

Wall mounting heating/cooling storage for heat pumps

ACFQWX – Made from AISI 304 stainless steel

ACFQW- Made from carbon steel

Buffer vessels for the storage of heating and cooling water. They are available with 50 and 75 litre capacity and they're made from carbon steel or stainless steel.
Specially designed to be used in systems with heat pumps, it's coated with an injected vapour seal foam insulation with low thermal dispersion. Their compact size and wall mounting feature allow for an easy installation in places with limited space.
Main applications:
- Stratified thermal buffer: prepared to receive flows from two different heat sources, it promotes the thermal stratification through internal separating baffle plates;
- Hydraulic separator: makes the heat source flow independent from the flow of the system where it is connected;
- Modular expandable storage: by using the connection kit, it is possible to connect 2 or more buffers together to achieve higher storage capacities;
- Low loss header: the storage is prepared for a fast connection with circulating modules as the lower connections have a standard center distance for these modules.
The storage is supplied with a wall mounting bracket and adjustable screws.
Furthermore, the storage can host an immersion heater (not supplied), useful during winter season. The thermal fluid contained in the storage must operate in closed circuit (without oxygen), in order to avoid corrosion phenomena.

HEAT SOURCE

APPLICATION

TECHNICAL FEATURES

Buffer vessel

General features

	ACFQWX	ACFQW
Material	AISI 304 (1.43011) stainless steel	S 235 Jr carbon steel
Rating (P max. / T max.)	3 bar / -10 ÷ + 60 °C	3 bar / -10 ÷ + 95 °C
Capacity	50 - 75 L.	
Warranty	5 years	
Insulation	30 mm thick polyurethane foam + metal jacket: Fire retardant class B3 (DIN 4102)	
In compliance with	- Pressure Equipment Directive (PED) 2014/68/UE Art. 4 Para 3 - Energy related Products (Erp) Directive 2009/125/CE	

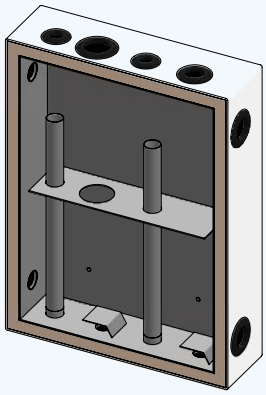
ACCESSORIES



1" ½ electric immersion heater

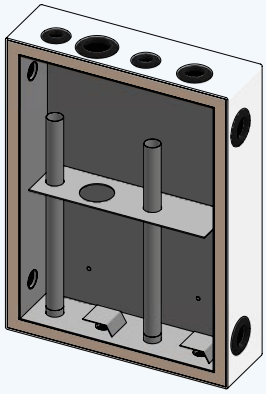


Coupling set



ACFQWX – AISI 304 stainless steel storage
Hard foam insulation + PVC jacket

CODE	INSULATION THICK. (mm)	ERP CLASS	HEAT LOSS S (W)	EFFECTIVE CAPACITY (L)
ACFQWX00050R	30	C	46,9	50,5
ACFQWX00075R	30	C	53,0	72,4



ACFQW – Carbon steel storage
Hard foam insulation + PVC jacket

CODE	INSULATION THICK. (mm)	ERP CLASS	HEAT LOSS S (W)	EFFECTIVE CAPACITY (L)
ACFQW00050R	30	C	46,9	50,5
ACFQW00075R	30	C	53,0	72,4



Coupling set
Useful to connect two buffers in cascade

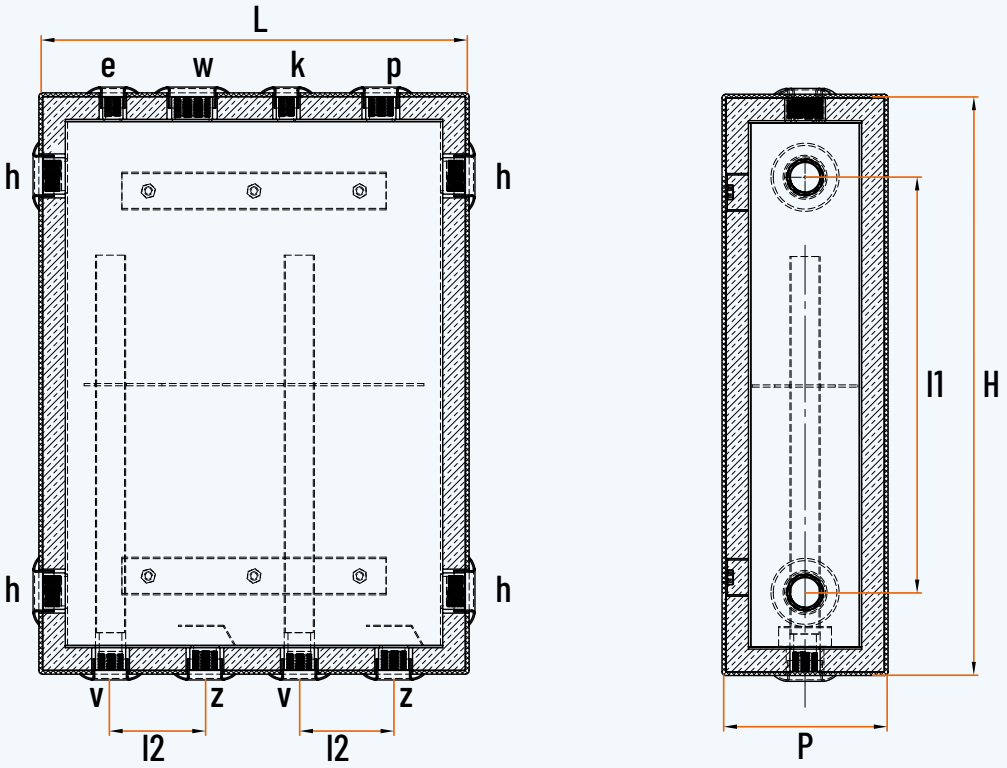
CODE	ø	COMPATIBILITY
Q-SETTACC	1" ¼	ACFQWX - ACFQW

ACFQW

Dimensions and heights

LEGEND

- **e .** Thermometer - Temperature sensor
- **h .** System Inlet/Outlet
- **k .** Vent
- **p .** Safety valve
- **v .** Heating system flow
- **w.** Opening for immersion heater
- **z .** Heating system return



MODEL	DIMENSIONS (mm) L	H	P	WEIGHT (kg)	Max. allowance for heating element (mm)
ACFQW_00050R	570	770	220	31	650
ACFQW_00075R	570	1070	220	42	950

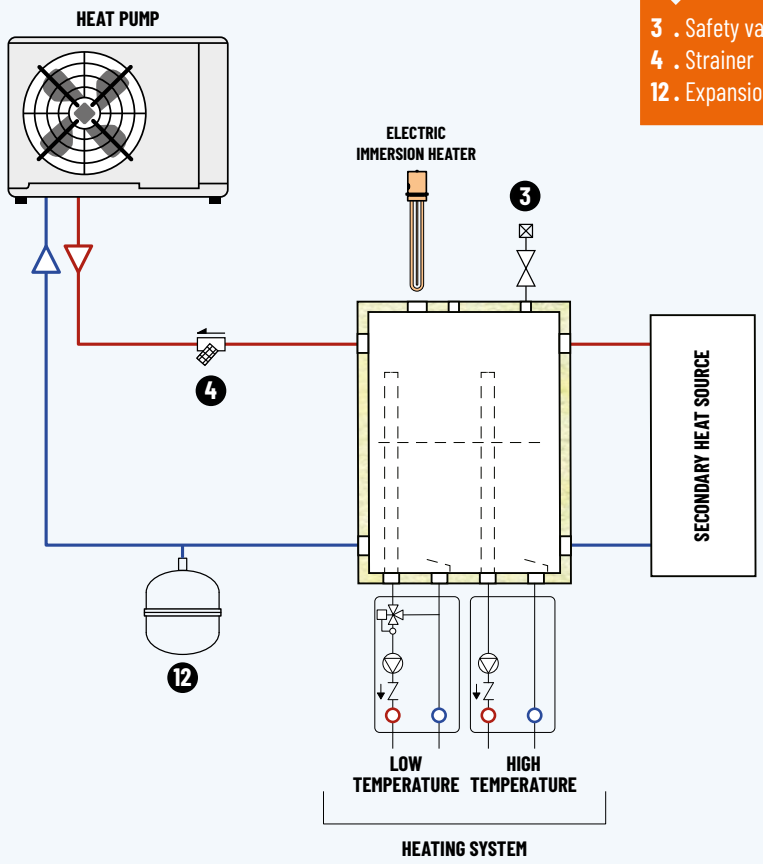
MODEL	HEIGHTS (mm) l1	l2	CONNECTIONS (GAS) e k	h	p v z	w
ACFQW_00050R	550	125	½"	1"¼	1"	1"½
ACFQW_00075R	850	125	½"	1"¼	1"	1"½

Disclaimer: *this layout is purely indicative. It does not replace consultant's design.*

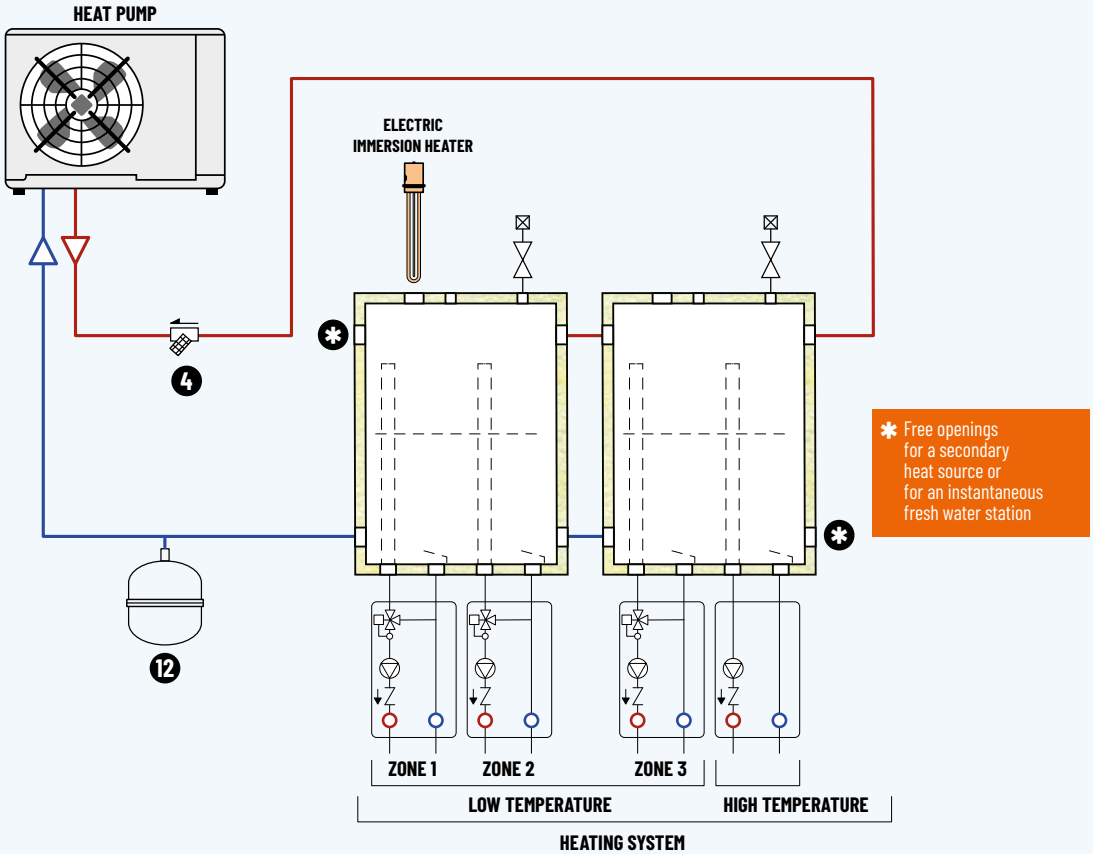
STAND ALONE INSTALLATION - HEATING ONLY

LEGEND

3 . Safety valve
4 . Strainer
12 . Expansion vessel



CASCADE INSTALLATION - HEATING ONLY



✱ Free openings for a secondary heat source or for an instantaneous fresh water station

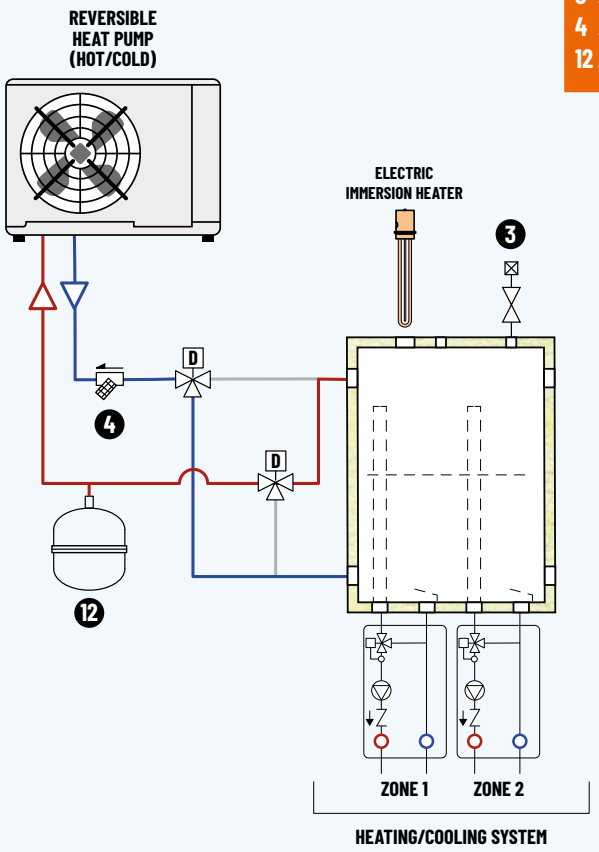
System layout

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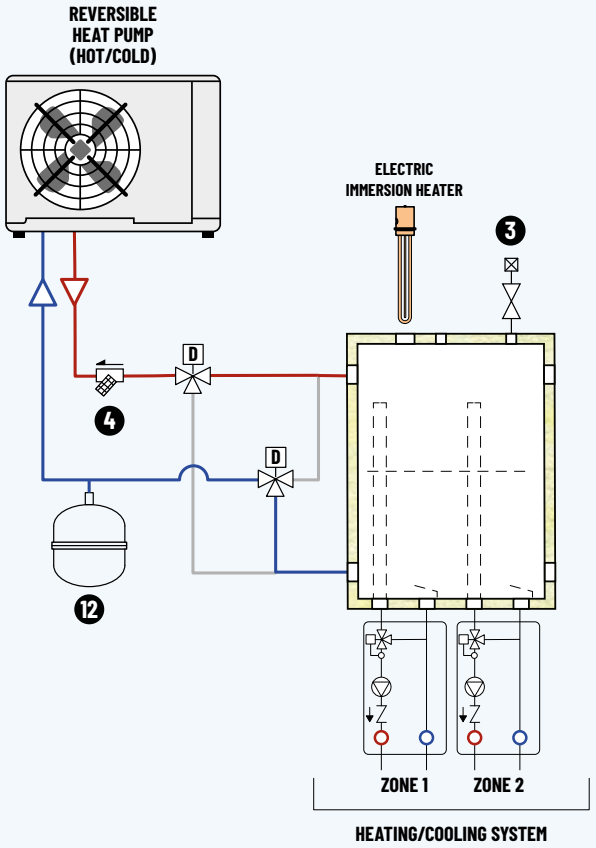
STAND ALONE INSTALLATION - HEATING/COOLING SUMMER SETTING

LEGEND

3 . Safety valve
4 . Strainer
12 . Expansion vessel



STAND ALONE INSTALLATION - HEATING/COOLING WINTER SETTING

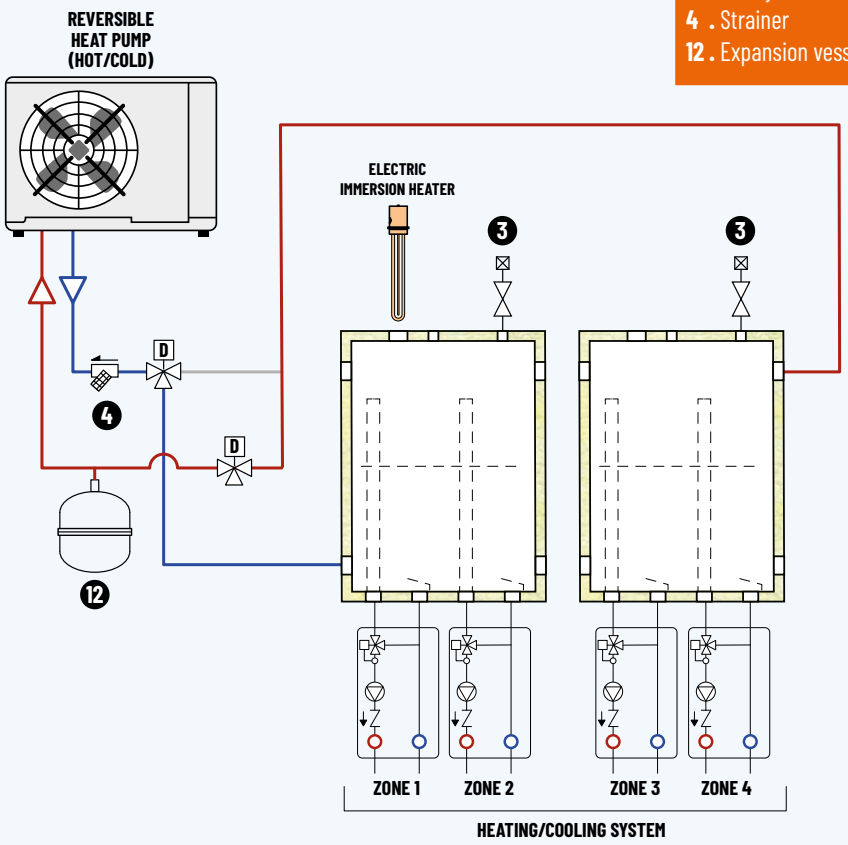


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CASCADE INSTALLATION - HEATING/COOLING SUMMER SETTING

LEGEND

3 . Safety valve
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12 . Expansion vessel



CASCADE INSTALLATION - HEATING/COOLING WINTER SETTING

