USER'S MANUAL

Instructions and warning book IE

IMMERGAS

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VERTICAL INERTIAL STORAGE TANK KIT

VERTICAL INERTIAL STORAGE TANK KIT CONTAINER

50 Litri

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1 GENERAL WARNINGS

1.1 INSTALLATION RECOMMENDATIONS.

The place of installation of the appliance and relative Immergas accessories must have suitable features (technical and structural), such as to allow for (always in safe, efficient and comfortable conditions):

- installation (according to the provisions of technical legislation and technical regulations);
- maintenance operations (including scheduled, periodic, routine and special maintenance);
- removal (to outdoors in the place for loading and transporting the appliances and components) as well as the eventual replacement of those with appliances and/or equivalent components.

Installation must be carried out according to UNI and IEC regulation standards, current legislation and in compliance with local technical regulations and the required technical procedures.
Before installing the inertial storage tank, ensure that it is delivered in perfect condition; if in doubt, contact the supplier immediately. Packing materials (staples, nails, plastic bags, polystyrene foam, etc.) constitute a hazard and must be kept out of the reach of children. There must be sufficient clearance around the device in its place of installation to permit normal maintenance. In case of installation under the heat pump, refer to the relevant instruction booklet for the minimum clearances.
Keep all flammable objects away from the appliance (paper, rags, plastic, polystyrene, etc.).
Failure to comply with the above implies personal responsibility and invalidates the warranty.

At the end of its service life, the appliance must not be disposed of like normal household waste nor abandoned in the environment, but must be removed by a professionally authorised company. Contact the manufacturer for disposal instructions.

1.2 OPERATION.

Immergas inertial storage tanks are used to stabilise the primary system for the heat pumps.
Thanks to the special arrangement of the hydraulic connections, the hydraulic layout may vary according to the relevant use and requirements.

1.3 MAIN FEATURES.

Vertical Kit.
The vertical inertial storage tank has a layer of insulation 40 mm thick. The device has 2 rear connections and an air vent in the upper part. Each device also has, under the removable front, the drain with valve.
Hydraulic connections must be carried out in a rational manner using the relevant fittings, connecting these to the system return pipe of the heat pump.

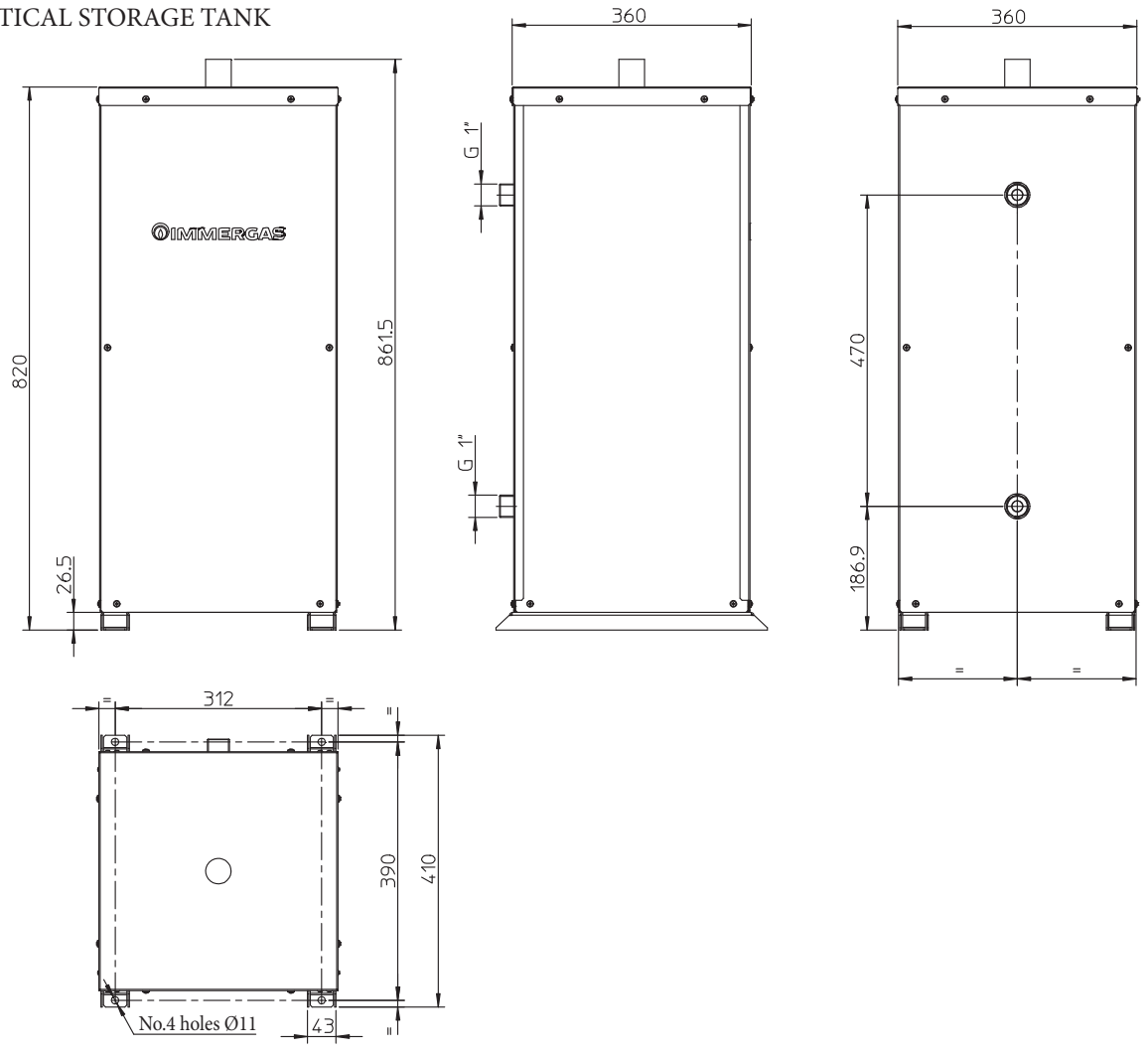
Recessed kit.
The inertial recessed storage tank kit is designed to be installed in exterior and interior walls.
The frame has pre-sections needed to connect the flexible hoses (supplied) according to the type of installation.
The storage tank has 2 connections with flexible hoses and air vent in the upper part.
It also has a drain with valve.

1.4 TECHNICAL DATA.

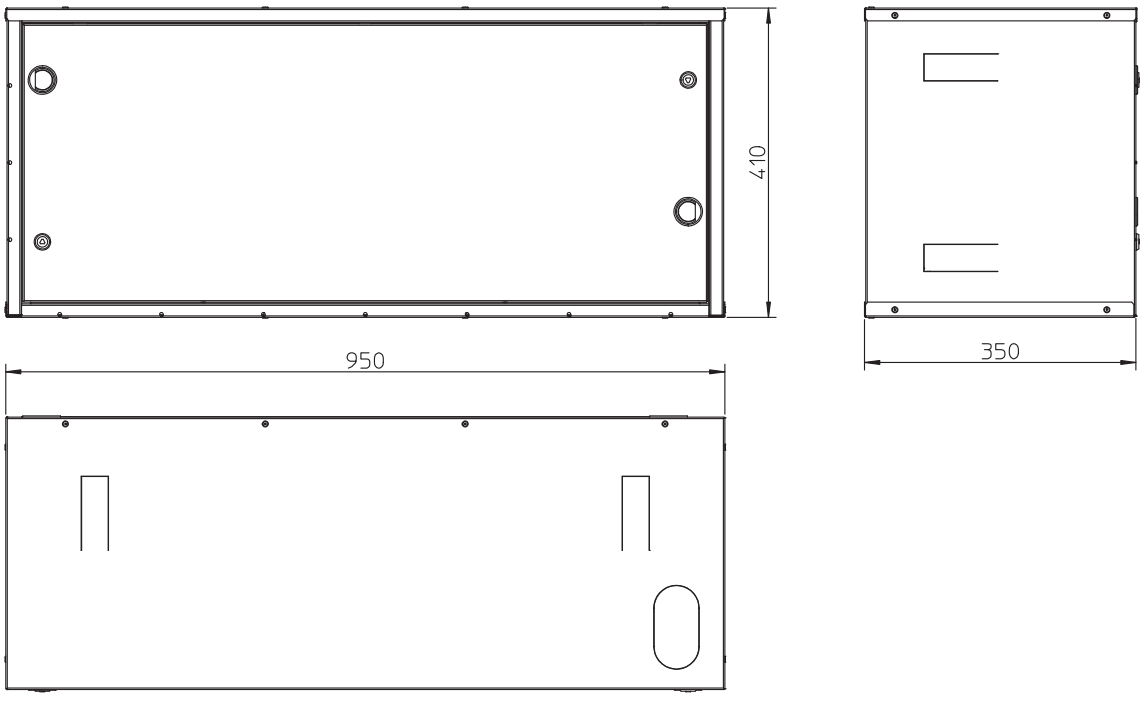
		Vertical 50 litres	Recessed 50 litres
Effective capacity	litres	43	49
Nominal capacity	litres	50	50
Dimensions	mm	410 x 820 x 360	950 x 410 x 350
Max. operating temperature	°C	90	90
Max. Operating Pressure	bar	3	3
Max. Inspection pressure	bar	4.5	4.5
Empty weight	kg	31	31
Full weight	kg	74	80

1.5 MAIN DIMENSIONS

VERTICAL STORAGE TANK *1*

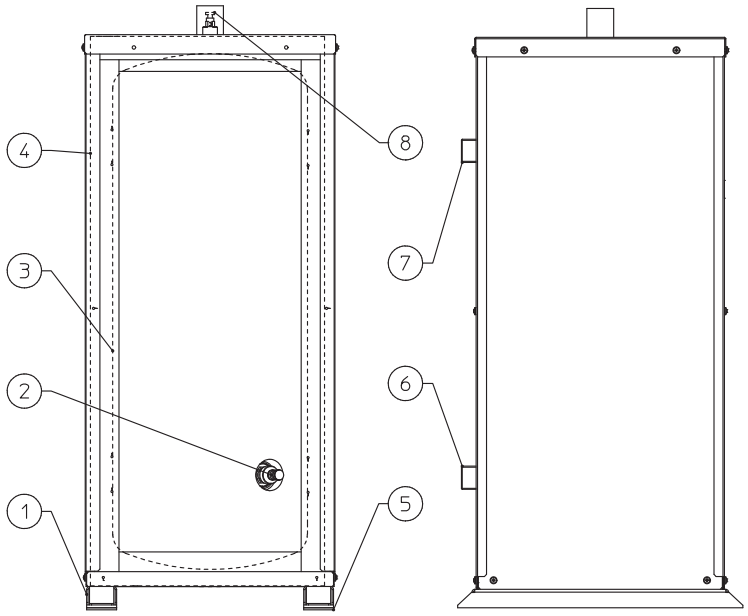


RECESS STORAGE TANK *2*



1.6 VERTICAL KIT MAIN COMPONENTS

3

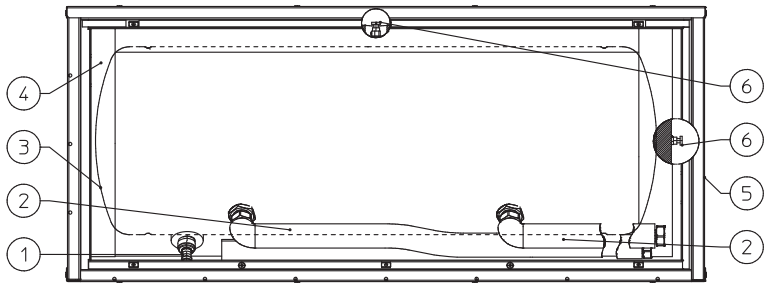


Key:

1 - Fixing brackets
2 - Drain valve
3 - Storage tank unit
4 - Storage tank insulation
5 - Vibration-dampening feet
6-7 - 1" G-fittings
8 - Air vent valve

1.7 RECESS KIT MAIN COMPONENTS

4



Key:

1 - Drain valve
2 - Flexible connection hoses
3 - Storage tank unit
4 - Storage tank insulation
5 - Recessed frame
6 - Air vent valve

2 INSTALLATION INERTIAL STORAGE TANK

2.1 VERTICAL INERTIAL STORAGE TANK INSTALLATION.

Proceed as follows to install the vertical inertial storage tank.

- Place the storage tank taking care to place the supplied vibration-dampening feet between the brackets and floor.
- Install the storage tank taking care to observe the minimum distances indicated on the instruction manual of the condensing unit or of the heat pump installed (*Ref. Par. 2.4*).

2.2 INERTIAL STORAGE TANK INSTALLATION ON SOLAR CONTAINER.

Proceed as follows to install the inertial storage tank coupled with Solar Container.

- Set-up the masonry jobs creating an opening in the wall where the frame will be installed, paying attention to envision the space for the 4 slots for the side support fins in case of installation next to the Solar Container and for the 6 slots in case of installation above the recessed frame (in sectors "A" shown in *Fig. 5* and *6* are the hidden support slots to be opened and fixed in the slots on the wall).

N.B.: it is very important to align the storage tank kit to the Solar Container kit

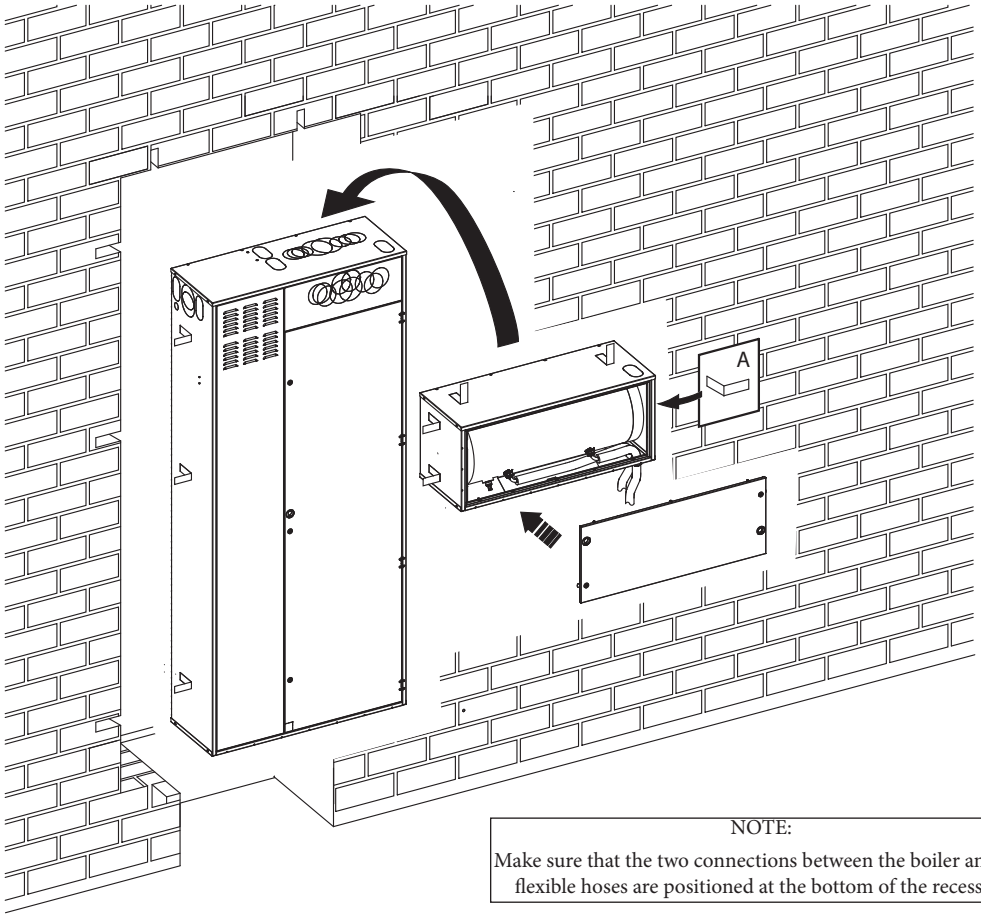
- The storage tank kit is closed with lid, which can be opened by the handle and only after unlocking the two locks.

Attention:the installation of the storage tank kit inside the wall, must guarantee a stable and effective support for the appliance it contains. This kit ensures a suitable support only if inserted correctly (according to the rules of good practice) and positioned in square with respect to the wall following the instructions given below, thus guaranteeing the correct functionality of the front doors. The storage tank kit is not a supporting structure and cannot replace the piece of wall removed. It is therefore necessary to check its correct positioning inside the wall.

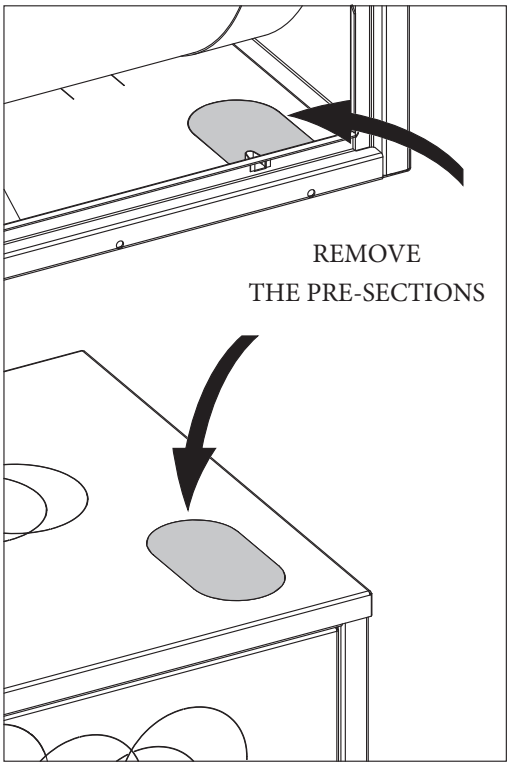
- For safety reasons, it is necessary to carefully seal the housing compartment of the storage tank kit in the wall, in compliance with Standards in force.
- Be sure to remove the relevant sections based on the type of installation (*Fig. 5 - 6*).
- Now make the connections according to your needs and type of installation.

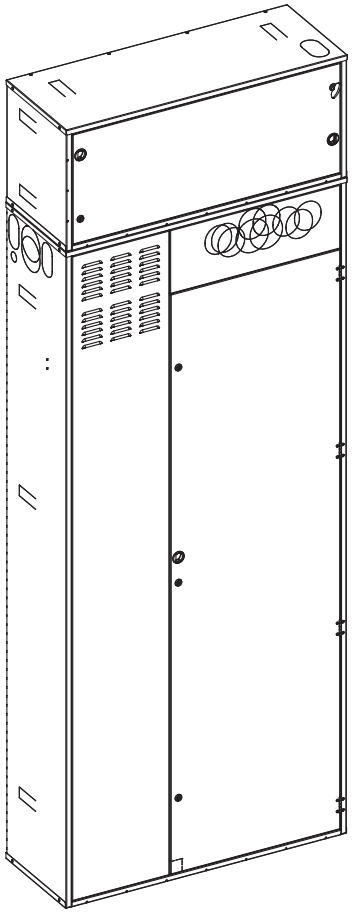
2.3 INSTALLATION ABOVE THE SOLAR CONTAINER

5



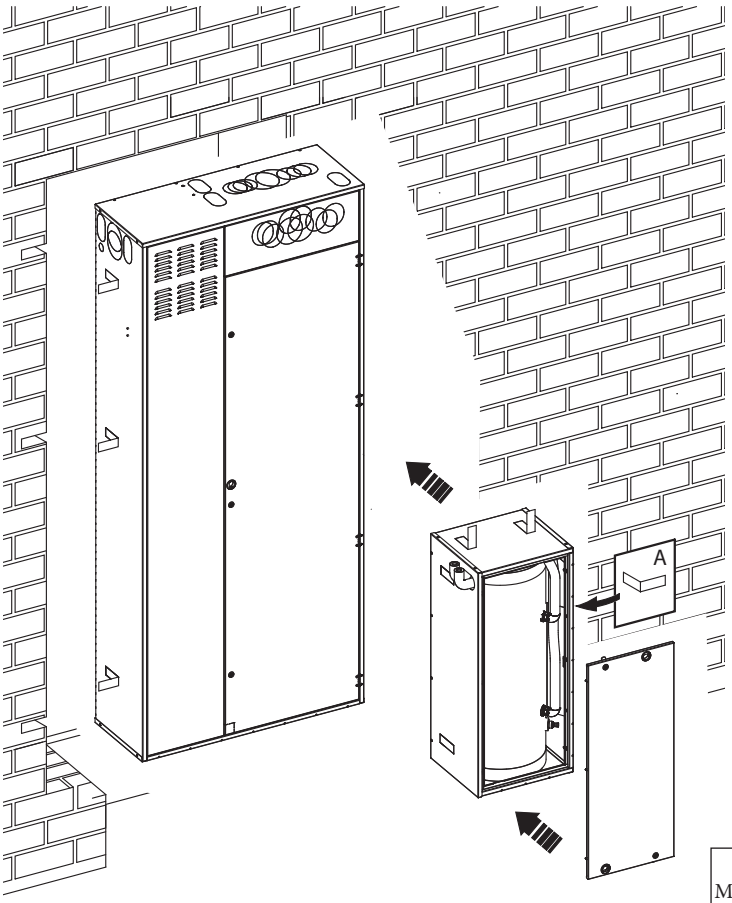
NOTE:
Make sure that the two connections between the boiler and the flexible hoses are positioned at the bottom of the recessed.

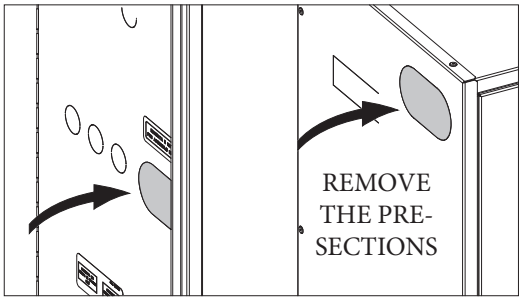




2.4 SOLAR CONTAINER SIDE INSTALLATION

6

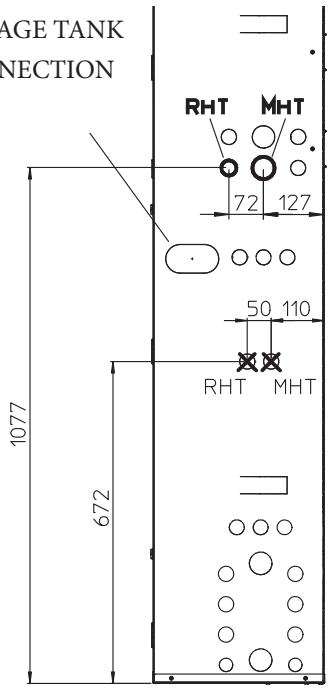




NOTE:

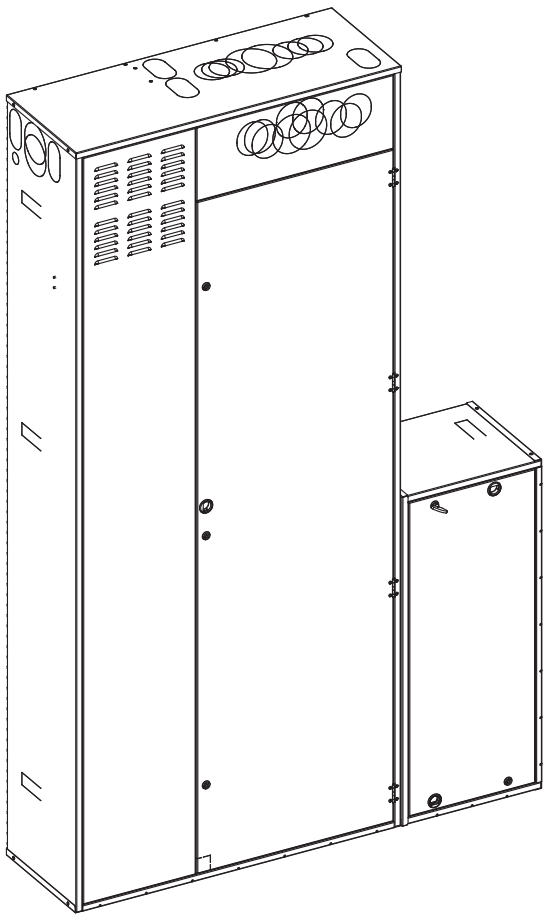
Make sure that the two connections between the boiler and the flexible hoses are positioned on the right side of the recessed.

STORAGE TANK
CONNECTION



NOTE:

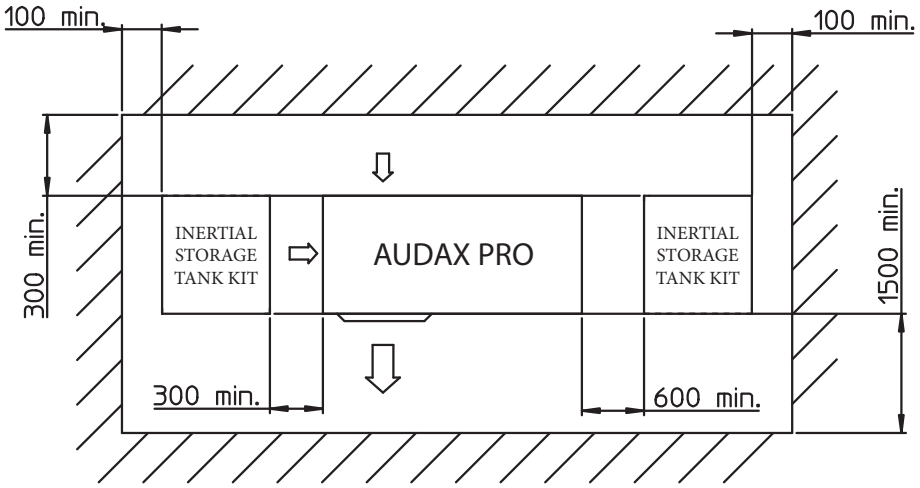
In this configuration for the connection of the heat pumps, you must use the Audax connection hose kit for 50 liters storage tank on the side of the Solar Container using the pre-slices shown in the drawing.



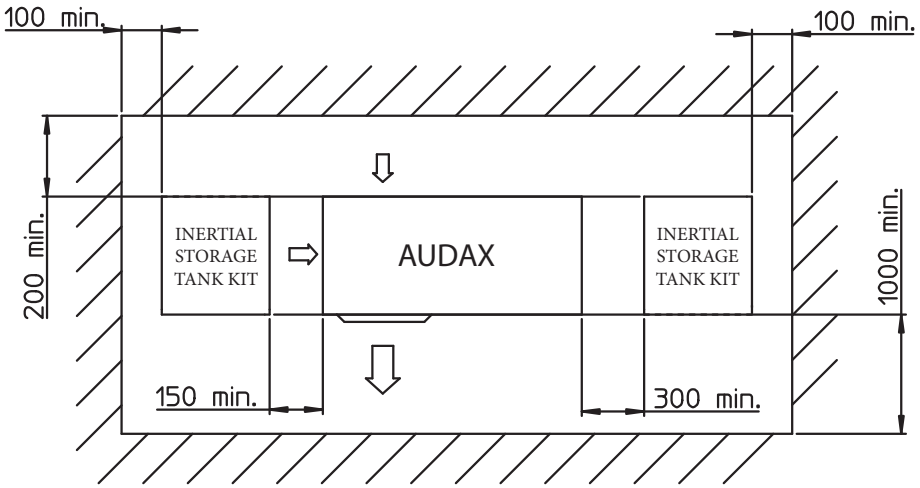
2.5 MINIMUM INSTALLATION DISTANCES

AUDAX PRO

7



AUDAX SERIES



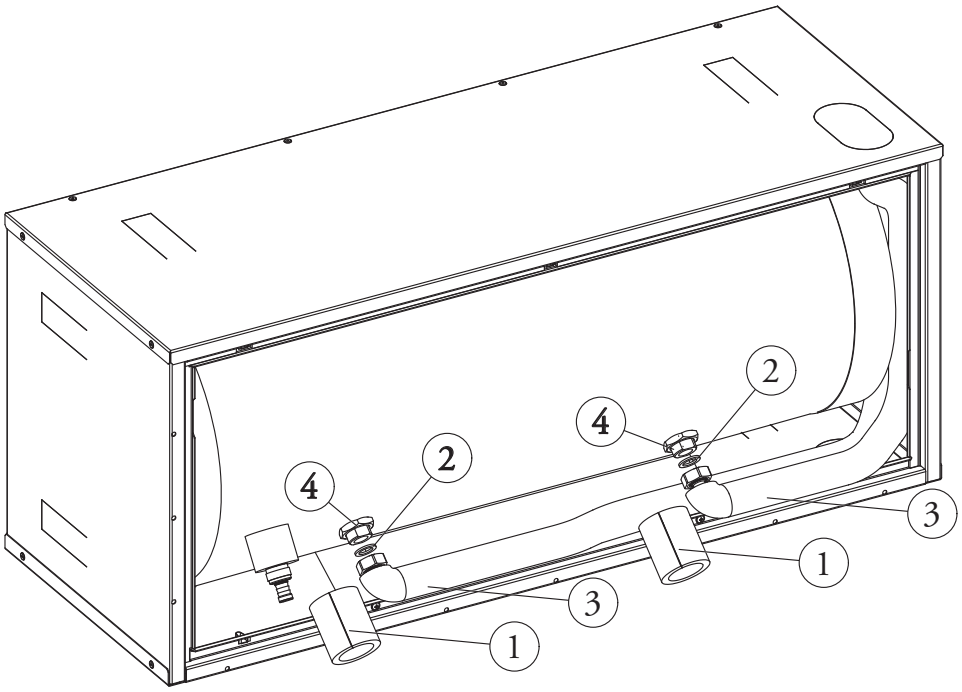
NOTE:

For more information on the minimum installation distances to be applied, refer to the instruction manual of the condensing unit model or dedicated heat pump.

2.6 PIPE INSULATION APPLICATION.

Fit the insulated connection hoses supplied, inserting the special gaskets (*Ref.2 Fig.8 - 9*).
Install the insulation sleeves (*Ref. 1 Fig. 8 - 9*) on the upper and lower terminals of the hydraulic connections.

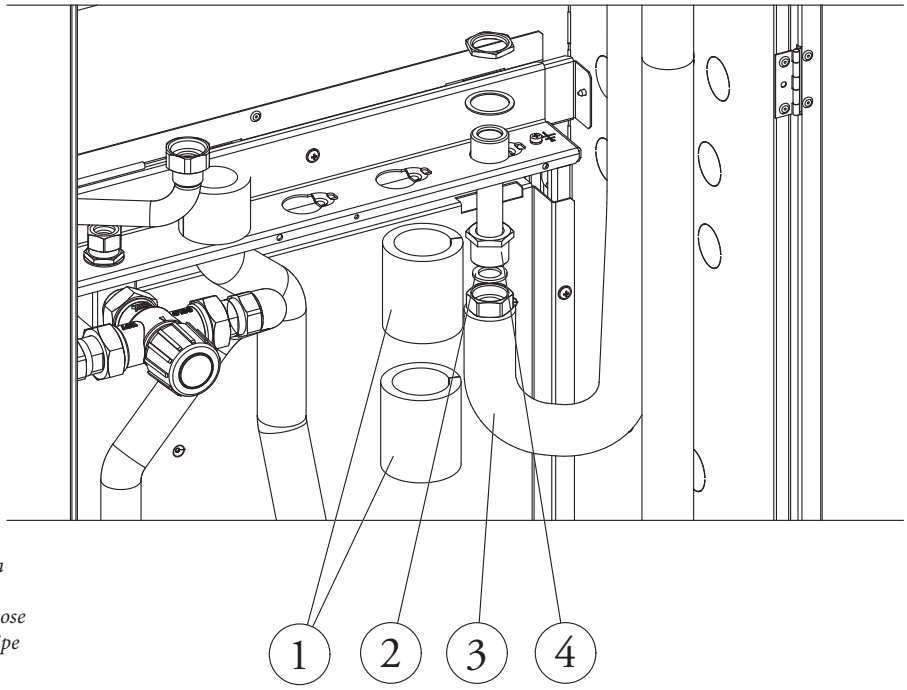
8



Key:
- *1 - Insulation*
- *2 - Gaskets*
- *3 - Flexible connection hoses (to be insulated before installation)*
- *4 - 3/4" G-fittings*

Connection valid only for Trio Base and Trio Base with resistance.

9

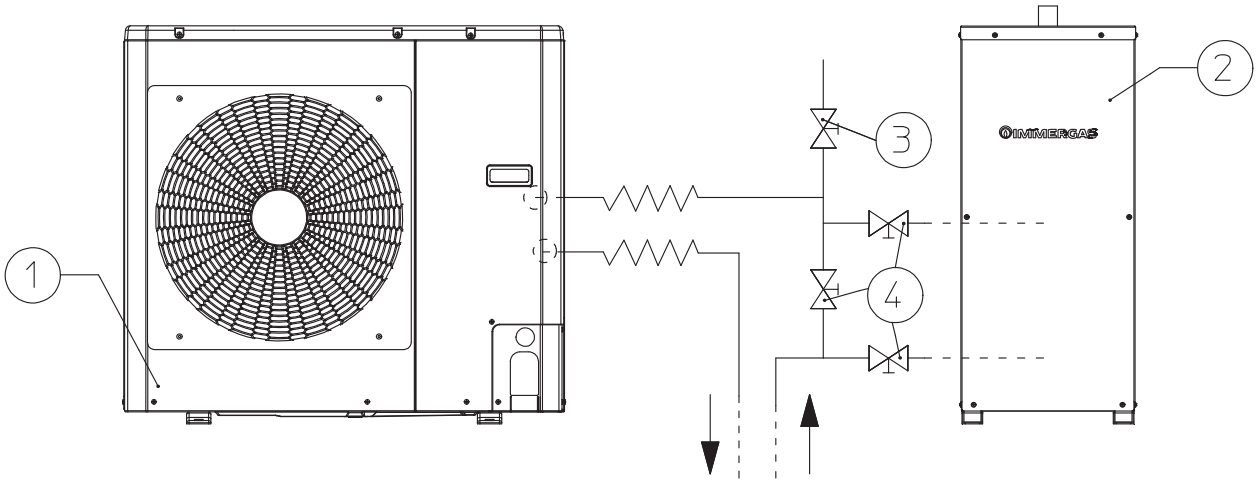


Key:
- *1 - Insulation*
- *2 - Gasket*
- *3 - Flexible hose*
- *4 - Copper pipe*

3 PLUMBING DIAGRAMS

3.1 VERTICAL INERTIAL STORAGE TANK HYDRAULIC DIAGRAM.

10



Key:

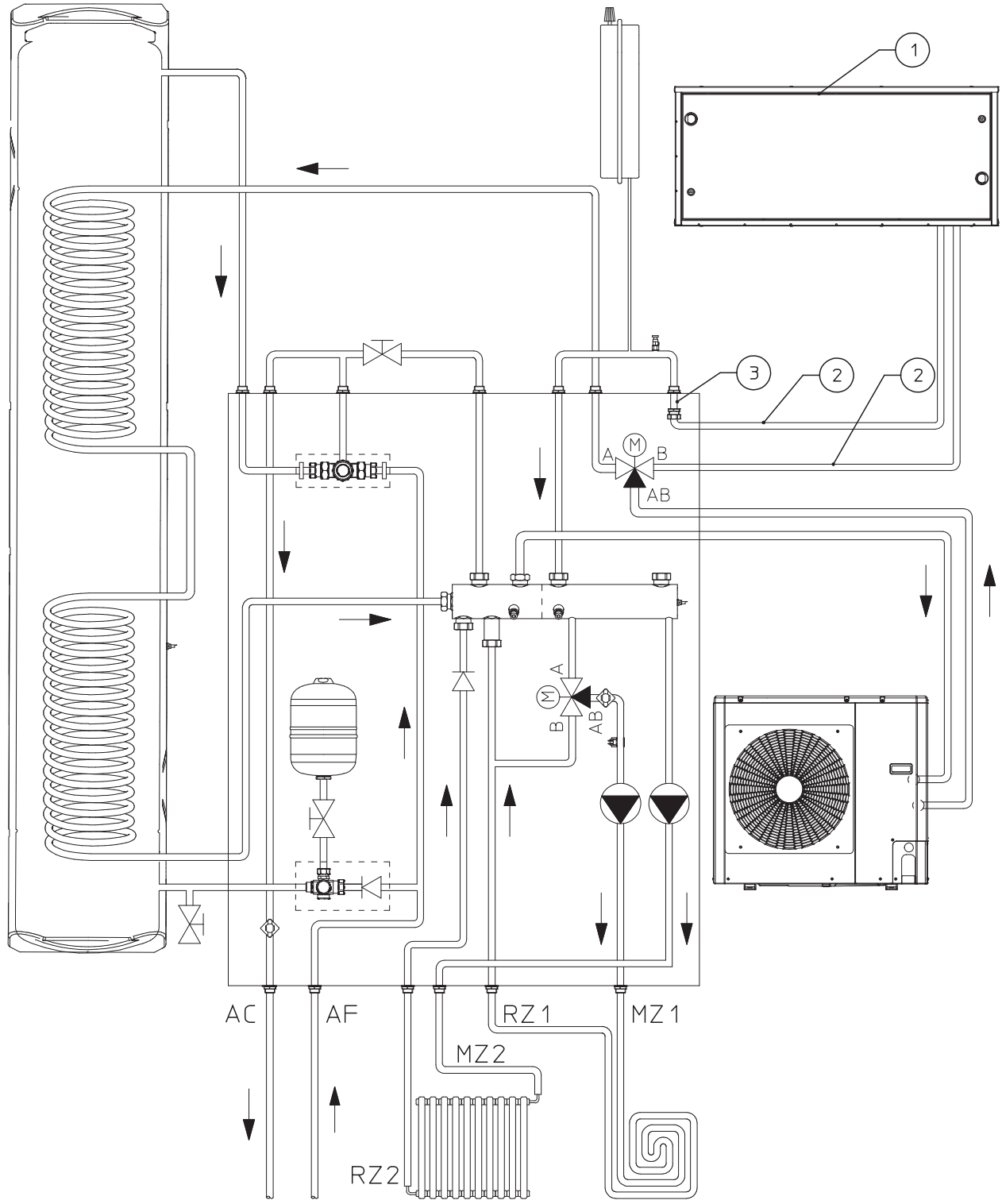
1 - Heat pump (optional)
2 - Inertial storage tank
3 - Drain/filling fitting cut-off valve (optional)
4 - System cut-off valves (optional)

3.2 RECESSED INERTIAL STORAGE TANK HYDRAULIC DIAGRAM - TRIO BASE CONNECTION.

Remove the 3-way valve side B connection pipe - pipe supporting plate and connect the 2 flexible hoses by inserting the pipe (*Ref. 4 Fig. 9 - Ref. 3 Fig. 11*) present in the kit.

Insulate the 2 connections with the insulations provided in the kit.

11



Key:

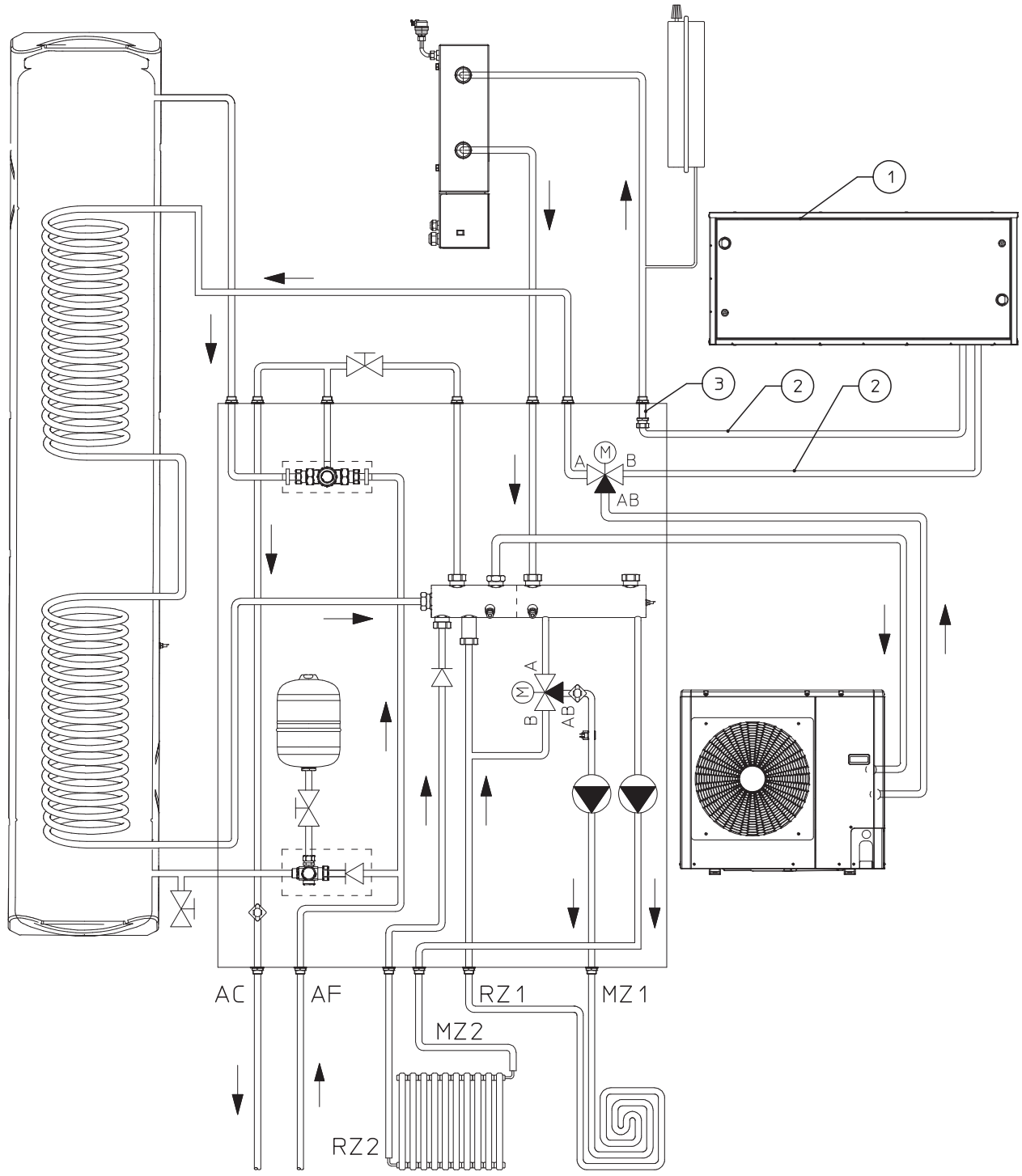
1 - Inertial storage tank
2 - Flexible connection hoses
3 - Copper pipe

3.3 RECESSED INERTIAL STORAGE TANK HYDRAULIC DIAGRAM - TRIO BASE CONNECTION WITH RESISTANCE.

Remove the 3-way valve side B connection pipe - pipe supporting plate and connect the 2 flexible hoses by inserting the pipe (*Ref. 4 Fig. 9 - Ref. 3 Fig. 12*) present in the kit.

Insulate the 2 connections with the insulations provided in the kit.

12



Key:

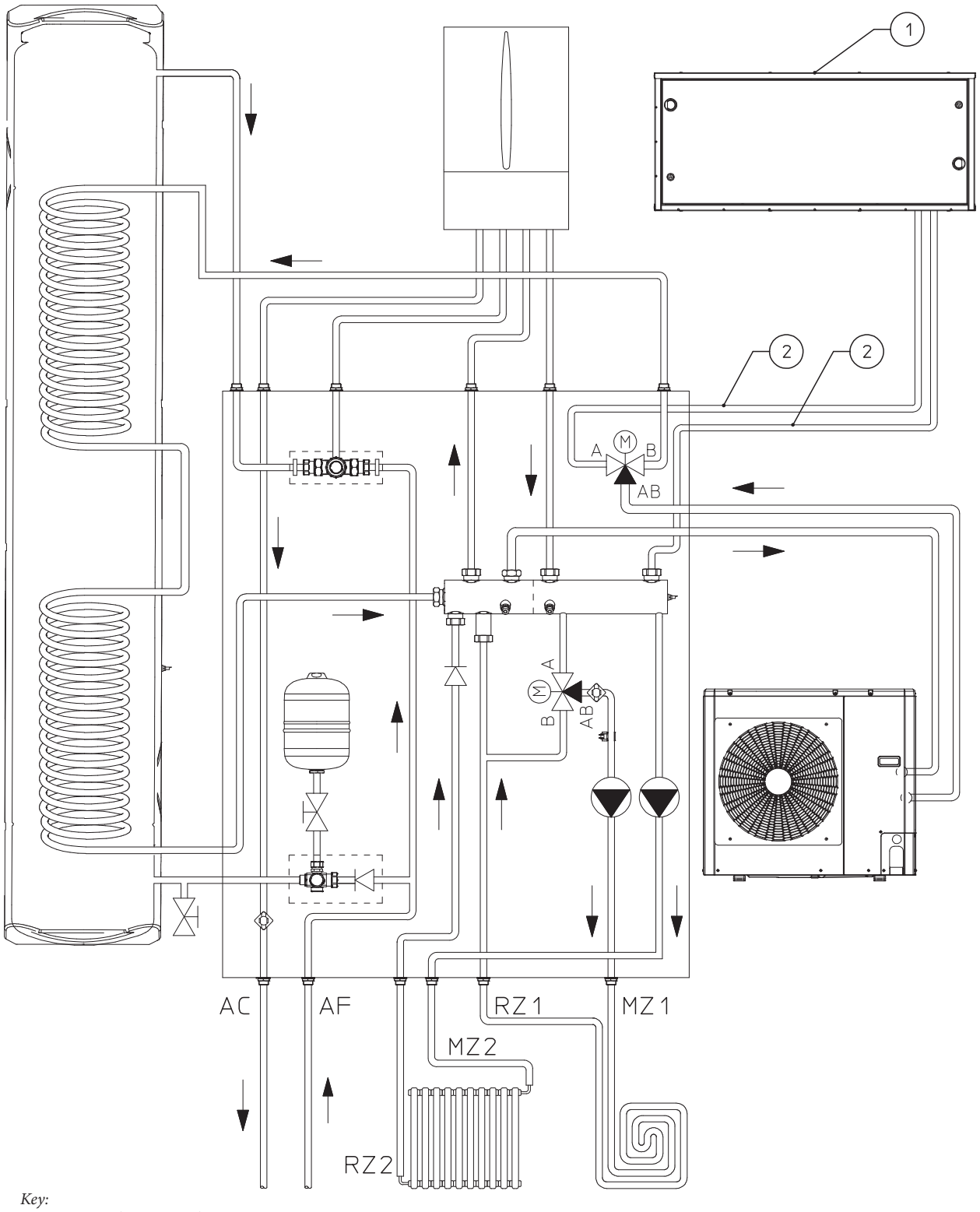
1 - Inertial storage tank
2 - Flexible connection hoses
3 - Copper pipe

3.4 RECESSED INERTIAL STORAGE TANK HYDRAULIC DIAGRAM - TRIO COMBI CONNECTION WITH INSTANTANEOUS BOILER.

Remove the 3-way valve side B connection pipe - manifold and connect the flexible hoses present in the kit.

Insulate the 2 connections with the insulations provided in the kit.

13



Key:

1 - Inertial storage tank

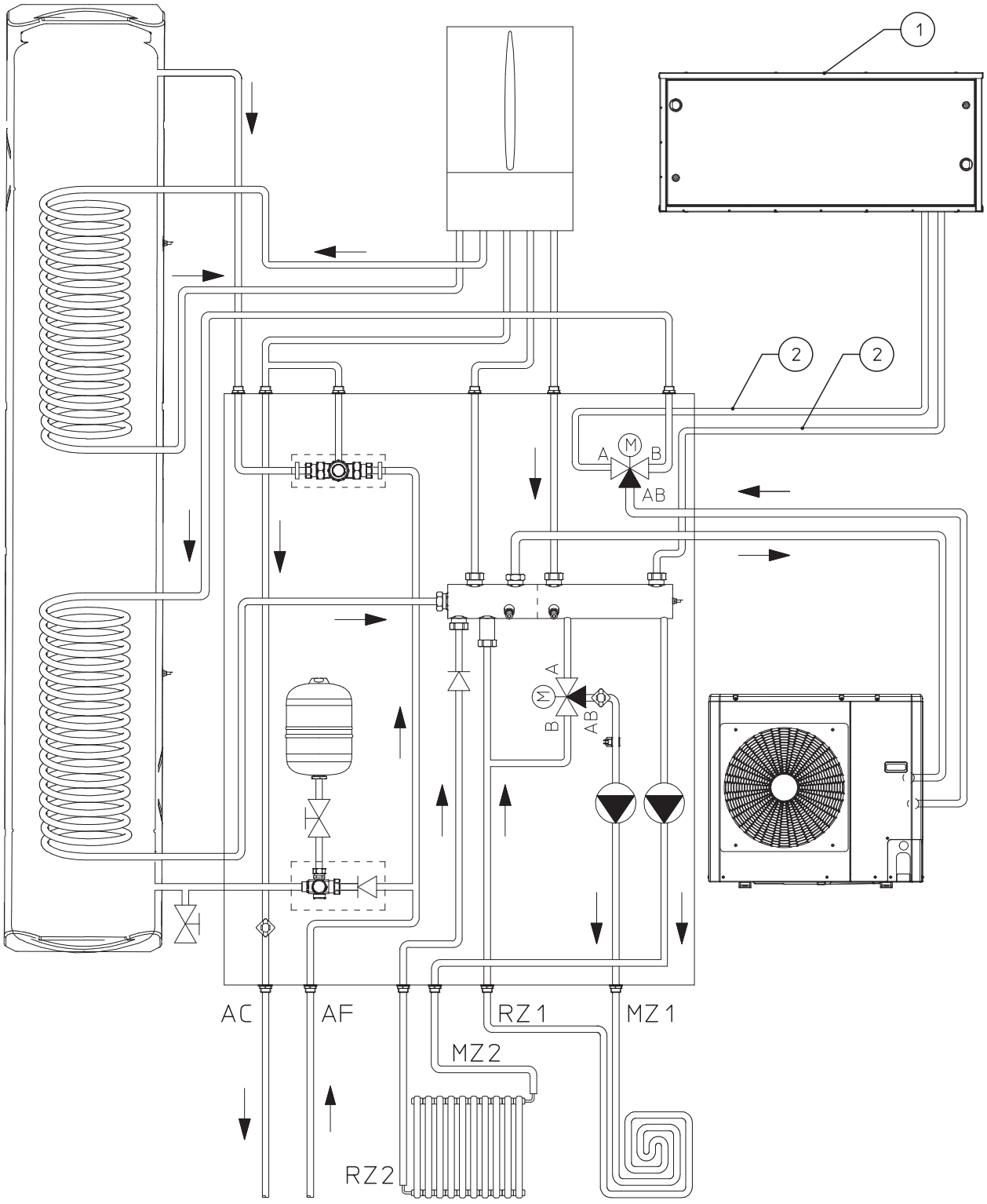
2 - Flexible connection hoses

3.5 RECESSED INERTIAL STORAGE TANK HYDRAULIC DIAGRAM - TRIO PLUS CONNECTION WITH PLUS BOILER.

Remove the 3-way valve side B connection pipe - manifold and connect the flexible hoses present in the kit.

Insulate the 2 connections with the insulations provided in the kit.

14



Key:

1 - Inertial storage tank

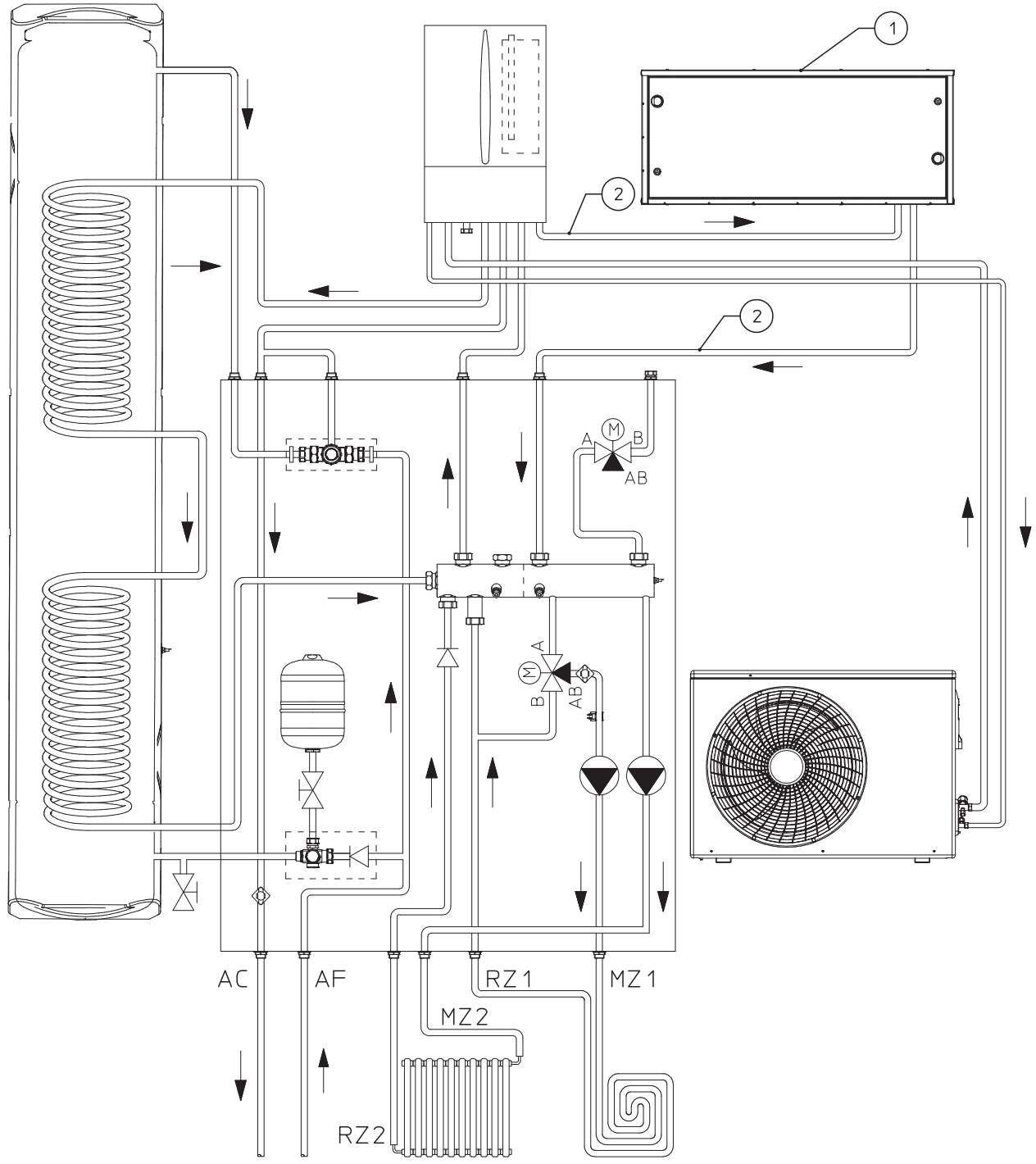
2 - Flexible connection hoses

3.6 RECESSED INERTIAL STORAGE TANK HYDRAULIC DIAGRAM - TRIO CONNECTION WITH MAGIS PRO.

Remove the delivery connection pipe and connect the flexible hoses present in the kit.

Insulate the 2 connections with the insulations provided in the kit.

15



Key:

1 - Inertial storage tank

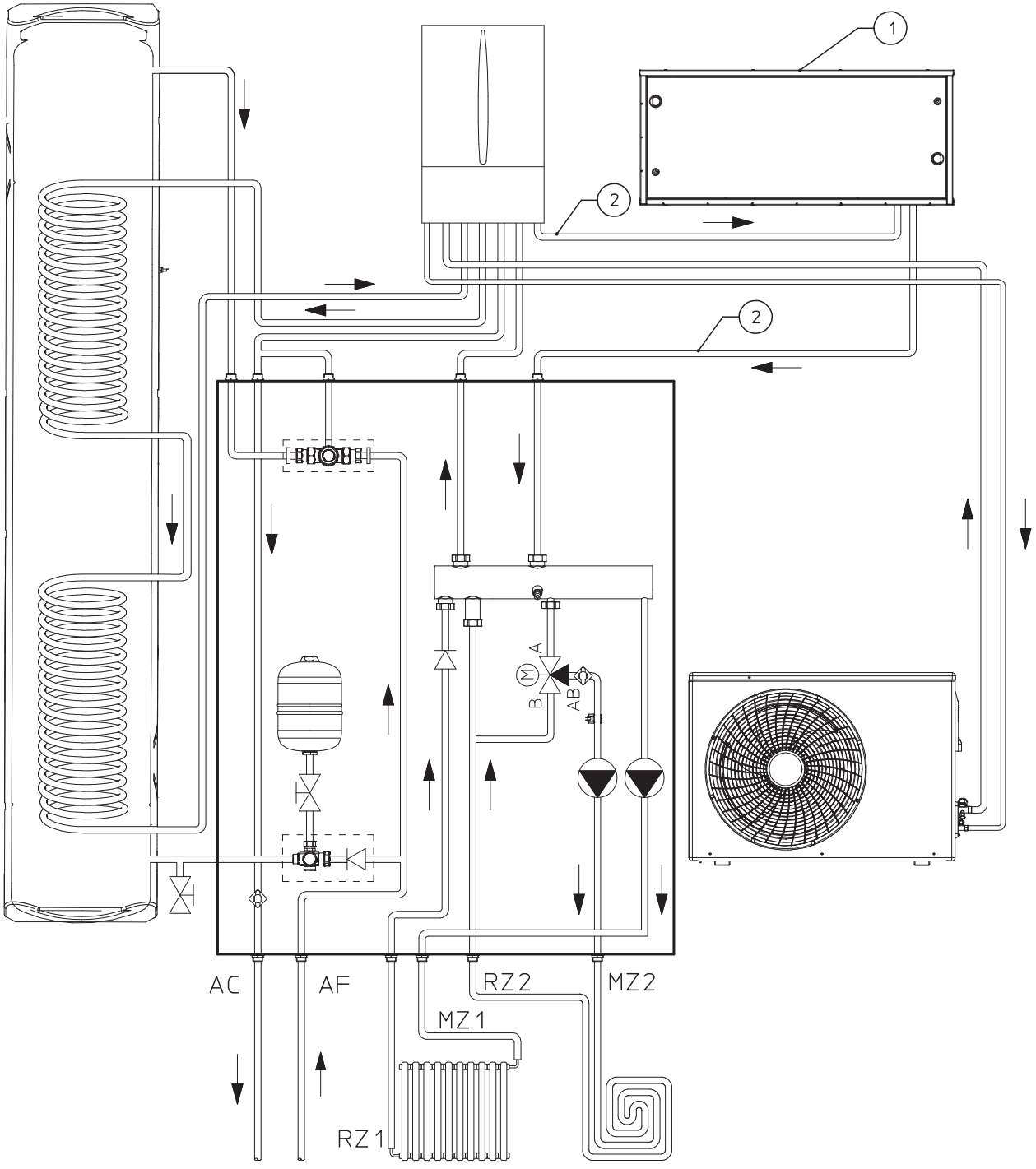
2 - Flexible connection hoses

3.7 RECESSED INERTIAL STORAGE TANK HYDRAULIC DIAGRAM - TRIO CONNECTION WITH MAGIS COMBO PLUS.

Remove the delivery connection pipe and connect the flexible hoses present in the kit.

Insulate the 2 connections with the insulations provided in the kit.

16



Key:

1 - Inertial storage tank

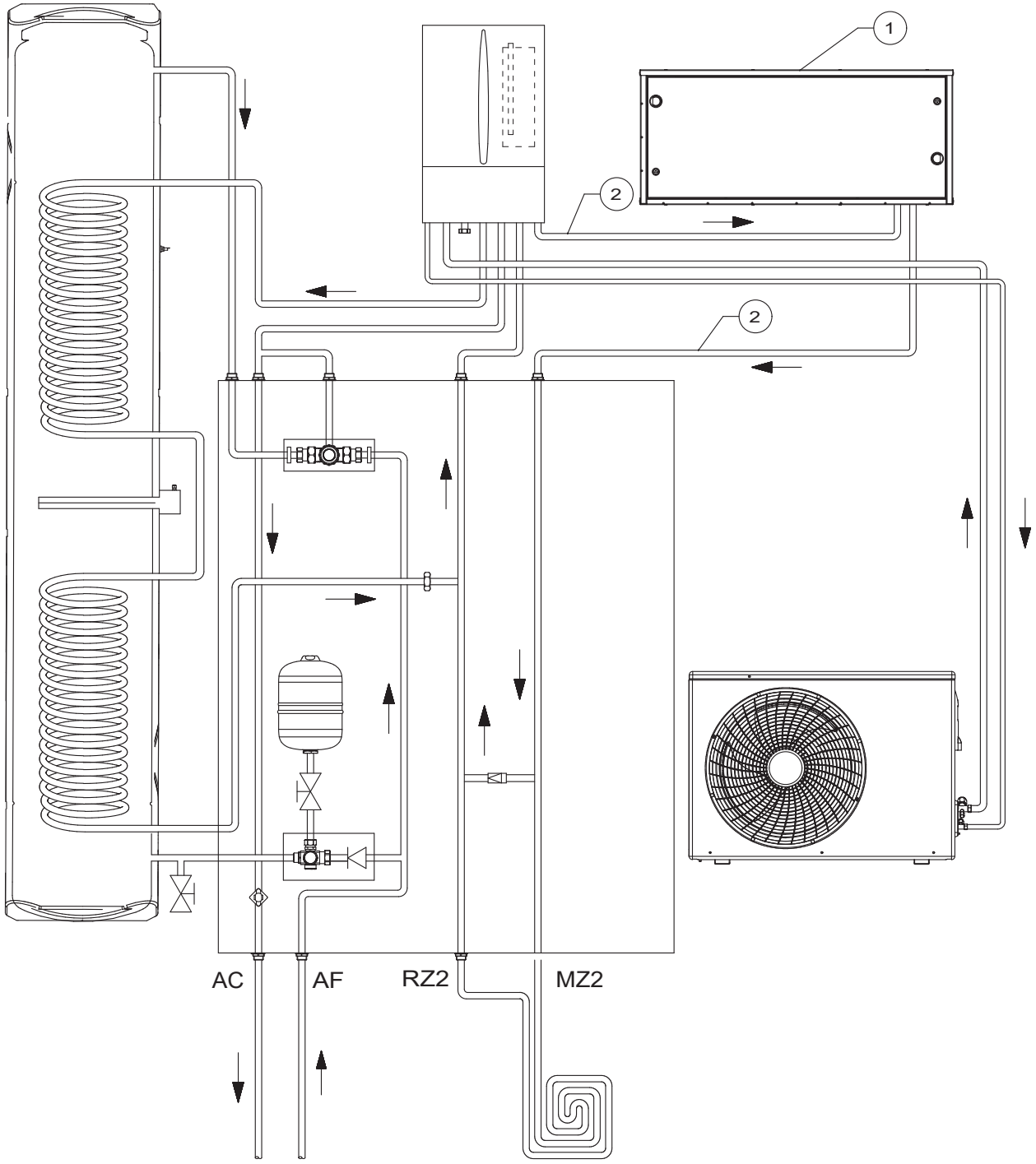
2 - Flexible connection hoses

3.8 RECESSED INERTIAL STORAGE TANK HYDRAULIC DIAGRAM - BASIC MAGIS PRO CONNECTION WITH MAGIS PRO.

Remove the delivery connection pipe and connect the flexible hoses present in the kit.

Insulate the 2 connections with the insulations provided in the kit.

17



Key:

1 - Inertial storage tank

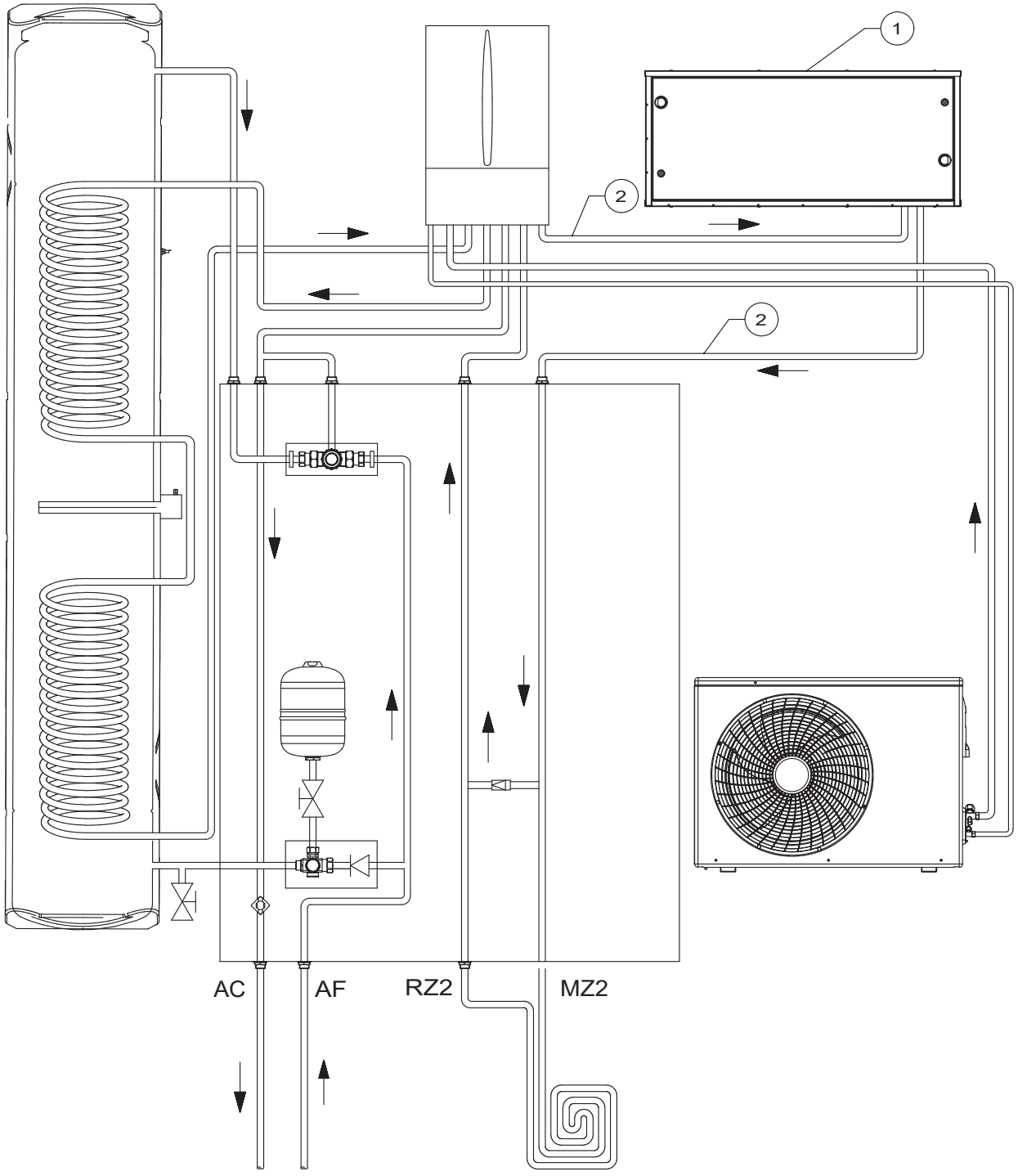
2 - Flexible connection hoses

3.9 RECESSED INERTIAL STORAGE TANK HYDRAULIC DIAGRAM - BASIC MAGIS PRO CONNECTION WITH MAGIS COMBO.

Remove the delivery connection pipe and connect the flexible hoses present in the kit.

Insulate the 2 connections with the insulations provided in the kit.

18



Key:

1 - Inertial storage tank

2 - Flexible connection hoses

Nel corso della vita utile dei prodotti, le prestazioni sono influenzate da fattori esterni, come ad es. la durezza dell'acqua sanitaria, gli agenti atmosferici, le incrostazioni nell'impianto e così via. I dati dichiarati si riferiscono ai prodotti nuovi e correttamente installati ed utilizzati, nel rispetto delle norme vigenti.
N.B.: si raccomanda di fare eseguire una corretta manutenzione periodica.

During the useful life of the products, performance is affected by external factors, e.g. the hardness of the DHW, atmospheric agents, deposits in the system and so on. The data declared refer to new products that are correctly installed and used with respect to the Standards in force.
N.B.: correct periodic maintenance is highly recommended.

Il libretto istruzioni è realizzato in carta ecologica
This instruction booklet is madeof ecological paper.

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The App designed by Immergas for professionials

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