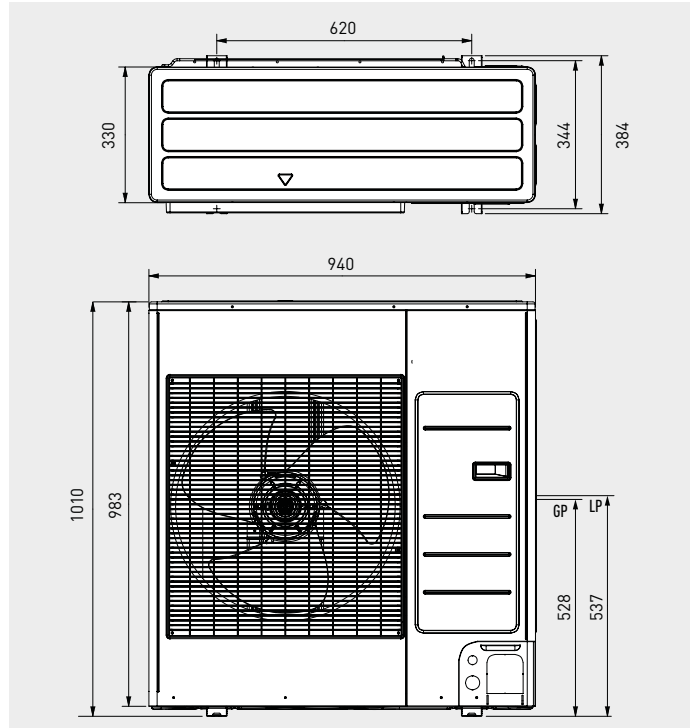
- Head available to the system
- Absorbed power by the circulator (dotted area)



Outdoor unit 4/6 V2 for MAGIS HERCULES PRO



Outdoor unit 9 V2 for MAGIS HERCULES PRO

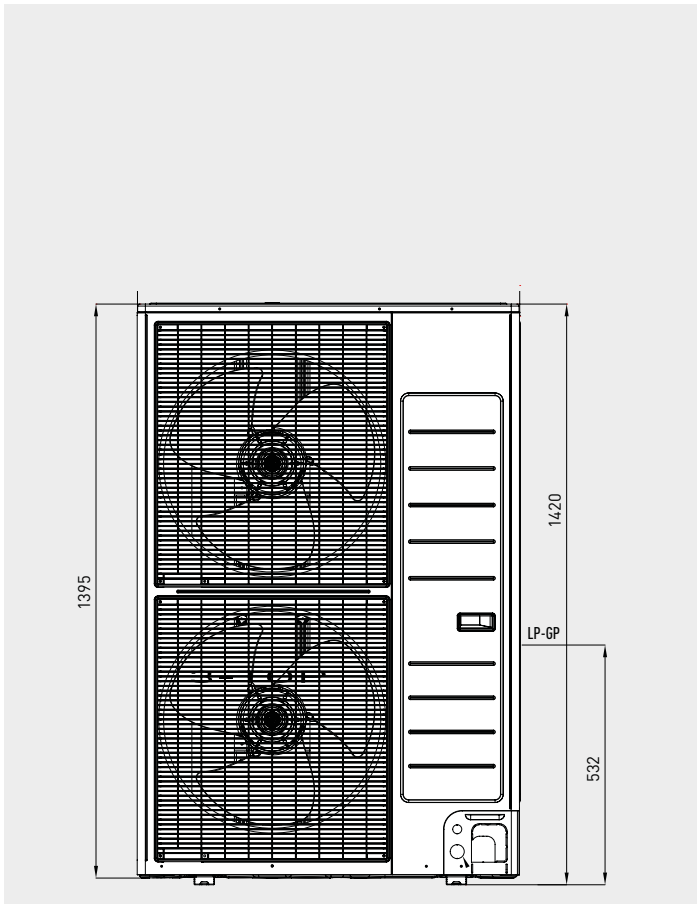


**Connections**

R32

GP (gaseous phase)	LP (liquid phase)
5/8" (15,88 mm)	1/4" (6,35 mm)

Outdoor unit 12/14/16/12T/14T/16T V2 for MAGIS HERCULES PRO



**Connections**

R410A


GP (gaseous phase)	LP (liquid phase)
5/8" (15,88 mm)	3/8" (9,52 mm)

Combining MAGIS HERCULES PRO/MINI with a thermoregulation device is an excellent investment because it improves the seasonal energy efficiency of the system. For each of the following thermoregulation devices we therefore stated a class which gives you the percentage value of increased efficiency.

### Zone remote control panel

Type		Code
<p>Modulating chronothermostat, remote control with temperature/humidity sensor.</p> <p>Temperature control class V* o VI Contribution to seasonal space heating energy efficiency 3%* or 4%</p>	 <p>Dimensions (H x W x D) mm 100 x 129 x 37</p>	3.030863

### Mod-bus temperature and humidity sensor

<p>To be used with radiant systems that also work in cooling mode.</p> <p>Temperature control class V o VI* Contribution to seasonal space heating energy efficiency 3% or 4%*</p>	 <p>Dimensions (H x W x D) mm 80 x 127 x 30</p>	3.030992
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### CRONO 7

<p>ON/OFF room thermostat.</p> <p>Temperature control class IV* o VII Contribution to seasonal space heating energy efficiency 2%* o 3,5%</p>	 <p>Dimensions (H x W x D) mm 103 x 142 x 31</p>	3.021622
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Disponibile anche in versione WIRELESS - senza fili - cod. 3.021624.

### Room hygrostat

<p>To be used with radiant systems that also work in cooling mode.</p>	 <p>Dimensions (H x W x D) mm 70 x 115 x 40</p>	3.023302
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### DOMINUS interface kit

<p>Wi-fi interface kit to remote control by App</p>	 <p>Dimensions (H x W x D) mm 100 x 75 x 45</p>	3.026273
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### External probe

<p>To be used when external probe as standard in outdoor unit is not correctly exposed.</p> <p>Temperature control class II*, VI o VII Contribution to seasonal space heating energy efficiency 2%*, 4% or 3,5%</p>		3.015266
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### Safety thermostat kit


<p>For direct zone.</p>		3.019229
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### System delivery probe kit

<p>To be used with MAGIS HERCULES PRO to control the temperature of zone 1 and to turn on electrical heaters. With MAGIS HERCULES PRO MINI to control the temperature of direct zones with zone kit.</p>		3.030913
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\* Temperature control class with default settings. Some heat regulation device can change class depending on the settings and operation modes that can be changed, for example Modulating or ON/OFF. The use of these devices contributes, in percentage, to the seasonal energy efficiency of the heating system.

Expansion kit



Type		Code
For MAGIS HERCULES PRO MINI. Needed to control temperature system of possible third zone.		3.031944

2 relay kit

For MAGIS HERCULES PRO MINI. Needed to control dehumidifier, summer/winter three way valve and recirculation pump.		3.031943
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OPTION KITS

Electric heater kit



Type		Code
3 kW integration system electric heater kit. Possible installation of 1 for MAGIS HERCULES PRO MINI and until 2 for MAGIS HERCULES PRO*. As standard for MAGIS HERCULES PRO MINI EH versions		3.030899
For MAGIS HERCULES PRO MINI. System integrative electrical resistance adjustable to 2, 4 or 6 kW (to be installed inside the home). 230 or 400 Vac power supply.		3.021525

\* Enabling the heater, when installed with MAGIS HERCULES PRO, requires the system delivery probe kit code 3.030913 (optional).

DHW integration electric heater

For MAGIS HERCULES PRO DHW 2,3 kW integration electric heater, possible installation of 1-2 further resistances (over the one as standard). Enabling the heater requires the system delivery probe kit code 3.030913 (optional).		3.030862
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Recirculation kit with pump

For MAGIS HERCULES PRO. To be installed inside the casing.		3.030858
For MAGIS HERCULES PRO MINI. <b>NEW</b>		3.033217

Connection kit for gas refrigerant circuit for MAGIS HERCULES PRO

For R32 circuit (allow an easy connection of the refrigerant circuit in the case of pipes coming out from the indoor unit rear wall).		3.031505
For R410A circuit (allow an easy connection of the refrigerant circuit in the case of pipes coming out from the indoor unit rear wall).		3.031506


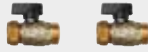
## Solar kit

Type		Code
For MAGIS HERCULES PRO. Composed by: plate heat exchanger, single solar pump station (with low consumption circulation pump), solar central unit, shut off knobs, connection pipes, mixing valve, 18 litre solar expansion vessel, temperature probes (for collectors and storage tank). N.B.: For solar panel and other solar accessories see the solar catalogue.		3.030857
For MAGIS HERCULES PRO MINI. <b>NEW</b> Composed by: plate heat exchanger, single solar pump station (with low consumption circulation pump), solar central unit, shut off knobs, connection pipes, mixing valve, 18 litre solar expansion vessel, temperature probes (for collectors and storage tank). N.B.: For solar panel and other solar accessories see the solar catalogue.	 Dimensions (H x W x D) mm 730 x 780 x 300	3.033210

## Anti-scale kit

For MAGIS HERCULES PRO. To be installed inside the casing.		3.030859
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## Shut off knobs kit

For MAGIS HERCULES PRO. Shut off knobs 1" with filters, (for zones 2 and 3, only); standard for zone 1.		3.030861
Shut off knobs 1".		3.030860

## 2nd mixed zone kit

For MAGIS HERCULES PRO 4/6/9. Composed by: 1 low consumption pump, mixing valve and connection pipes.		3.030855
For MAGIS HERCULES PRO 12/14/16/12 T/14 T/16 T. Composed by: 1 low consumption pump, mixing valve and connection pipes.		3.030943

## 3rd mixed zone kit




For MAGIS HERCULES PRO 4/6/9. Composed by: 1 low consumption pump, 1 mixing valve, connection pipes and expansion.		3.030856
For MAGIS HERCULES PRO 12/14/16/12 T/14 T/16 T. Composed by: 1 low consumption pump, 1 mixing valve, connection pipes and expansion.		3.030944

## 3 way diverter valve kit

To be used as diverter valve for heating/cooling switching.		3.020632
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## 2 zones kit for MAGIS HERCULES PRO MINI

Type		Code
2 heating/cooling zones kit (one direct and one mixed).	 <p>Dimensions (H x W x D) mm 700 x 450 x 190</p>	3.026301
2 direct zones, heating only. <b>NEW</b>	 <p>Dimensions (H x W x D) mm 700 x 450 x 190</p>	3.032264
2 zones kit, one direct and one mixed, heating only. <b>NEW</b>	 <p>Dimensions (H x W x D) mm 700 x 450 x 190</p>	3.032265


## Wall mounting brackets kit

For external unit. <b>NEW</b>		3.034758
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## Electronic anode kit

Useful to protect the storage tank from eddy currents.		3.025003
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## Dehumidification

Dehumidifier kit*		3.021529
Dehumidifier back frame kit *		3.022146
Dehumidifier front grille kit*		3.022147

\* To be used with radiant systems that also work in cooling mode.


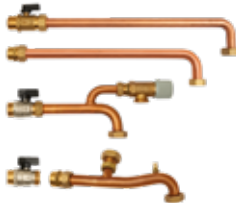
## ZENITAIR-MONO

Type		Code
Mechanical bidirectional ventilation unit		3.030601

## External cover kit with acoustical insulation for ZENITAIR-MONO

Anti-insect net and anti-wind in pre-painted steel.		3.030636
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## Connection kit for MAGIS HERCULES PRO MINI

MAGIS HERCULES PRO MINI hydraulic connection kit. <b>NEW</b>		3.033215
MAGIS HERCULES PRO MINI hydraulic connection kit with by-pass. <b>NEW</b>		3.034333
Refrigerant R32 connection kit <b>NEW</b> for connecting gas fittings to the rear wall		3.033211
Connection cover kit <b>NEW</b>		3.034183

MAGIS HERCULES PRO/MINI can be combined with the fancoil range (wall-hung, floor standing and built-in). For information, consult the documentation which can be downloaded from the website [immergas.com](http://immergas.com)



[immergas.com](http://immergas.com)



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Design, manufacture and post-sale assistance of gas  
boilers, gas water heaters and related accessories