

HYBRID SYSTEM AND
HEAT PUMP ONLY



IMMERGAS

SUPER TRIO

Solution for
new buildings



SUPER TRIO

Solution for new buildings

Heating in winter, cooling in summer even in extended homes and a lot of domestic hot water all year round with the 250 liter storage tank.

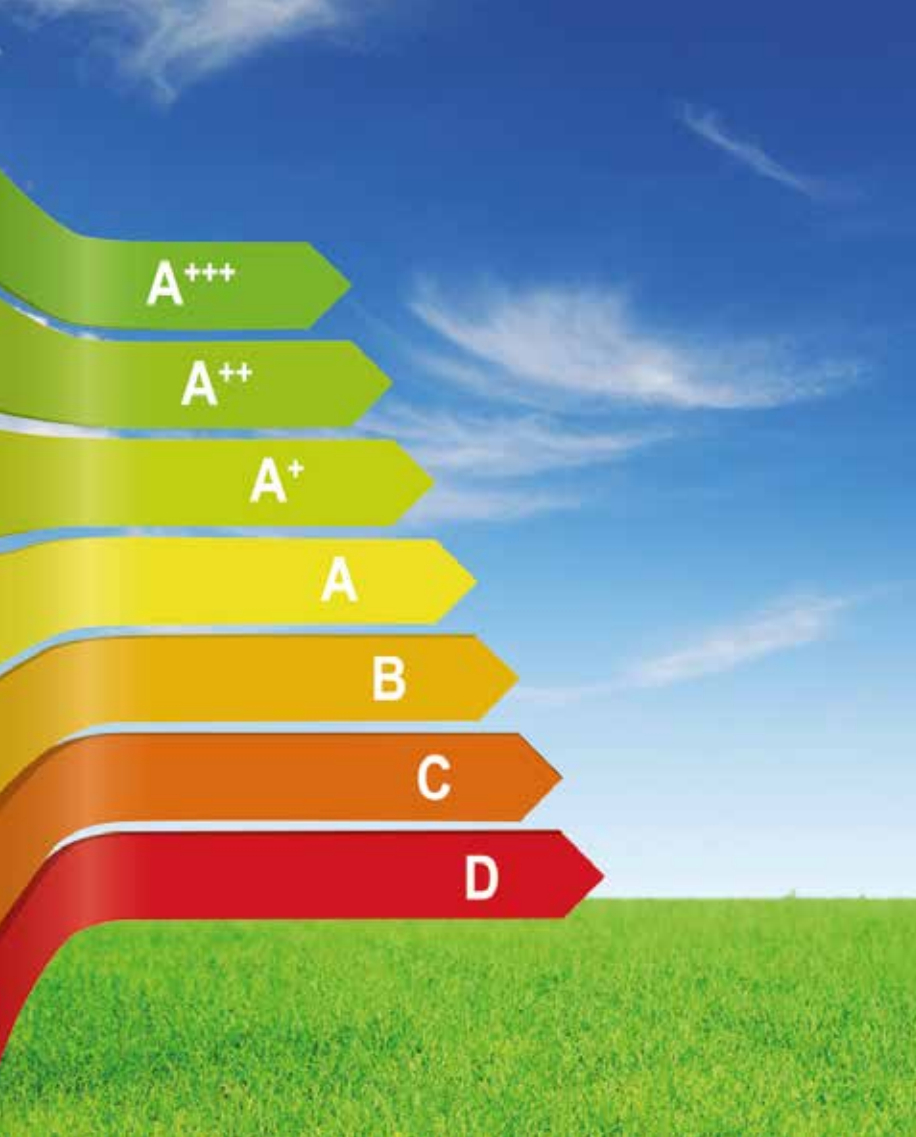
SUPER TRIO is the solution designed to create hybrid systems or heat pump only solutions in large apartments and villas, to more easily comply with the obligations on the use of renewable energy in new plants and renovations.

After TRIO and BASIC MAGIS PRO, thanks to SUPER TRIO the range of Immergas hydronic groups it is enriched with a product of **great application flexibility**, useful for developing different systems, highly demanded by the market, **easily installable in a specific recessed frame or technical box**.

SUPER TRIO is designed to integrate with the new air/water splitted heat pumps MAGIS PRO V2 and moreover is suitable for hybrid heat pumps such as MAGIS COMBO PLUS, which have a condensing internal unit. In any case **SUPER TRIO allows to combine also photovoltaic and solar thermal** to better adapt to available energy sources.

The SUPER TRIO hydronic unit is installed in contained spaces both recessed with the CONTAINER dedicated, and in domestic environments with DOMUS CONTAINER: the specific technical box with clean and linear aesthetics.





**Renewable
sources use**



**Less energy
consumption**



**More value to
real estate**

MORE VALUE TO PROPERTY

Combined with the heat pump, SUPER TRIO respects the obligations on the use of renewable sources and provides 3 different services: heating, cooling and domestic hot water in large quantity. SUPER TRIO allows also to achieve very high energy classes in new homes and to improve the class energy of the building /system on the existing ones. This allows the value per square meter of the home grows and the investment pays off immediately.

SPACE-SAVING SOLUTIONS

SUPER TRIO integrates into the building structures and saves living space thanks to the specific CONTAINER for recessed installation. The technical box DOMUS CONTAINER allows indoor installations with rigorous and clean aesthetics.

GREAT COMFORT FOR MULTIPLE BATHROOMS AND WHIRLPOOL

With a 250 litres storage tank, SUPER TRIO supplies single homes, houses, apartments large in size or requiring a lot of domestic hot water when installing tanks whirlpool or multiple withdrawals are expected.

LESS ENERGY CONSUMPTION FOR HOT WATER

SUPER TRIO allows to integrate the production of domestic hot water both with the heat pump and with the solar thermal. In fact, the appliance offers an option kit that can be inserted inside of the chosen system (see page 19).

OPTIMIZATION OF ELECTRICITY CONSUMPTION

For those who want to minimize electricity consumption, SUPER TRIO takes advantage of the photovoltaic system by running the heat pump with the free energy of the sun, increasing savings in the most way ecological.





SUPER TRIO (code 3.030395) is composed by:

- **DHW storage tank in stainless steel 250 litres** of capacity (class C) with single coil and 2 magnesium anodes, insulation and inspection flange;
- Hydraulic distribution unit for one zone that includes: **hydraulic manifold, 1 pump, and all accessories for the connection** (including support bracket for indoor unit, NTC probe for storage tank and hydraulic and refrigerant gas fittings for MAGIS PRO V2*);
- **30 liter buffer tank in stainless steel** (rectangular section, placed behind the hydraulic distribution group);
- **electrical wiring and antifreeze heating cable;**
- **DHW expansion vessel 16 litres, safety valve 8 bar and thermostatic mixing valve.**

The various components are suitably insulated to avoid heat loss in heating and condensation during cooling.

** In case of MAGIS COMBO PLUS it is necessary to provide an additional kit to couple it with SUPER TRIO (code 3.030599).*



POSSIBLE CONFIGURATIONS

Thanks to the versatility of SUPER TRIO, two different systems can be created: heat pump only and hybrid.

- **HEAT PUMP ONLY.** SUPER TRIO with MAGIS PRO V2 is a totally renewable solution composed by a split heat pump of 4, 6 and 9 kW, which can be integrated with electrical resistances, if necessary. Ideal for large buildings in high energy class, even in climatic areas with cold winter temperatures.
- **HYBRID.** SUPER TRIO with MAGIS COMBO PLUS is a solution that integrates an hybrid pump consisting of an internal condensing unit of 24 kW heating power which manages peak requests and a split single-phase outdoor unit available from 5, 8 and 10 kW. Ideal for large buildings with a high need of domestic hot water.

SYSTEM ELECTRONICS

The hydraulics and electronics are managed directly by MAGIS PRO V2 or MAGIS COMBO PLUS, therefore, no additional supervision boards are required. Possibility to set the climatic curve for each zone and setting of the bivalent temperature.

SUPER TRIO with MAGIS PRO V2

Heat pump only solution for recessed or in-house installation



ESSENTIAL COMPONENTS

BOX

Depending on the installation requirement, it is possible to choose between:

- CONTAINER for SUPER TRIO (code 3.030394) for recessed installation
- DOMUS CONTAINER for SUPER TRIO (code 3.030393) for indoor installation

SUPER TRIO (code 3.030395)

Composed by:

- **DHW storage tank in stainless steel 250 litres** of capacity (class C) with single coil
- **30 liter buffer tank in stainless steel**
- Hydraulic distribution unit for one zone that includes: **hydraulic manifold, 1 pump, and all accessories for the connection** (including hydraulic and refrigerant gas fittings specific for MAGIS PRO V2)
- **electrical wiring, antifreeze heating cable and NTC probe for storage tank**
- **DHW expansion vessel 16 litres, safety valve 8 bar and thermostatic mixing valve**
- **support bracket for internal unit**

SPLIT TYPE HEAT PUMP SINGLE-PHASE

It is possible to choose from the following models:

- MAGIS PRO 4 V2 (code 3.030606)
- MAGIS PRO 6 V2 (code 3.030607)
- MAGIS PRO 9 V2 (code 3.030608)

CONNECTION KIT

- Bottom connection kit (code 3.020575)
- Lateral connection kit (code 3.020574)
- Rear connection kit (code 3.020630)

SPECIFIC OPTIONAL KIT

- 3 kW integration electric resistance kit for MAGIS PRO V2 (code 3.030991)
- 1,5 kW sanitary electric resistance kit (code 3.029927)



SUPER TRIO with MAGIS COMBO PLUS

Hybrid solution for recessed or in-house installation



ESSENTIAL COMPONENTS

BOX

Depending on the installation requirement, it is possible to choose between:

- CONTAINER for SUPER TRIO (code 3.030394) for recessed installation
- DOMUS CONTAINER for SUPER TRIO (code 3.030393) for indoor installation

SUPER TRIO (code 3.030395)

Composed by:

- **DHW storage tank in stainless steel 250 litres** of capacity (class C) with single coil
- **30 liter buffer tank in stainless steel**
- Hydraulic distribution unit for one zone that includes: **hydraulic manifold, 1 pump, and all accessories for the connection**
- **electrical wiring and antifreeze heating cable**
- **DHW expansion vessel 16 litres, safety valve 8 bar and thermostatic mixing valve**
- **support bracket for internal unit**

MAGIS COMBO PLUS WITH SUPER TRIO CONNECTION KIT (code 3.030599)

Composed by: electrical wiring, antifreeze heating cable and NTC probe for storage tank

HYBRID HEAT PUMP SPLIT TYPE SINGLE-PHASE

It is possible to choose from the following models:

- MAGIS COMBO 5 PLUS (code 3.027237)
- MAGIS COMBO 8 PLUS (code 3.027238)
- MAGIS COMBO 10 PLUS (code 3.027239)
- MAGIS COMBO 5 PLUS LPG (code 3.027249)
- MAGIS COMBO 8 PLUS LPG (code 3.027250)
- MAGIS COMBO 10 PLUS LPG (code 3.027251)

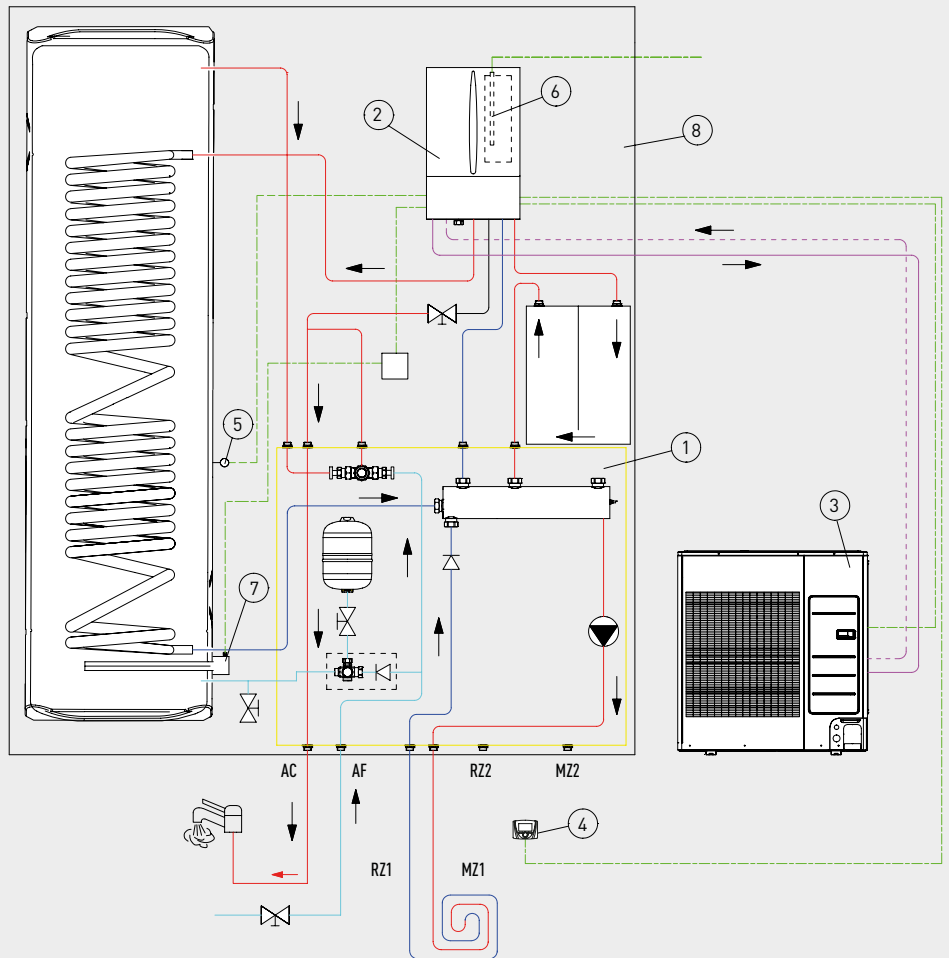
CONNECTION KIT

- Bottom connection kit (code 3.020575)
- Lateral connection kit (code 3.020574)
- Rear connection kit (code 3.020630)



Key

- SUPER TRIO composed by:
 - DHW storage tank 250 l
 - hydraulic manifold with one direct pump
 - DHW expansion vessel 16 l
 - buffer tank 30 l
- 1 Internal unit MAGIS PRO 9 V2
- 2 External unit AUDAX PRO 9 V2
- 3 Remote Control Panel
- 4 NTC probe for storage tank
- 5 Integration electric resistance kit
- 6 Sanitary electric resistance kit
- 7 CONTAINER for SUPER TRIO



EXAMPLE OF SUPER TRIO SOLUTION WITH MAGIS PRO V2 IN SINGLE-ZONE SYSTEM

The radiant panel system performs heating and cooling.

Heating mode

MAGIS PRO V2 is switched on by a request of the system zone. The 3 kW integration resistance is activated if the running time is longer than the set time. The resistance can work simultaneously or alternately with the heat pump. It is possible to set the activation of the resistance under a settable external temperature.

Cooling mode

MAGIS PRO V2 is switched on by a request of the system zone.

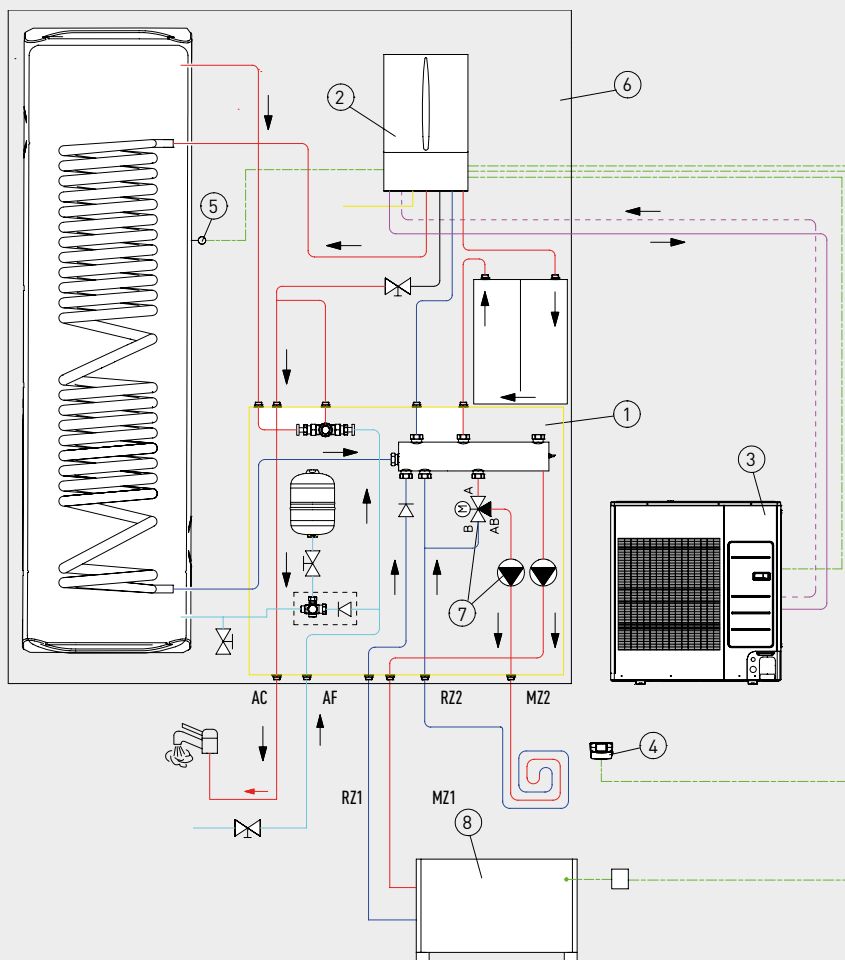
Domestic hot water mode

DHW production has priority over the heating/cooling. MAGIS PRO V2 keeps always checked DHW temperature by means of the NTC probe placed on the storage tank. The supplementary sanitary resistance is switched on if the start-up time is higher than the set value and to perform the legionella function.

N.B.: it is necessary to take into consideration a dehumidification system.

Legenda

	SUPER TRIO composed by:
	• DHW storage tank 250 l
1	• hydraulic manifold with one direct pump
	• DHW expansion vessel 16 l
	• buffer tank 30 l
2	Internal unit MAGIS COMBO 8 PLUS
3	External unit AUDAX PRO 8
4	CAR ^{v2}
5	NTC probe for storage tank
6	CONTAINER for SUPER TRIO
7	Additional mixed 2nd zone kit
8	Floor standing hydronic fancoil HYDRO FS



EXAMPLE OF SUPER TRIO SOLUTION WITH MAGIS COMBO PLUS IN TWO-ZONE SYSTEM

The radiant panel system performs heating, while cooling by fancoil.

Heating mode

The commutation logic between condensing unit and heat pump can be selected in "AUTO" mode (default setting) or "MANUAL" mode (value settable). If the heat pump fails to bring the system temperature within a certain range time, the condensing unit switches on.

Cooling mode

MAGIS COMBO PLUS is switched on by a request of the fancoil HYDRO FS.

Domestic hot water mode

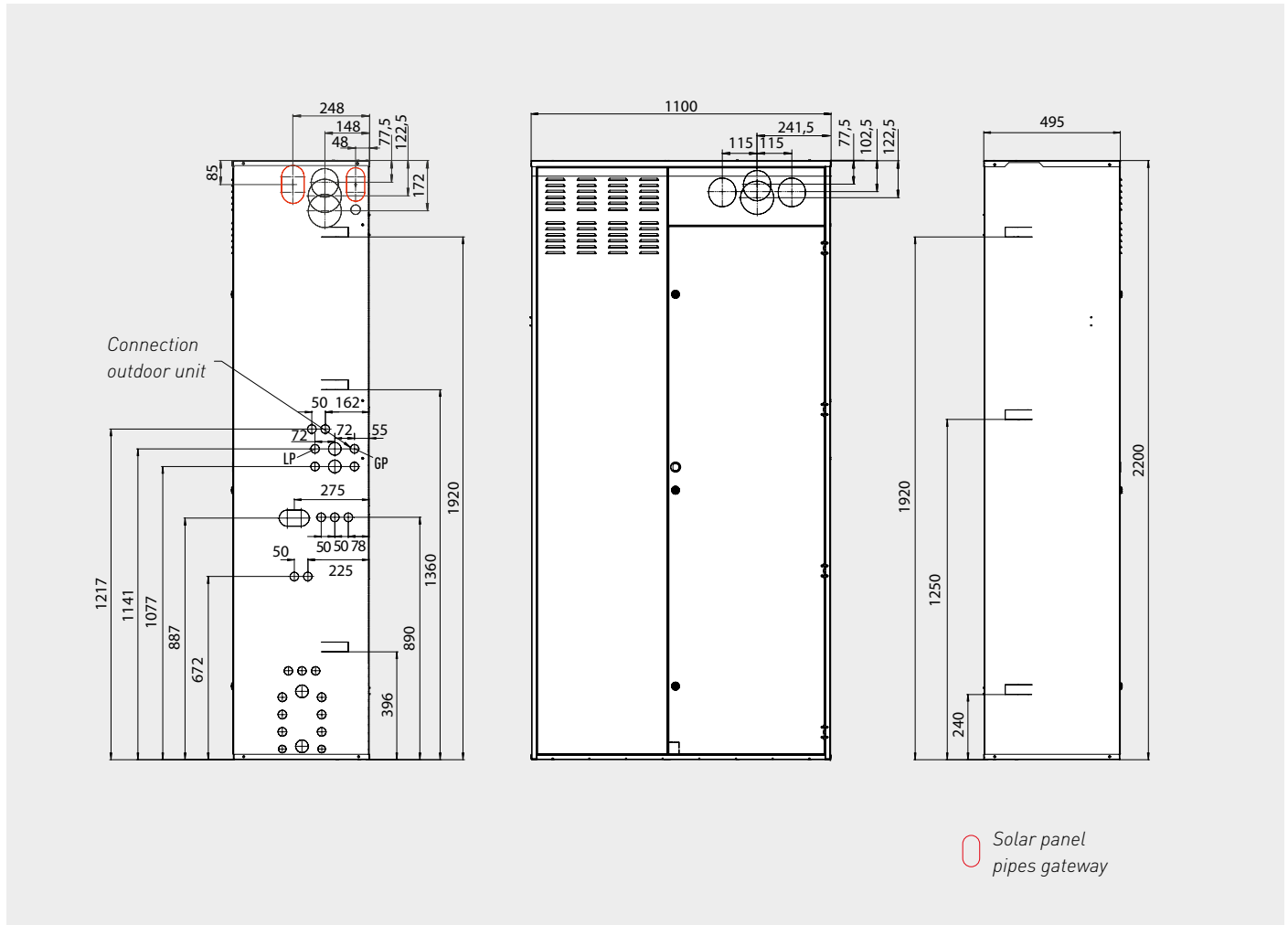
It is possible to choose between two options:

- DHW production has priority over the heating/cooling;
- Simultaneous operation DHW/heating or cooling favoring the condensing unit for DHW production.

N.B.: it is necessary to evaluate whether the content of the inertial accumulation as standard is sufficient and to foresee an eventual dehumidification.

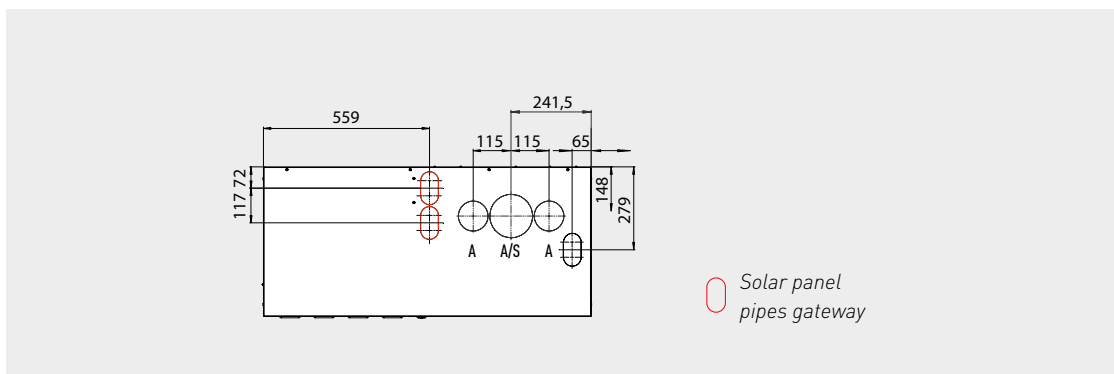


Recessed frame CONTAINER for SUPER TRIO



Pay attention: Gateway for gas R410A and R32 (GP and LP) connections is only on the right side of CONTAINER for SUPER TRIO.

UPPER FLUE PIPES CONNECTION (only for MAGIS COMBO PLUS)

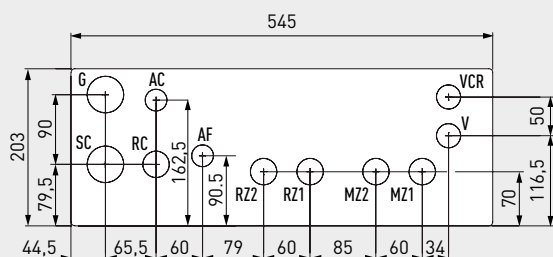


A/S Inlet/outlet - A Inlet

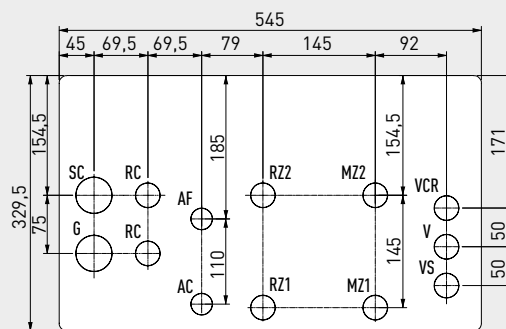
Pay attention: With Ø 60/100 horizontal concentric flue kit it is always necessary to use the Flanged stub-pipe kit Ø 60/100 (code 3.012086), 90° bend Ø 60/100 kit (code 3.012093) and Extension pipe kit Ø 60/100 0,5 m long (code 3.014643). On the left side of the CONTAINER it is possible to exit just with flue pipes Ø 80.

Recessed frame CONTAINER for SUPER TRIO

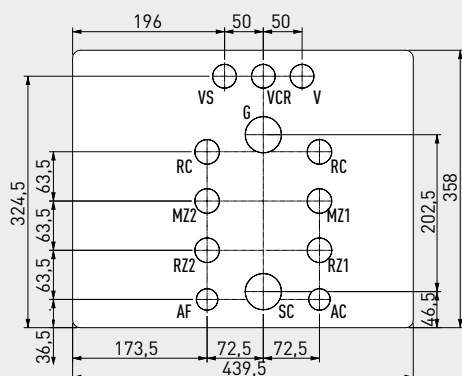
REAR HYDRAULIC CONNECTION



BOTTOM HYDRAULIC CONNECTION



RIGHT LATERAL HYDRAULIC CONNECTION



Key

- G** Gas supply (only for MAGIS COMBO PLUS)
- AC** Domestic hot water outlet
- AF** Domestic cold water inlet
- GP** Gas refrigerant
- LP** Liquid refrigerant
- MZ1** System delivery zone 1
- RZ1** System return zone 1
- MZ2** System delivery zone 2
- RZ2** System return zone 2
- RC** Recirculation kit 1/2"
- SC** Condensate drain
- V** Electrical connection
- VCR** Remote control panel or CAR^{v2}
- VS** 3 bar drain valve

Pay attention: Dimensions refer to the stickers applied inside the CONTAINER for SUPER TRIO.

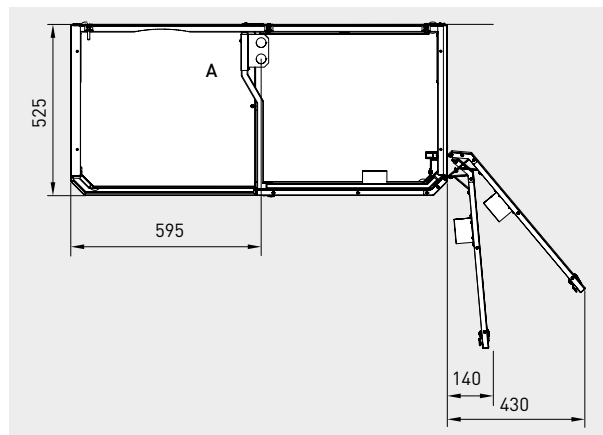
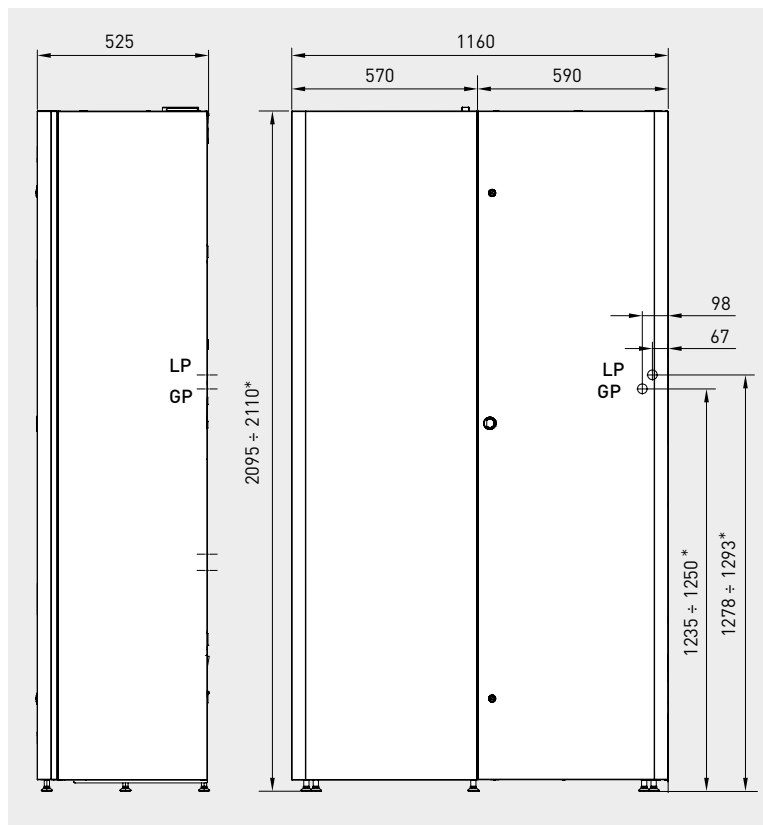
	Zone 1 (as standard)	Zone 2 (option kit)
MAGIS COMBO PLUS	Direct zone	Mixed zone
MAGIS PRO V2	Direct zone	Mixed zone

Connections

Gas (for MAGIS COMBO PLUS)	D.H.W.		System				R32 (for MAGIS PRO V2)		R410A (for MAGIS COMBO PLUS)	
G	AC	AF	RZ1	MZ1	RZ2	MZ2	LP	GP	LP	GP
1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1/4" (6,35 mm)	5/8" (15,88 mm)	3/8" (9,52 mm)	5/8" (15,88 mm)



Technical box DOMUS CONTAINER for SUPER TRIO



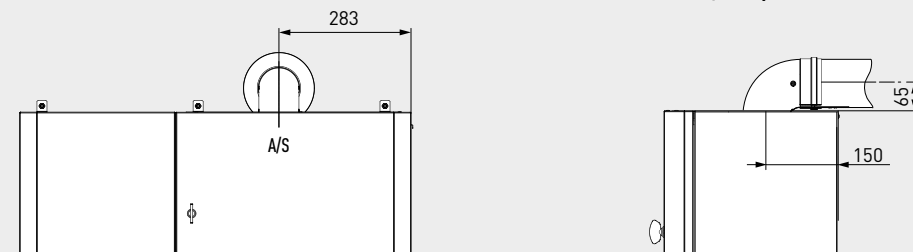
X = 140 cm Minimum dimension in order to open (right side) or disassembly the door
 Y = 430 cm Maximum door opening - not essential -

(*) Feet adjustment (from 35 mm to 55 mm) can increase + 15 mm each height measurement.

Pay attention: Gateway for gas R410A and R32 connections (GP and LP) is only on the rear side of DOMUS CONTAINER for SUPER TRIO.

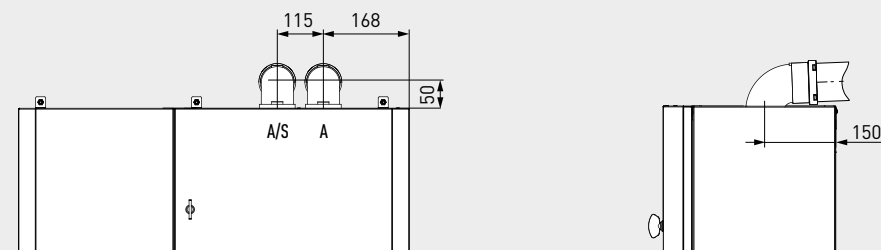
Flue pipes dedicated to Technical box DOMUS CONTAINER for SUPER TRIO (only for MAGIS COMBO PLUS)

CONFIGURATION WITH HORIZONTAL CONCENTRIC KIT Ø 60/100



Flanged stub-pipe kit Ø 60/100 code 3.012086
 90° bend Ø 60/100 kit code 3.012093
 Extension pipe kit Ø 60/100 0,5 m long code 3.014643

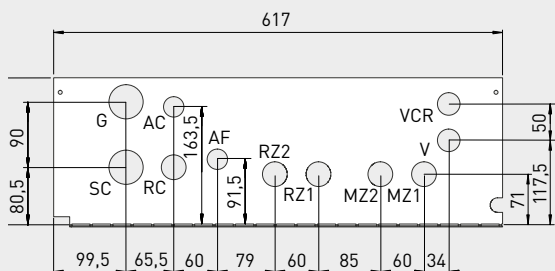
CONFIGURATION WITH TWIN PIPE KIT Ø 80



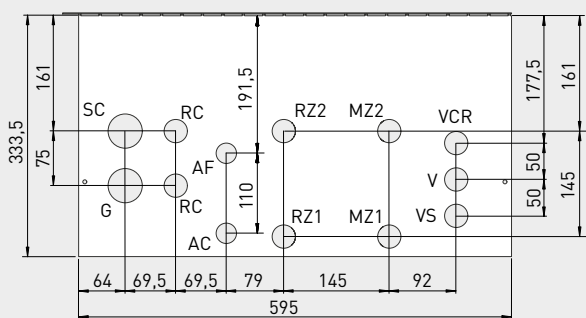
Twin pipe kit Ø 80 code 3.012002

To cover the upper part of the DOMUS CONTAINER and all the additional components it is necessary to use the aesthetic upper cover kit code 3.030484

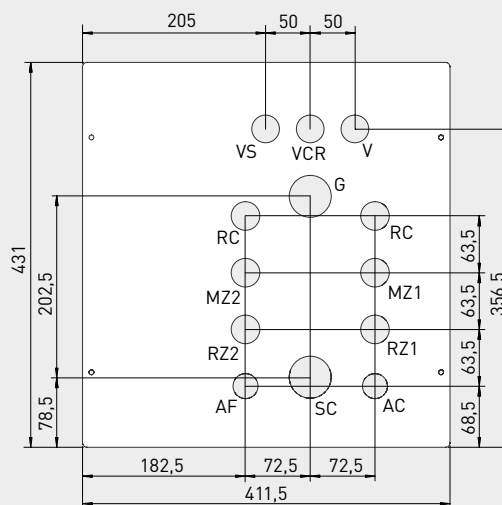
REAR HYDRAULIC CONNECTION



BOTTOM HYDRAULIC CONNECTION



RIGHT LATERAL HYDRAULIC CONNECTION



Key

- G** Gas supply (only for MAGIS COMBO PLUS)
- AC** Domestic hot water outlet
- AF** Domestic cold water inlet
- GP** Gas refrigerant
- LP** Liquid refrigerant
- MZ1** System delivery zone 1
- RZ1** System return zone 1
- MZ2** System delivery zone 2
- RZ2** System return zone 2
- RC** Recirculation kit 1/2"
- SC** Condensate drain
- V** Electrical connection
- VCR** Remote control panel or CAR^{v2}
- VS** 3 bar drain valve

	Zone 1 (as standard)	Zone 2 (option kit)
MAGIS COMBO PLUS	Direct zone	Mixed zone
MAGIS PRO V2	Direct zone	Mixed zone

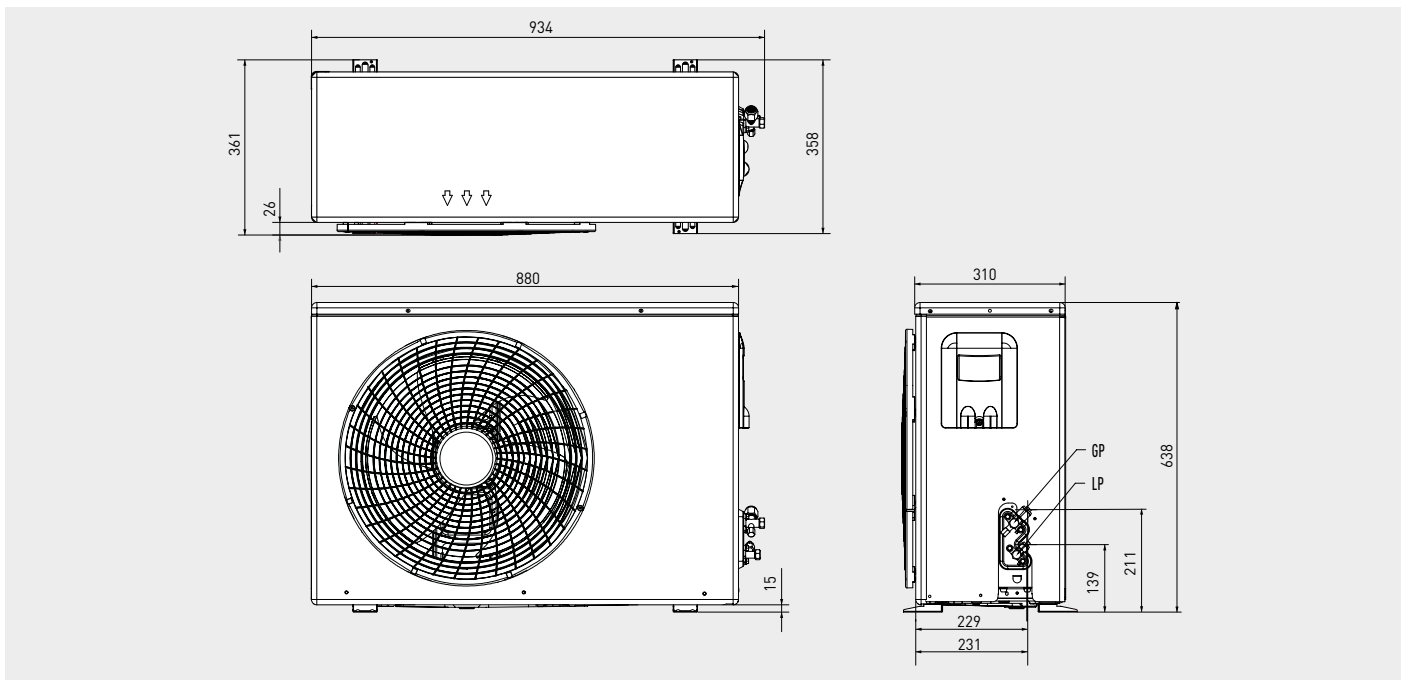
Pay attention: Dimensions refer to the stickers applied inside the DOMUS CONTAINER for SUPER TRIO.

Connections

Gas (for MAGIS COMBO PLUS)	D.H.W.		System				R32 (for MAGIS PRO V2)		R410A (for MAGIS COMBO PLUS)	
G	AC	AF	RZ1	MZ1	RZ2	MZ2	LP	GP	LP	GP
1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1/4" (6,35 mm)	5/8" (15,88 mm)	3/8" (9,52 mm)	5/8" (15,88 mm)



External unit AUDAX PRO 4/6 V2 for MAGIS PRO V2



Connections

R32

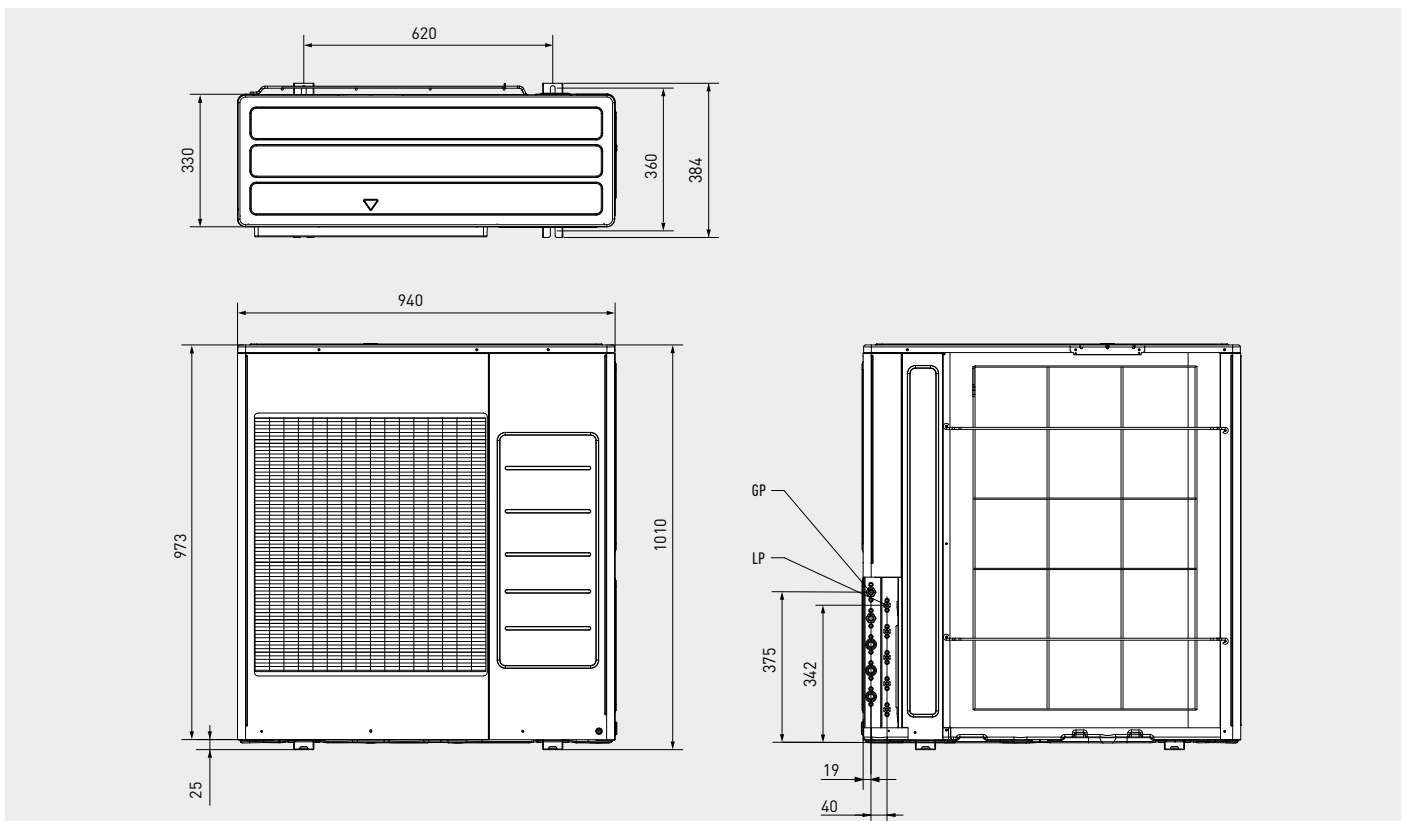
GP (gas refrigerant)

5/8" (15,88 mm)

LP (liquid refrigerant)

1/4" (6,35 mm)

External unit AUDAX PRO 9 V2 for MAGIS PRO V2



Connections

R32

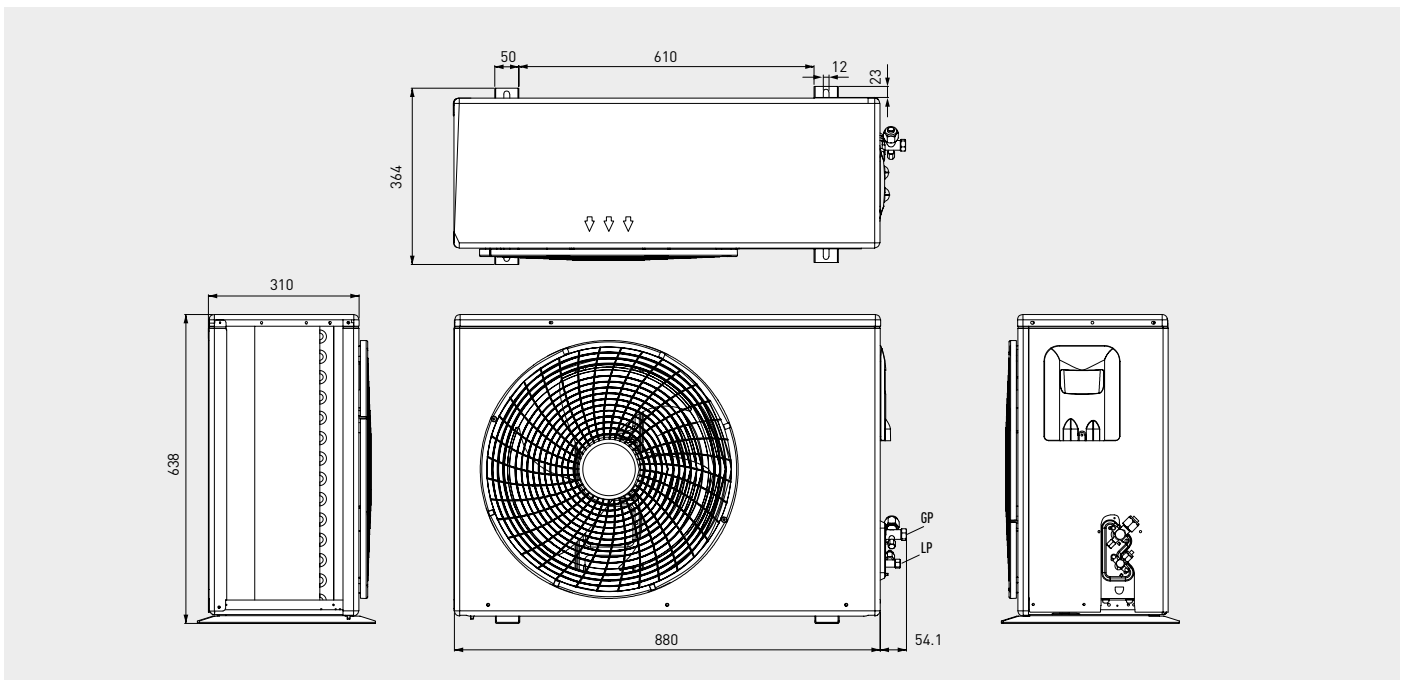
GP (gas refrigerant)

5/8" (15,88 mm)

LP (liquid refrigerant)

1/4" (6,35 mm)

External unit AUDAX PRO 5 for MAGIS COMBO PLUS



Connections

R410A

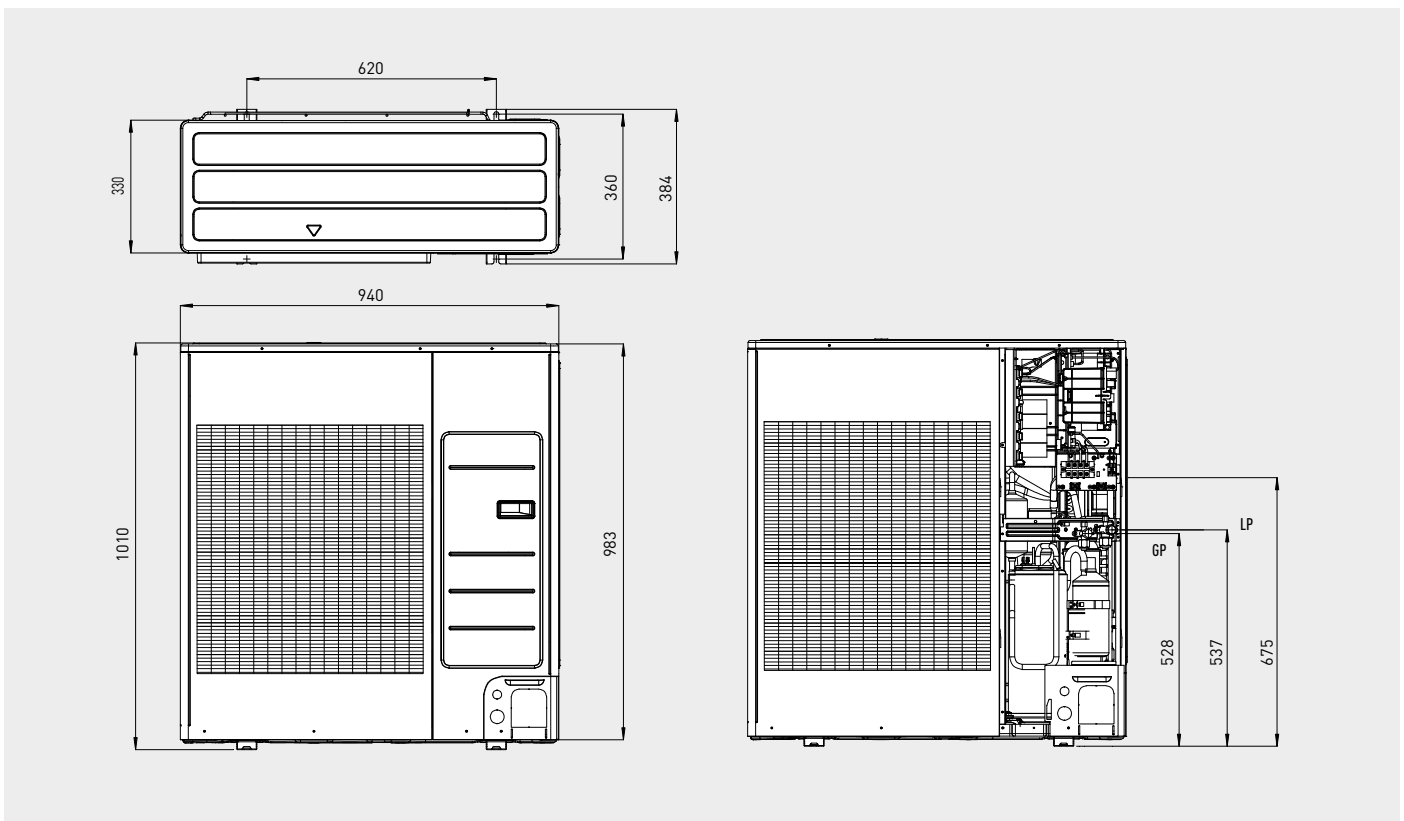
GP (gas refrigerant)

5/8" (15,88 mm)

LP (liquid refrigerant)

1/4" (6,35 mm)

External unit AUDAX PRO 8/10 for MAGIS COMBO PLUS



Connections

R410A

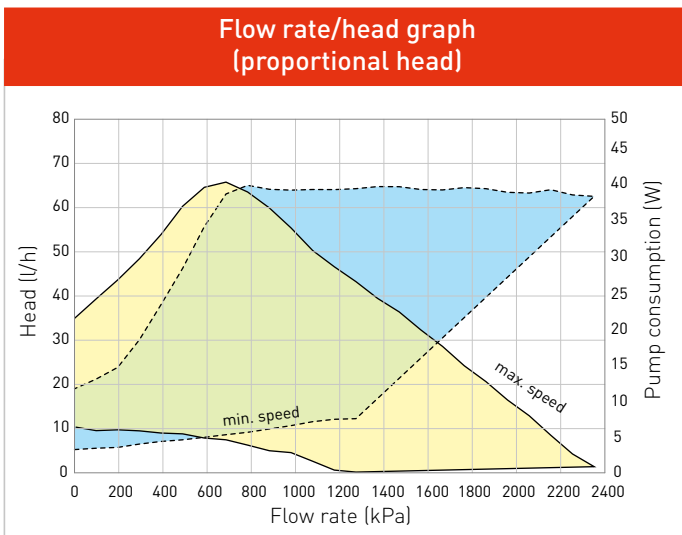
GP (gas refrigerant)

5/8" (15,88 mm)

LP (liquid refrigerant)

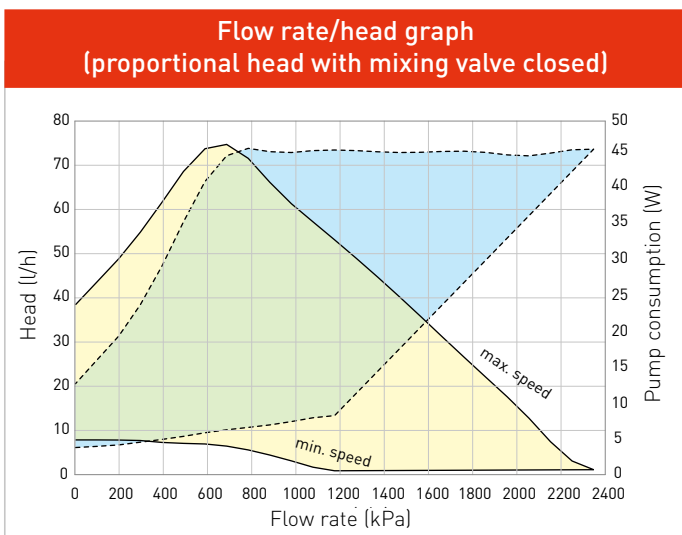
3/8" (9,52 mm)

FLOW RATE/HEAD GRAPHS



Key

- Available head in the system
- Pump consumption



Key

- Available head in the system
- Pump consumption



THERMOREGULATION

Type	Code
Remote Control Panel (only for MAGIS PRO V2) NEW	3.030863
CAR ^{v2} (modulating remote control - only for MAGIS COMBO PLUS)	3.021395
CAR ^{v2} WIRELESS (wireless modulating remote control - only for MAGIS COMBO PLUS)	3.021623
CRONO 7 (weekly digital chronothermostat)	3.021622
CRONO 7 WIRELESS (wireless weekly digital chronothermostat)	3.021624
DOMINUS interface kit	3.026273
Temperature/humidity active sensor kit (only for MAGIS PRO V2) NEW	3.030992
Temperature/humidity active sensor kit (only for MAGIS COMBO PLUS)	3.021524
Room hygrostat	3.023302
External probe kit	3.015266

OPTION KITS

CONTAINER for SUPER TRIO (recessed frame)	3.030394
DOMUS CONTAINER for SUPER TRIO (Technical box)	3.030393
Aesthetic upper cover for DOMUS CONTAINER for SUPER TRIO	3.030484
MAGIS COMBO PLUS with SUPER TRIO connection kit	3.030599
Additional mixed 2 nd zone kit	3.027865
Solar kit composed by: plate heat exchanger, single solar pump station (with low consumption circulation pump), solar central unit, connection pipes, 18 litre solar expansion vessel, temperature probes (for collectors and storage tank* NEW)	3.030482
Bottom connection kit	3.020575
Lateral connection kit	3.020574
Rear connection kit	3.020630
Recirculation kit (pump not included)**	3.030483
Anti-scale kit**	3.020628
Anti freeze protection kit -15 °C (for condensing unit)	3.017324
Condensate antifreeze heating cable kit (for external unit)	3.027385
Wall mounting brackets for external unit	3.022154
3 kW integration electric resistance kit (for MAGIS PRO V2) NEW	3.030991
1,5 kW sanitary electric resistance kit (for MAGIS PRO V2)	3.029927
Dehumidifier kit	3.021529
Dehumidifier back frame kit	3.022146
Dehumidifier front grille kit	3.022147
2 relays board kit	3.026302
Relay board kit	3.015350
3-way diverter valve kit	3.020632
Low temperature safety kit	3.019229

* The kit can be combined with 2 CP4 M flat plate collectors or 1 CP4 XL flat plate collector.

** The recirculation kit and the anti-scale kit cannot coexist inside of the CONTAINER and DOMUS CONTAINER for SUPER TRIO.

SUPER TRIO solutions can also be combined with the Immergas range of fancoils (wall-mounted, floor standing and recessed), see the specific documentation on the immergas.com website



MAGIS PRO V2

Split type reversible air/water inverter heat pump single-phase

Heat/cold reversible machine composed by external and internal units

External unit approved for open air functioning and pre-loaded **with R32 gas refrigerant**

Internal unit (to be placed inside of one of the two boxes proposed) composed by an hydronic module that features system 12 litre expansion vessel and 3 way diverter valve for DHW storage tank connection

Available in 3 versions: 4, 6 e 9 kW

High COP and EER

External probe, shut off knobs for refrigerant circuit and shut off knobs with filter for water circuit as standard



Technical characteristics	Unit of measurement	MAGIS PRO 4 V2	MAGIS PRO 6 V2	MAGIS PRO 9 V2
Codice		3.030606	3.030607	3.030608
Energetic class 55 °C		A++	A++	A++
Energetic class 35 °C		A+++	A+++	A+++
Refrigerant quantity (R32)	g	1.200	1.200	1.400
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
Outside air temperature range (C.H.)	°C	-20/35	-20/35	-20/35
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
Outside air temperature range (cooling)	°C	10/46	10/46	10/46
EER (system water 18 °C)		4,59	4,42	4,12
EER (system water 7 °C)		3,24	3,26	3,33
Maximum power absorbed	W	2.100	2.900	4.300
Power supply	V - Hz	230 - 50	230 - 50	230 - 50
External unit weight (empty)	kg	47,5	47,5	74,0
DATA REFERRED TO HYDRONIC MODULE				
Central heating expansion vessel capacity (real)	l		12	
Central heating circuit max pressure	bar		3	
Electric protection of hydronic module	IP		X4D	
Adjustable ACS temperature (with electric resistance)	°C		10 - 55 (10 - 65)	
Empty weight	kg		33,50	

Refer to the following conditions:

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

For more information consult the technical sheet or the website immergas.com



MAGIS COMBO PLUS

Split type reversible air/water inverter hybrid heat pump single-phase

Heat/cold reversible machine composed by external and internal units

External unit approved for open air functioning and pre-loaded with **R410A gas refrigerant**

Internal unit (to be placed inside of one of the two boxes proposed) composed by a **condensing module** (27,3 kW D.H.W. and 24 kW C.H.) and an **hydronic module** that features system 10 litres expansion vessel and 3 way diverter valve for DHW storage tank

Available in 3 versions: 5, 8 e 10 kW

Domestic hot water production managed by both heat pump that from the indoor condensing unit

External probe, shut off knobs for refrigerant circuit and shut off knobs with filter for water circuit as standard



Technical characteristics	Unit of measurement	MAGIS COMBO 5 PLUS	MAGIS COMBO 8 PLUS	MAGIS COMBO 10 PLUS
Code	N.G.	3.027237	3.027238	3.027239
	L.P.G.	3.027249	3.027250	3.027251
Energetic class 55 °C		A+	A+	A+
Energetic class 35 °C		A++	A++	A++
Refrigerant quantity (R410A)	g	1.200	2.000	2.000
Heating capacity (system water 35 °C)	kW	5,80	7,71	9,70
Heating capacity (system water 45 °C)	kW	5,30	7,26	9,27
Heating capacity (system water 55 °C)	kW	4,80	6,17	8,45
Flow temperature range (C.H.)	°C	25 - 55	25 - 55	25 - 55
Outside air temperature range (C.H.)	°C	-20/35	-20/35	-20/35
COP (system water 35 °C)		4,53	4,08	4,09
COP (system water 45 °C)		3,42	3,13	3,11
COP (system water 55 °C)		2,64	2,34	2,35
Cooling capacity (system water 18 °C)	kW	6,03	7,58	7,58
Cooling capacity (system water 7 °C)	kW	4,90	5,38	7,31
Flow temperature range (cooling)	°C	7-25	7-25	7-25
Outside air temperature range (cooling)	°C	10-46	10-46	10-46
EER (system water 18 °C)		3,61	3,77	3,77
EER (system water 7 °C)		2,62	2,41	2,38
Power supply	V - Hz	230-50	230-50	230-50
Maximum power absorbed	W	3.200	4.130	5.200
External unit weight (empty)	kg	47,5	74,0	74,0
DATA REFERRED TO INDOOR CONDENSING UNIT				
Pump absorbed power (indoor unit circuit)	W	60	60	60
Pump absorbed power (refrigerant circuit)	W	52	52	52
Maximum nominal heat input (D.H.W. mode)	kW	28,1	28,1	28,1
Maximum nominal heat input (C.H. mode)	kW	24,9	24,9	24,9
Minimum nominal heat input	kW	5,1	5,1	5,1
Maximum nominal heat output (D.H.W. mode)	kW	27,3	27,3	27,3
Maximum nominal heat output (C.H. mode)	kW	24,0	24,0	24,0
Minimum nominal heat output	kW	4,8	4,8	4,8
Efficiency at nominal heat output (80/60 °C)	%	96,2	96,2	96,2
Efficiency at 30% of load (80/60 °C)	%	98,4	98,4	98,4
Efficiency at nominal heat output (40/30 °C)	%	106,8	106,8	106,8
Efficiency at 30% of load (40/30 °C)	%	106,1	106,1	106,1
Flow temperature range (C.H.)	°C	20-80	20-80	20-80
NO _x class		6	6	6
Central heating expansion vessel capacity (real)	l	10 [8,3]	10 [8,3]	10 [8,3]
Central heating circuit max pressure	bar	3	3	3
Appliance water content	l	2,5	2,5	2,5
Empty weight	kg	55	55	55

Refer to the following conditions:

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

For more information consult the technical sheet or the website immergas.com





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