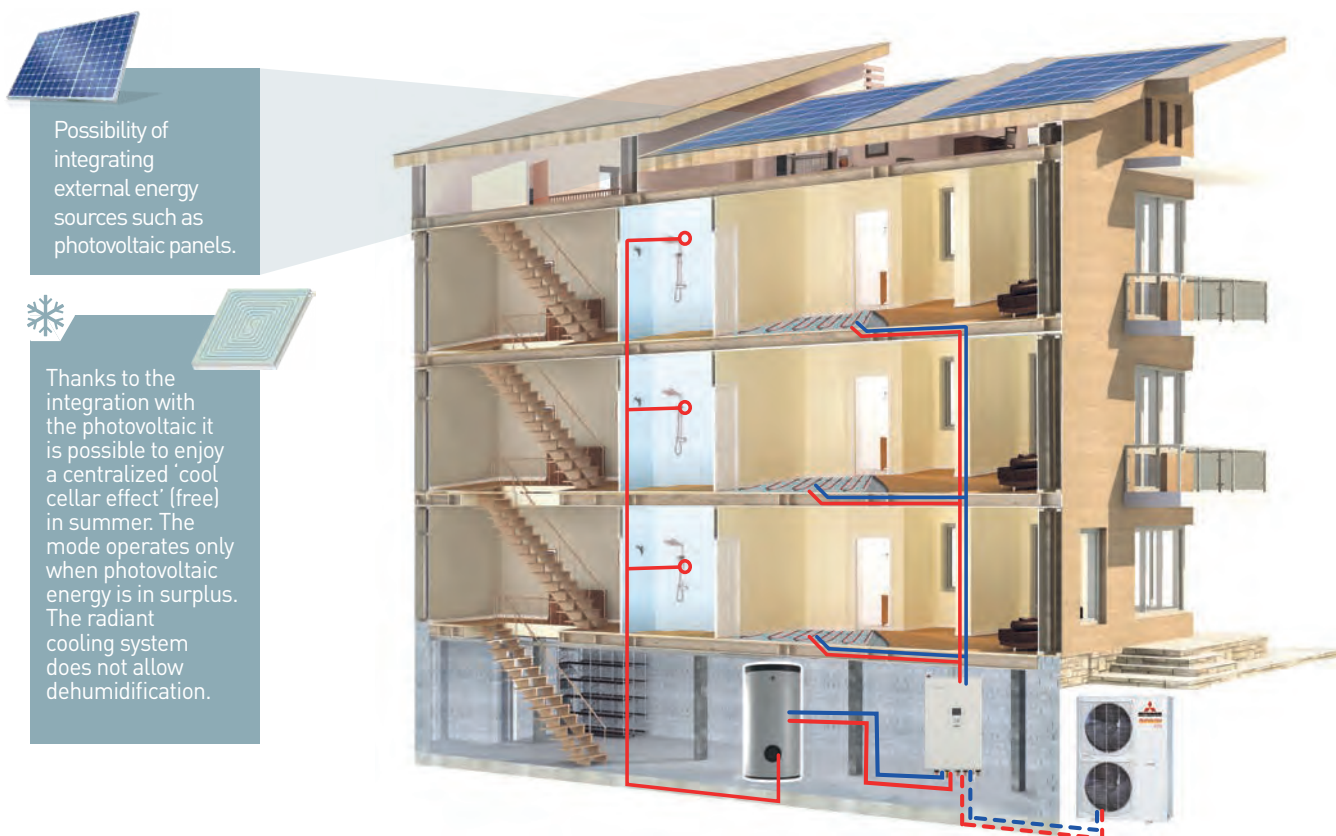


CENTRALIZED HEATING AND DHW, WITH COOLING EFFECT, VIA HYDROLUTION HYDROBOX



Possibility of integrating external energy sources such as photovoltaic panels.



Thanks to the integration with the photovoltaic it is possible to enjoy a centralized 'cool cellar effect' (free) in summer. The mode operates only when photovoltaic energy is in surplus. The radiant cooling system does not allow dehumidification.



floor heating



DHW combined with heating



centralized cool effect

DESCRIPTION OF THE SYSTEM

The application typology exemplified in the figure above describes a system inside a micro-condominium in which the heating consists of the HYDROLUTION system in Hydrobox heating and DHW configuration, with production of domestic hot water combined with the heating: the Applicable DHW has a capacity ranging from 300 to 500 litres. HYDROLUTION produces hot water for heating up to a maximum temperature of 60° C.

In this example it is combined with low temperature radiant panels, which can also be used in summer to produce a 'cool cellar effect'. This centralized solution can always be combined with autonomous split systems.

CONTROL SYSTEM

RC-HY40-W is the control system integrated into HYDROLUTION Hydrobox heating and ACS and allows you:

- to guarantee efficiency in regulation by monitoring the DM parameter;
- to manage the delivery temperature to the system automatically through climate regulation of the system;
- to set on/off timer;
- to set 3 control levels (economy, normal, luxury) for DHW production;
- to manage the anti-legionella cycles and the activation of the DHW recirculation pump;
- to manage the integration of external energy sources.



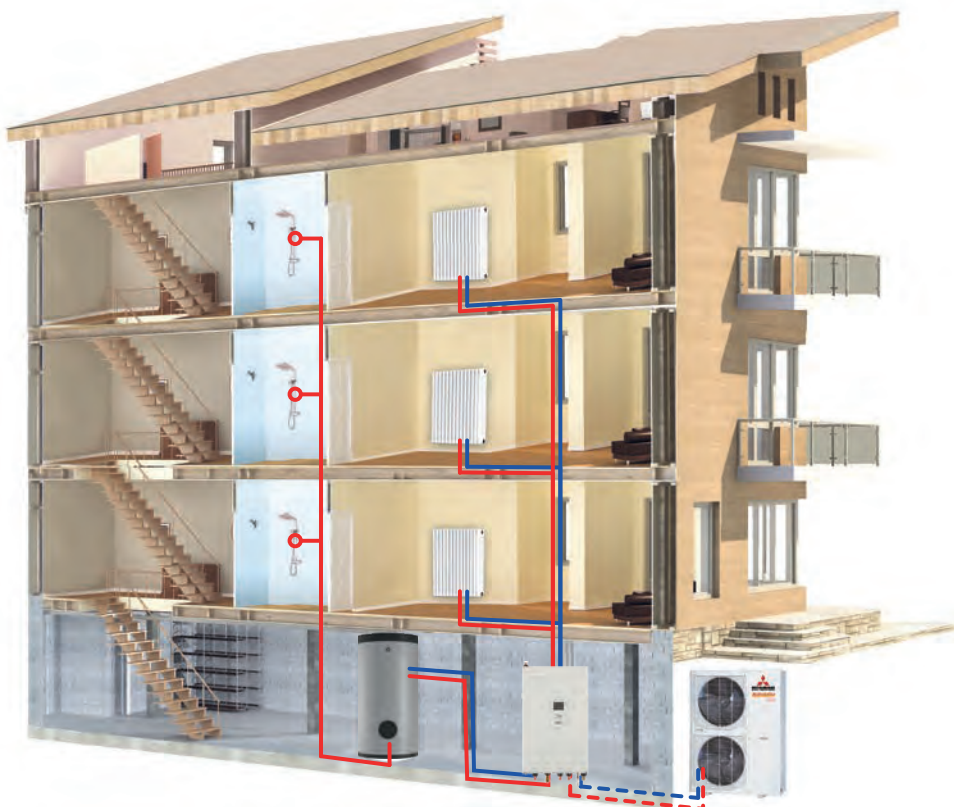
RC-HY40-W control unit

CENTRALIZED HEATING AND DHW, VIA HYDROLUTION HYDROBOX

DESCRIPTION OF THE SYSTEM

The application typology exemplified in the adjacent figure describes a system inside a micro-condominium in which the central heating consists of the HYDROLUTION system in Hydrobox heating and DHW configuration, with production of domestic hot water combined with the heating: the Applicable DHW has a capacity ranging from 300 to 500 litres.

HYDROLUTION produces hot water for heating up to a maximum temperature of 60° C. In this example it is combined with medium temperature heating elements (high efficiency radiators).



heating with high efficiency radiators



DHW combined with heating

CONTROL SYSTEM

RC-HY40-W is the control system integrated into HYDROLUTION Hydrobox heating and ACS and allows you:

- to guarantee efficiency in regulation by monitoring the DM parameter;
- to manage the delivery temperature to the system automatically through climate regulation of the system;
- to set on/off timer;
- to set 3 control levels (economy, normal, luxury) for DHW production;
- to manage the anti-legionella cycles and the activation of the DHW recirculation pump;
- to manage the integration of external energy sources.



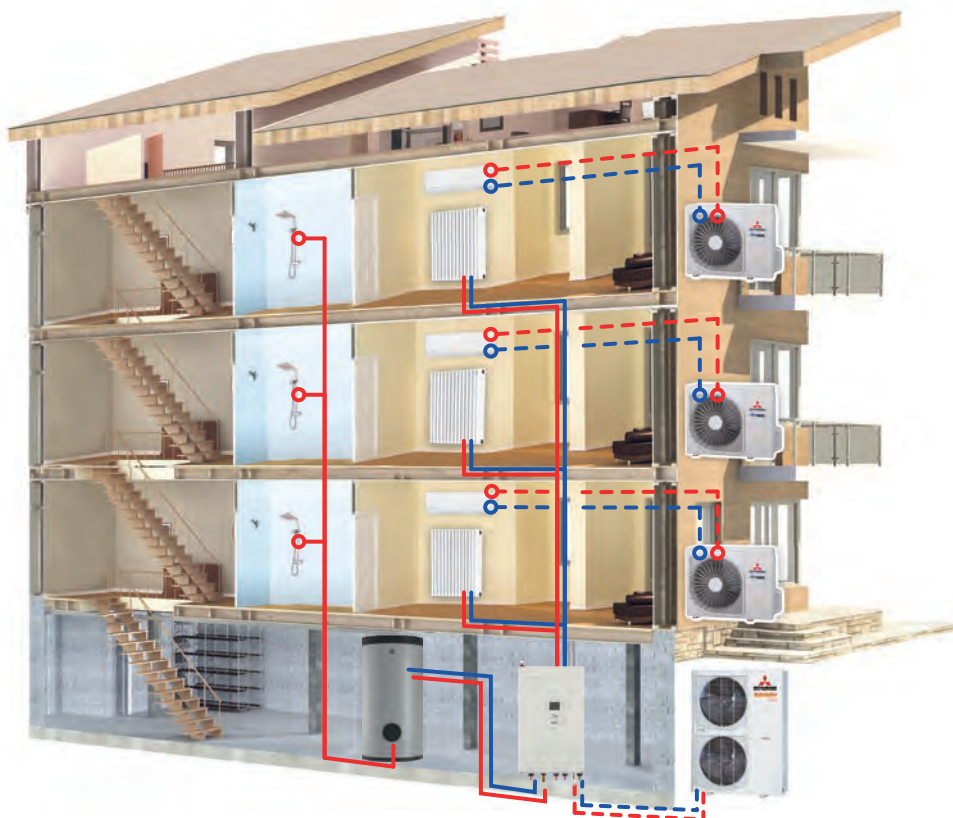
RC-HY40-W control unit

CENTRALIZED HEATING & DHW, VIA HYDROLUTION HYDROBOX, INDEPENDENT COOLING WITH MONOSPLIT/MULTISPLIT SYSTEMS

DESCRIPTION OF THE SYSTEM

The application typology exemplified in the adjacent figure describes a system inside a micro-condominium in which the central heating consists of the HYDROLUTION system in Hydrobox heating and DHW configuration, with production of domestic hot water combined with the heating: the Applicable DHW has a capacity ranging from 300 to 500 litres. HYDROLUTION produces hot water for heating up to a maximum temperature of 60° C. In this example it is combined with medium temperature heating elements (high efficiency radiators).

The independent cooling system consists of a heat pump system (monosplit/multisplit systems) serving each apartment, with an external unit on the balcony.



high efficiency radiators



DHW combined with heating



autonomous cooling

CONTROL SYSTEM

RC-HY40-W is the control system integrated into HYDROLUTION Hydrobox heating and ACS and allows you:

- to guarantee efficiency in regulation by monitoring the DM parameter;
- to manage the delivery temperature to the system automatically through climate regulation of the system;
- to set on/off timer;
- to set 3 control levels (economy, normal, luxury) for DHW production;
- to manage the anti-legionella cycles and the activation of the DHW recirculation pump;
- manage the integration of external energy sources.



RC-HY40-W control unit

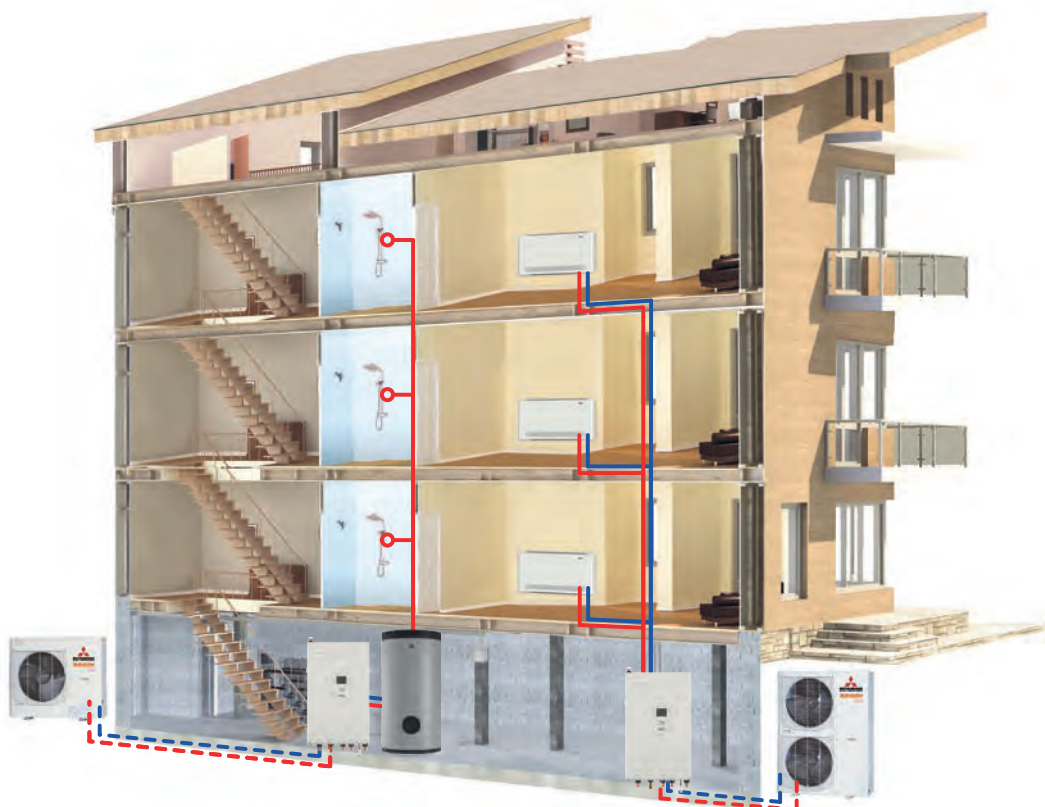
This type of system is particularly suitable for major renovations with insulation, where results in terms of energy saving and summer comfort are desired without intervening with drastic and expensive system revisions.

CENTRALIZED HEATING, COOLING & DHW, VIA HYDROLUTION HYDROBOX

DESCRIPTION OF THE SYSTEM

The application typology exemplified in the adjacent figure describes a system inside a newly built micro-condominium, in which the heating consists of the HYDROLUTION system in Hydrobox heating configuration. The production of DHW is entrusted to HYDROLUTION in the Hydrobox DHW configuration: the applicable DHW tank has a capacity ranging from 300 to 500 litres. HYDROLUTION produces hot water for heating up to a maximum temperature of 60° C. In this example it is combined with warm coils.

In this configuration, the HYDROLUTION system, during the summer season, is able to effectively cool the environments.



heating with warmcoil



ACS with dedicated Hydrolution



cooling with warmcoil

CONTROL SYSTEM

RC-HY40-W is the control system integrated into HYDROLUTION Hydrobox heating and ACS and allows you:

- to guarantee efficiency in regulation by monitoring the DM parameter;
- to manage the delivery temperature to the system automatically through climate regulation of the system;
- to set on/off timer;
- to set 3 control levels (economy, normal, luxury) for DHW production;
- to manage the anti-legionella cycles and the activation of the DHW recirculation pump;
- to manage the integration of external energy sources.



RC-HY40-W control unit

WHAT IS WARMCOIL?

This is a particular fan coil with a radiant effect that works with very low air movement in winter and allows effective air conditioning in summer.



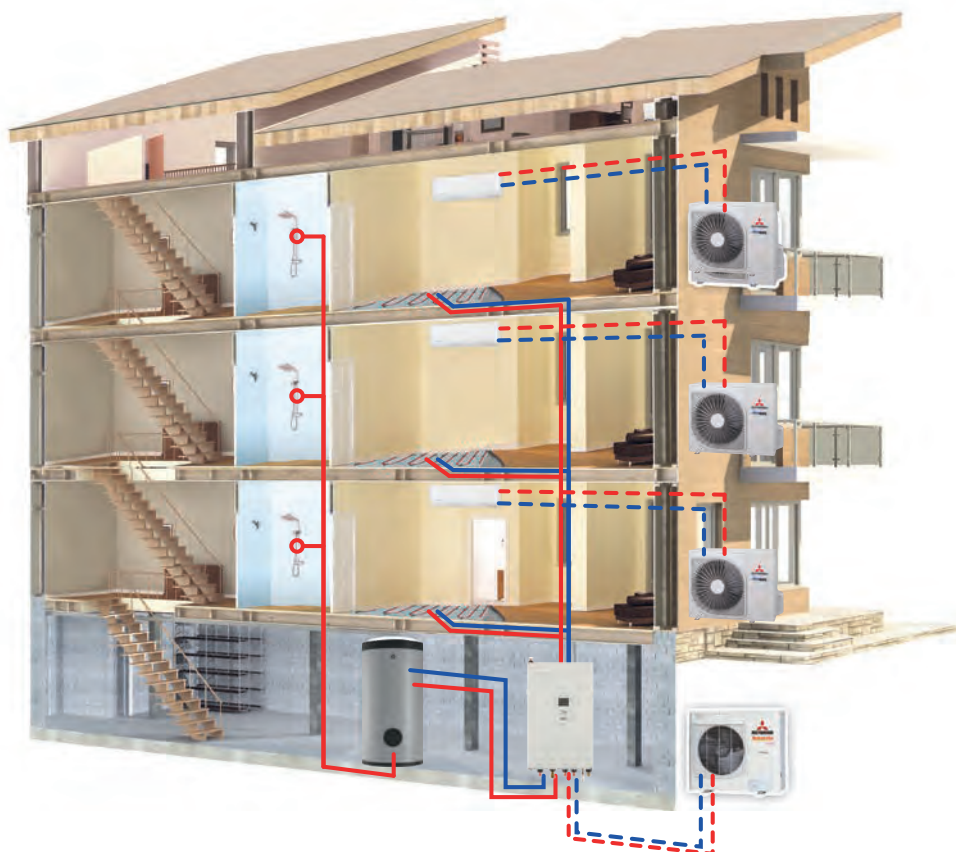
CENTRALIZED HEATING & DHW, VIA HYDROLUTION HYDROBOX AND INDEPENDENT COOLING WITH MONOSPLIT/ MULTISPLIT SYSTEMS

DESCRIPTION OF THE SYSTEM

The application typology exemplified in the adjacent figure describes a system inside a micro-condominium in which the central heating consists of the HYDROLUTION system in Hydrobox heating and DHW configuration, with production of domestic hot water combined with the heating: the Applicable DHW has a capacity ranging from 300 to 500 litres.

HYDROLUTION produces hot water for heating up to a maximum temperature of 60° C. In this example it is combined with low temperature heating elements (radiant panels).

The independent cooling system consists of a heat pump system (monosplit/multisplit systems) serving each apartment, with an external unit on the balcony.



floor heating



DHW combined with heating



autonomous cooling

CONTROL SYSTEM

RC-HY40-W is the control system integrated into HYDROLUTION Hydrobox heating and ACS and allows you:

- to guarantee efficiency in regulation by monitoring the DM parameter;
- to manage the delivery temperature to the system automatically through climate regulation of the system;
- to set on/off timer;
- to set 3 control levels (economy, normal, luxury) for DHW production;
- to manage the anti-legionella cycles and the activation of the DHW recirculation pump;
- to manage the integration of external energy sources.



RC-HY40-W control unit

Calculation according to UNI TS 11300-2

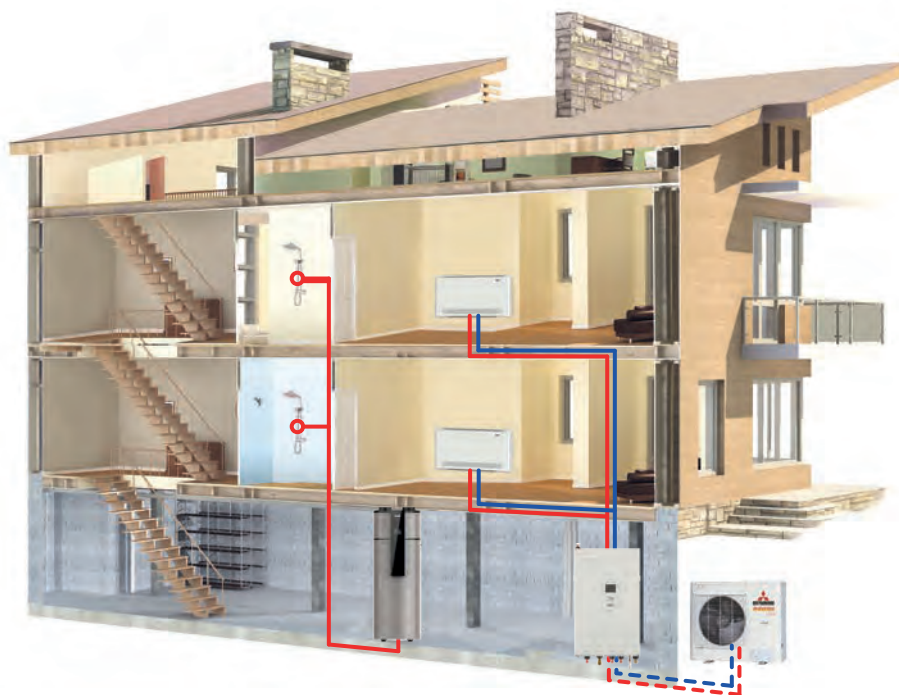
INDEPENDENT HEATING & COOLING, VIA HYDROLUTION HYDROBOX AND ACS VIA HOT WATER

DESCRIPTION OF THE SYSTEM

The application typology exemplified in the adjacent figure describes the system in a newly built independent house, in which the heating consists of the HYDROLUTION system in Hydrobox heating configuration. The production of domestic hot water is entrusted to the Hot Water system: the DHW tank has a capacity of over 200 litres. HYDROLUTION produces hot water for heating up to a maximum temperature of 60° C. In this example it is combined with warm coils.

In this configuration, the HYDROLUTION system, during the summer season, is able to effectively cool the environments.

Possibility of connecting the RMU40M remote control with built-in room sensor.



heating with warmcoil



DHW with Hot Water



cooling with warmcoil

CONTROL SYSTEM

Within this type of system, **RC-HY40-W** is the control system integrated into the HYDROLUTION Hydrobox. Through the control panel it is possible to program the operation of HYDROLUTION in cooling/heating/Silent/DHW mode. Specifically, the control allows you:

- to create 3 daily heating operation programs;
- to create 2 time schedules for cooling operation;
- to create 2 time schedules for operation in 'Silent' mode;
- to manage the integration of external energy sources.



RC-HY40-W control unit

COS'È IL WARMCOIL?

This is a particular fan coil with a radiant effect that works with very low air movement in winter and allows effective air conditioning in summer.

