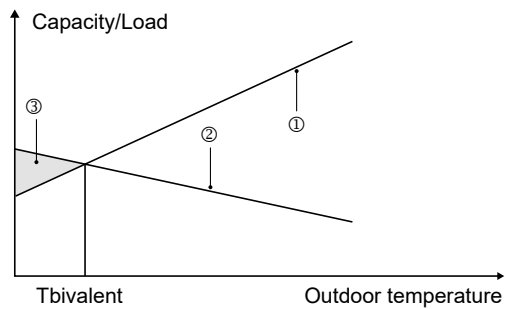


2 GENERAL INTRODUCTION

- These units are used for both heating and cooling applications and domestic hot water tanks. They can be combined with fan coil units, floor heating applications, low temperature high efficiency radiators, domestic hot water tanks and solar kits, which are all field supplied.
- A wired controller is supplied with the unit.
- If you choose the built-in backup heater unit, the backup heater can increase the heating capacity during cold outdoor temperature. The backup heater also serves as a backup in case of malfunctioning and for frozen protection of the outside water piping during winter time.

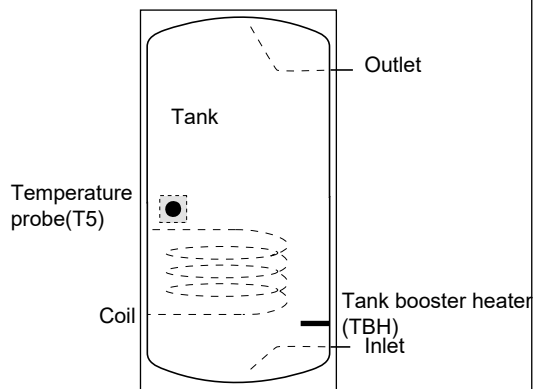


- ① Heat pump capacity.
- ② Required heating capacity (site dependent).
- ③ Additional heating capacity provided by backup heater.

Domestic hot water tank (field supply)

A domestic hot water tank (with or without booster heater) can be connected to the unit.

The requirement of the tank is different for different unit and material of heat exchanger.



The booster heater should be installed below the temperature probe (T5).

The heat exchanger (coil) should be installed below the temperature probe.

The pipe length between the outdoor unit and tank should be less than 5 meters.

Model		6 kW	8~10 kW	12~16 kW
Volume of tank/L	Recommended	100~250	150~300	200~500
Heat exchange area/m ² (Stainless steel coil)	Minimal	1,4	1,4	1,6
Heat exchange area/m ² (Stainless steel coil)	Optimal	1,8	1,8	2,2
Heat exchange area/m ² (Enamel coil)	Minimal	2,0	2,0	2,5
Heat exchange area/m ² (Enamel coil)	Optimal	2,5	2,5	4,0

Room thermostat (field supplied)

Room thermostat can be connected to the unit (room thermostat should be kept away from heating source when selecting the installation place).

Solar kit for domestic hot water tank (field supplied)

An optional solar kit can be connected to the unit.

Operation range

Outlet water (Heating mode)		+12 ~ +65°C
Outlet water (Cooling mode)		+5 ~ +25°C
Domestic hot water		+12 ~ +60°C
Ambient temperature		-25 ~ +43°C
Water pressure		0.1~0.3MPa
Water flow	6kW	0.40~1.25m ³ /h
	8kW	0.40~1.65m ³ /h
	10kW	0.40~2.10m ³ /h
	12kW	0.70~2.50m ³ /h
	14kW	0.70~2.75m ³ /h
	16kW	0.70~3.00m ³ /h

The unit has a freeze prevention function that uses the heat pump or backup heater (Customized model) to keep the water system safe from freezing in all conditions. Since a power failure may happen when the unit is unattended, it's suggested to use anti-freezing flow switch in the water system. (Refer to 9.4 "Water piping").