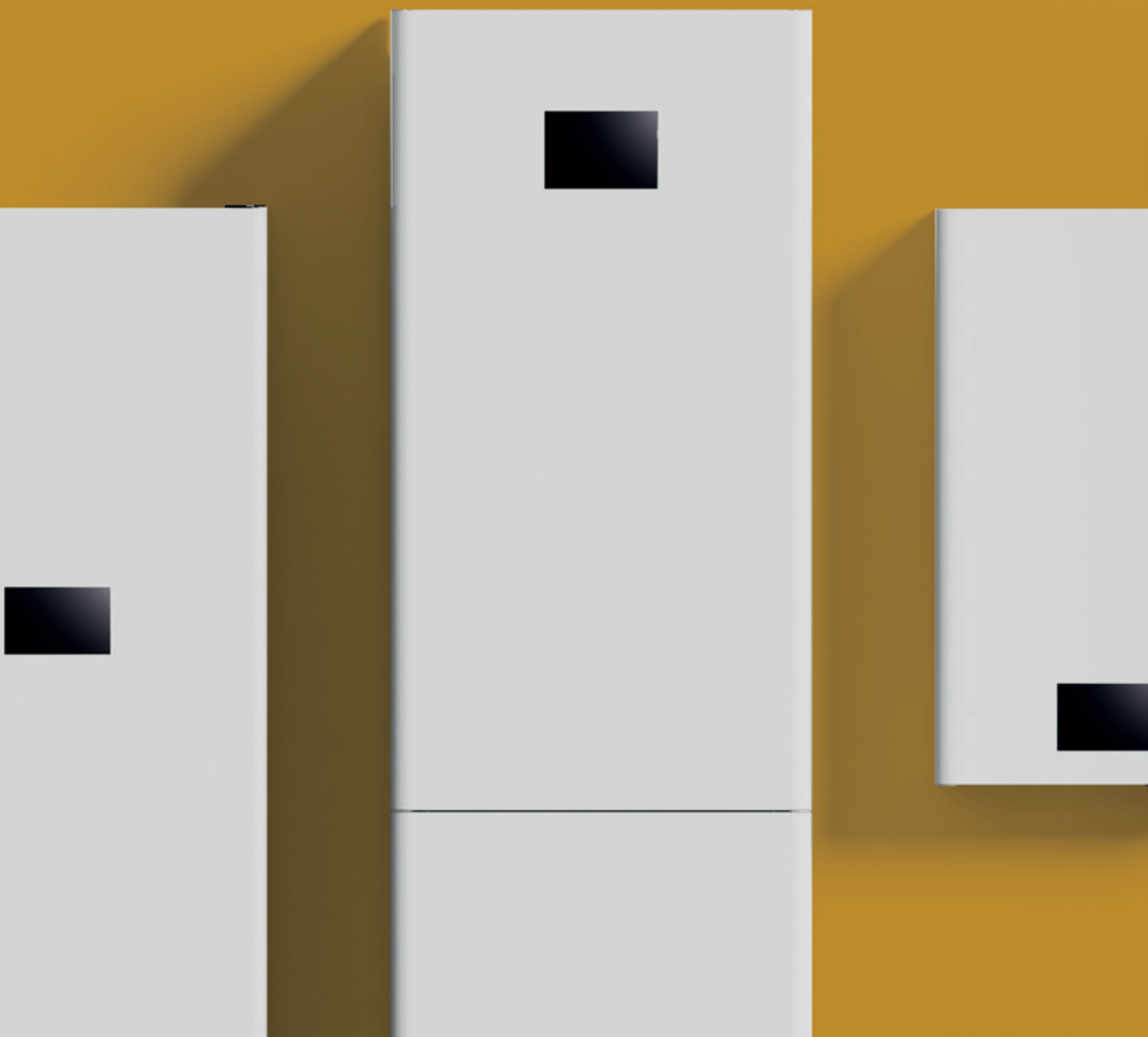




**eHPoca**  
**3in1**  
**3in1 built-in**  
**3in1 Mono**  
Heat pumps



**Taking free heat from  
nature to warm up your  
home.**



eHPoca

Heat pumps









eHPoca





3in1

Heat pumps









3in1 Mono SV

Heat pumps



eHPoca



3in1 built-in





3in1 built-in

Heat pumps









eHPoca

Heat pumps

# The versions



## 3in1 Mono

**NEW**

Ducted monobloc air/water heat pump composed of heat pump unit and 200 litre DHW module.

Standard heating element 2 kW.

Unit complete with: primary circulation pump and DHW diverter valve.

Without outdoor unit.

Suitable for:



Small and  
medium-sized  
homes



Apartments



## eHPoca

Internal hydraulic module with circulation pump and heat exchanger connected to the outdoor unit via refrigerant pipes. Flexible solution suitable for implementation of tailor-made systems.

Suitable for:



Offices



Centralised  
systems



Medium and  
large-sized  
homes







## 3in1

Tower with 200 litre domestic hot water tank with instantaneous heat exchanger connected to the outdoor unit via refrigerant pipes. Unit complete with instantaneous exchanger, 24 litre expansion vessel, domestic hot water diverter valve, auxiliary boiler connection and safety valves. Complete solution which guarantees reliability and space saving.

Suitable for:



Small and  
medium-sized  
homes



Apartments



## 3in1 built-in

Separate module unit for installation on site. Built-in cabinet with integrated 170 litre storage tank for DHW diverter, 8 litre expansion tank, safety valve, circulation pump and connected to the outdoor unit via refrigerant pipes. Ideal for apartments with installation in the perimeter wall.

Suitable for:



Small and  
medium-sized  
homes



Apartments

# 3in1 Mono



## **DC INVERTER**

Maximum comfort with the lowest consumption and quietest operation



## **REFRIGERANT R32**

Refrigerant with low environmental impact



## **WITHOUT OUTDOOR UNIT**

The outdoor unit is replaced by 2 grills



## **APP**

Remote control via App



# The heat pump without an outdoor unit

3in1 Mono is the air/water heat pump without an outdoor unit, designed for all those situations where there is no space available for housing the outdoor unit, e.g. apartments without balconies or with limited terraces.

**S****Single version**

Single heat pump module (without tank).

**SH****Version with horizontal combination**

Heat pump module plus DHW module with horizontal combination.

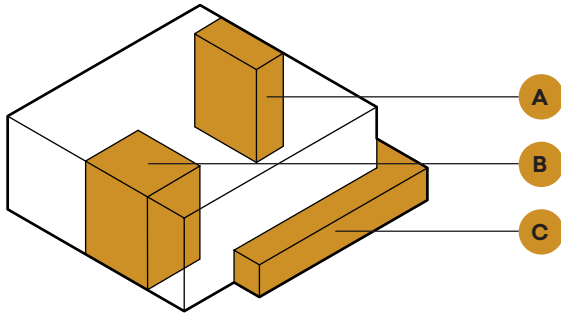
**SV****Version with vertical combination**

Heat pump module plus DHW module with vertical combination.





## 3in1 Mono installation



- A. Landing access to apartment
- B. Laundry
- C. Terrace / Balcony

3in1 Mono is the compact and complete indoor solution that includes the functionality of the outdoor unit.

All elements of the system are contained within the unit, providing a reduction in space and greater reliability as everything is installed, adjusted and tested in the factory.



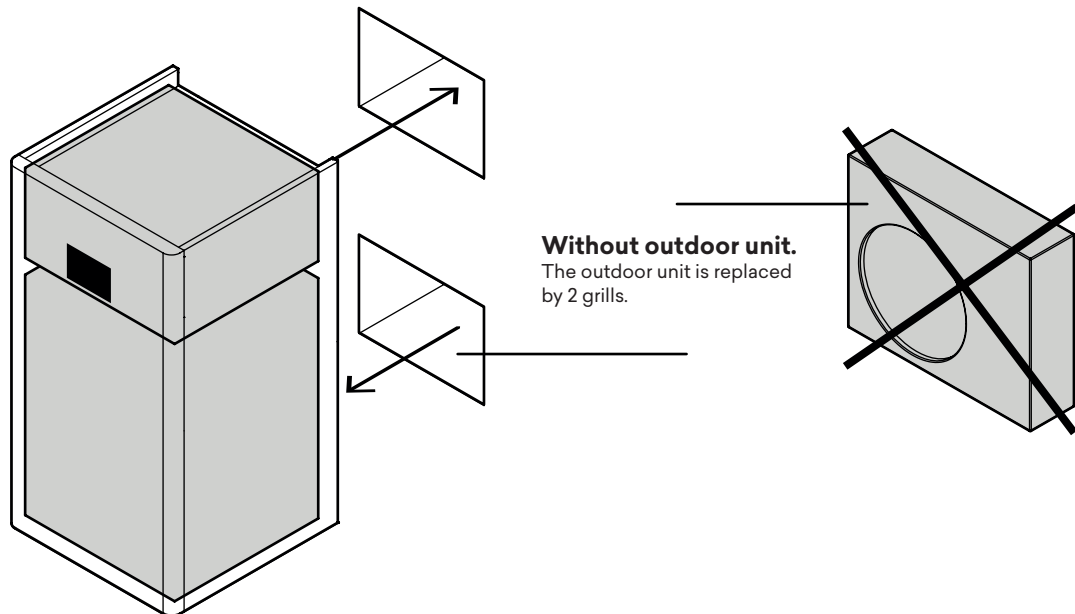
Small and  
medium-sized  
homes



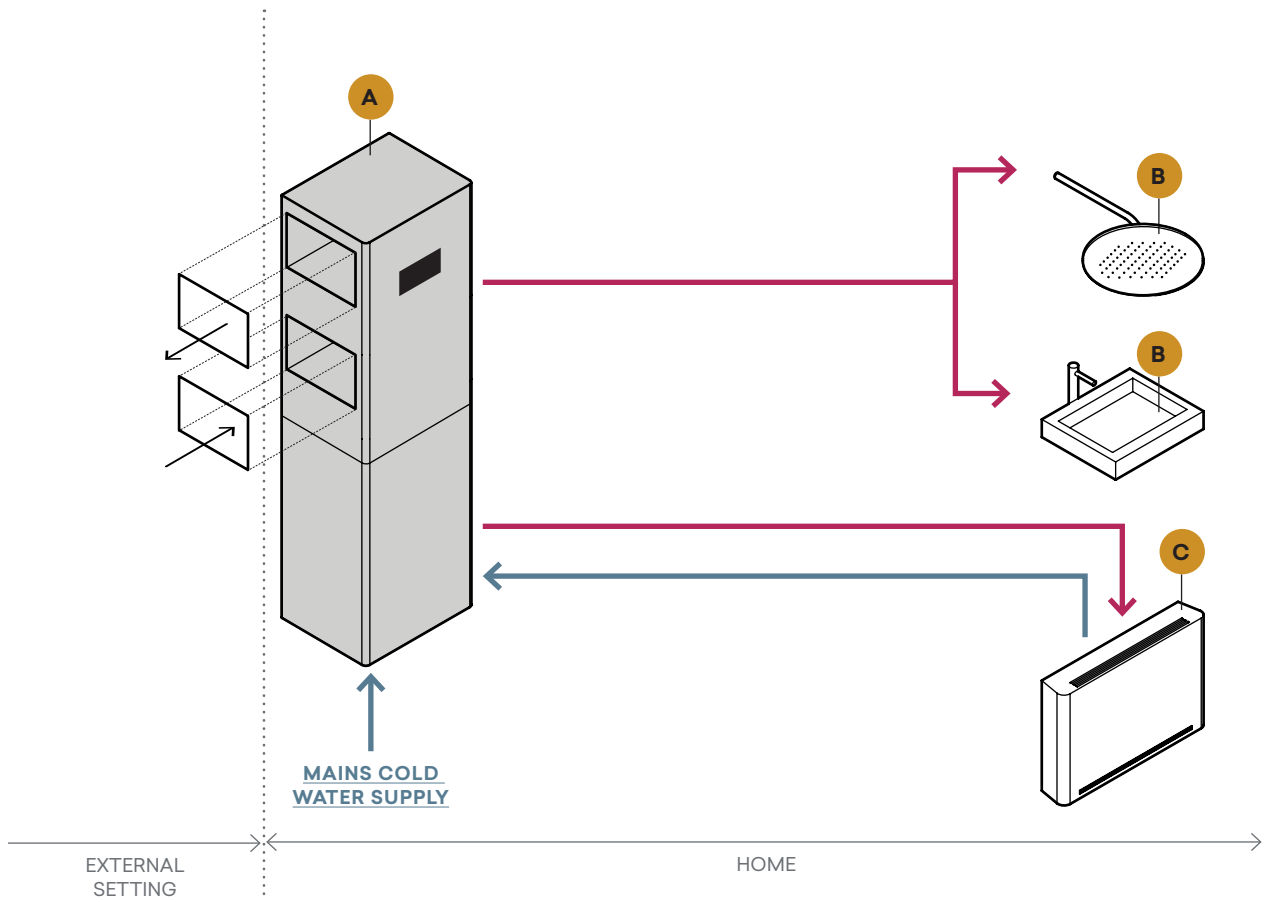
Apartments

The components of the outdoor unit are incorporated in the indoor unit and communication with the outside environment is via fittings provided in the catalogue. On the outside, only two grills are visible. On the inside, however, it remains a compact and elegant unit with the same floor plan dimensions as an appliance.

## No outdoor unit, only two grills



## 3in1 Mono system diagram

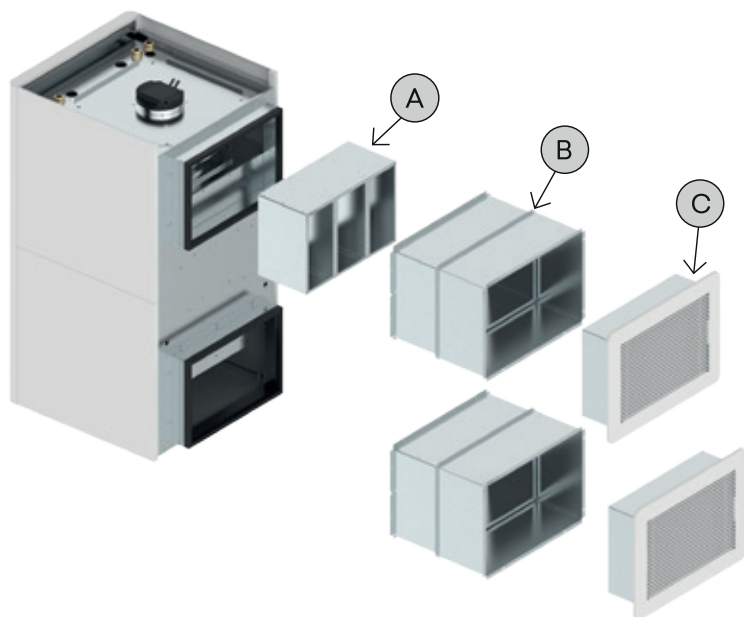


- A. 3in1 Mono indoor unit
- B. Domestic hot water supply
- C. Heating and/or cooling system

— Domestic hot water  
— Cold water

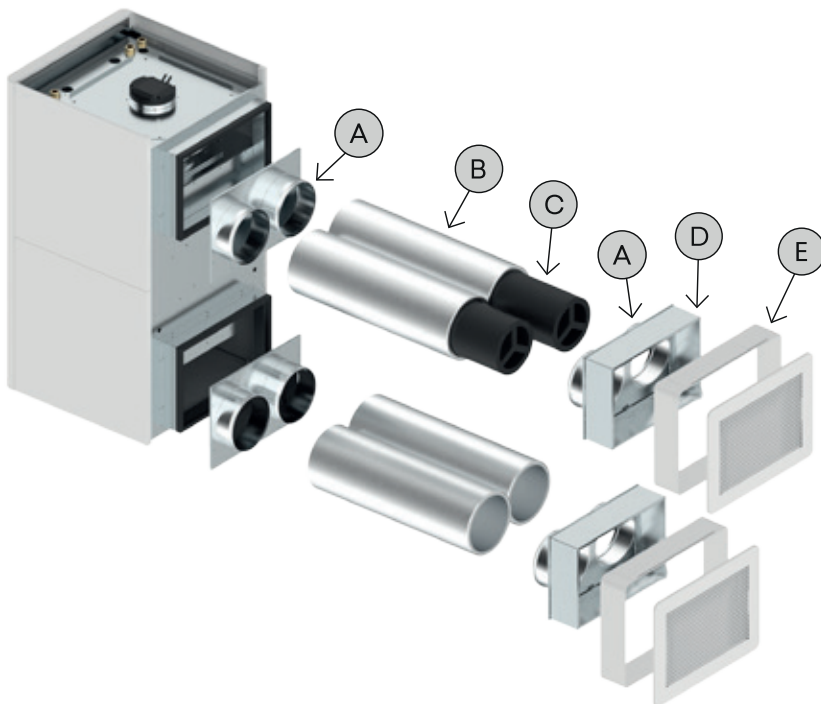
# Installation Options

## Installation with rectangular duct



- A** **APDC0012II**  
Silencer module  
440x292x199 mm
- B** **APDC0011II**  
Telescopic duct  
Length from 200 mm to 400 mm  
Unit side bxx 460x313 mm  
Outdoor side bxx 470x353 mm
- C** **APDC0014II**  
Kit no. 2 aesthetic grills  
built-in with plenum  
Built-in part 460x313x120 mm  
Grill 542x400x16 mm

## Installation with circular duct

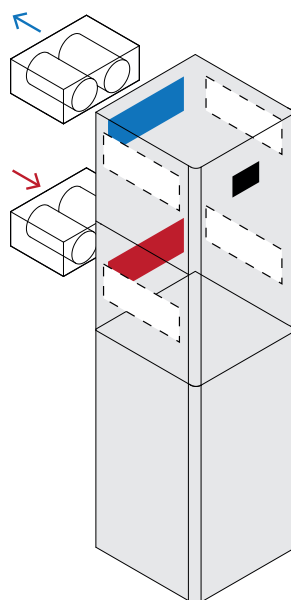


- A** **APDC0013II**  
Kit no. 4 rectangular/circular air  
intake and outlet plenum  
DN 200 mm - male connection  
rectangular dimensions  
467x320x87,5 mm
- B** **SCE200001II**  
Ducting pipe  
DN 200 mm
- C** **AHRC0038II**  
Kit n.2 silencers  
DN 200 mm  
Lunghezza 500 mm
- D** **APDC0014II**  
Kit no. 2 aesthetic grills  
built-in with plenum  
Built-in part 460x313x120 mm  
Grill 542x400x16 mm
- E** **APDC0015II**  
Kit n.2 aesthetic frames  
for installation of  
visible aesthetic grills  
542x400x109 mm





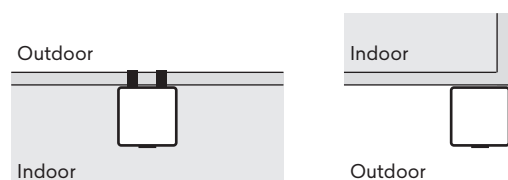
# Configuration flexibility



- Air outlet
- Air intake
- Alternative configurations

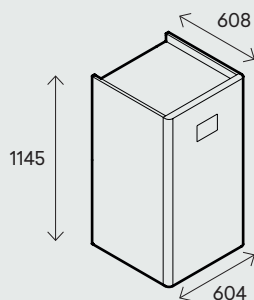
Possibility of airflow configuration on three sides during installation.

As standard, the unit is set up for air intake and supply on the back.

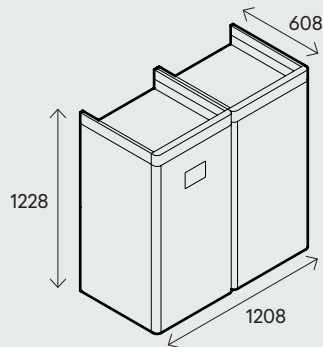


## Dimensions

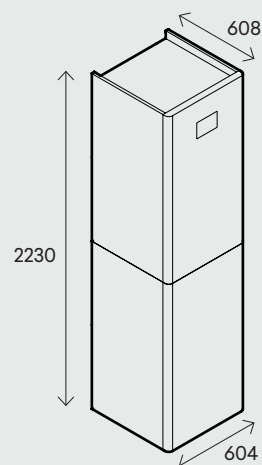
Single version



Version with horizontal combination



Version with vertical combination





3in1 Mono SH





3in1 Mono SV

# eHPoca



## **DC INVERTER**

Maximum comfort with the lowest consumption and quietest operation



## **HIGH POWER RANGE**

Power range up to 31 kW



## **APP**

Remote control via App



## **ENERGY CLASS**

Maximum A+++ energy class

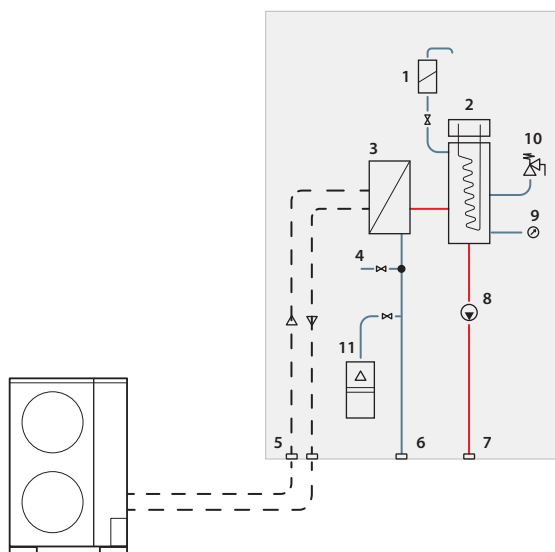




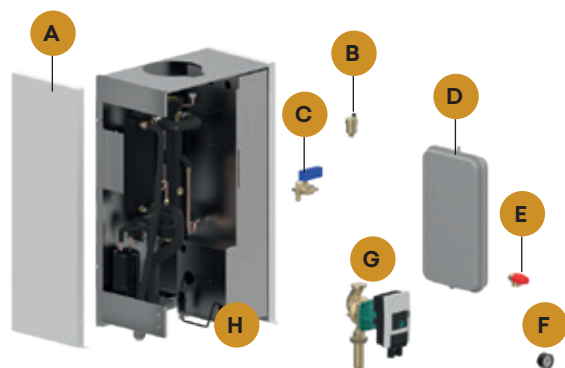
# eHPoca

## unit diagram

1. Automatic vent valve
2. Electrical heater (optional)
3. Plate heat exchanger
4. Differential pressure switch
5. Refrigeration connections
6. Return system hydraulic connection
7. Supply system hydraulic connection
8. Primary circulation pump PP1
9. Pressure gauge
10. Safety valve 3 bar
11. Expansion vessel



### Standard components



### Standard components

- A. Structure, RAL9003 cover panels and display
- B. Automatic vent valve
- C. Differential pressure switch
- D. Expansion vessel
- E. Safety valve 3 bar
- F. Pressure gauge
- G. Primary circuit circulation pump
- H. Electrical box

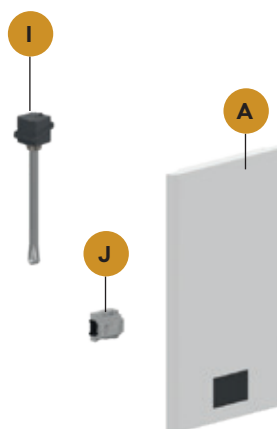
### Accessories kit (supplied installed in the unit)

- I. 6 kW heating element kit (3 steps of 2 kW). Factory setting 2 kW for single-phase heat pumps
- J. BUTLER PRO

### Accessories kit (supplied separately)

- K. ACS 3-way valve
- L. ACS preparation tank
- M. Inertial DHW tank

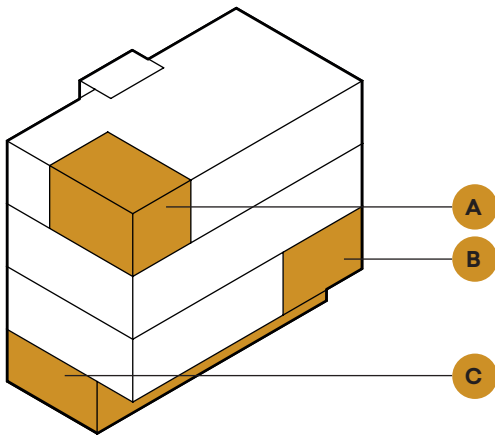
### Accessories kit (supplied installed in the unit)



### Accessories kit (supplied separately)



## eHPoca installation



B. Attic  
C. Laundry  
D. Cellar

## Example of centralised system

1. eHPoca indoor unit
2. Domestic hot water tank
3. Outdoor unit
4. Refrigerant pipes
5. Domestic hot water / heating

eHPoca is a flexible solution.

Suitable accessories are supplied based on the application. For large homes or apartment blocks, for example, the DHW requirement may be met by choosing the appropriate DHW tank capacity of between 200 and 2000 litres.



Offices

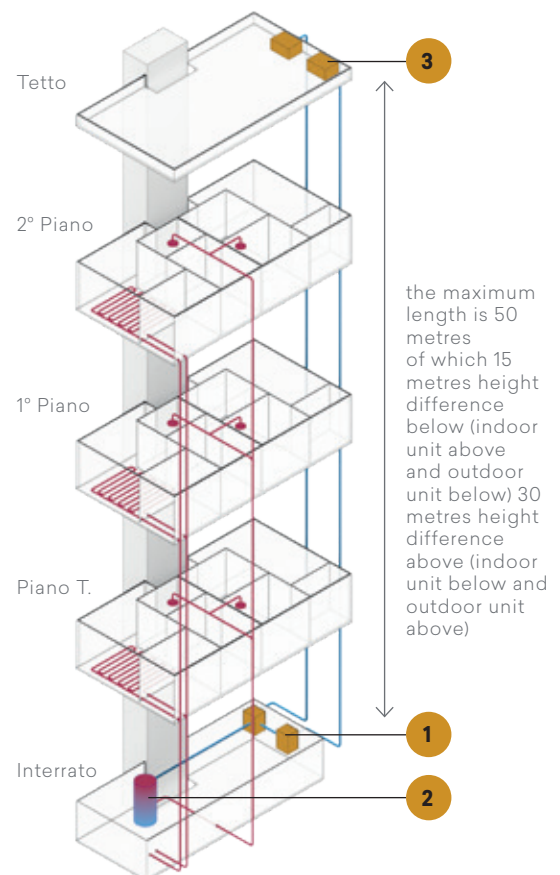


Medium and large-sized homes

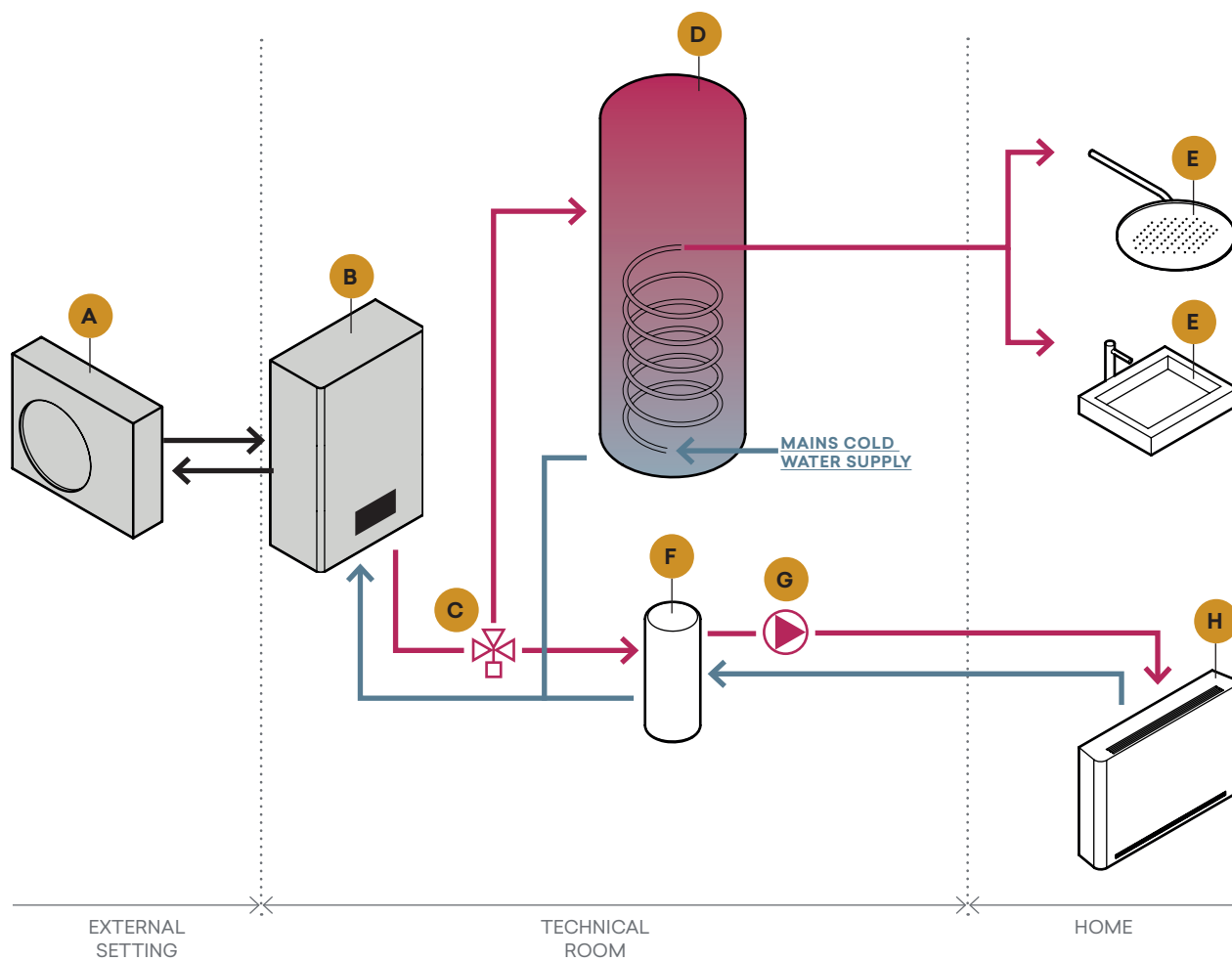


Centralised systems

eHPoca is a heat pump which can be modular and used in sequence to meet high power requirements. The indoor unit must be installed indoors in a suitable room to house all the system components.



## eHPoca system diagram



- A. Outdoor unit
- B. eHPoca indoor unit
- C. 3-way valve
- D. Thermal storage tank for instant preparation of DHW
- E. Domestic hot water supply

- F. Hydraulic separator
- G. Secondary circuit pump
- H. Heating and cooling system

— Domestic hot water  
— Cold water

# 3in1



## **DC INVERTER**

Maximum comfort with the lowest consumption and quietest operation



## **HIGH OPERATING LIMITS**

DHW production even with 40 °C outside air



## **REDUCED SPACE REQUIREMENTS**

All components are integrated in the internal module



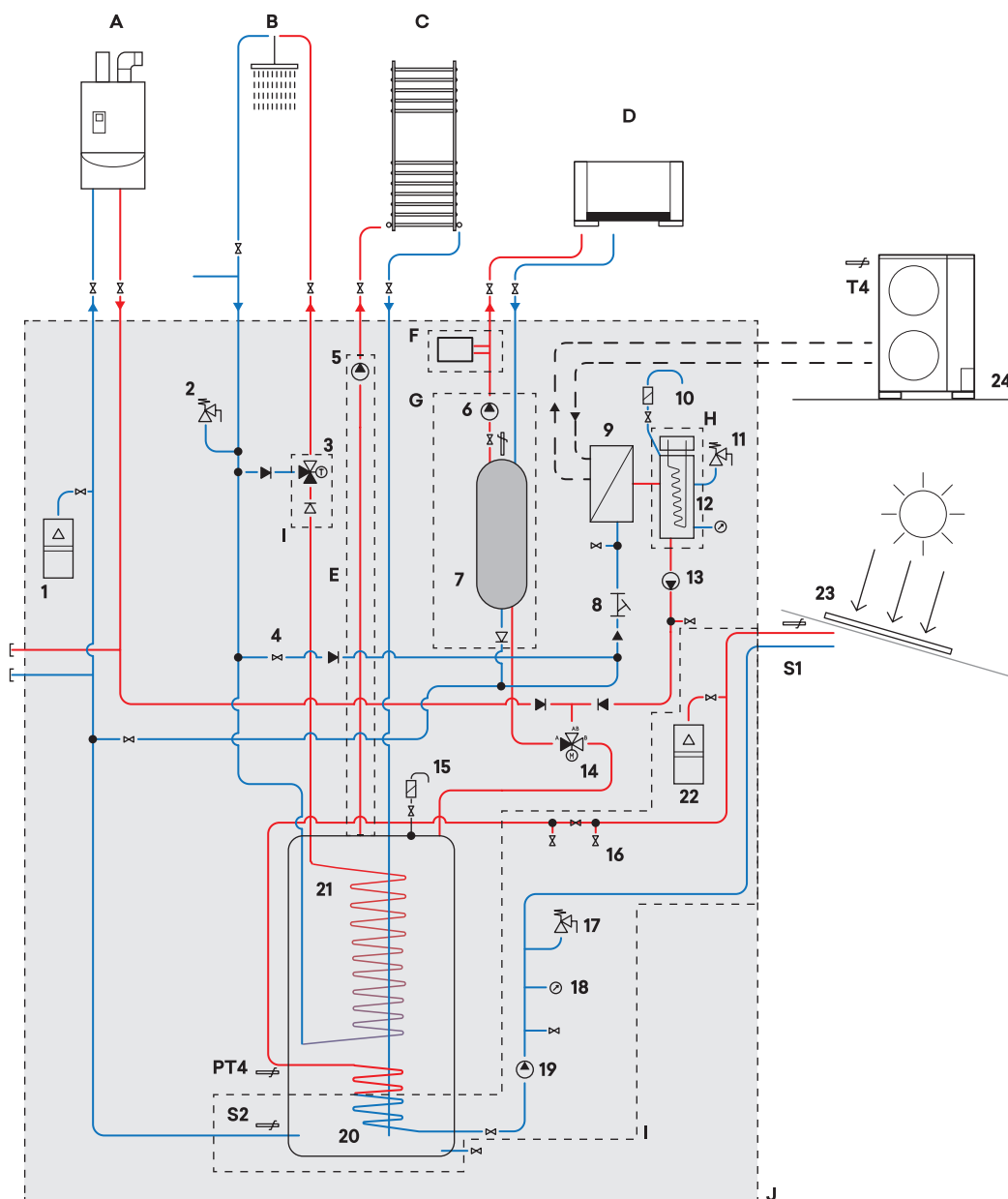
## **ENERGY CLASS**

Maximum A+++ energy class



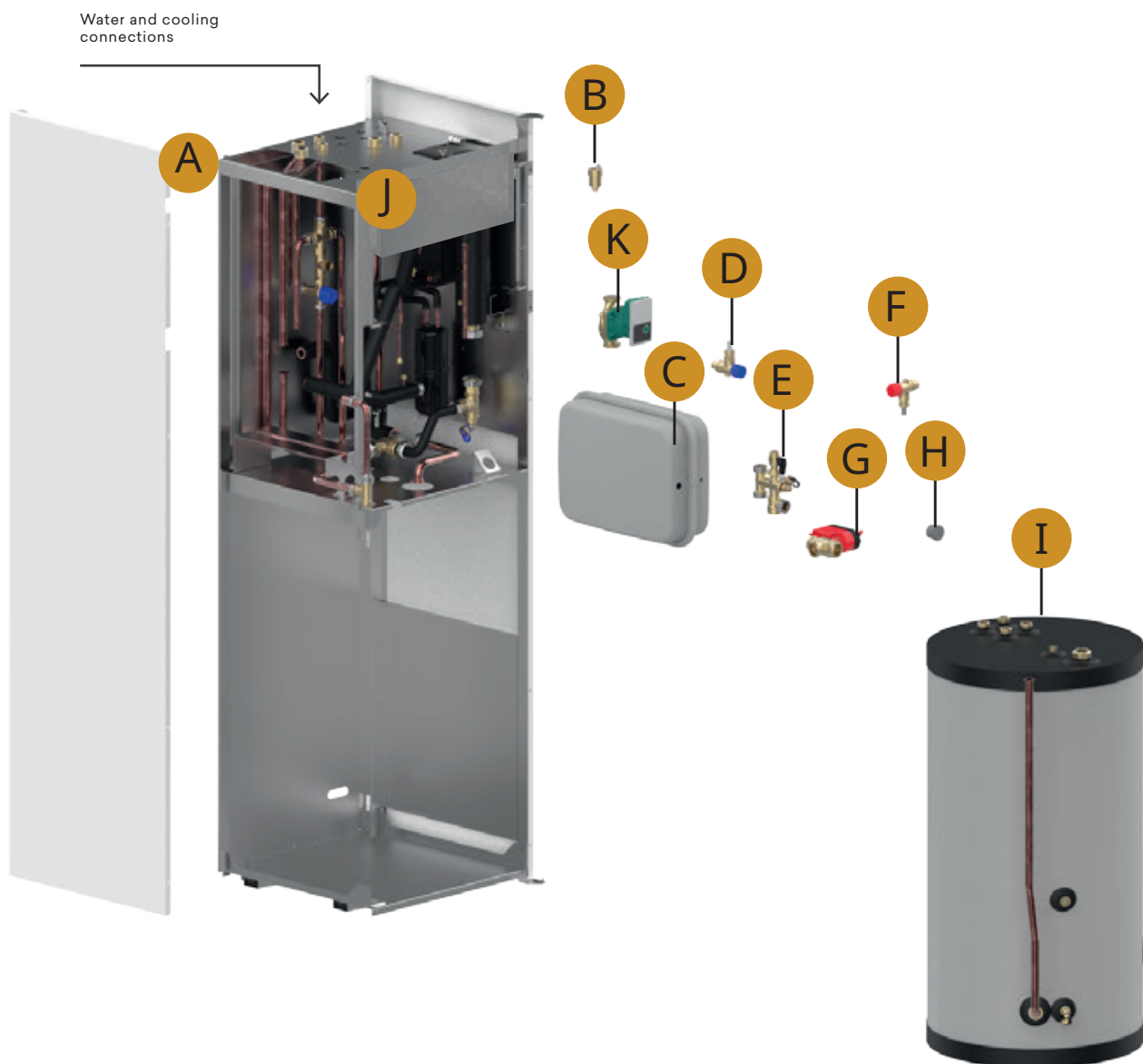


# 3in1 unit diagram



- |   |  |                                     |  |
|---|--|-------------------------------------|--|
| A. Boiler   | 1. System expansion tank<br>24 litres                            | 8. Net filter                       | 18. Solar circuit pump PP7               |
| B. Domestic hot water utilities                         | 2. Safety valve 7 bar  | 9. Plate exchanger                  | 19. Solar coil                           |
| C. High temperature utilities<br>(decorative radiators) | 3. Thermostatic mixing<br>valve (supplied with the<br>solar kit) | 10. Automatic vent valve            | 20. 200 litre domestic hot<br>water tank |
| D. System utilities                                     | 4. Filling tap   | 11. Solar safety valve 3 bar        | 21. Solar expansion tank 24<br>litres    |
| E. Heated towel rail kit<br>(optional)                  | 5. High-temperature<br>circulation pump PP4                      | 12. Primary circulation pump<br>PP1 | 22. Solar panel                          |
| F. Tank (optional)                                      | 6. Secondary circulation<br>pump PP3                             | 13. 3-way on/off valve PV1          | 23. Outdoor unit                         |
| G. Secondary separator kit<br>(optional)                | 7. Hydraulic separator   | 14. Cylinder vent valve             |  |
| H. Heating element kit<br>(optional)                    |  | 15. Solar charging tap              |  |
| I. Solar kit (optional)                                 |  | 16. Solar safety valve 4 bar        |  |
| J. Indoor unit  |  | 17. Pressure gauge                  |  |

## 3in1 standard components

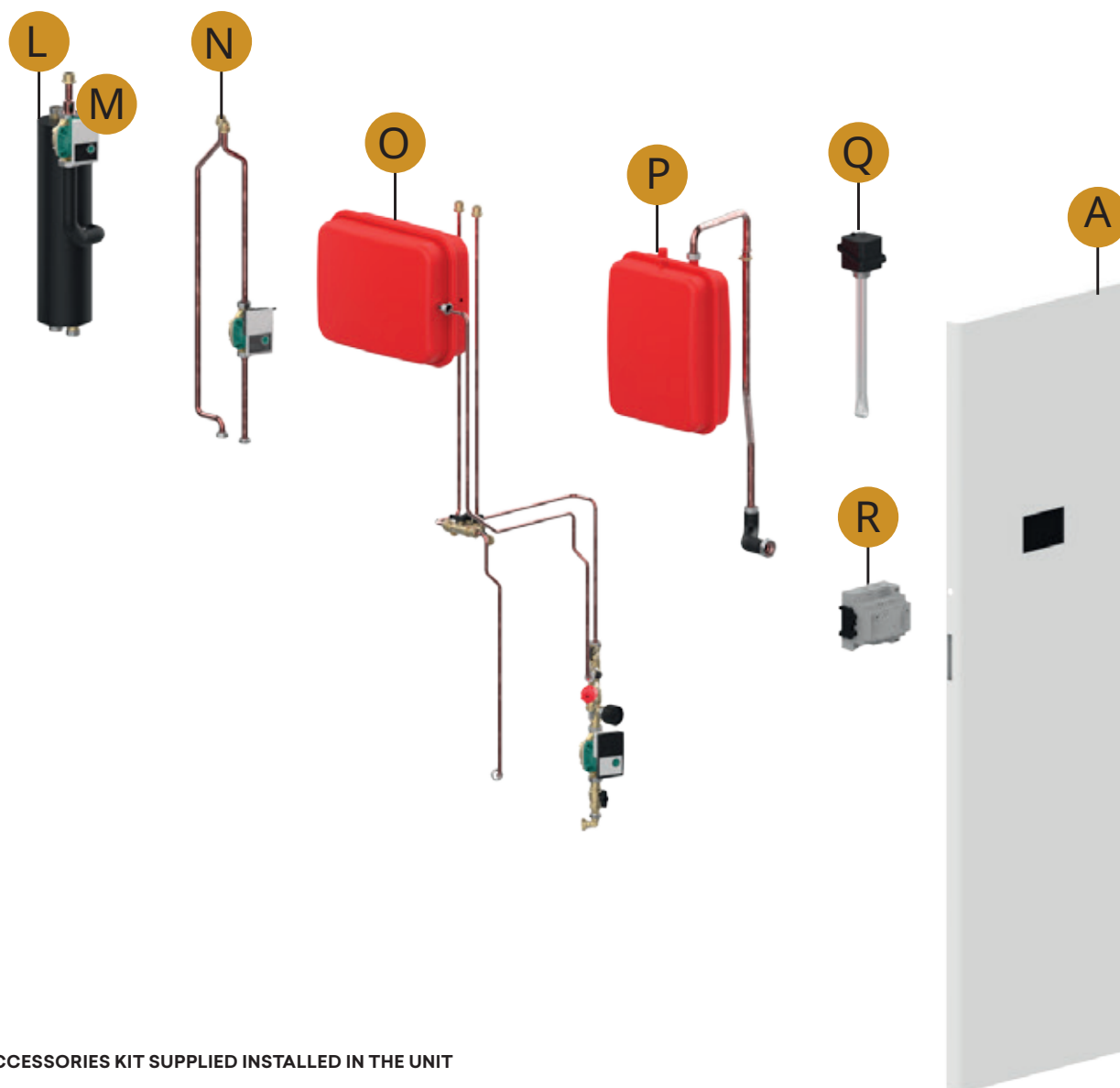


### STANDARD COMPONENTS

- A. 3in1 structure and RAL9003 cover panels and display
- B. Automatic vent valve
- C. System expansion vessel 24 litres
- D. Domestic hot water safety valve
- E. System filling unit and Y filter
- F. System safety valve 3 bar
- G. ACS system 3-way valve
- H. Pressure gauge
- I. 200 litre instantaneous domestic hot water preparation tank, standard without solar coil
- J. Electrical box
- K. Primary circuit circulation pump



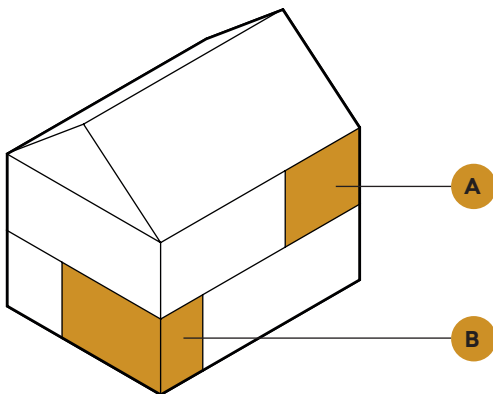
## 3in1 accessories kit supplied installed in the unit



### ACCESSORIES KIT SUPPLIED INSTALLED IN THE UNIT

- L. Separator kit with secondary pump for 5-7 kW unit
- M. Separator kit with secondary pump for 5-15 kW unit
- N. Heated towel rail kit
- O. Solar kit (can be used if there is no inertial tank kit): control unit, pump, safety valve, expansion vessel 24 litres, filling unit, system filling valve
- P. Inertial tank kit 20 litres (as an alternative to the solar kit)
- Q. 6 kW heating element kit (3 steps of 2 kW). Factory setting 2 kW for single-phase heat pumps
- R. BUTLER PRO

## 3in1 installation



The 3in1 is a complete solution.

All the system elements are contained inside the cabinet to save space and provide greater reliability because everything is installed, adjusted and tested in the factory.



Small and  
medium-sized  
homes



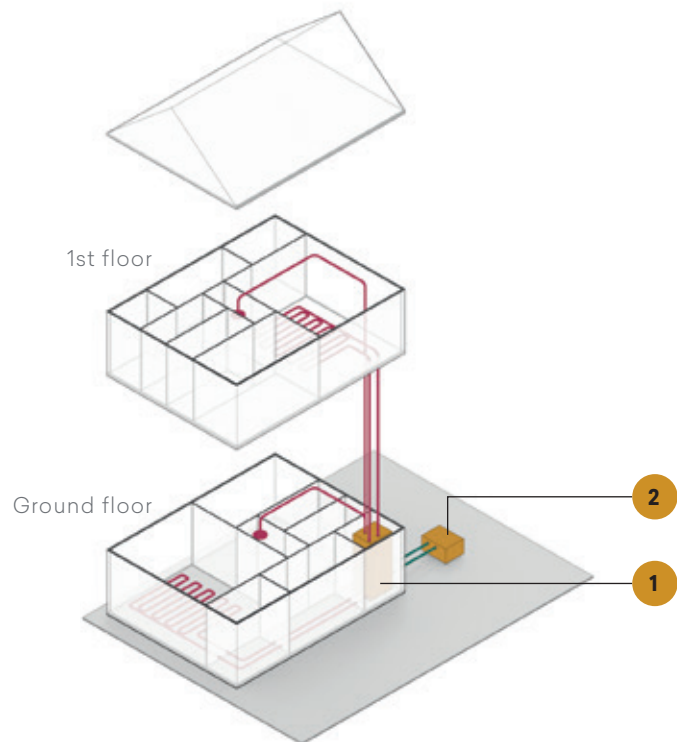
Apartments

The indoor unit can be installed indoors in any room thanks to its compact size and elegant design.

- A. Kitchen / Living room
- B. Laundry / Cellar

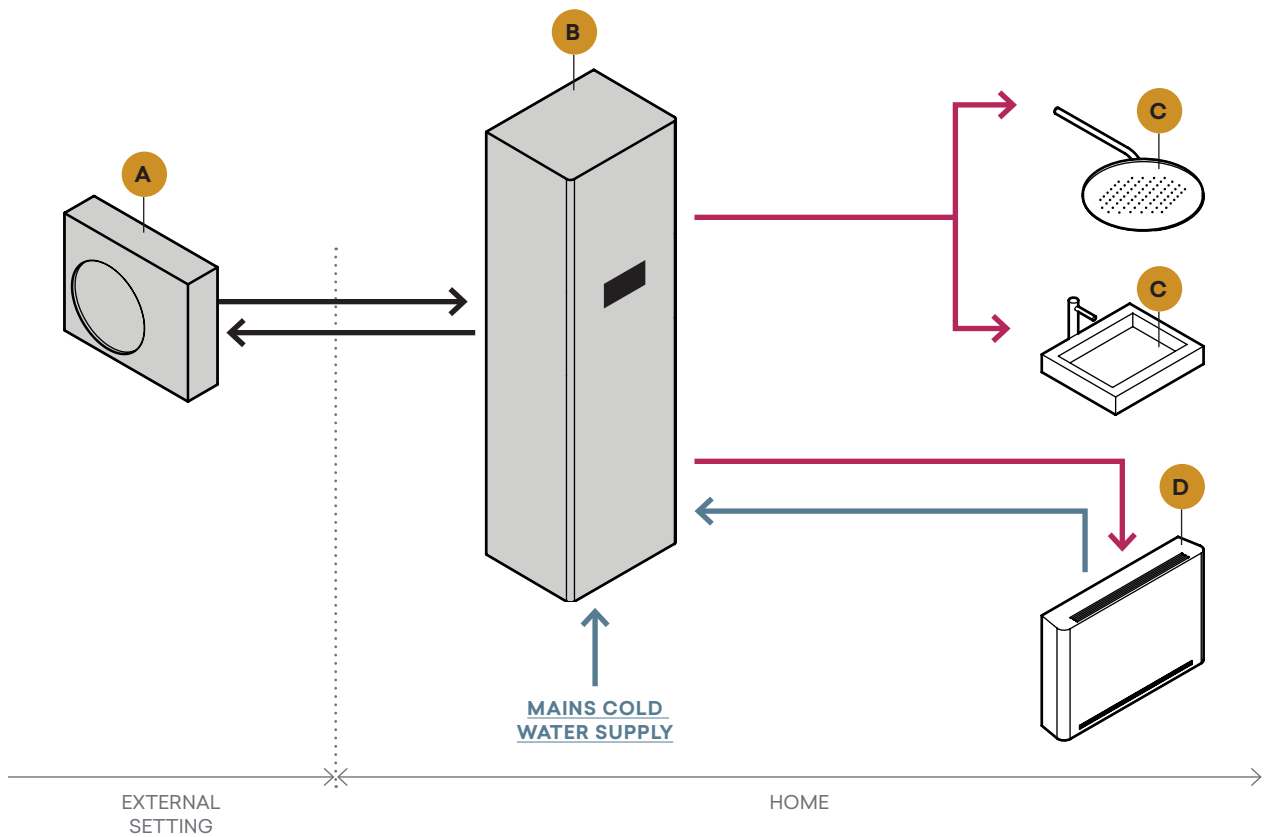
## Example of system

- 1. 3in1 indoor unit
- 2. Outdoor unit
- 3. Refrigerant
- 4. Domestic hot water / heating





## 3in1 system diagram



- A. Outdoor unit
- B. 3in1 indoor unit
- C. Domestic hot water supply
- D. Heating and cooling system

— Domestic hot water  
— Cold water

# 3in1 built-in



## **DC INVERTER**

Maximum comfort with the lowest consumption and quietest operation



## **POWER**

Power range up to 23 kW



## **REDUCED SPACE REQUIREMENTS**

Built-in installation, only 35 cm deep

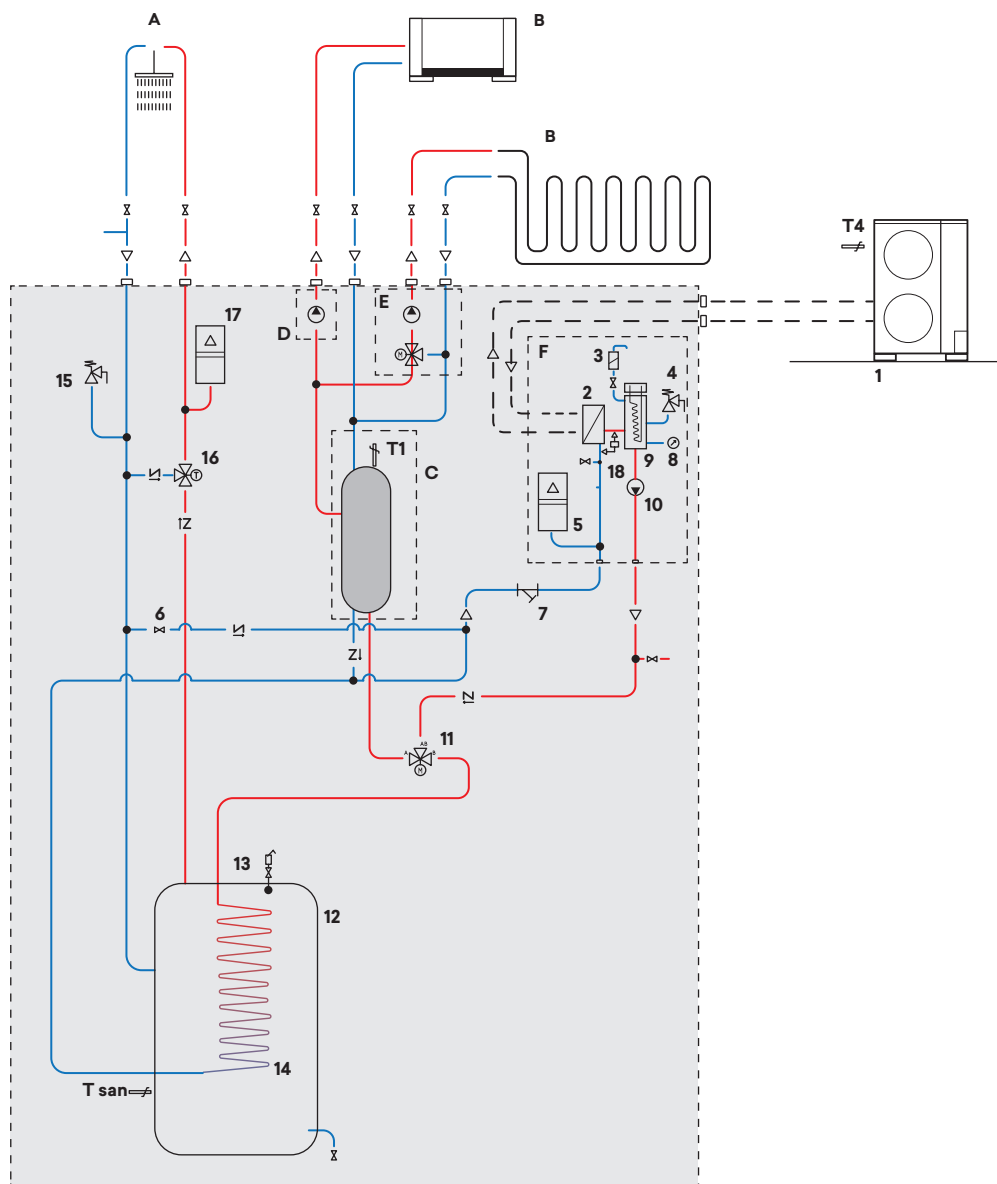


## **MODULARITY**

Various optional hydraulic modules to suit all configurations

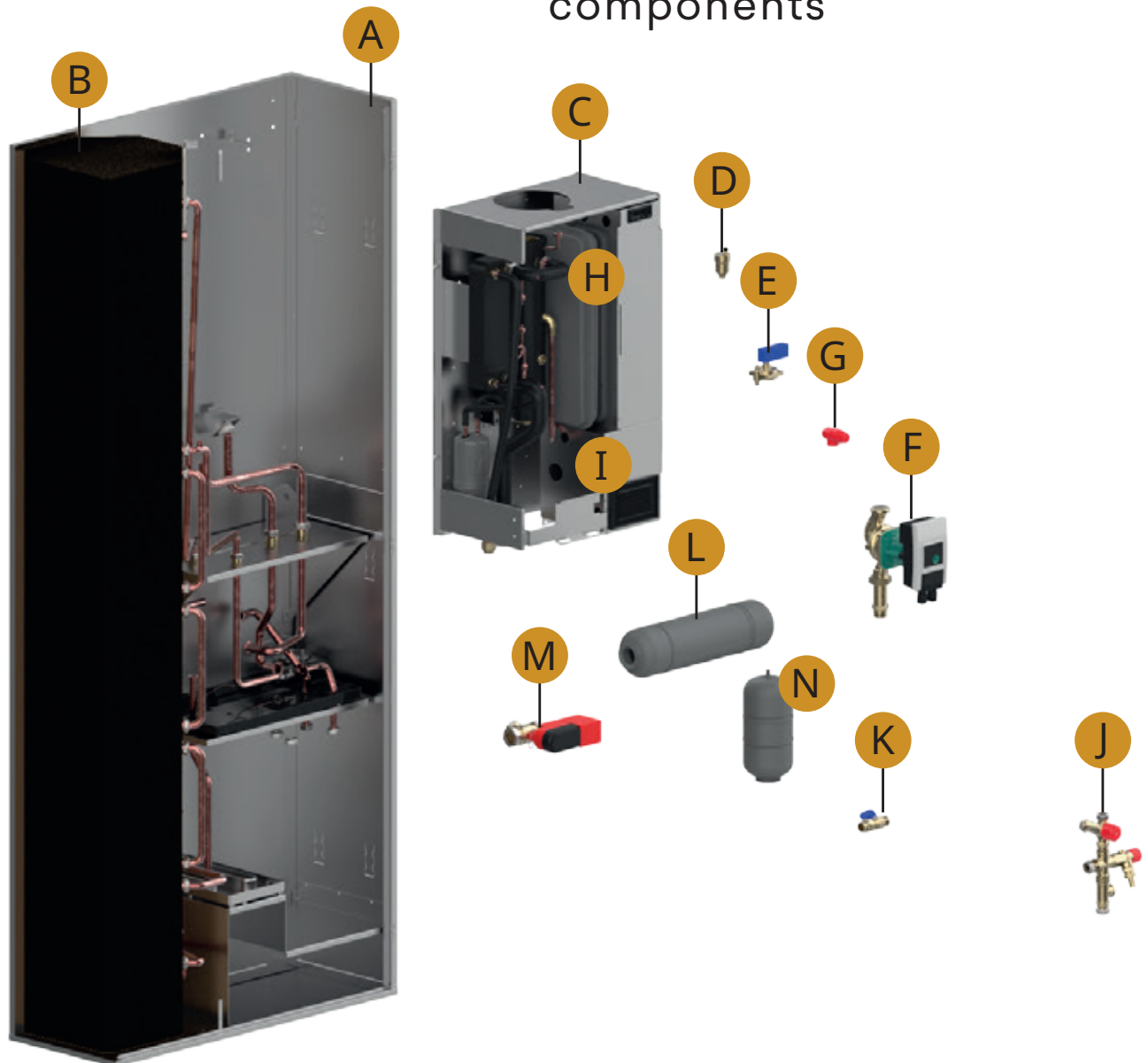


## 3in1 built-in unit diagram



- |   |                                   |  |
|---|-----------------------------------|--|
| A. Domestic hot water utilities   | 1. Outdoor unit                   | 11. 3-way valve for domestic hot water system    |
| B. System utilities   | 2. Plate heat exchanger           | 12. Domestic hot water storage tank 170 litres   |
| C. Secondary separator kit (optional)   | 3. Automatic vent valves          | 13. Cylinder vent valve                          |
| D. Secondary circuit pump kit PP5 (optional)                                    | 4. Safety valves 3 bar            | 14. Stainless steel coil                         |
| E. Secondary circuit pump kit and secondary circuit mixing valve PP6 (optional) | 5. System expansion tank 8 litres | 15. Safety valve 7 bar                           |
| F. Heating elements kit   | 6. Charging unit                  | 16. Thermostatic mixing valve                    |
|   | 7. Mains filter                   | 17. Expansion vessel 8 litres domestic hot water |
|   | 8. Plant pressure gauge           | 18. Flow switch (differential pressure switch)   |
|   | 9. Heating element manifold       |  |
|   | 10. Primary circuit pump PP1      |  |

## Standard 3in1 built-in components



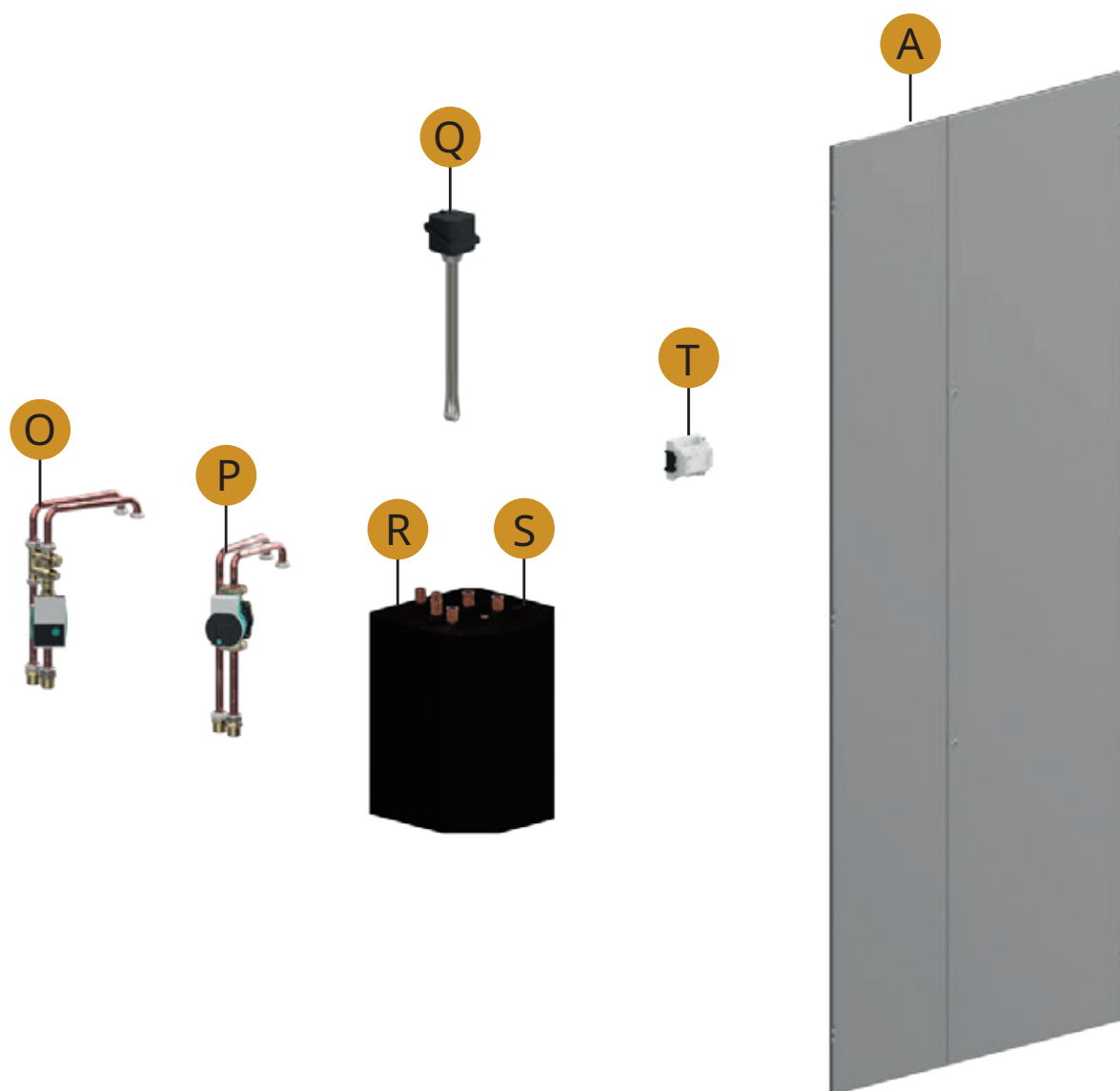
### Standard components

- A. Formwork with front closing doors
- B. Domestic hot water tank 170 litres
- C. Hydronic module
- D. Automatic vent valve
- E. Differential pressure switch
- F. Primary circuit circulation pump
- G. Safety valve 3 bar
- H. Expansion tank 8 litres
- I. Electrical box with control interface display
- J. System filling unit, Y-filter and thermostatic mixer
- K. DHW safety valve 7 bar
- L. Domestic hot water expansion tank 4 litres
- M. ACS system 3-way valve
- N. System-side expansion tank





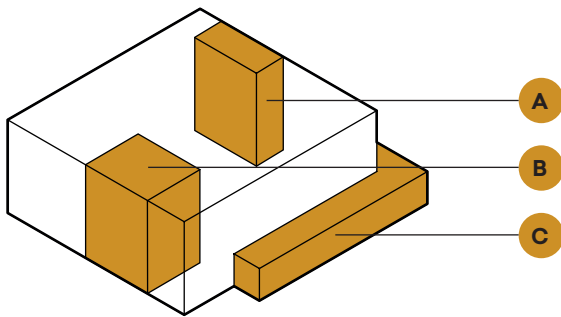
## 3in1 built-in accessories kit



### Accessories kit

- O. Secondary circuit pump kit
- P. Secondary circuit pump kit+mixing valve
- Q. 6 kW heating elements (3 steps of 2 kW). Factory setting 2 kW for single-phase heat pumps
- R. Inertial storage tank 30 litres
- S. Hydraulic separator kit 30 litres and secondary circuit pumps kit control board
- T. BUTLER PRO

## 3in1 built-in installation



The 3in1 built-in is a flexible solution with various modules which can also be installed at a later stage depending on the system configuration.



Small and  
medium-sized  
homes

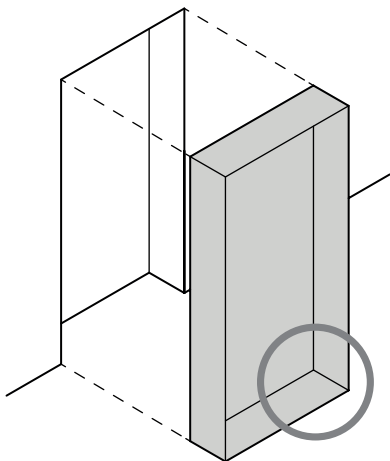


Apartments

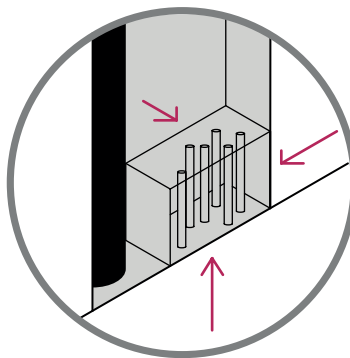
The unit housing is inserted in the wall during the building work. There are hydraulic connections in the housing for connection to the water supply. The various internal modules are installed afterwards when the system has been completed.

- A. Landing access to apartment
- B. Laundry
- C. Terrace / Balcony

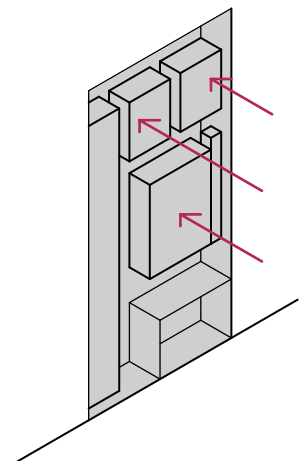
## Installation steps 3in1 built-in



1. Positioning of the built-in casing in the wall.



2. Connection of the system connections from three different positions: rear, side or bottom.

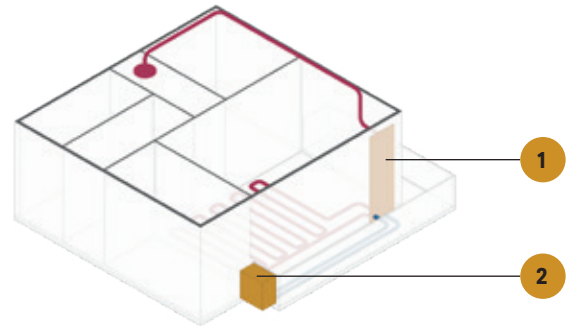


3. Installing the internal components and relevant connections.

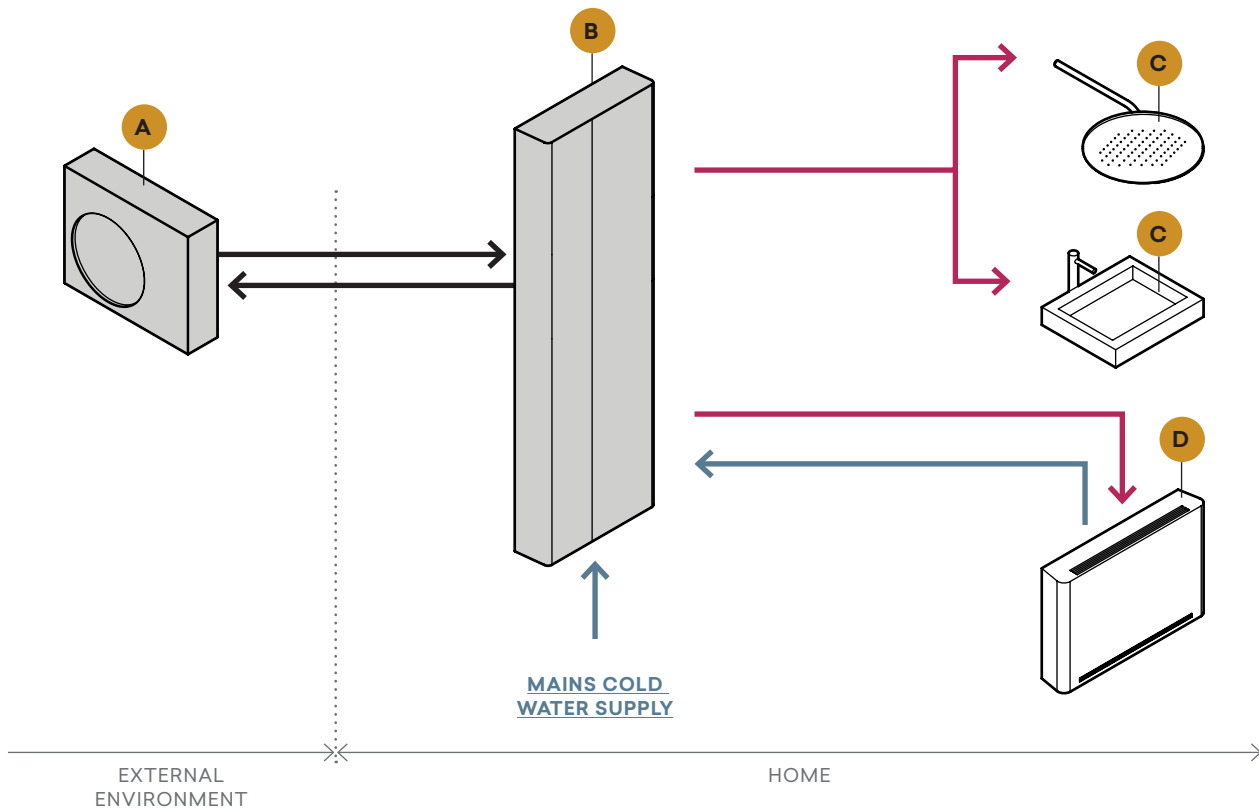


## Example of system

1. Heat pump (3in1 built-in)
2. Outdoor unit
3. Refrigerant
4. Domestic hot water / heating



## System diagram of 3in1 built-in



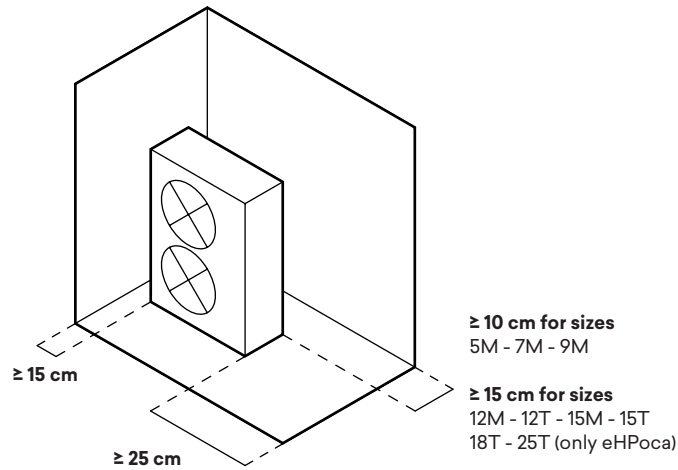
A. Outdoor unit  
B. 3in1 built-in indoor unit

C. Domestic hot water supply  
D. Heating system

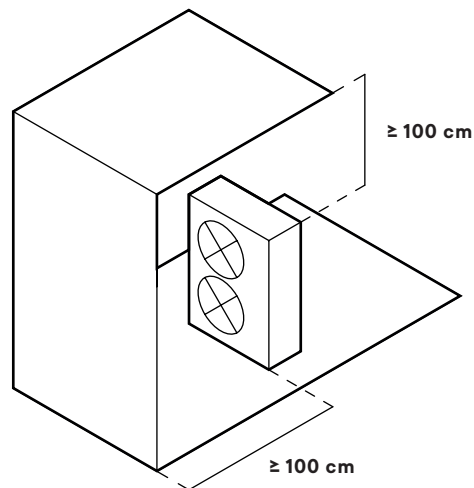
— Domestic hot water  
— Cold water

# Installation distances

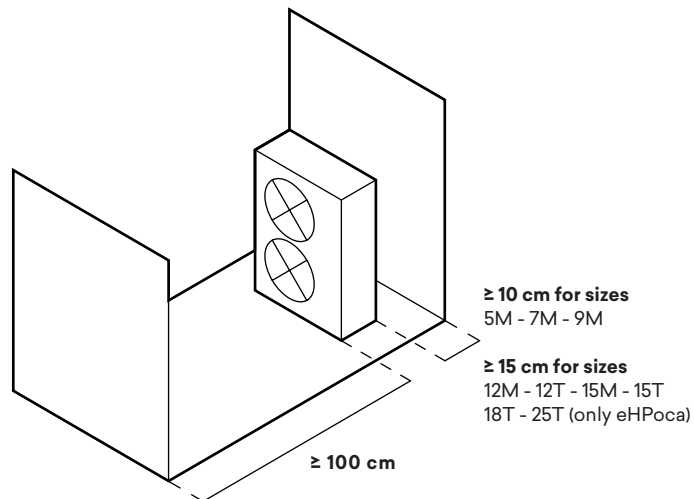
Front side  
completely free



Rear side free

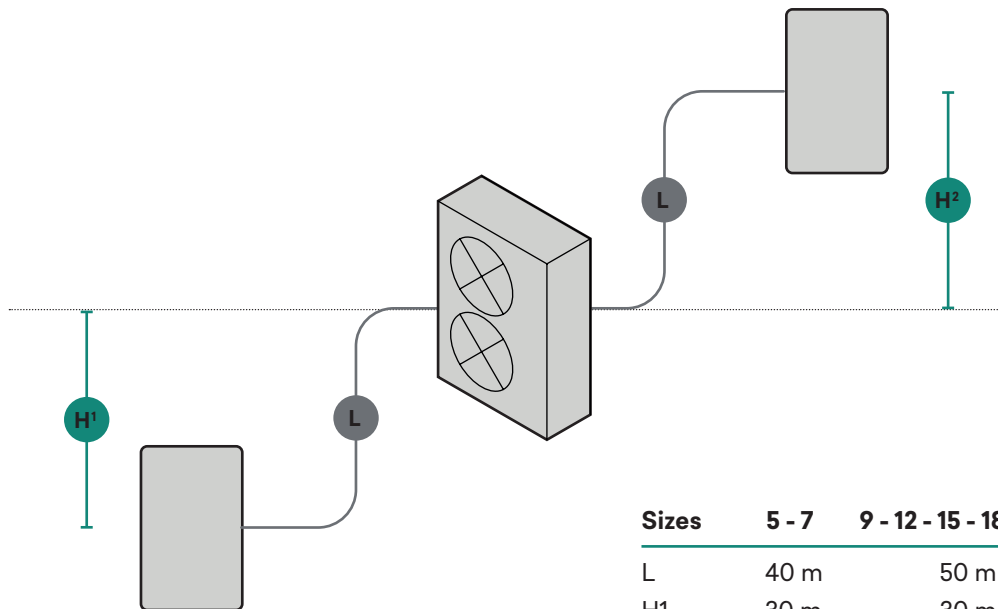


Left and right  
sides free





## Distances between components



Sizes	5 - 7	9 - 12 - 15 - 18 - 25
L	40 m	50 m
H1	30 m	30 m
H2	15 m	15 m

## Outdoor units



Single-fan unit

**5M - 7M**

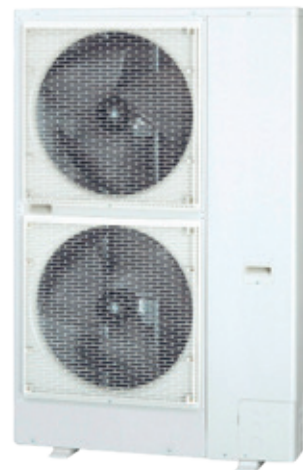
MODEL		5M	7M
L	mm	695	
P	mm	320	
H	mm	875	
Weight	kg	50	



Single-fan unit

**9M**

MODEL		9M
L	mm	940
P	mm	340
H	mm	996
Weight	kg	65

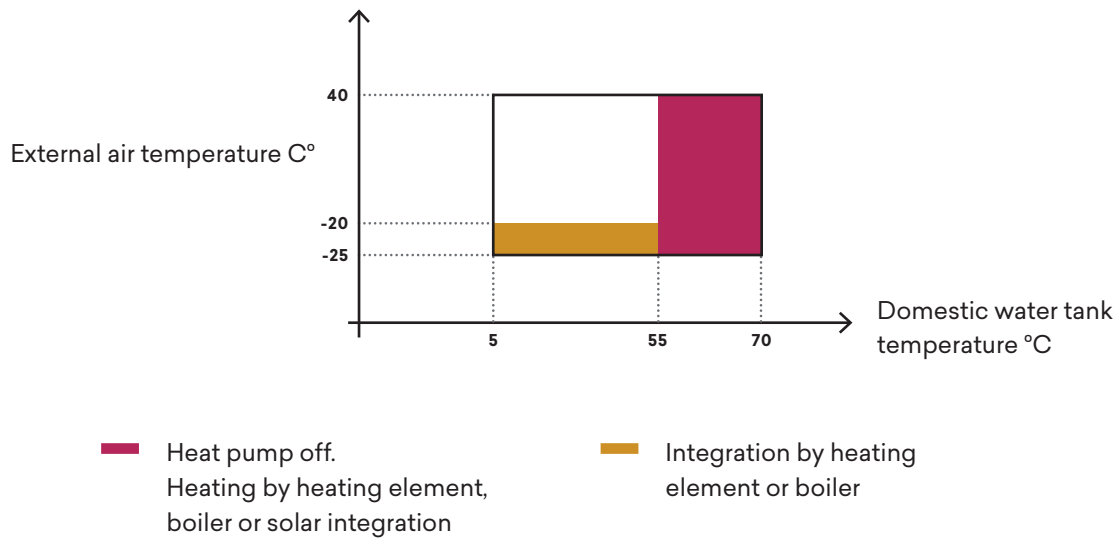


Twin-fan unit

**12M-12T-15M-15T  
18T-25T (only eHPoca)**

MODEL		12M	12T	15M	15T	18T	25T
L	mm			940			940
P	mm			340			340
H	mm			1416			1526
Weight	kg			98			128

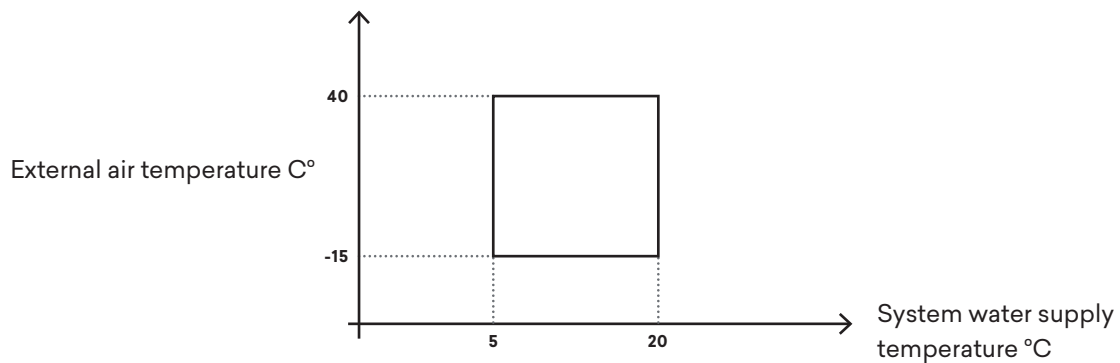
## Domestic hot water



Note: The areas represented by the diagram in the integration part are simplified. They may be more advantageous (greater contribution of the heat pump) in relation to operating conditions and internal operating parameters.

Note: For outdoor air temperatures below -15 °C, the unit may reduce the water temperature at the condenser output.

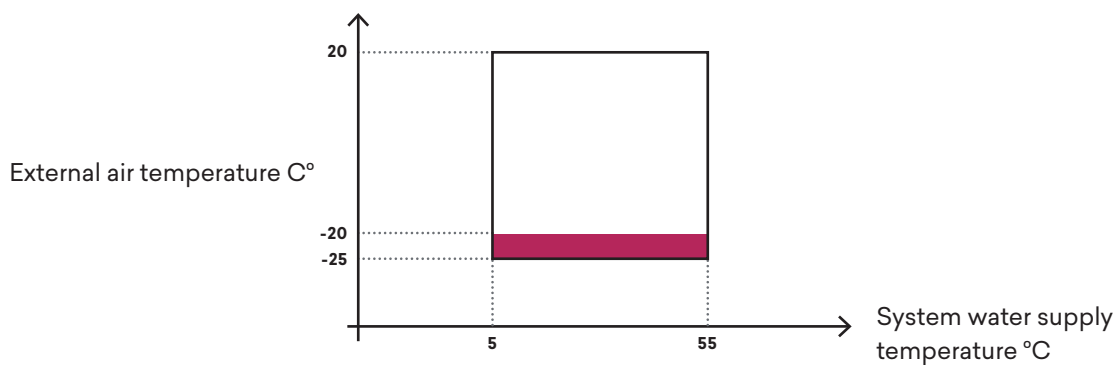
## Cooling



Note: The area shown in the diagram is simplified. It may be more advantageous in relation to outdoor operating conditions.



## Heating



■ Integration by heating element or boiler

Note: The areas represented by the diagram in the integration part are simplified. They may be more advantageous (greater contribution of the heat pump) in relation to operating conditions and internal operating parameters.

Note: For outdoor air temperatures below -15 °C, the unit may reduce the water temperature at the condenser output.

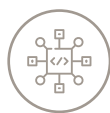
## Benefits



DC Inverter compressor with wide modulation range.



Quiet unit due to continuous modulation of the fan with DC Inverter motor.



Advanced frost prevention algorithms for the finned coil.



Finned coil with hydrophilic treatment and sub-cooling circuit.

# Technical data sheets

TECHNICAL SPECIFICATIONS		3in1 Mono	
	u.m.	5M	7M
HEATING PERFORMANCE (A7°C BS; W35°C)			
Maximum heating capacity (1)	kW	7,50	9,04
Nominal heating capacity(1)	kW	4,49	5,52
Total absorbed power (1)	kW	1,02	1,28
COP (1)		4,40	4,31
SCOP (1)		4,21	4,13
Energy efficiency class		A++	
HEATING PERFORMANCE (A-7°C BS; W35°C)			
Maximum heating capacity (2)	kW	5,16	6,24
Total absorbed power (2)	kW	1,76	2,40
COP (2)		2,93	2,60
COOLING PERFORMANCE (A35°C; W18°C)			
Maximum cooling capacity (3)	kW	8,11	10,28
Nominal cooling capacity (3)	kW	5,53	6,56
Total absorbed power (3)	kW	1,38	1,67
EER (3)		4,01	3,93
COOLING PERFORMANCE (A35°C; W7°C)			
Maximum cooling capacity (4)	kW	6,25	7,83
Nominal cooling capacity (4)	kW	4,04	4,88
Total absorbed power (4)	kW	1,38	1,78
EER (4)		2,93	2,74
HYDRAULIC SPECIFICATIONS			
Nominal flow rate	L/min	15,0	21,0
Available pressure primary circuit	kPa	65,0	55,0
Hydraulic connection diameter	"GAS	1	1
Expansion tank capacity	L	4	4
Minimum system water content	L	20	20
DHW tank capacity	L	200	200
AERAULIC CONNECTIONS			
Fan type		Modulating	
Air flow rate at maximum speed	m³/h	1850	2200
Air flow rate at minimum speed	m³/h	750	900
Air flow rate at nominal speed	Pa	80	80
Maximum available static pressure (5)	Pa	200	200
Wall-hole diameter	mm	200	200
Expulsion/immission	(bxh) mm	470 x 350	



**TECHNICAL SPECIFICATIONS****3in1 Mono****u.m.****5M****7M****REFRIGERATOR CONNECTIONS**

Compressor		Twin Rotary DC Inverter	
Refrigerant		R32	
Refrigerant charge	kg	1,55	1,55

**SOUND SPECIFICATIONS**

Sound pressure nominal (indoor)	dB(A)	42	44
Nominal sound power (indoor)	dB(A)	56,6	58,8
Sound pressure nominal (outdoor) without silencer	dB(A)	57,5	60
Nominal sound power (outdoor) without silencer	dB(A)	72,5	75,4

**ELECTRICAL DATA**

Voltage	V/ph/Hz	230/1/50	230/1/50
Maximum power consumption	kW	3,80	4,10
Maximum current consumption	A	14,00	19,00
Maximum power consumption booster	kW	2,00	2,00
Maximum current consumption booster	A	8,60	8,60
Protection rating indoor unit		IPX2	

**DIMENSIONS AND WEIGHTS SV UNIT - VERSION WITH HORIZONTAL COMBINATION**

Width	mm	604	604
Height	mm	2230	2230
Depth	mm	608	608
Net weight	kg	240,0	240,0

**DIMENSIONS AND WEIGHTS SH UNIT - VERSION WITH VERTICAL COMBINATION**

Width	mm	1208	1208
Height	mm	1228	1228
Depth	mm	608	608
Net weight (7)	kg	125,0 / 115,0	125,0 / 115,0

**DIMENSIONS AND WEIGHTS UNIT S - SINGLE VERSION**

Width	mm	604	604
Height	mm	1145	1145
Depth	mm	608	608
Net weight	kg	125,0	125,0

- (1) Water temperature in/out 30/35 °C; Outside air temperature 7 °C; R.H. 85%
- (2) Water temperature in/out 30/35 °C; Outside air temperature -7 °C
- (3) Water temperature in/out 23/18 °C; Outside air temperature 35 °C
- (4) Water temperature in/out 12/7 °C; Outside air temperature 35 °C
- (5) To be set during start-up
- (6) Indoor sound pressure measured at a distance of 1 m according to ISO 7779
- (7) Weights refer to separate heat pump/DHW module



# Technical data sheets

TECHNICAL SPECIFICATIONS		eHPoca - 3in1 3in1 built-in					eHPoca	
	u.m.	5	7	9	12	15	18	25
HEATING PERFORMANCE (A7°C BS; W35°C)								
Maximum heating capacity (1)	kW	6,80	8,50	13,07	18,32	22,80	26,90	31,07
Nominal heating capacity(1)	kW	5,58	7,10	8,10	11,59	14,61	15,95	24,78
Total absorbed power (1)	kW	1,31	1,64	1,79	2,35	2,95	3,69	5,87
COP (1)		4,26	4,33	4,53	4,93	4,95	4,32	4,22
SCOP (1)(2)		4,90	4,80	4,82	4,89	4,92	4,45	4,11
Energy efficiency class (3)		A+++						
HEATING PERFORMANCE (A-7°C BS; W35°C)								
Maximum heating capacity (4)	kW	4,59	7,72	8,73	11,70	14,74	17,36	18,37
Total absorbed power (4)	kW	1,25	1,52	1,67	2,11	2,87	3,54	5,12
COP (4)		3,01	2,84	2,91	3,28	3,15	2,83	2,86
COOLING PERFORMANCE (A35°C; W18°C)								
Maximum cooling capacity (5)	kW	6,00	11,01	11,27	16,74	18,56	23,15	32,64
Nominal cooling capacity (5)	kW	4,70	7,40	8,70	12,30	15,60	19,40	27,94
Total absorbed power (5)	kW	1,30	1,80	2,10	3,00	3,90	4,70	6,65
EER (5)		3,66	4,02	4,21	4,09	4,00	4,13	4,20
SEER (5)		6,80	7,30	6,90	7,05	6,62	7,23	7,10
COOLING PERFORMANCE (A35°C; W7°C)								
Maximum cooling capacity (6)	kW	4,11	7,56	8,11	11,79	13,34	16,45	23,24
Nominal cooling capacity (6)	kW	3,50	5,30	6,30	8,90	11,20	13,90	19,90
Total absorbed power (6)	kW	1,40	1,80	1,80	2,80	3,50	4,40	6,31
EER (6)		2,48	3,03	3,18	3,22	3,20	3,19	3,15
SEER (6)		5,78	5,80	5,45	5,50	5,12	5,95	5,81
HYDRAULIC SPECIFICATIONS								
Nominal flow rate in heating	L/min	16,0	20,4	23,2	33,2	41,9	45,7	71,0
Nominal flow rate in cooling	L/min	13,5	21,2	25,0	35,3	44,7	55,5	80,1
Available pressure primary circuit	kPa	65,0	64,0	58,0	31,0	31,0	51,0	40,0
Expansion tank capacity eHPoca	L	8	8	8	8	8	8	8
Expansion tank capacity 3in1 e 3in1 built-in	L	24	24	24	24	24	-	-
Minimum system water content	L	20	30	40	50	65	75	110
Sanitary tank capacity 3in1	L	200	200	200	200	200	-	-
Sanitary tank capacity 3in1 built-in	L	170	170	170	170	170	-	-



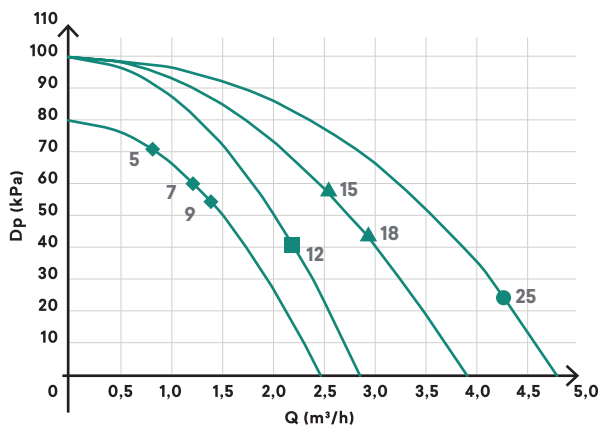
TECHNICAL SPECIFICATIONS		eHPoca - 3in1 3in1 built-in					eHPoca	
	u.m.	5	7	9	12	15	18	25
<b>REFRIGERATOR CONNECTIONS</b>								
Refrigerant		R32					R32	
Refrigerant charge	kg	1,32	1,32	1,80	3,05	3,05	3,05	3,50
Extraction	" SAE	5/8	5/8	5/8	5/8	5/8	5/8	1/2
Liquid	" SAE	1/4	1/4	3/8	3/8	3/8	3/8	3/4
<b>SOUND SPECIFICATIONS</b>								
Sound pressure indoor unit (7)	dB(A)	30	30	30	31	31	32	32
Sound pressure of outdoor unit Heating (8)	dB(A)	50	50	50	52	53	55	58
Sound pressure of outdoor unit Cooling (8)	dB(A)	48	48	48	52	53	54	57
<b>ELECTRICAL DATA</b>								
Voltage	V/ph/Hz	230-1-50	230-1-50	230-1-50	230/1/50 - 400/3/50	400-3-50	400-3-50	
Protection rating indoor unit		IPX2	IPX2	IPX2	IPX2	IPX2	IPX2	IPX2
Protection rating outdoor unit		IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
<b>DIMENSIONS AND WEIGHT (EXTERNAL UNIT)</b>								
Width-height-depth (lxhxp)	mm	695 x 875 x 320	695 x 875 x 320	940 x 996 x 340	940 x 1416 x 340	940 x 1416 x 340	940 x 1416 x 340	940 x 1526 x 340
Net weight	kg	50	50	65	98	98	98	128
<b>DIMENSIONI E PESI (UNITÀ INTERNA)</b>								
eHPoca Width-height-depth	mm	501 x 826 x 321	501 x 826 x 321	501 x 826 x 321	501 x 826 x 321	501 x 826 x 321	501 x 826 x 321	501 x 826 x 321
Empty weight	kg	41	41	41	41	43	43	46
3in1 Width-height-depth	mm	600 x 2000 x 600	600 x 2000 x 600	600 x 2000 x 600	600 x 2000 x 600	600 x 2000 x 600	-	-
Empty weight	kg	179	179	179	179	179	-	-
3in1 ad built-in Width-height-depth	mm	950 x 2001 x 358	950 x 2001 x 358	950 x 2001 x 358	950 x 2001 x 358	950 x 2001 x 358	-	-
Empty weight	kg	172	172	172	172	172	-	-

- (1) Water temperature in/out 30/35 °C; Outside air temperature 7 °C; R.H. 85%
- (2) Value referred to climate profile Average for flow temperature of 35 °C. Values in accordance with Regulation 811/2013
- (3) Seasonal efficiency according to UNI EN 14825. Energy Efficiency Class referred to climate profile Average for flow temperature of 35 °C in compliance with Regulation 811/2013
- (4) Water temperature in/out 30/35 °C; Outside air temperature -7 °C (radiant application)
- (5) Water temperature in/out 23/18 °C; Outside air temperature 35 °C (radiant application)
- (6) Water temperature in/out 12/7 °C; Outside air temperature 35 °C (fancoil application)
- (7) Sound pressure measured at a distance of 1 m according to ISO7779
- (8) Sound pressure measured at a distance of 1 m from the outdoor unit according to ISO7779

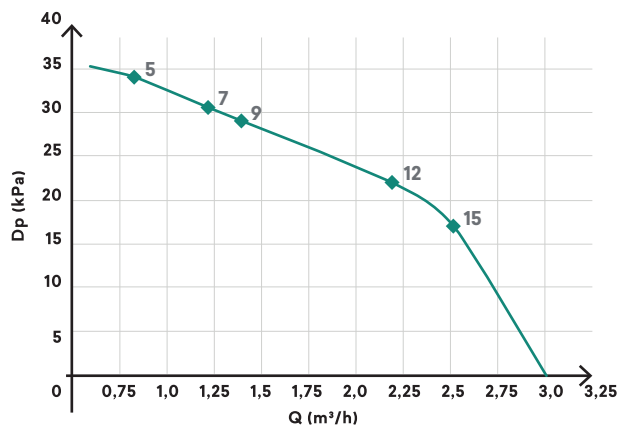
Performance data shown may be subject to change

# Available pressure curves

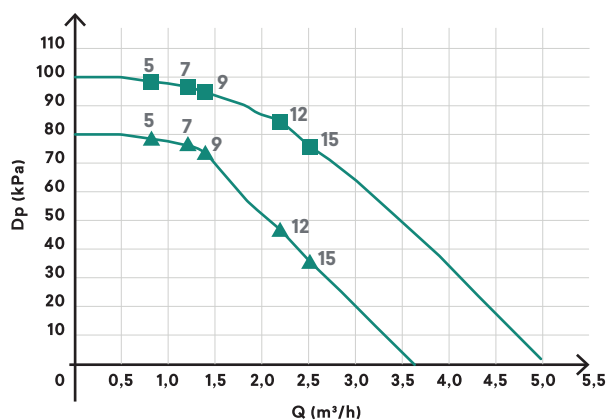
PRIMARY CIRCUIT PUMP  
eHPoca



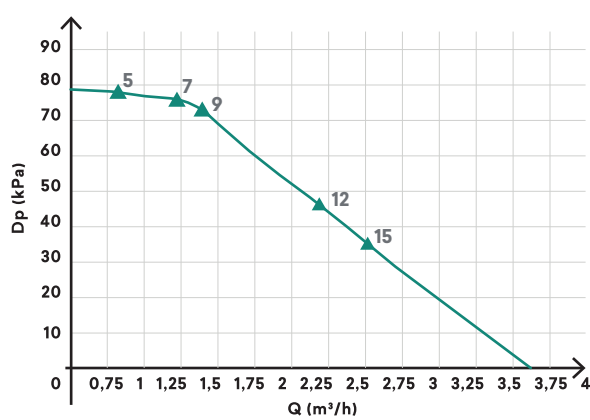
PRIMARY CIRCUIT PUMP  
3in1, 3in1 Incasso e 3in1 Mono



SEPARATOR KIT with 3in1 secondary  
circuit pump (optional)



KIT SEPARATORE con pompa circuito  
secondario 3in1 built-in (optional)



- ▲ Separator kit with secondary circuit pump for 5-7 kW units
- Increased separator kit with secondary circuit pump for 5-15 kW units

Dp (kPa) : residual available pressure to unit fittings

Q (m³/h) : water flow rate





3in1 built-in

Heat pumps

# BUTLER PRO, smart system control

BUTLER<sup>PRO</sup> web server is the system developed by INNOVA to manage an entire heating and cooling system directly in your home or remotely. BUTLER<sup>PRO</sup> allows you to connect the heat pump, controlled mechanical ventilation system, fan coils and all the other system elements via a serial connection.

BUTLER<sup>PRO</sup> is complete, simple and intuitive at the same time. You can configure a weekly calendar with time zones, create specific zones and change the settings so your home is at the right comfort level for your needs.

## TWO VERSIONS

### BUTLER<sup>PRO</sup>

settings and visualisation via smartphone / tablet / computer only with internet connection.

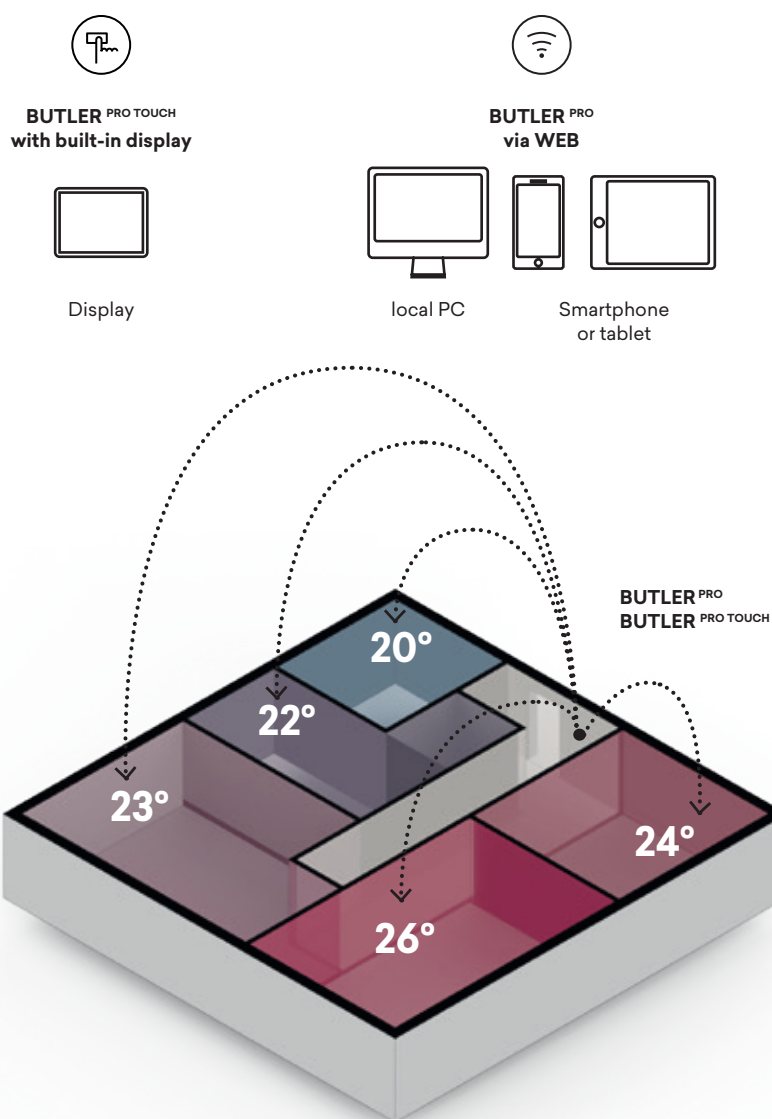
Installation on 35 mm DIN rail in the heat pump's electrical box or in the house electrical box.

### BUTLER<sup>PRO TOUCH</sup>

settings and visualisation via the built-in 10" touch screen display. Remotely connectable to the internet via smartphone/tablet/computer. Built-in wall installation. Pre-installation box is supplied separately.

## ROOM BY ROOM CONTROL

You can control each room with BUTLER<sup>PRO</sup> by configuring a weekly calendar with time zones, creating settings for each room or area, modifying the settings so your home is at just the right comfort level for your needs.





## MAIN FUNCTIONS

- **Monitoring and control in local network or remotely**

The system can be managed by any smartphone, tablet or computer

- **Personalised winter and summer programming**

You can have different programmes for every season

- **Three temperature level setting on INNOVA fan coil network**

For each room or area, you can select 3 different operating temperatures, which can be modified at any time

- **Weekly programming schedule**

You can set the schedule for the different functions for each room; the same can be done for HRV and fan coils

- **PC-type network interface**

Once the bus network has been set up between the heat pump and the fan coils, the connection to the web server is the same as a standard computer

- **Remote assistance**

With the consent of the user, BUTLER can automatically enter the INNOVA cloud for diagnostics and assistance if it is needed



**A WEEKLY SCHEDULING**

**B DOMESTIC HOT WATER SETTINGS**

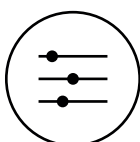
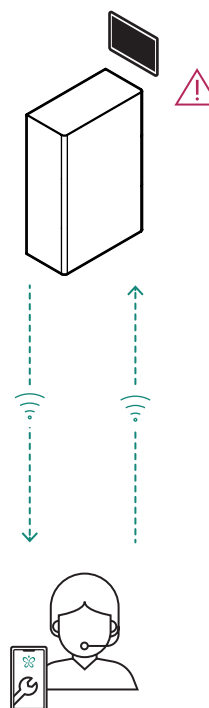




## Remote assistance

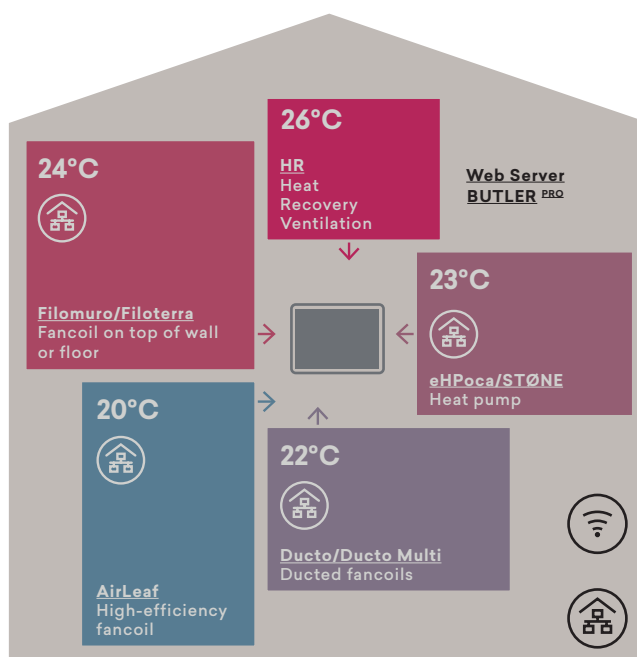
With the consent of the user, BUTLER<sup>PRO</sup> can automatically enter the INNOVA cloud for diagnostics and assistance, if needed.

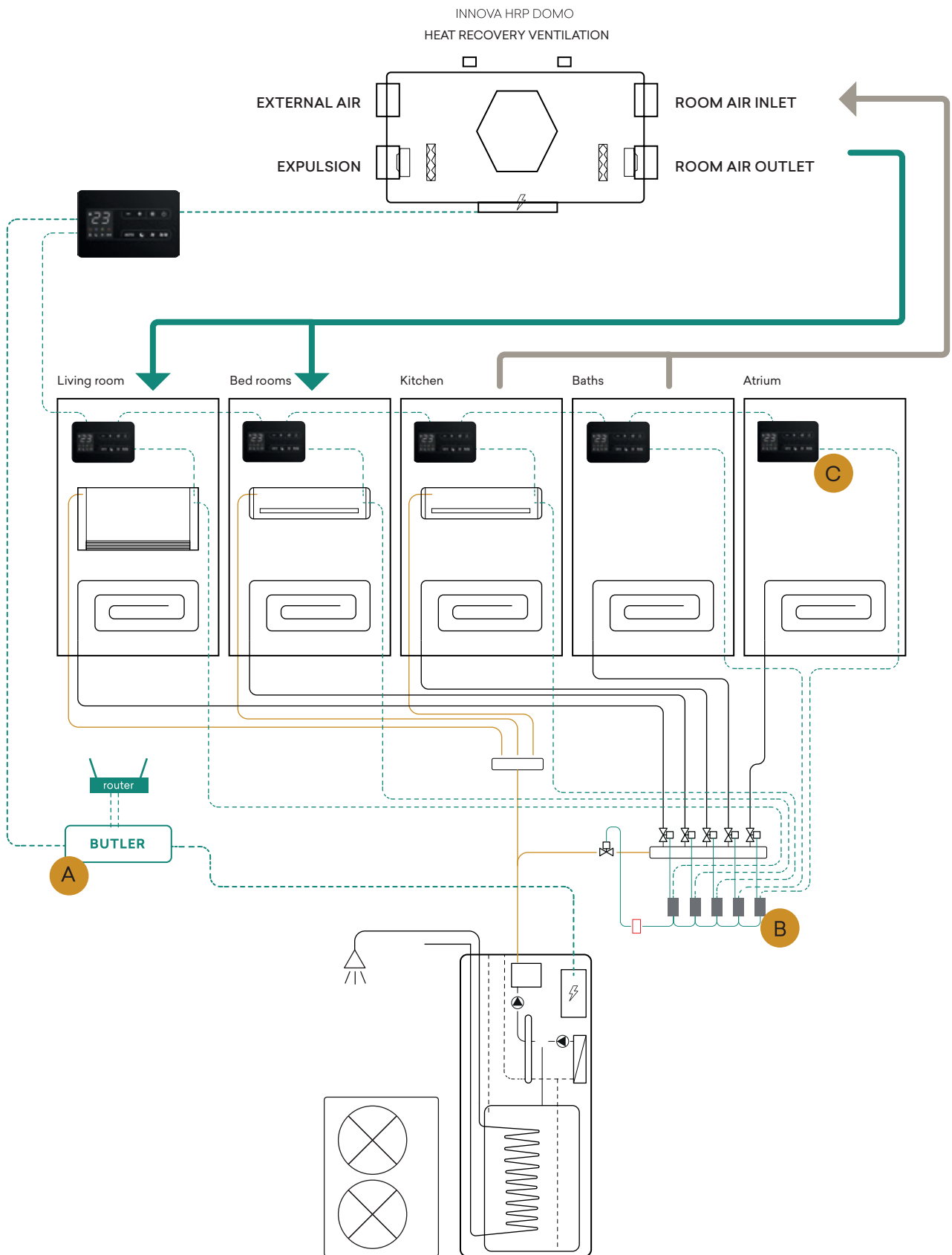
Thanks to the internet connection, it is possible to check if the INNOVA products connected to the BUTLER<sup>PRO</sup> are working correctly. Any malfunctions can be automatically sent to the BUTLER<sup>PRO</sup> at the support centre which can intervene by modifying the operating parameters or deciding to intervene directly, thus providing a fast and prompt service.



## Total control

The advantage of choosing a complete INNOVA system is that we are your sole contact point for any requirement, both for programmed maintenance and support. A complete, quality service.





- A. BUTLER PRO TOUCH
- B. MZS - Single zone module
- C. SMART TOUCH Thermostat / M7 Series

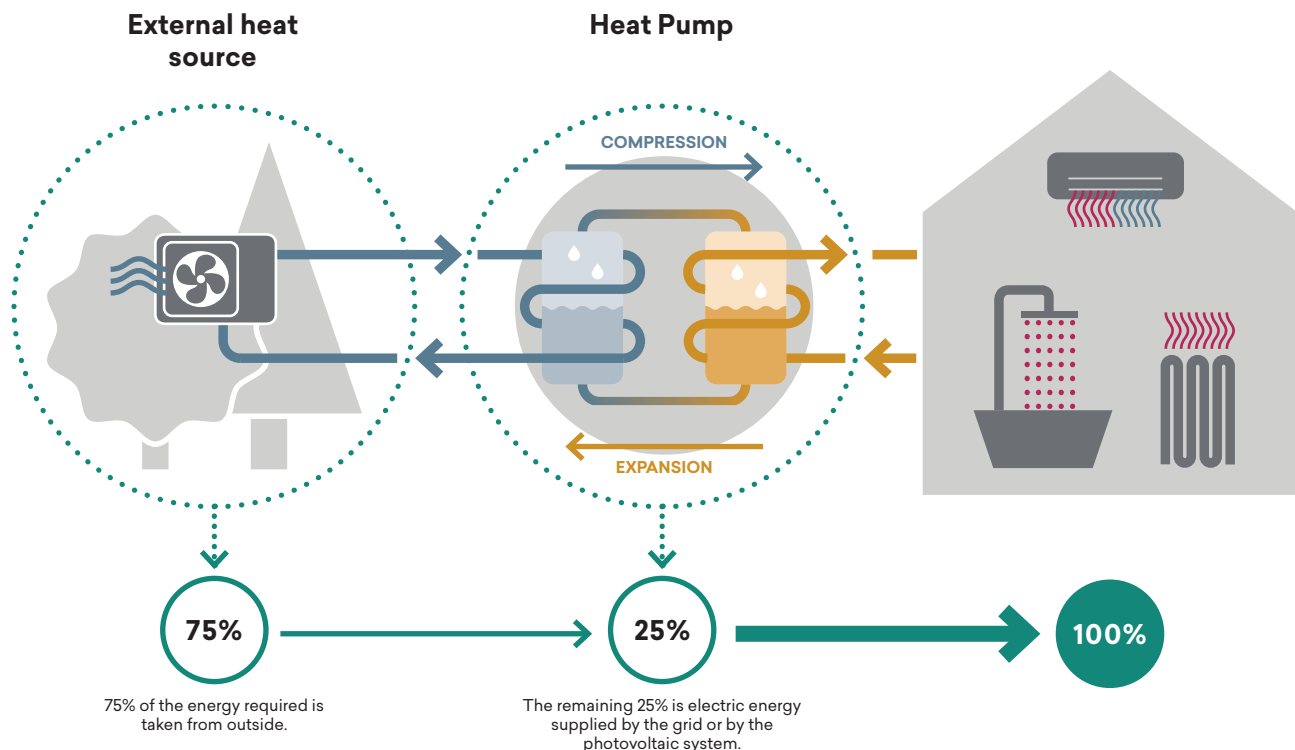


# What is a Heat Pump?

A heat pump is a unit used to heat, cool and produce domestic hot water. The way it works is similar to a fridge: the heat taken from a low-temperature environment is transferred to a higher-temperature one.





So, the heat pump takes heat from a cold outside area and transfers it to another, warmer, indoor area. By inverting the operating cycle, it is possible to cool rooms in summer: with the same principle: the heat extracted from the indoor space is taken outside.

This process uses thermal energy already present in nature (air, water or, in the case of geothermal, the ground). Heat pumps are extremely efficient heat generators that use renewable and free energy.





## Comparison between a gas boiler and a Heat Pump\*

	ENERGY REQUIRED	ENERGY PRODUCED BY A GAS BOILER	ENERGY PRODUCED BY A HEAT PUMP	
 HEATING	10 kWh	1,75 €	1,00 €	-43 %
 DOMESTIC HOT WATER (DHW)	1,3** kWh	0,22 €	0,13 €	-40 %
 RENEWABLE ENERGY		0	5,5 kWh	100 %
 EMISSIONS		2,68 kg CO <sub>2</sub>	1,25 kg*** CO <sub>2</sub>	-50 %

\* Considerations with high-efficiency boiler and natural gas cost 1.2 €/m<sup>3</sup> - electricity 0.4 €/kWh

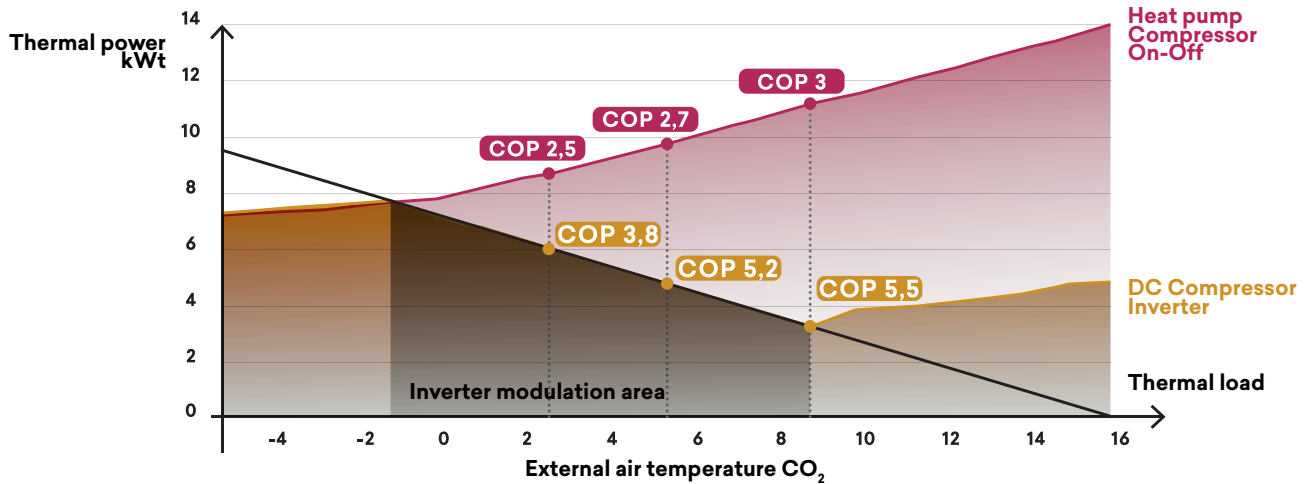
\*\* Daily energy requirement of one individual = 50 litres of hot water at 40° C

\*\*\* CO<sub>2</sub> emissions indirectly produced by national power grid 1kWh = 0.4332 Kg CO<sub>2</sub>





## Efficiency of a Heat pump Inverter vs on/off



**COP** : Represents the power produced and the power absorbed

The requirement of a building is maximum at the design temperature and decreases linearly as the outside temperature increases. The heat pump with inverter compressor modulates the power supplied based on the building requirement. As the external temperature increases, the power supplied decreases and so, increases efficiency.

The heat pump with on/off compressor always works at 100% and, as the external temperature increases, the power generated increases, in contrast to the building requirement. In these conditions, in order to meet the requested load, the compressor works by repeatedly turning off and on which significantly reduces efficiency.



## Energy savings

INNOVA DC Inverter heat pumps guarantee significant energy savings both in heating and in the production of domestic hot water thanks to the high levels of SCOP (seasonal coefficient of performance). Compared to a conventional heating system (e.g. boiler), the cost of energy, used for an entire winter, can be between 30% and 50% less.



dal 30% —→ al 50%



radiant panels



Next Village,  
50 apartments  
Independent systems  
with 3in1 heat pumps  
Viterbo, Italy

Integrated design for a detached house  
eHPoca + AirLeaf + HRP DOMO 30 H  
Remote control via BUTLER PRO  
Madruzzo (TN), Italy

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We turn ideas  
into reality.







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Edizione 2023/1