

# INSTALLATION AND USER'S MANUAL BUFFER TANK FOR HEATING SYSTEMS

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Item on	name	size	Item on	name	size
1	Temperature Sensor		8	Wall bracket	
2	Temperature Sensor		9	Water Inlet from Heat Pump	
3	Water Inlet from Heating System	G1"female	10	T/P valve	G3/4" female
4	Temperature Meter		11	Water Outlet to Heating system	G1″female
5	15m Sanitary Coil Water Outlet	G1"female	12	EU Electric Heater Connector	G2″female
6	Water Outlet to Heat Pump	G1″female	13	Rubber feet	
7	15m Sanitary Coil Water Inlet	G1″female			





## 2.Technical data

Model			BFT-75LB
Volume		L	75
Net Dimension	Height	mm	875
	Diameter	mm	470
Material of inner	tank		Stainless Steel 304
Insulation materi	al		Foaming
Insulation thicknes	S	mm	50
Net weight		kg	30kg
Material of sanita	ry coil		Stainless Steel 304
Diameter of sanita	ry coil	mm	Ø2
Length of sanitary	coil	m	15

### 2.1 Accessories

Item no.		Part name	Quantity(pcs)
1		Wall bracket	1
2	<u>e</u>	Fixture	1
3	ſ	Elastic slice	1
4		Expansion bolt	4
5		Self-tapping screw	16
6	Ĩ	Flat head screw	2
7		Drainage pipe for T/P valve	1
8		T/P valve	1

There is a reserved connector for electric heater at the bottom of water tank. You can insert an electric heater from this connector to the water tank. Please purchase electric heater from your local distributor.

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## **3.Application illustration**

The buffer tank is designed to protect the whole heating system, increase the water volume and flow especially for water systems with no or too small accumulator volume, to avoid too little water flow and frequent turn ON/OFF for inverter heat pump, as well as for ON/OFF heat pump releasing the high pressure switch because of too small water volume and too much power.

The buffer tank can also store the hot water produced by heat pump, to save energy in cost efficient way.

There is 15m preheated water coil inside the tank, which is used to preheat the sanitary water for house, to make full use of heat energy.



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## Application 1



## 4. Installation

#### 4.1 Installation

There are two installation options for different applications. The unit can be mounted on the wall, and also can stand on the floor.

#### Mount on the wall

1.Fix the wall bracket to the wall, by using 16 pieces of self-tapping screw (expansion bolts can be optional).

2.Hang the water tank on the fixed wall bracket at four points, as shown in the picture 2.

3. Using fixtures and flat head screws to firmly fix the tank to the bracket, as shown in picture 3.

Note: If electric heater is needed to be installed from the bottom, the water tank only can be mounted on the wall.





#### **Floor standing**

If you don't need to install the electric heater in the bottom of the water tank, the water tank can stand on floor.

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## 4. Installation

#### 4.2 Installation of temperature sensor

Temperature sensor should be put into the water tank as follows:

1. Remove the plastic cover for installing the temperature sensor on the water tank, screw off the plastic nut and remove the "O" shape rubber ring.



2. Pass the temperature sensor through the plastic nut and reinstall the "O" shape rubber ring. Pass the temperature sensor through the plastic cover.







3. Insert the elastic slice into the sensor tube in the water tank as much as possible until it's fixed in the water tank, then insert the temperature sensor into the temperature sensor hole on the tank till it's fixed by the elastic slice inside the water tank. Please make sure the elastic slice can hold the temperature sensor in place. then put the plastic cover back on the water tank and screw tightly the plastic nut to fix the sensor cable.



Note: There are two reserved places for temperature sensor on the top and bottom of water tank, please choose the suitable ones according to real application.

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