



*Wall-mounted indoor unit for  
Hydro-Split heat pumps*

**EASYBOX  
HQCN-NEE 1 BC A RANGE**



**TECHNICAL BULLETIN**

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# Features and benefits

EASYModules are specialized autonomous heat pump systems dedicated to meet the thermal and comfort requirements of single or multi-family homes with medium-low energy consumption. The system consists of a new generation monobloc outdoor unit, EDGE EVO 2.0 to R-32 and EDGE F to R-290, with very high efficiency that encloses the refrigerant circuit inside, this is combined with an internal hydraulic module available in four different versions as shown below.

## EASYMINI

- Mini Version
- 50-litre domestic water tank
- Single-area water booster kit already included in standard unit
- Integrated inertial storage tank
- Built-in WiFi for connection to the dedicated APP
- Compact dimensions, suitable for replacing a boiler



## EASYTANK

- Tower Version
- Two domestic water volumes 190 and 250 litres
- Integrated inertial storage tank
- Built-in WiFi for connection to the dedicated APP



## EASYBOX

- Box Version
- Integrated three-way valve for domestic hot water
- Compact dimensions
- Integrated inertial storage tank
- Built-in WiFi for connection to the dedicated APP



## EASYIN

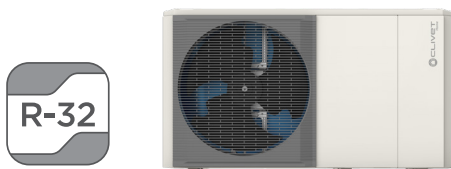
- Uncased version
- 150-litre domestic water tank can be expanded to 300 litres
- Compact dimensions for easy installation in walls
- Also available in the hybrid version with 24 kW or 34 kW boiler
- Integrated inertial storage tank
- Built-in WiFi for connection to the dedicated APP



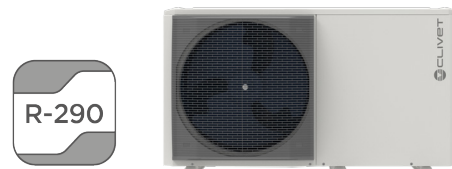
## Outdoor units that can be combined:

Packaged heat pumps with hermetic Twin Rotary DC compressor with soft start, controlled by an inverter that constantly modulates the power delivered according to actual demand, guaranteeing the best in terms of reliability, low consumption and high seasonal efficiency.

EDGE EVO 2.0 - WISAN-YME 1 S



EDGE F - WISAN-PME 1 S



## EASYBOX - Indoor unit

### Zinc magnesium structure

Supporting structure made of zinc-magnesium sheet metal that ensures excellent mechanical features and high long-term resistance to corrosion.

### Panelling

External panelling in zinc-magnesium sheet metal, with white paint in RAL 9003 to ensure better resistance to corrosion. Panels that can be easily removed to allow full access to internal components.

### Water circuit

- Three-way switching valve for system or domestic water
- Magnetic dirt separator
- System relief valve
- 12-litre system expansion tank, 1 bar pre-charging
- 15-litre inertial tank

### Electrical panel

The electrical panel is located inside the unit and can be accessed by an easily removable panel.

The power section includes:

- main power supply terminals.

Coloured keypad for:

- remote microprocessor control with single-area thermostat function;
- BMS management;
- daily and weekly switch-on/off scheduler and set point;
- anti-legionella function scheduling;
- one-/two-area booster management;
- solar thermal management;
- management for backup heaters;
- interface terminal with remotely controlled graphic display
- integrated wifi module for connection to APP
- cascade operation;

The electrical panel contains:

- T5 temperature probe for temperature control in DHW tanks (4.5 m long and 6 mm bulb);

### Standard unit kit:

- Torx insert for opening and closing the unit's panels
- Cover cap for remotely controlled keypad
- 1 x quick-action coupling spring
- 1 x expansion tank connection gasket
- 1 x O-ring



# Accessories separately supplied

## Installed inside EASYBOX

**EH246X**  
**EH9X**

**Additional electric heater adjustable to three capacities of 2, 4 or 6 kW**

**Additional electric heater adjustable to one capacity of 9 kW**

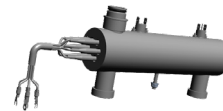
Integration electric heater in STAINLESS STEEL with 2-4 kW single-phase or 6-9 kW three-phase capacities.

The electric heater can operate both for the system and for the production of domestic hot water in two different modes:

- as an integration, when the heat pump capacity is not enough to fulfil the required set point;
- as a safety element if the heat pump fails.

⚠ Configuration with additional electric heater excludes condensing boiler for integration/replacement (HYFE24 - HYFE34).

⚠ Selection of the additional three-phase electric heater changes the voltage of the indoor unit only. The power supply of the outdoor unit remains unchanged.



**KIR2HX -**  
**KIR2HLX**

**Hydraulic kit for managing two areas with the same temperature**

**Hydraulic kit for managing two areas with high and mixed temperature**

Distribution module for 2-area heating systems with compact design and ample versatility for different types of indoor unit installation.

Kit consisting of:

- 1 collector / separator painted black;
- 2 circulators;
- 1 sliding temperature mixing valve (only in the KIR2HLX kit);
- 1 lower anti-rotation template;
- 1 module mounting bracket;
- connecting pipes
- 1 probe for managing the mixed circuit temperature (only in the KIR2HLX kit)

⚠ For technical pump head data, refer to the dedicated section in the GENERAL TECHNICAL DATA chapter.

⚠ Water booster kit excludes SICGX intermediate exchanger kit for glycol circuit

**KCSIX**

**Kit for hydraulic separation between primary and secondary circuit with pump on secondary circuit**

The single-area kit consists of a hydraulic separator combined with a high efficiency pump. Allows interaction between the primary circuit circulator and the secondary circuit circulator. Furthermore, the separator also has the function of a deaerator. With the following benefits and advantages:

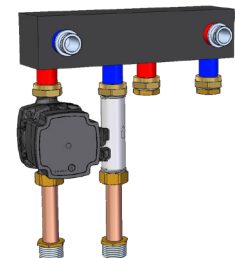
- makes the connected hydraulic circuits independent;
- ensures effective operation of the secondary circulator that provides the hydraulic demand of air conditioning systems;
- air extraction system;

The kit consists of:

- 1 collector / separator painted black;
- 1 circulator;
- 1 lower anti-rotation template;
- 1 module mounting bracket;
- connecting pipes

⚠ For technical pump head data, refer to the dedicated section in the GENERAL TECHNICAL DATA chapter.

⚠ Water booster kit excludes SICGX intermediate exchanger kit for glycol circuit



**SICGX**

**Intermediate exchanger for clean separation between primary and secondary circuit**

Brze-welded plate exchanger for clean separation of the water circuit between the outdoor unit and the system including the emitters. This allows less glycol to be used for frost protection of the entire part of the circuit exposed to the outdoor temperature.

To check the available pressure provided by the pump, refer to the specific curve page

The kit consists of:

- 1 brze-welded plate exchanger
- 1 electronic circulator
- 1 module mounting bracket;
- connecting pipes

⚠ Intermediate exchanger kit for glycol circuit excludes KIR2HX - KIR2HLX - KCSIX water booster kit

**KCAIAX Additional inertial tank connection kit**  
 Kit for connecting an inertial tank outside the unit  
 It consists of 2 hydraulic module inlet/outlet pipes.

Required to connect the ACI40X inertial tank

## Installed outside EASYBOX

**ACS200X 200-litre domestic hot water tank**  
**ACS300X 300-litre domestic hot water tank**  
**ACS500X 500-litre domestic hot water tank**

Carbon steel tanks with internal vitrification treatment according to DIN 4753-3 and UNI 10025. Complete with magnesium anodic protection, inspection flange, electric heater.

All tanks have 70 mm rigid polyurethane insulation on the outside to minimise heat loss and increase efficiency.

		ACS200X	ACS300X	ACS500X
Capacità	[litri]	196	273	475
Diametro	[mm]	640	640	790
Altezza	[mm]	1215	1615	1705
Sup. scambiatore	[m <sup>2</sup> ]	1,5	1,8	2,2
Sup. scambiatore solare	[m <sup>2</sup> ]	\	\	\
Pressione max sanitario	[bar]	10	10	10
Classe energetica serbatoio	[-]	B	B	B
Dispersione accumulo	[W]	51	63	80
Dispersioni termiche	[W/K]	1,13	1,40	1,78
Resistenza elettrica	[kW]	2,0	2,0	2,0

Data according to DIN 4708 / EN 12897 / EN 15332

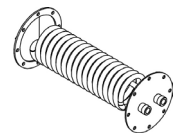


**SCS08X 0.8 m<sup>2</sup> solar exchanger for flange installation**  
**SCS12X 1.2 m<sup>2</sup> solar exchanger for flange installation**

The kit is available in two sizes: 0.8 m<sup>2</sup> when combined with the 200- and 300-litre tank and 1.2 m<sup>2</sup> when combined with the 500-litre tank.

The kit consists of:

- tin-plated finned copper coil
- plastic cover



**ACI40X 40-litre inertial tank ideal for installation behind indoor units**

Inertial tank to be installed outside the unit. Extremely compact, supplied with air vents and support brackets for wall installation. Suitable for all EDGE EVO 2.0 sizes, it facilitates operation and helps to fulfil the thermal requirement, guaranteeing optimal modulation.

Kit consisting of:

- 1 40-litre ST371 steel water tank for ACI40X
- 1 2-metre flexible hose
- Extremely compact:  
 LENGTH: 440 mm  
 DEPTH: 220 mm  
 HEIGHT: 887 mm
- Maximum operating temperature: 100°C
- Maximum operating pressure: 6 bar
- Thermally isolated with EPP 40 g/l
- Insulation thickness 30 mm

⚠ Requires the KCAIAX connection kit



# Option compatibility

## Compatibility options for Hydro-Split EASYBOX + EDGE system.

When combining EASYBOX and EDGE units, the selectable options for the monoblock are as follows:

### “Hybrid configuration” section

- GAS BOILER\_UC / GAS BOILER\_FE 24.4-33.4 - 4-pipe condensing boiler for hybrid heat pumps
- KCSAFX - ø 60/100 mm vertical coaxial fitting
- CCOAX - 90° coaxial elbow for ø 60/100 mm horizontal outlet that can be adjusted at 360°
- TCOAX - L1000mm ø 60/100 coaxial pipe with terminal
- KAS80X - ø 80 mm vertical fittings
- KSDFX - ø 80 mm flue gas splitter kit
- VDACSX - Thermostatic switching valve for domestic water
- GAS BOILER\_UC 70.2-115.2-200F.2 - 2-pipe condensing boiler for hybrid heat pumps
- INAILX - INAIL safety kit for installation of single boiler
- FH100X - ø 100 mm vertical flue gas terminal
- HIDUCX - Remote control for UC 70.2-115.2 boilers

⚠ ‘Hybrid configuration’ not compatible with options: EH246X- Supplementary electric heater settable in three power levels of 2, 4 or 6 kW  
EH9X- Supplementary electric heater settable in one power level of 9 kW

### “Configuration with solar thermal panels” section

- ELFOSun3

### “Configuration with primary and secondary circuit” section

- DI50-2X - 50-litre hydraulic circuit breaker
- DI100X - 100-litre hydraulic circuit breaker

### “Other accessories supplied separately” section

- KTFLX - Hose kit for connection to the unit
- VAGX - Safety antifreeze valve for system
- DTX - Drain pan with electric heater
- AMRX - Kit of antivibration mounts for floor installation
- AMMSX - Kit of anti-seismic antivibration mounts for floor installation
- ASTFX - Kit of antivibration mounts for installation on wall brackets, inertial storage tank or tray
- KSIPX - Wall fixing bracket kit
- HTC2WX - HID-TConnect2 Chronothermostat for temperature control white
- CONTROL4 NRG

For all plant accessories, please refer to the EASYBOX ACCESSORIES.

Internal compatibility EASYBOX	Accessories separately supplied					
	EH246X EH9X	KCSIX KIR2HX KIR2HLX	SICGX	ACS200X ACS300X ACS500X	ACI40X	KCAIAX
EH246X - EH9X	-	●	●	●	●	●
KCSIX - KIR2HX - KIR2HLX	●	-	-	●	●	●
SICGX	●	-	-	●	●	●
ACS200X - ACS300X - ACS500X	●	●	●	-	●	●
ACI40X	●	●	●	●	-	●
KCAIAX	●	●	●	●	●	-

## Construction characteristics - Indoor unit

SIZE	A	
<b>System characteristics</b>		
Maximum system pressure	bar	3
System expansion tank	l	12
Expansion tank pre-charging	bar	1
System water connections	inch	1"
<b>Size</b>		
Operation (L x W x H)	mm	547 x 386 x 604
Packaging (L x W x H)	mm	720 x 600 x 550
Operating weight	kg	53
Shipping weight	kg	50

## Hydraulic data - Indoor unit + EDGE EVO 2.0 - WiSAN-YME 1 S



SIZE		2.1	3.1	4.1	5.1	6.1	7.1	8.1
Minimum system water content	l	30	30	70	70	70	70	70
Minimum water flow rate allowed	l/s	0,11	0,11	0,11	0,11	0,2	0,2	0,2
Maximum water flow rate allowed	l/s	0,25	0,35	0,46	0,58	0,69	0,76	0,83

## Hydraulic data - Indoor unit + EDGE F - WiSAN-PME 1 S



SIZE		2.1	3.1	4.1	5.1	6.1	7.1	8.1
Minimum system water content	l	30	30	70	70	70	70	70
Minimum water flow rate allowed	l/s	0,10	0,10	0,17	0,17	0,17	0,17	0,17
Maximum water flow rate allowed	l/s	0,42	0,42	0,64	0,69	0,89	1,00	1,08

The use of glycol and the intermediate heat exchanger changes the performance of the machine: it is possible to estimate the operating performance by multiplying the correction factors by the nominal operating values

### Ethylene glycol table

MIN outdoor temperature	Glycol concentration	Correction factors			
		Capacity	Power input	Water resistance	Water flow
0°C	0%	0,985	1	1	1
-5°C	10%	0,973	0,998	1,118	1,019
-15°C	20%	0,964	0,995	1,268	1,051
-25°C	30%	0,958	0,992	1,482	1,092

### Propylene glycol table

MIN outdoor temperature	Glycol concentration	Correction factors			
		Capacity	Power input	Water resistance	Water flow
0°C	0%	0,978	1	1	1
-5°C	10%	0,963	0,996	1,071	1
-15°C	20%	0,951	0,992	1,189	1,016
-25°C	30%	0,942	0,988	1,380	1,034

⚠ The glycol concentration must never be > 30%.



# General technical data

## EDGE EVO 2.0 - WiSAN-YME 1 S - performance

### Heating

SIZE		2.1	3.1	4.1	5.1	6.1 / 6.1T	7.1 / 7.1T	8.1 / 8.1T
<b>Air 7°C - Water 35°C</b>								
Rated heating capacity	1 kW	4,20	6,35	8,40	10,0	12,1	14,5	15,9
Total power input	1 kW	0,82	1,28	1,63	2,02	2,44	3,15	3,53
COP	1 -	5,10	4,95	5,15	4,95	4,95	4,60	4,50
Water flow rate	1 l/s	0,20	0,30	0,40	0,48	0,58	0,69	0,76
Nominal available pressure	1 kPa	85	84	80	71	60	48	40
<b>Air 2°C - Water 35°C</b>								
Rated heating capacity	2 kW	4,40	5,50	7,10	8,20	9,20	11,0	13,0
Total power input	2 kW	1,10	1,41	1,73	2,05	2,36	3,06	3,77
COP	2 -	4,00	3,90	4,10	4,00	3,90	3,60	3,45
Water flow rate	2 l/s	0,21	0,26	0,34	0,39	0,44	0,53	0,62
Nominal available pressure	2 kPa	85	85	82	80	78	65	54
<b>Air -7°C - Water 35°C</b>								
Rated heating capacity	3 kW	4,70	6,00	7,00	8,00	10,0	12,0	13,1
Total power input	3 kW	1,52	2,00	2,19	2,62	3,33	4,21	4,85
COP	3 -	3,10	3,00	3,20	3,05	3,00	2,85	2,70
Water flow rate	3 l/s	0,22	0,29	0,33	0,38	0,48	0,57	0,63
Nominal available pressure	3 kPa	85	85	83	81	72	60	55
<b>Air 7°C - Water 45°C</b>								
Rated heating capacity	4 kW	4,30	6,30	8,10	10,0	12,3	14,1	16,0
Total power input	4 kW	1,13	1,70	2,10	2,67	3,32	3,92	4,57
COP	4 -	3,80	3,70	3,85	3,75	3,70	3,60	3,50
Water flow rate	4 l/s	0,21	0,30	0,39	0,48	0,59	0,67	0,76
Nominal available pressure	4 kPa	85	85	80	70	56	48	38
<b>Air 7°C - Water 55°C</b>								
Rated heating capacity	5 kW	4,40	6,00	7,50	9,50	11,9	13,8	16,0
Total power input	5 kW	1,49	2,03	2,36	3,06	3,90	4,68	5,61
COP	5 -	2,95	2,95	3,18	3,10	3,05	2,95	2,85
Water flow rate	5 l/s	0,21	0,29	0,36	0,45	0,57	0,66	0,76
Nominal available pressure	5 kPa	85	85	82	75	60	52	38

Data according to EN 14511:2018.

1. entering/leaving water temperature 30/35 °C, outdoor air temperature -7 °C dry bulb / -6 °C wet bulb
2. entering/leaving water temperature 30/35 °C, outdoor air temperature -2 °C dry bulb / -1 °C wet bulb
3. entering/leaving water temperature 30/35 °C, outdoor air temperature -7 °C dry bulb / -8 °C wet bulb
4. entering/leaving water temperature 40/45 °C, outdoor air temperature 7 °C dry bulb / 6 °C wet bulb
5. entering/leaving water temperature 47/55 °C, outdoor air temperature 7 °C dry bulb / 6 °C wet bulb

### Cooling

SIZE		2.1	3.1	4.1	5.1	6.1 / 6.1T	7.1 / 7.1T	8.1 / 8.1T
<b>Air 35°C - Water 18 °C</b>								
Nominal cooling capacity	6 kW	4,50	6,50	8,30	9,90	12,0	13,5	14,2
Total power input	6 kW	0,82	1,35	1,64	2,18	3,04	3,74	3,94
EER	6 -	5,50	4,80	5,05	4,55	3,95	3,61	3,61
Water flow rate	6 l/s	0,22	0,31	0,40	0,47	0,57	0,65	0,68
Nominal available pressure	6 kPa	85	84	80	71	60	54	47
<b>Air 35°C - Water 7 °C</b>								
Nominal cooling capacity	7 kW	4,70	7,00	7,45	8,20	11,5	12,4	14,0
Total power input	7 kW	1,36	2,33	2,22	2,52	4,18	4,96	5,60
EER	7 -	3,45	3,00	3,35	3,25	2,75	2,50	2,50
Water flow rate	7 l/s	0,22	0,33	0,36	0,39	0,55	0,59	0,67
Nominal available pressure	7 kPa	85	83	82	80	63	56	48

Data according to EN 14511:2018.

6. entering/leaving water temperature 23/18 °C, outdoor air temperature -35 °C dry bulb / -27 °C wet bulb
7. entering/leaving water temperature 12/7 °C, outdoor air temperature -35 °C dry bulb / -27 °C wet bulb

## EDGE F - WiSAN-PME 1 S - performance

### Heating

SIZE		2.1	3.1	4.1	5.1	6.1 / 6.1T	7.1 / 7.1T	8.1 / 8.1T
<b>Air 7°C - Water 35°C</b>								
Rated heating capacity	1 kW	4,50	6,20	8,40	10,0	12,0	14,0	15,0
Total power input	1 kW	0,87	1,27	1,68	2,13	2,50	3,11	3,41
COP	1 -	5,15	4,90	5,00	4,70	4,80	4,50	4,40
Water flow rate	1 l/s	0,21	0,30	0,40	0,48	0,57	0,67	0,71
Nominal available pressure	1 kPa	89	87	80	71	63	54	49
<b>Air 2°C - Water 35°C</b>								
Rated heating capacity	2 kW	4,40	5,60	7,10	8,20	9,10	10,1	12,8
Total power input	2 kW	1,07	1,44	1,84	2,25	2,39	2,81	4,00
COP	2 -	4,10	3,90	3,85	3,65	3,80	3,60	3,20
Water flow rate	2 l/s	0,21	0,27	0,34	0,39	0,43	0,48	0,61
Nominal available pressure	2 kPa	89	88	85	80	81	75	60
<b>Air -7°C - Water 35°C</b>								
Rated heating capacity	3 kW	4,50	5,90	7,00	8,00	10,0	11,5	12,7
Total power input	3 kW	1,45	2,00	2,33	2,81	3,57	4,00	4,26
COP	3 -	3,10	2,95	3,00	2,85	2,80	2,70	2,50
Water flow rate	3 l/s	0,21	0,28	0,33	0,38	0,48	0,52	0,55
Nominal available pressure	3 kPa	89	88	85	80	75	68	66
<b>Air 7°C - Water 45°C</b>								
Rated heating capacity	4 kW	4,50	6,40	8,20	10,0	12,0	14,0	15,0
Total power input	4 kW	1,11	1,68	2,13	2,74	3,24	4,00	4,48
COP	4 -	4,05	3,80	3,85	3,65	3,70	3,50	3,35
Water flow rate	4 l/s	0,21	0,30	0,39	0,48	0,57	0,67	0,71
Nominal available pressure	4 kPa	89	87	80	71	63	54	49
<b>Air 7°C - Water 55°C</b>								
Rated heating capacity	5 kW	4,60	6,20	7,80	9,50	12,0	14,0	15,0
Total power input	5 kW	1,44	2,00	2,44	3,11	3,87	4,67	5,26
COP	5 -	3,20	3,10	3,20	3,05	3,10	3,00	2,85
Water flow rate	5 l/s	0,14	0,18	0,23	0,28	0,36	0,42	0,45
Nominal available pressure	5 kPa	90	89	86	85	87	81	78

Data according to EN 14511:2022.

1. entering/leaving water temperature 30/35 °C, outdoor air temperature -7 °C dry bulb / -6 °C wet bulb
2. entering/leaving water temperature 30/35 °C, outdoor air temperature -2 °C dry bulb / -1 °C wet bulb
3. entering/leaving water temperature 30/35 °C, outdoor air temperature -7 °C dry bulb / -8 °C wet bulb
4. entering/leaving water temperature 40/45 °C, outdoor air temperature 7 °C dry bulb / 6 °C wet bulb
5. entering/leaving water temperature 47/55 °C, outdoor air temperature 7 °C dry bulb / 6 °C wet bulb

### Cooling

SIZE		2.1	3.1	4.1	5.1	6.1 / 6.1T	7.1 / 7.1T	8.1 / 8.1T
<b>Air 35 °C - Water 18 °C</b>								
Nominal cooling capacity	1 kW	4,50	6,50	8,30	10,0	12,0	14,0	16,0
Total power input	1 kW	0,82	1,27	1,61	2,11	2,67	3,33	4,10
EER	1 -	5,50	5,10	5,15	4,75	4,50	4,20	3,90
Water flow rate	1 l/s	0,21	0,31	0,40	0,48	0,57	0,67	0,76
Nominal available pressure	1 kPa	89	87	80	71	63	54	45
<b>Air 35 °C - Water 7 °C</b>								
Nominal cooling capacity	2 kW	4,70	6,80	7,50	8,90	11,5	12,7	14,0
Total power input	2 kW	1,29	2,19	2,17	2,74	3,77	4,38	5,09
EER	2 -	3,65	3,10	3,45	3,25	3,05	2,90	2,75
Water flow rate	2 l/s	0,22	0,32	0,36	0,42	0,55	0,60	0,67
Nominal available pressure	2 kPa	89	86	83	81	66	60	54

Data according to EN 14511:2022

1. entering/leaving water temperature 23/18 °C, outdoor air temperature -35 °C dry bulb / -27 °C wet bulb
2. entering/leaving water temperature 12/7 °C, outdoor air temperature -35 °C dry bulb / -27 °C wet bulb

# General technical data

## Condensing boiler general data

### Indoor unit (EASYBOX + HYFE24 - HYFE34 accessory)

MODEL				FE 24.4	FE 34.4
<b>Heating Performance</b>					
Nominal heating capacity (Qn)	-	Max	[kW]	24,5	34,8
		Min	[kW]	4,8	5,0
Heating capacity (Pn)	60/80°C	Max	[kW]	<b>24,0</b>	<b>34,0</b>
		Min	[kW]	4,7	4,9
	30/50°C	Max	[kW]	26,0	37,0
		Min	[kW]	5,2	5,4
Efficiency	60/80°C	Max	%	97,8	97,7
		Min	%	97,6	97,2
	30/50°C	Max	%	106,1	106,2
		Min	%	107,3	107,1
30% di Pn	-	%	109,7	109,7	
Heated water content	-	-	[l]	3,4	4,3
Operating pressure	PMS	Max	[bar]	3	3
	-	Min	[bar]	0,8	0,8
Expansion tank	Volume	-	[l]	8	10
	Pre-charging	-	[bar]	0,8	0,8
<b>DHW performance</b>					
Nominal heating capacity (Qnw)	-	Max	[kW]	28,5	34,8
		Min	[kW]	4,7	5,0
Heating capacity	-	Max	[kW]	28,0	34,0
		Min	[kW]	4,7	4,8
DHW flowrate	ΔT=25°C	-	[l/min]	16,1	19,5
	ΔT=30°C	-	[l/min]	13,4	16,2
	ΔT=45 K	-	[l/min]	8,9	10,8
	ΔT=40 K	-	[l/min]	10,0	12,1
DHW production in continuous operation	ΔT=35 K	-	[l/min]	11,5	13,9
	ΔT=30 K	-	[l/min]	13,4	16,2
	ΔT=25 K	-	[l/min]	16,1	19,5
Water temperature		Max	[°C]	65	65
		Min	[°C]	40	40
Operating pressure	PMW	Max	[bar]	9	9
	-	Min	[bar]	0,3	0,3
<b>ErP data</b>					
Seasonal eff. Average climate	Heating	ηs	%	94	94
		Energy class	-	A	A
	ACS	ηwh	%	85	85
		Energy class	-	A	A
Sound power level	Withdrawal profile		-	XL	XXL
	Lwa		[dB(A)]	49	52
<b>Thermal losses and smoke exhaust</b>					
Chimney loss	"burner ON 80/60°C"	Pmax	%	2,00	2,10
		Pmin	%	2,00	2,90
	"burner ON 50/30°C"	Pmax	%	1,40	1,40
		Pmin	%	1,00	1,00
Smoke temperature	80/60°C	Pmax	[°C]	66	67
		Pmin	[°C]	64	62
	50/30°C	Pmax	[°C]	52	53
		Pmin	[°C]	44	45
Smoke flowrate	-	Pmax	[g/s]	11,2	16
	-	Pmin	[g/s]	2,3	2,4
Nitrogen oxide (NOx) emissions	Class		-	6	6
			[mg/kWh]	35	33

## Electrical data

### Standard EASYBOX indoor unit

#### Power supply 220-240V ~ 50Hz

F.L.A. - Current consumption of the unit	A	0,51
F.L.I. - Power input of the unit	kW	0,1

Power supply 220-240v ~ 50Hz ±10%.

The units comply with the requirements of European standard IEC EN 60335.

### Indoor unit configured with: single-phase integration electric heaters

#### Power supply 220-240V ~ 50Hz

		2 kW	4 kW
F.L.A. - Current consumption of the unit with single-phase electric heater	A	10,1	20,2
F.L.I. - Power input of the unit with single-phase electric heater	kW	2	4

Power supply 220-240V ~ 50Hz +/-10.

The units comply with the requirements of European standard IEC EN 60335.

Data to be added to standard unit values

### Indoor unit configured with three-phase integration electric heaters

#### Power supply 380-415V ~ 50Hz

		6 kW	9 kW
F.L.A. - Current consumption of the unit with single-phase electric heater	A	10,1	15,2
F.L.I. - Power input of the unit with single-phase electric heater	kW	6	9

Power supply 380-415V ~ 50Hz

The units comply with the requirements of European standards EN 60335-1 and EN 60335-2-40

Data to be added to standard unit values

### Water booster kit: both high temperature - 2 areas: high + low temperature (mixed)

#### Power supply 220-240V ~ 50Hz

F.L.A. - Absorbed current at maximum admissible conditions	A	1,16
F.L.I. - Power input at full load (at maximum conditions allowed)	W	120

Power supply 220-240v ~ 50Hz ±10%.

The units comply with the requirements of European standards EN 60335-1 and EN 60335-2-40

Data to be added to standard unit values

### Single area booster kit

#### Power supply 220-240V ~ 50Hz

F.L.A. - Absorbed current at maximum admissible conditions	A	0,3
F.L.I. - Power input at full load (at maximum conditions allowed)	W	60

Power supply 220-240v ~ 50Hz ±10%.

The units comply with the requirements of European standards EN 60335-1 and EN 60335-2-40

Data to be added to standard unit values

### Domestic water recirculation pump kit - Additional domestic hot water storage

#### Power supply 220-240V ~ 50Hz

F.L.A. - Absorbed current at maximum admissible conditions	A	0,4
F.L.I. - Power input at full load (at maximum conditions allowed)	W	75

Power supply 220-240v ~ 50Hz ±10%.

The units comply with the requirements of European standards EN 60335-1 and EN 60335-2-40

Data to be added to standard unit values

### Solar option kit - Glycol water exchanger kit

#### Power supply 220-240V ~ 50Hz

F.L.A. - Absorbed current at maximum admissible conditions	A	0,4
F.L.I. - Power input at full load (at maximum conditions allowed)	W	75

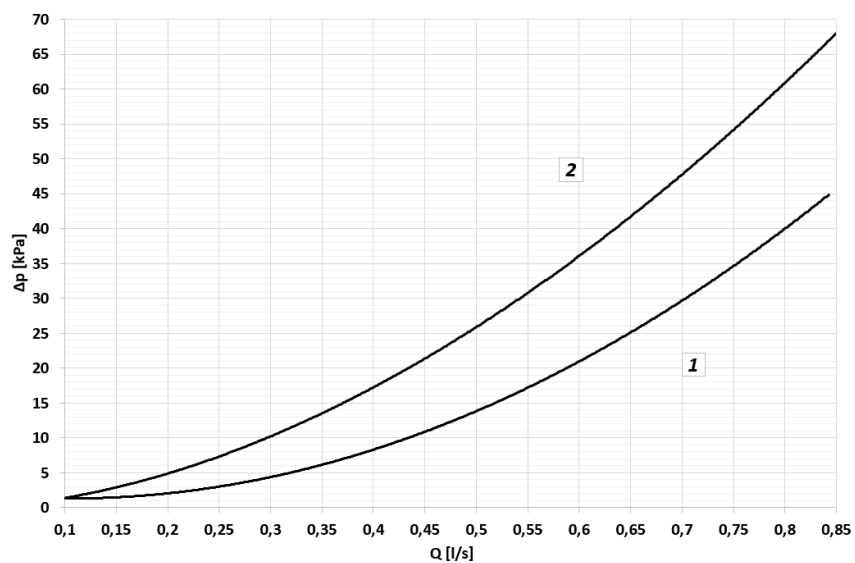
Power supply 220-240v ~ 50Hz ±10%.

The units comply with the requirements of European standards EN 60335-1 and EN 60335-2-40

Data to be added to standard unit values

# General technical data

## Indoor unit pressure drops

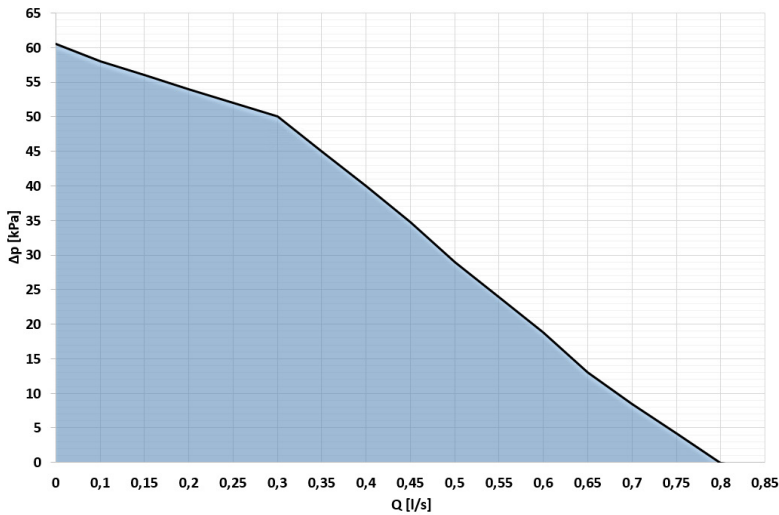


ΔP [kPa] = Pressure drops  
Q [l/s] = Water flow-rate

1. STANDARD indoor unit pressure drops
  2. Pressure drops with SICGX option
- Note: EH246X-EH09X have negligible drops

Note: it is advisable to install a hydraulic separator

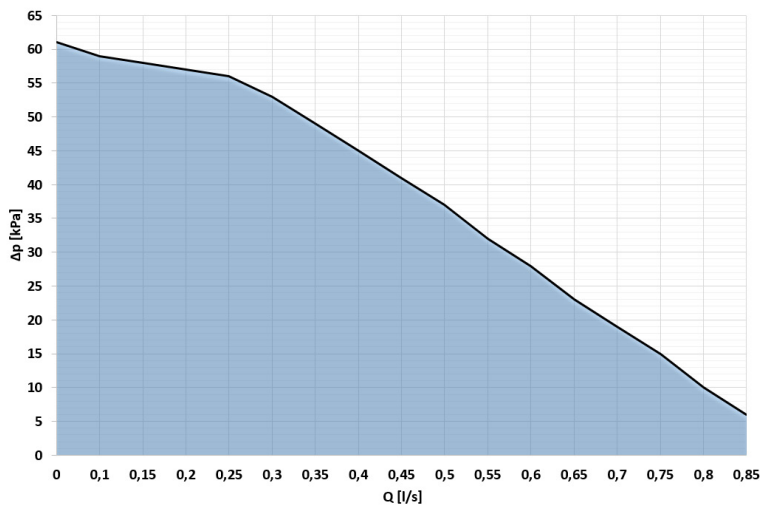
## Available pressure - KIR2HX - KIR2HLX



ΔP [kPa] = Available pressure  
Q [l/h] = Water flow-rate

Circulator operating range

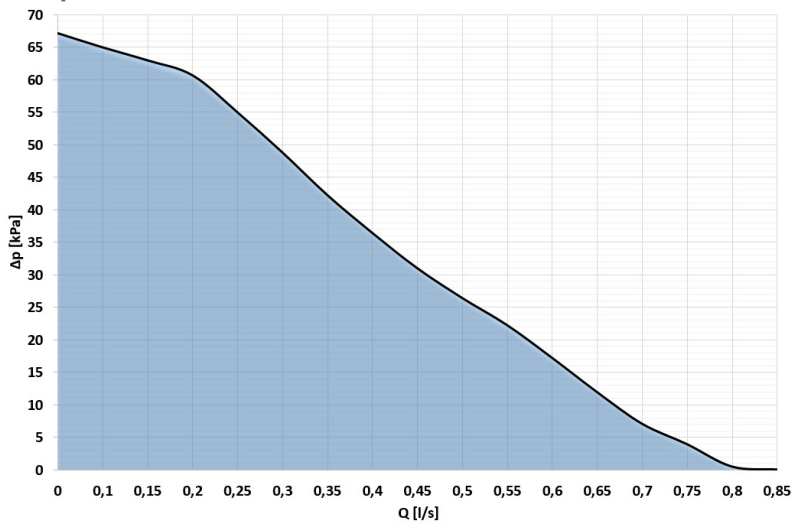
## Available pressure - KCSIX



ΔP [kPa] = Available pressure  
Q [l/h] = Water flow-rate

Circulator operating range

## Available pressure - SICGX



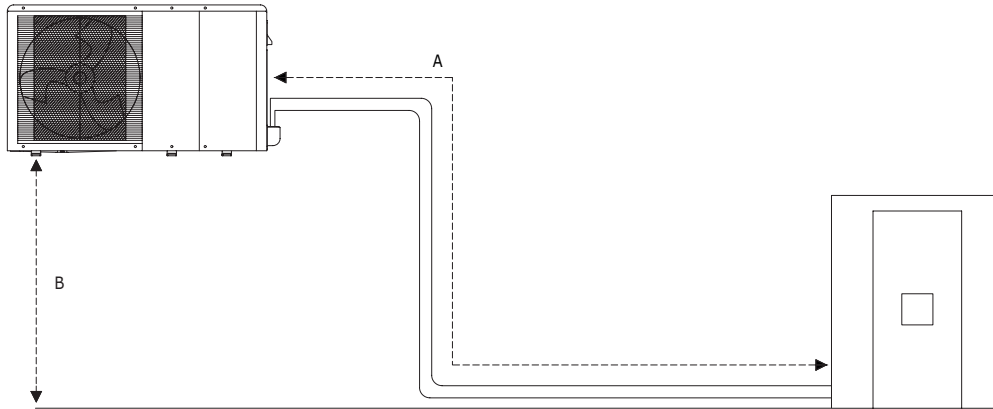
ΔP [kPa] = Available pressure  
Q [l/h] = Water flow-rate

Circulator operating range

# Hydraulic connections

## Hydraulic line sizing

Equivalent length of the lines (metres) = actual length (metres) + quantity of bends x K  
 Use the K value from the following table



SIZE		2.1	3.1	4.1	5.1	6.1	7.1	8.1
<b>K values</b>								
standard 90° elbow bend	m	0,6	0,6	0,6	0,6	0,9	0,9	0,9
45° bend (standard)	m	0,3	0,3	0,3	0,3	0,3	0,3	0,3

### Length and height difference of hydraulic lines

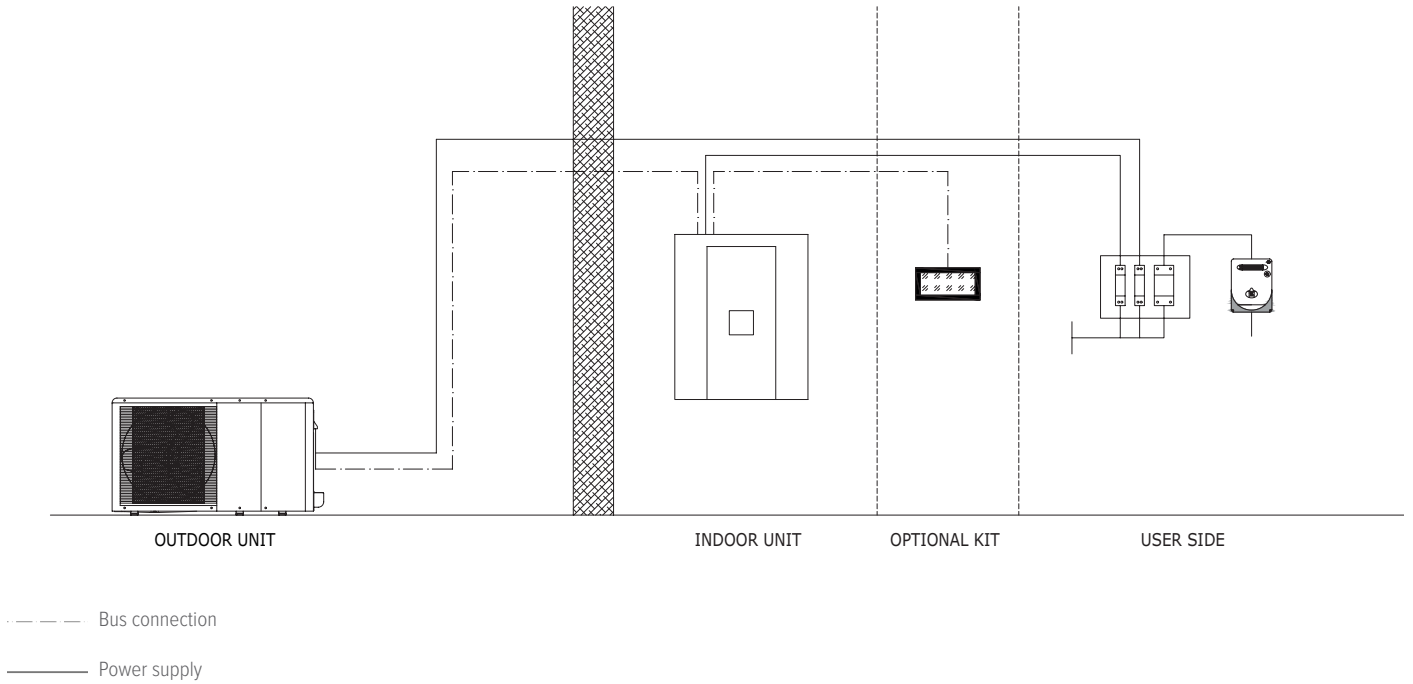
A- Minimum and maximum connection distance between indoor and outdoor units	m	2 - 25	2 - 25	2 - 25	2 - 25	2 - 20	2 - 15	2 - 15
B- Maximum height difference between indoor and outdoor units	m	20	20	20	20	15	15	15

Note: recommended diameter the same as the connection size on the outdoor unit

Note: for height differences of more than 12 metres, adjust the pre-charge of the expansion vessel of the outdoor unit.

# Electrical connections

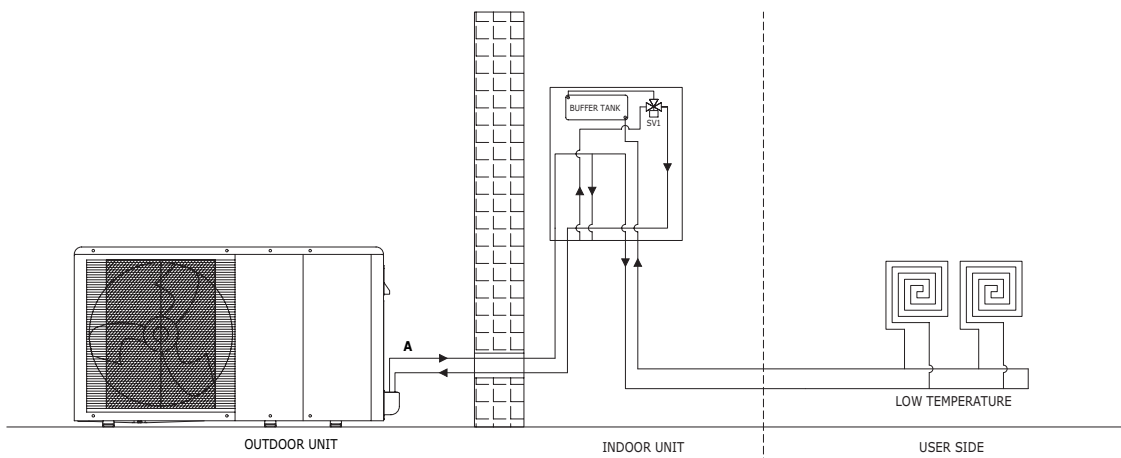
The electrical connection must be carried out in compliance with the national regulations in force. The connection must be carried out by specialised personnel who are qualified to work with live voltage.  
The EDGE + EASYBOX system can be controlled via the control panel on board the unit. The unit can be controlled using: the CONTROL4 NRG supervisory system or common electromechanical thermostats.  
Refer to the installation manual for more information on the connections.



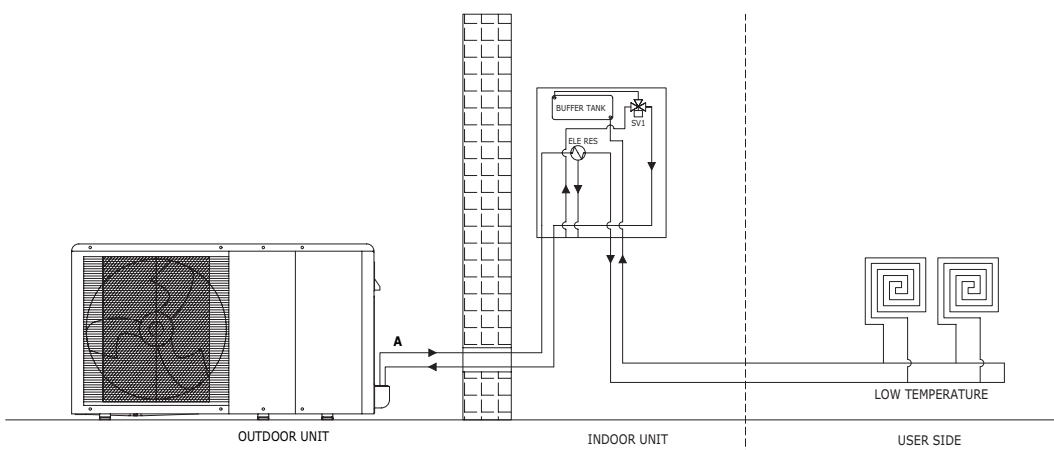


# System connections

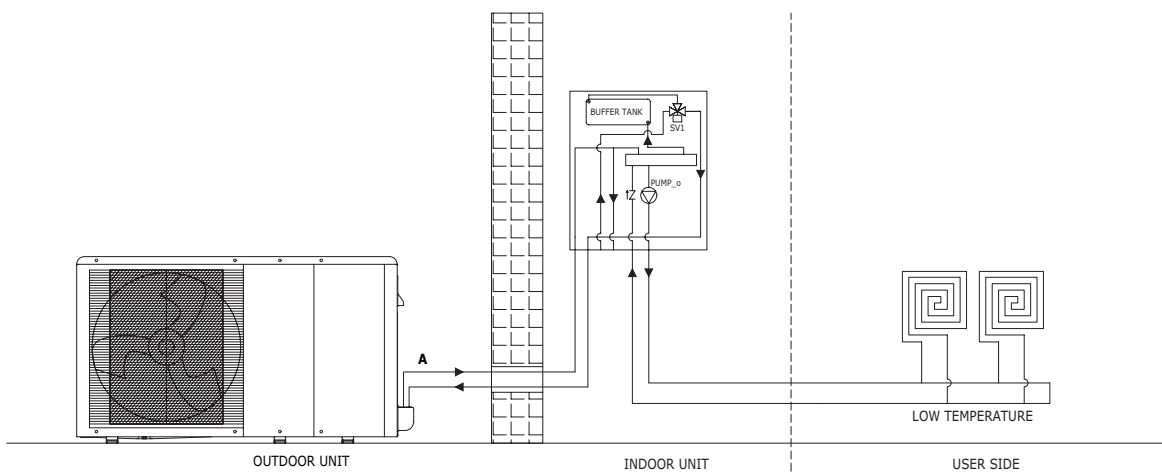
## General description of the system and possible connections



### Standard

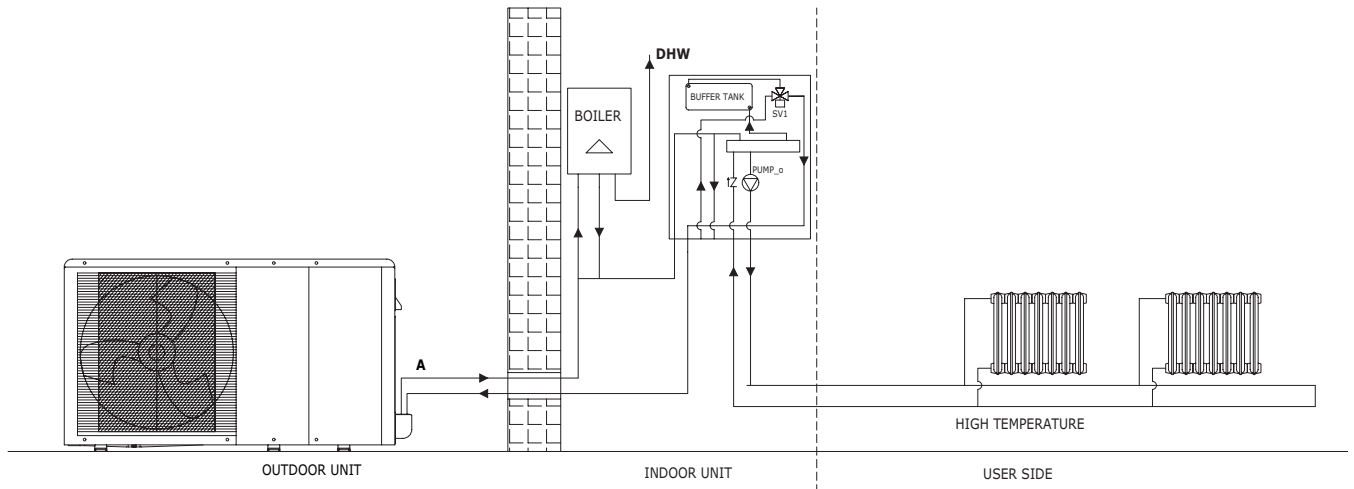


### TBH backup

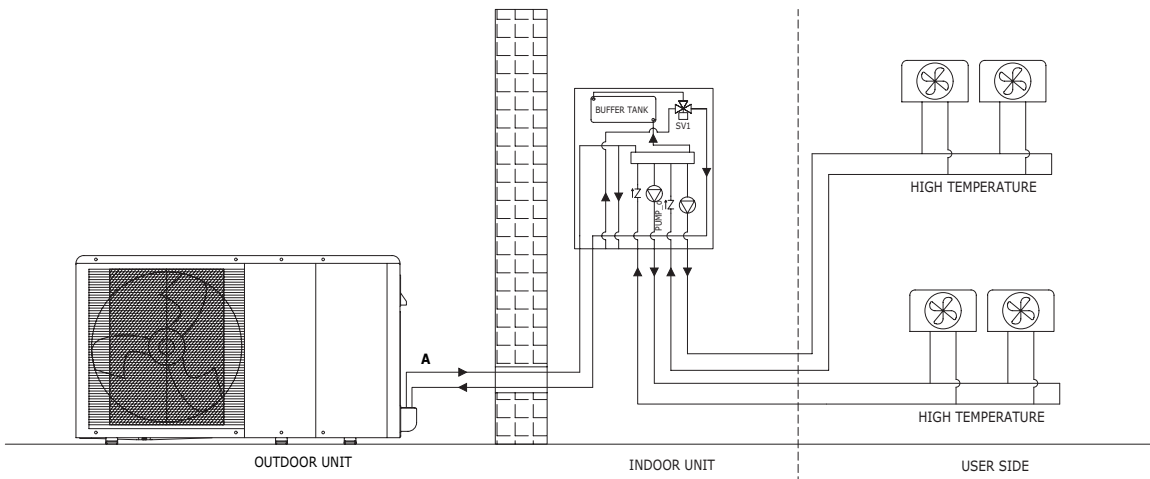


### Single-area kit

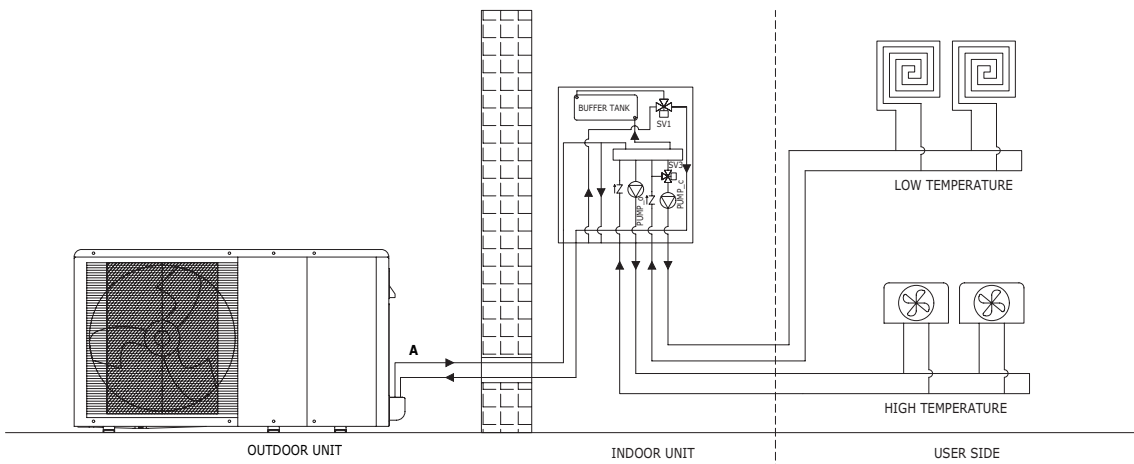
## General description of the system and possible connections



### Boiler + single-area solution



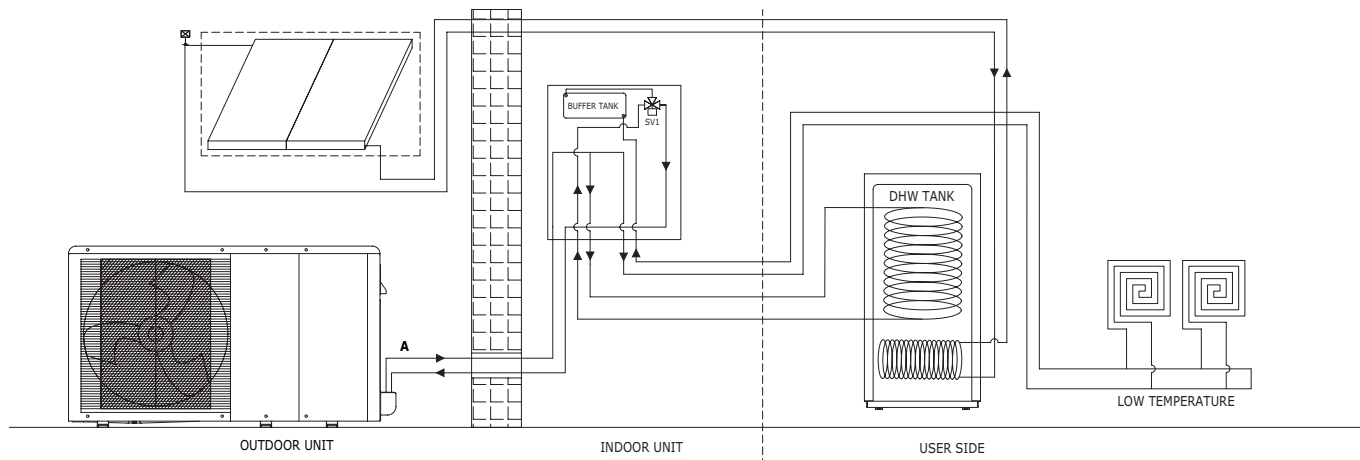
### Kit for 2 AT-AT areas



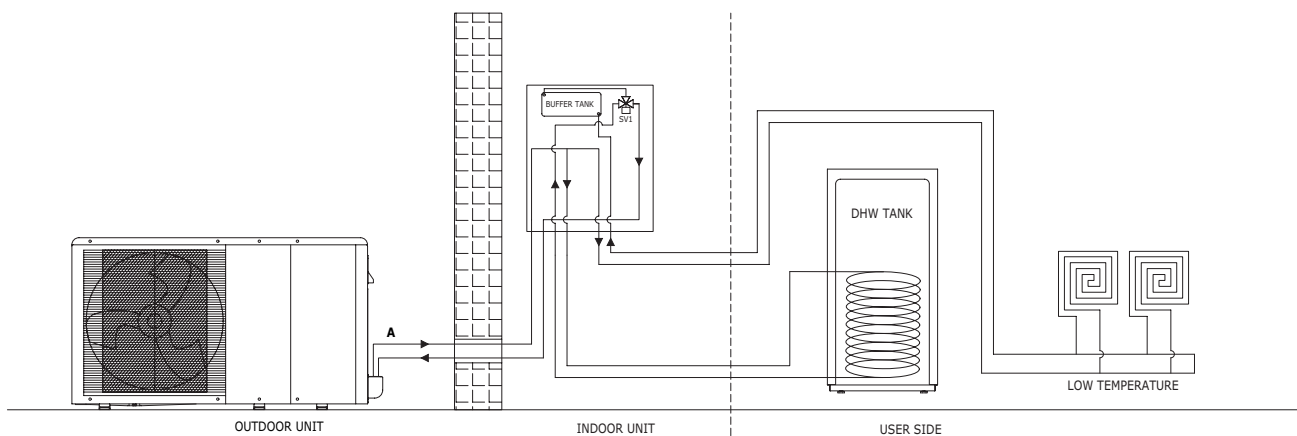
### Kit for 2 AT-BT areas (mixed)

# System connections

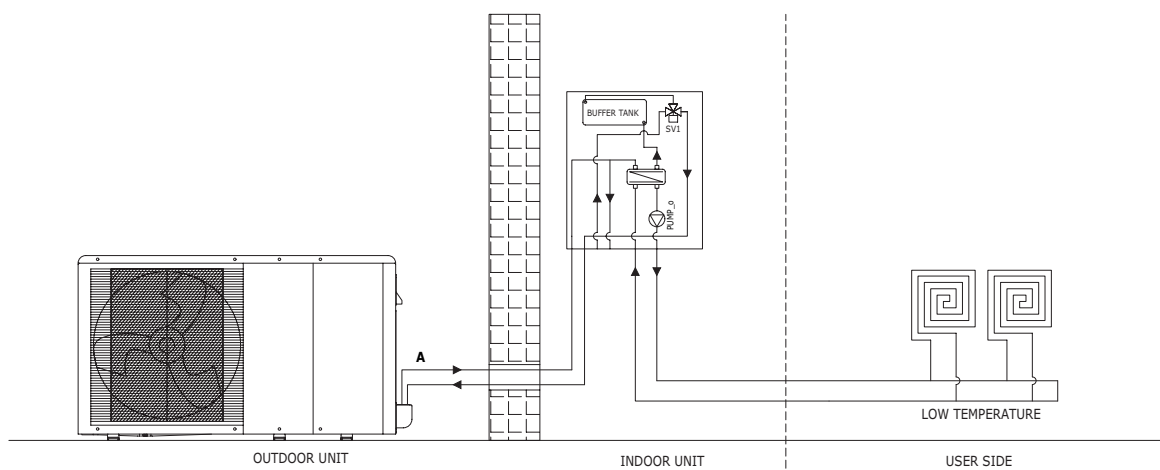
## General description of the system and possible connections



### Solar kit



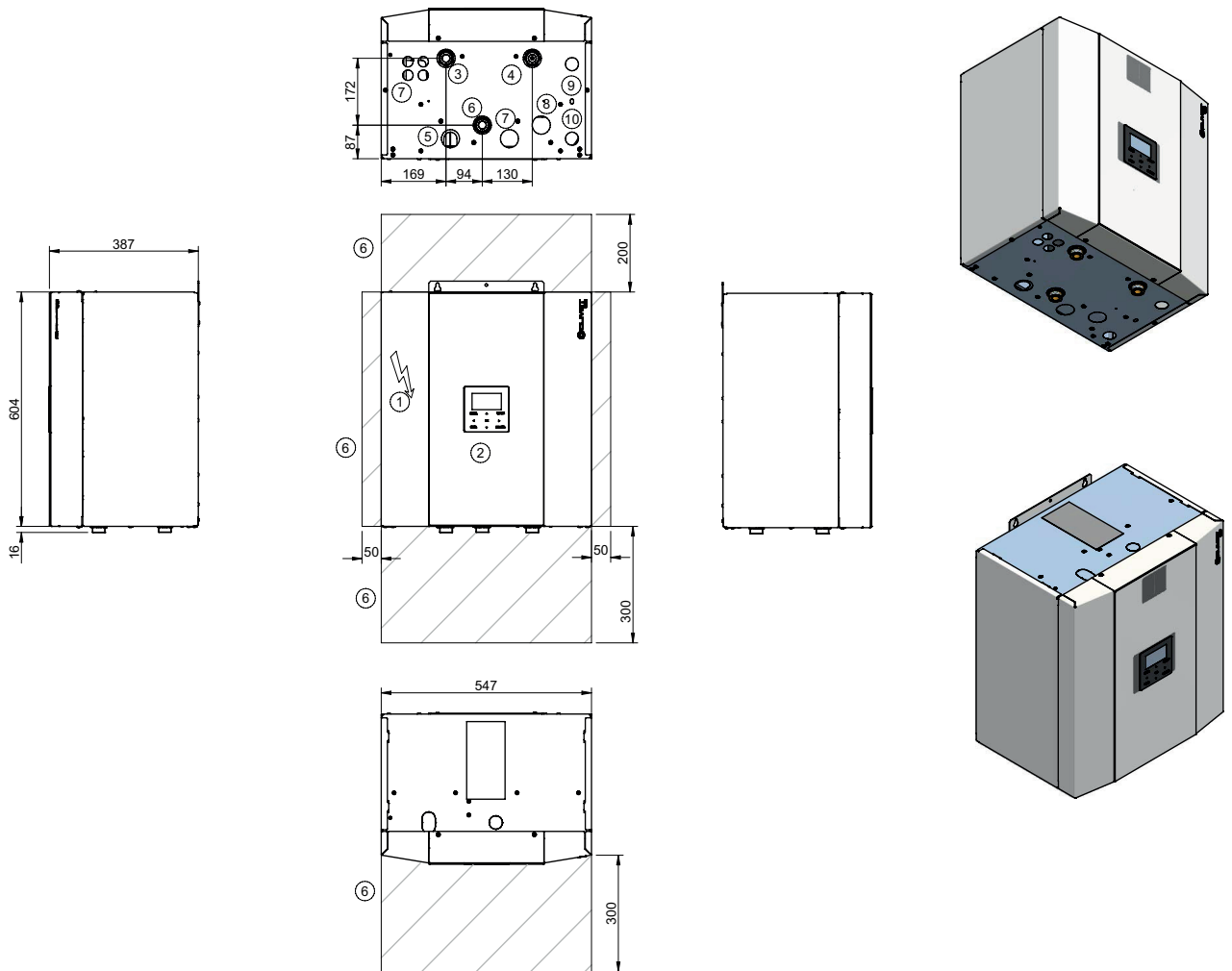
### DHW tank



### Glycol H<sub>2</sub>O kit

## EASYBOX - Indoor unit

DAATM0000\_00  
DATA/DATE 25/03/2024



1. Electrical panel
2. Control keypad
3. Supply to outdoor unit - 1"
4. Water tank DHW return - 1"
5. Area 1 system supply - 1"
6. Area 1 system return - 1"
7. Area 2 system supply - 1" (optional)
8. Area 2 system return - 1" (optional)
9. Water tank DHW supply - 1"
10. Water return from outdoor unit - 1"

### SIZES

Operating weight	kg	53
Shipping weight	kg	50

The presence of optional accessories may result in significant variation of the weights indicated.

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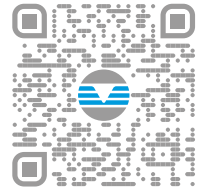
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