

Manual instalare si operare Boiler 2 in 1 ACM+BUFFER

MWT-200/50-HA(2.6) MWT-250/95-HA(2.6)

Nota: Va rugam sa cititi acest manual inainte de utilizarea produsului si pastrati-l pentru referinte ulterioare.

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1. Avantajele utilizarii boilerului 2 in 1

a) Boilerul 2 in 1 integreaza functia de producere ACM + buffer pentru incalzire(sau racire), cu performante excelente de izolare termica, o structura compacta, instalare si constructie simpla, economisind mult din spatiu si costurile de instalare.

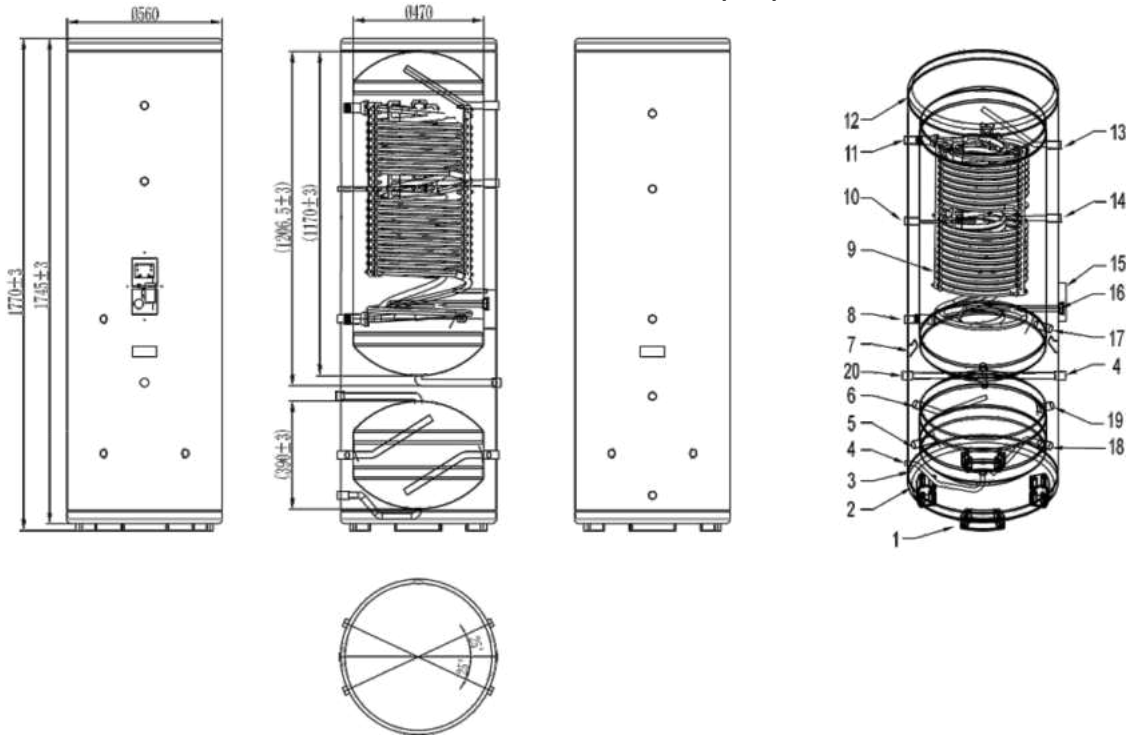
b) Rezervorul de ACM utilizeaza incalzirea indirecta de la o suprafata mare de serpentina interioara pentru a preveni introducerea de impuritati in sistemul de ACM.

c) Pentru partea interioara a rezervorului de ACM este folosit otelul inoxidabil SUS 316L, obtinandu-se astfel o rezistenta la coroziune mult mai buna.

d) In constructia rezervorului au fost folosite tehnologii de sudura avansate care efectiv pot imbunatati calitatea si rezistenta acesteia si, totodata, pot prelungi durata de viata a rezervorului.

2. Structura si functionalitate

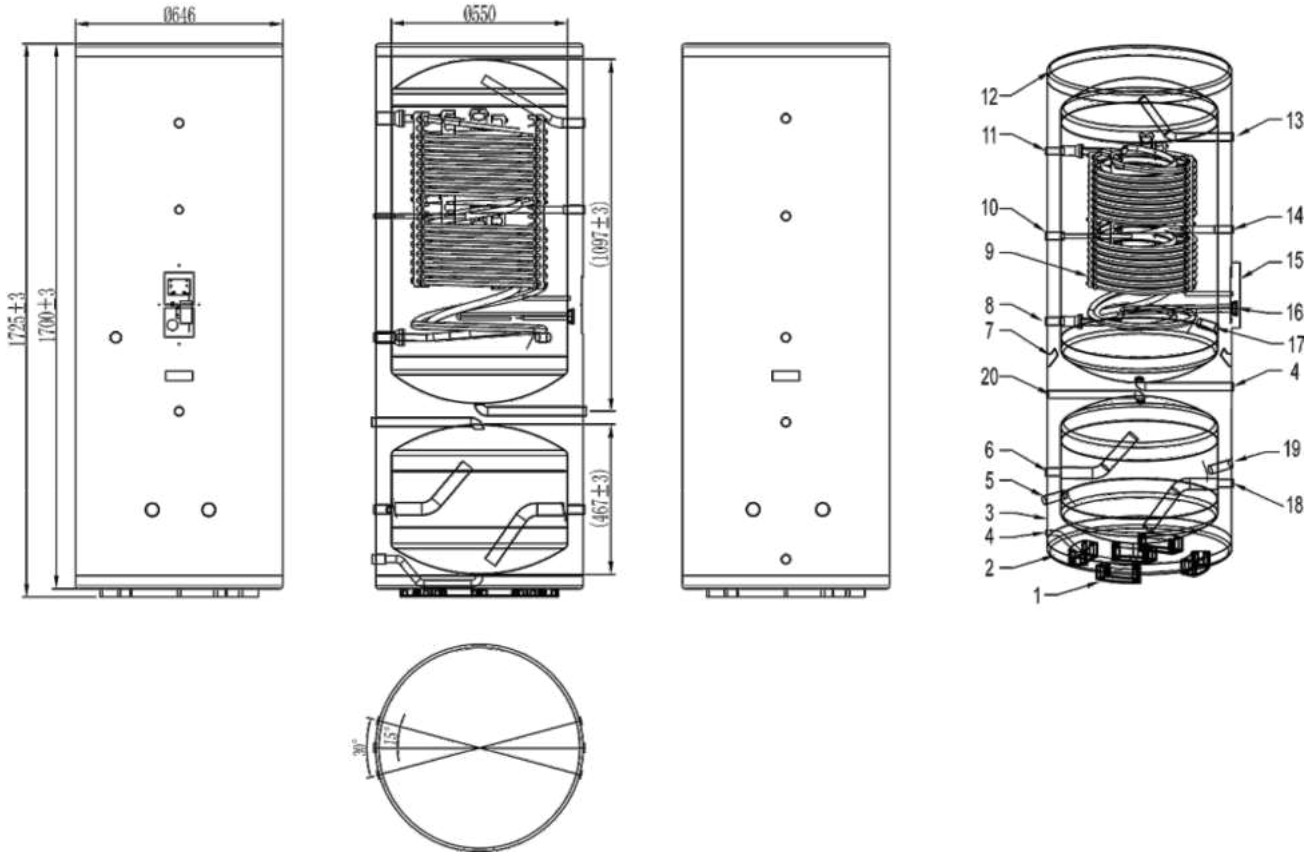
Model-MWT-200/50-HA(2.6) - 200 litri



Nr.	Denumire	Marime	Material	U.M.	Cantitate
1	Suporti plastic	/	Plastic	BUC	5
2	Cadru	/	Tabla vopsita	BUC	1
3	Invelis boiler	/	Tabla vopsita	BUC	1
4	Port drenare	G1/2 Filet interior	Otel inox	BUC	1
5	Retur Pp caldura	G1 Filet interior	Otel inox	BUC	1

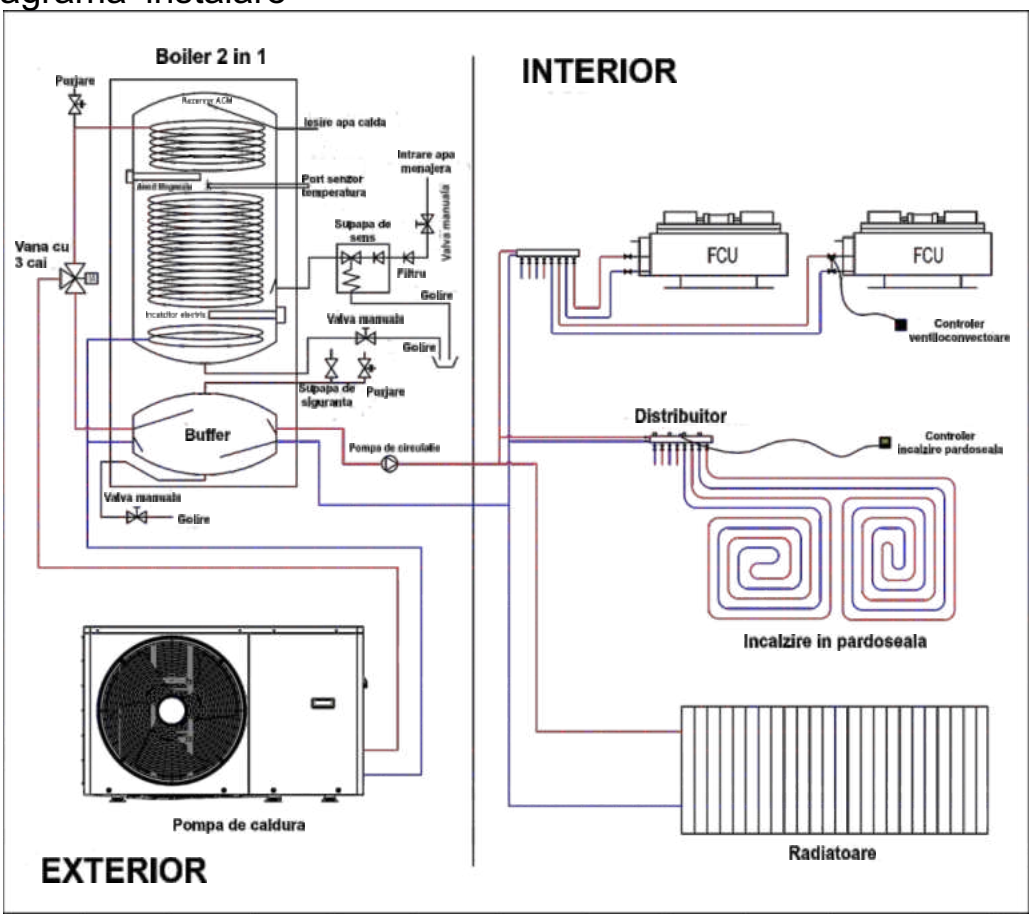
6	Tur Pp caldura	G1 Filet interior	Otel inox	BUC	1
7	Manere		ABS	BUC	2
8	Iesire serpentina boiler	G1 Filet interior	Otel inox	BUC	1
9	Serpentina	37.5 metri	Otel inox	BUC	1
10	Senzor temperatura	PG9 Filet interior	Otel inox	BUC	1
11	Intrare serpentina boiler	G1Filet interior	Otel inox	BUC	1
12	Capac superior	/	Tabla vopsita	BUC	1
13	Iesire ACM	G3/4 Filet interior	Otel inox	BUC	1
14	Anod magneziu	G3/4 Filet interior	Otel inox	BUC	1
15	Capac incalzitor electric	/	Tabla vopsita	BUC	1
16	Incalzitor electric	G1 Filet interior	Otel inox	BUC	1
17	Intrare apa rece	G3/4 Filet interior	Otel inox	BUC	1
18	Retur instalatie	G1 Filet interior	Otel inox	BUC	1
19	Tur instalatie	G1 Filet interior	Otel inox	BUC	1
20	Supapa siguranta+aerisitor	G1/2 Filet interior	Otel inox	BUC	1

Model MWT-250/95-HA(2.6) - 250 litri



Nr.	Denumire	Marime	Material	UM	Cantitate
1	Suporti plastic	/	Plastic	BUC	5
2	Cadru	/	Tabla vopsita	BUC	1
3	Invelis boiler	/	Tabla vopsita	BUC	1
4	Port drenare	G1/2 Filet interior	Otel inox	BUC	1
5	Retur Pp caldura	G1 1/4 Filet interior	Otel inox	BUC	1
6	Tur Pp caldura	G1 1/4 Filet interior	Otel inox	BUC	1
7	Maner	/	ABS	BUC	2
8	Iesire serpentina boiler	G1 Filet interior	Otel inox	BUC	1
9	Serpentina	37.5 Metri	Otel inox	BUC	1
10	Senzor temperatura	PG9 Filet interior	Otel inox	BUC	1
11	Intrare serpentina boiler	G1 Filet interior	Otel inox	BUC	1
12	Capac superior	/	Tabla vopsita	BUC	1
13	Iesire ACM	G3/4 Filet interior	Otel inox	BUC	1
14	Anod magneziu	G3/4 Filet interior	Otel inox	BUC	1
15	Capac incalzitor electric	/	Tabla vopsita	BUC	1
16	Incalzitor electric	G1 Filet interior	Otel inox	BUC	1
17	Intrare apa rece	G3/4 Filet interior	Otel inox	BUC	1
18	Retur instalatie	G1 1/4 Filet interior	Otel inox	BUC	1
19	Tur instalatie	G1 1/4 Filet interior	Otel inox	BUC	1
20	Supapa siguranta+aerisitor	G 1/2 Filet interior	Otel inox	BUC	1

3. Diagrama instalare

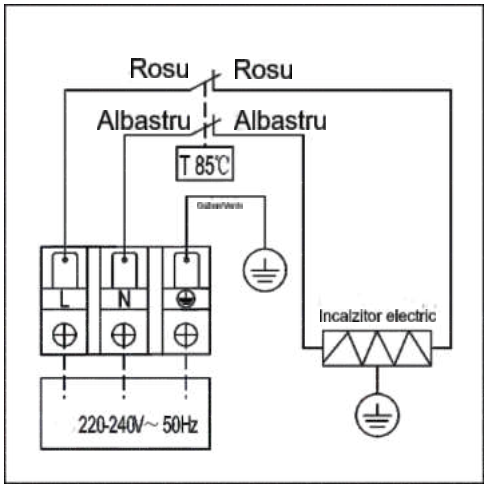


4. Specificatiii

Specificatii boiler 2 in 1

Rezervor ACM	Capacitate (litri)	250	200
	Diametru(mm)	φ550	φ470
	Material rezervor (optional)	SUS 316	SUS 316
	Grosime material rezervor interior(mm)	1.5	1.5
	Conexiune circulatie apa (inch)	G1 filet interior	G1 filet interior
	Conexiune iesira apa calda (inch)	G3/4 filet interior	G3/4 filet interior
	Intrare apa rece&golire(inch)	G3/4 filet interior	G3/4 filet interior
	Anod Magneziu (mm)	φ22*300	φ22*300
	Senzor temperatura apa	port prevazut	port prevazut
	Putere rezistenta electrica incalzire (kW/V)	1.5/220	1.5/220
	Controler temperatura (℃)	85	85
	Presiune max. lucru apa (bar)	10	10
Serpentina	Material serpentina	SUS316	SUS316
	Serpentina	φ22*1.0*37500	φ22*1.0*37500
	Schimbator de caldura(m^2)	2.6	2.6
	Presiune max. lucru apa (bar)	15	15
Buffer	Capacitate(litri)	95L	50L
	Diametru(mm)	φ550	φ470
	Material rezervor	SUS304	SUS304
	Grosime material rezervor interior(mm)	1.5	1.5
	Porturi circulatie apa	4	4
	Conexiuni porturi circulatie apa (inch)	G1.1/4 filet interior	G1filet interior
	Conexiuni port golire (inch)	G1/2 filet interior	G1/2 filet interior
	Presiune max. lucru apa (bar)	10	
	Supapa siguranta	3 bar	
Altele	Culoare invelis exterior(optional)	alb/argintiu	
	Material invelis exterior	otel galvanizat	
	Grosime invelis exterior(mm)	0.5	
	Material izolatie	Spuma Poliuretanica	
	Dimensiuni（mm）	φ646*1740	φ560*1765
	Greutate Neta（kg）	90	76
	Dimensiuni ambalaj（mm）	686*686*1865	630*630*1920
	Greutate bruta（kg）	103	86

Schema electrica



5. Note finale:

1) Produsul se instaleaza pe podea; cladirea trebuie sa suporte greutatea totala a boilerului incarcat cu apa.

2) Montajul se va efectua in asa maniera incat sa ramana suficient spatiu pentru verificari si intretineri ulterioare. Cutia de legaturi electrice si supapa de siguranta trebuie orientate astfel incat sa poata fi usor accesate pentru lucrari de intretinere.

3) Tevile de conectare trebuie sa fie cat mai scurte pentru a reduce pierderea de caldura.

4) Pentru asigurarea unei bune functionari, este recomandata verificarea cablajelor si a calitatii apei la fiecare 3 luni in timpul sezonului de utilizare, precum si gradul de umplere al rezervoarelor.

5) Curatati filtrul cat mai des cu putinta pentru a mentine o calitate buna a apei. Lipsa apei sau apa murdara pot afecta siguranta si eficienta sistemului.

6) In sezonul rece, nu deconectati boilerul de la alimentarea cu energie electrica, exista riscul de inghet si deteriorarea acestuia.

7) In cazul unui consum constant de apa, este recomandat sa setati temperatura apei la 40-45 grade. Acest lucru poate reduce pierderea de caldura din rezervorul de apa, consumul de energie si depunerile pe peretii acestuia.

8) Este recomandat ca prima verificare a anodului de magneziu din rezervorul de ACM sa fie facuta in primele 3-6 luni, iar intervalul pentru verificari ulterioare va fi determinat in functie starea acestuia, in general fiind la fiecare 6-12 luni. Cand anodul de magneziu este aproape consumat, inlocuiti-l cu unul nou. In caz contrar, pot aparea deteriorari ale rezervorului foarte usor.

9) Boilerul este destinat sa functioneze impreuna cu pompa de caldura, aceasta avand o capacitate adecvată. Capacitatea de încălzire a apei calde menajere (DHW) de catre pompa de caldura ar trebui să fie calculată folosind această formulă:

$$Q \leq S/0.2m^2(kW)$$

unde:
Q (kW) reprezinta capacitatea pompei de caldura de a incalzi apa menajera
S (m^2) reprezinta suprafata desfasurata a serpentinei care realizeaza schimbul de caldura.



Two to one water tank installation and operation manual

MWT-200/50-HA(2.6) MWT-250/95-HA(2.6)

Notes: Please read this manual before using this product and keep it properly for reference

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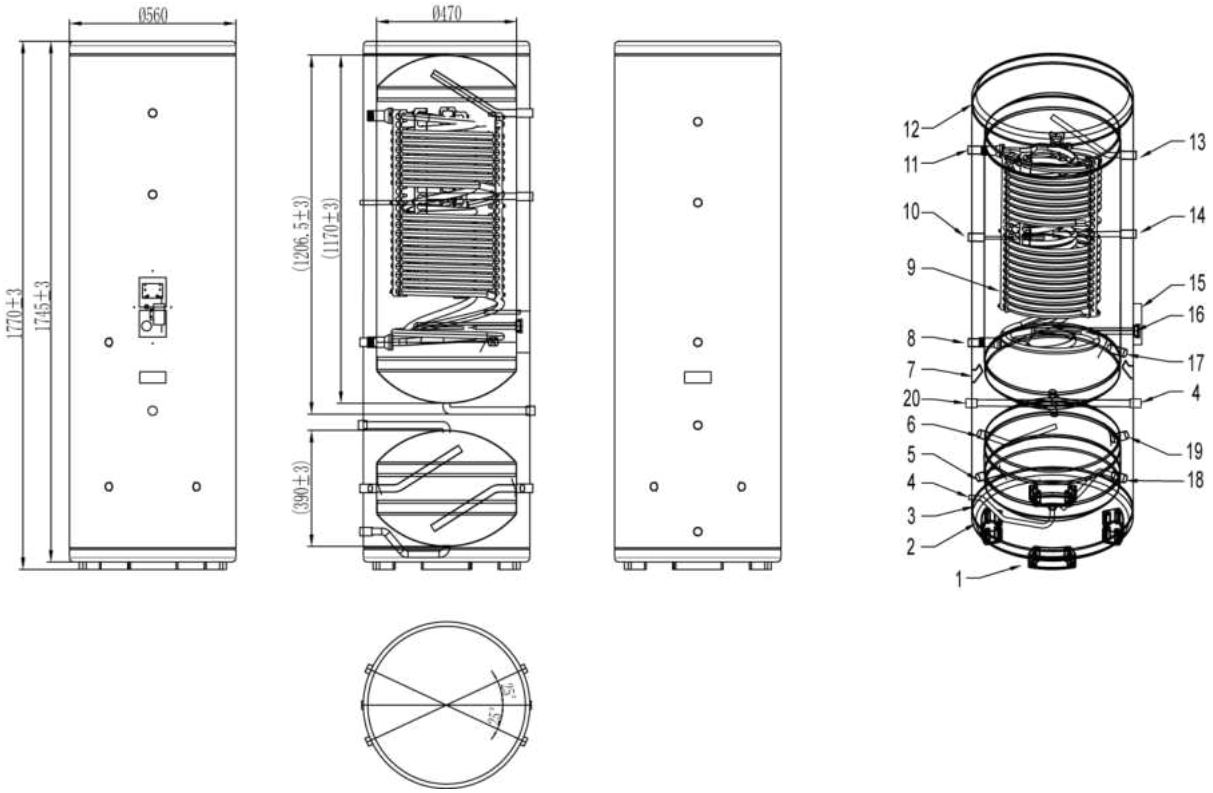
V、 Notes: 7

I、The advantages of two in one water tank

1. The two in one water tank integrates the function of DHW water + heating (refrigeration) buffer water tank, with excellent thermal insulation performance, compact structure, convenient installation and construction, save a lot of installation costs and space.
2. The domestic hot water tank adopts a large area of internal coil indirect heating, to prevent the heating (refrigeration) side dirties into the hot water system.
3. SUS316L stainless steel is used as the inner material of the domestic hot water tank, with better overall corrosion resistance.
4. The tank adopts advanced welding technology, which can effectively improve the welding quality and tensile strength and prolong the service life of the tank.

II、Structure and function definition of each water port

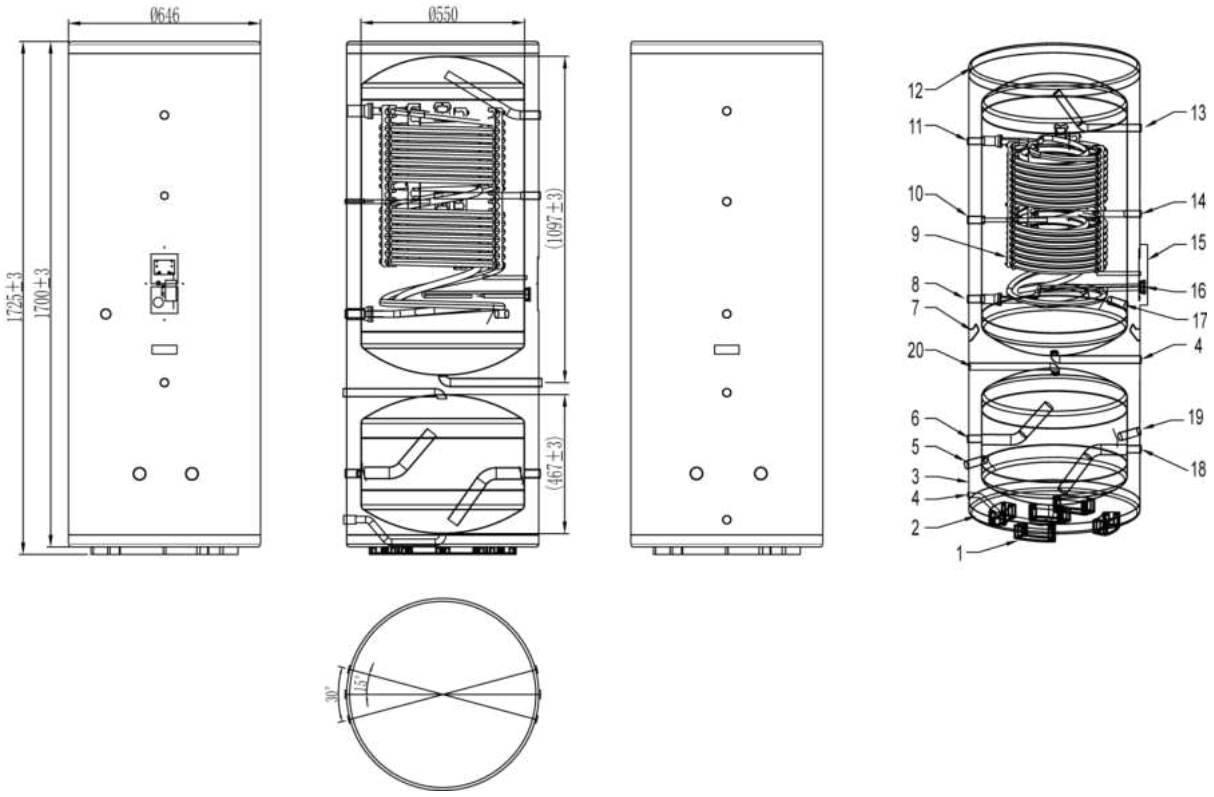
MWT-200/50-HA(2.6)



20	Relivef value port	G1/2 "	Stainless steel	PCS	1
19	Water to terminals	G1 "		PCS	1
18	Water from terminals	G1 "		PCS	1
17	Tap water inlet	G3/4 "		PCS	1
16	Electric heater port	G1 "		PCS	1
15	Electric heater cover	/	Color plate	PCS	1
14	Magnesium Anode port	G3/4 "	Stainless steel	PCS	1
13	Hot water output	G3/4 "		PCS	1
12	Top cover	/	Color plate	PCS	1

11	Hot water from HP	G1 "	Stainless steel	PCS	1
10	Water Temp. sensor port	PG9 "		PCS	1
9	Coiled tube	37.5 Meters		PCS	1
8	Hot water to HP	G1 "		PCS	1
7	Hander		ABS	PCS	2
6	Water from HP	G1 "	Stainless steel	PCS	1
5	Water to HP	G1 "		PCS	1
4	Drainage port	G1/2 "		PCS	2
3	Tank liner	/	Color plate	PCS	1
2	Chassis	/	Color plate	PCS	1
1	Plastic pads	/	Plastic	PCS	4
	Name	Size	Material	Unit	Quantity

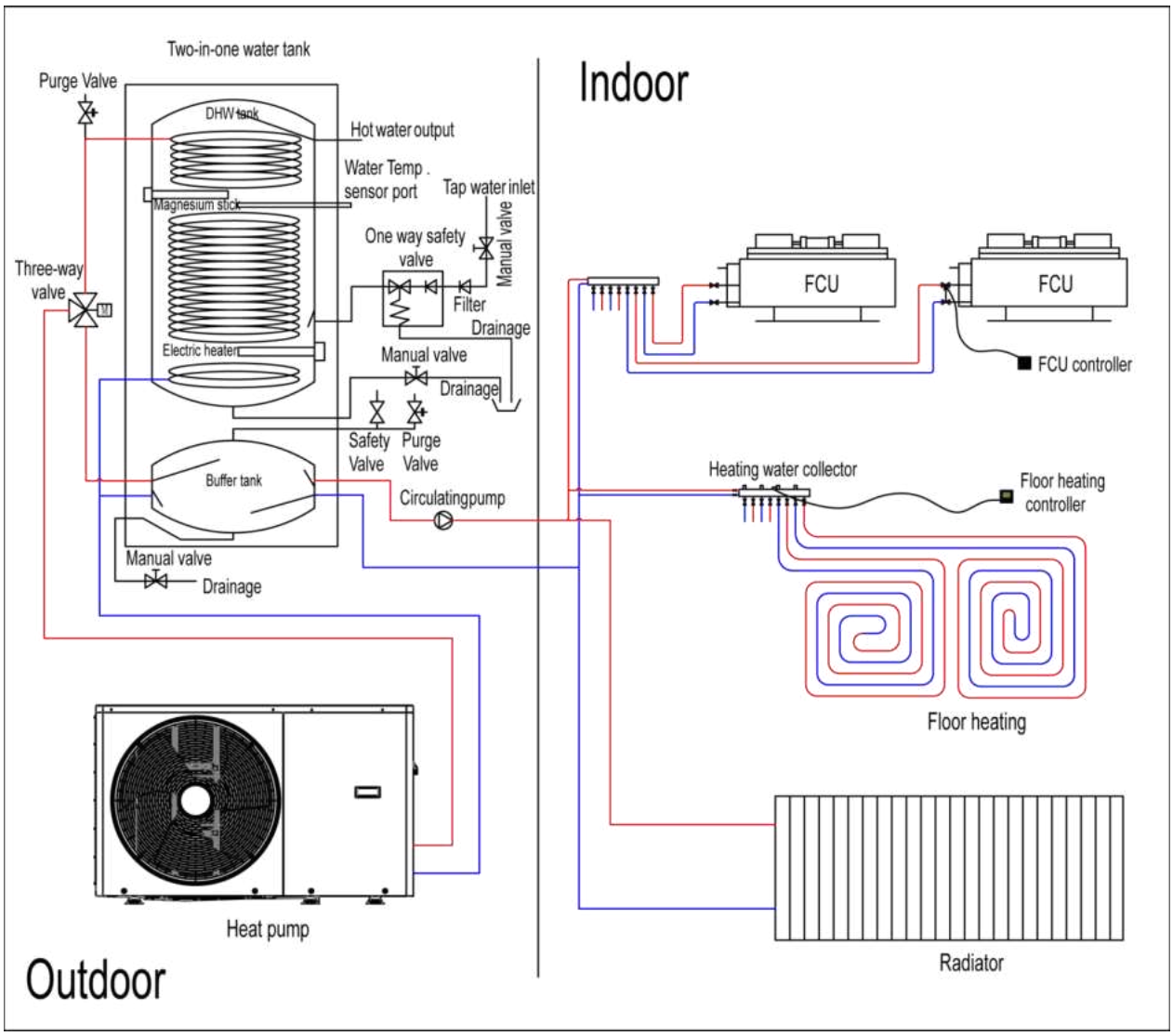
MWT-250/95-HA(2.6)



20	Relivef value port	G1/2 "	Stainless steel	PCS	1
19	Water to terminals	G1 1/4 "		PCS	1
18	Water from terminals	G1 1/4 "		PCS	1
17	Tap water inlet	G3/4 "		PCS	1
16	Electric heater port	G1 "		PCS	1
15	Electric heater cover	/	Color plate	PCS	1
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13	Hot water output	G3/4 "		PCS	1
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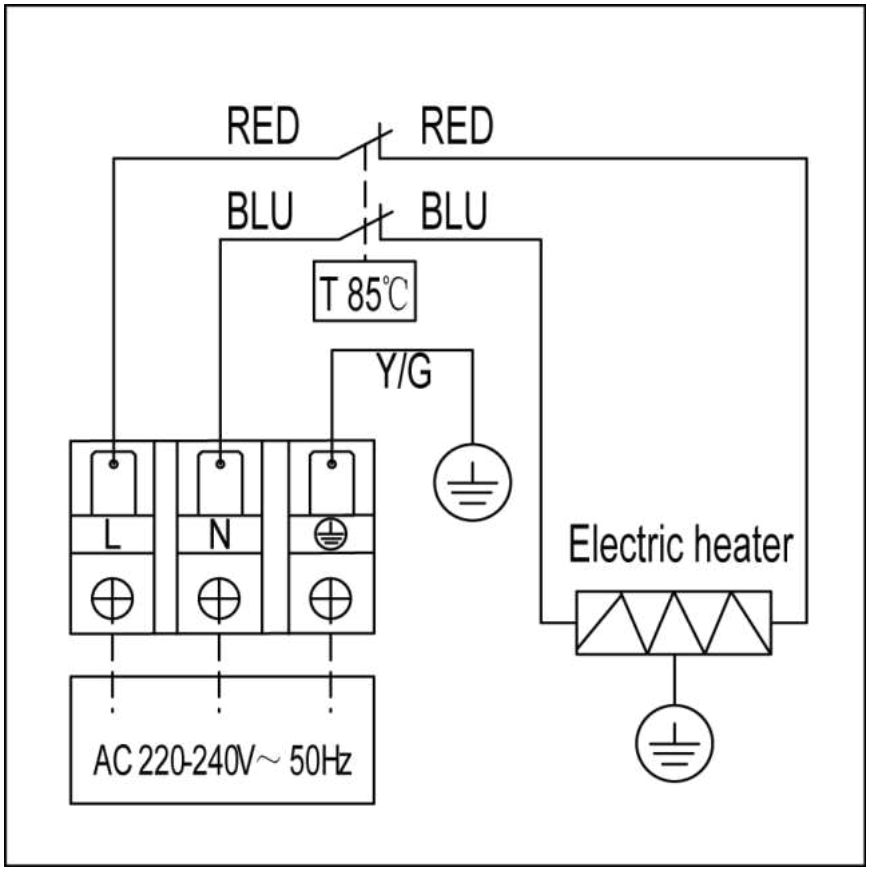
11	Hot water from HP	G1 "	Stainless steel	PCS	1
10	Water Temp. sensor port	PG9 "		PCS	1
9	Coiled tube	37.5Meters		PCS	1
8	Hot water to HP	G1 "		PCS	1
7	Hander	/	ABS	PCS	2
6	Water from HP	G1 1/4 "	Stainless steel	PCS	1
5	Water to HP	G1 1/4 "		PCS	1
4	Drainage port	G1/2 "		PCS	2
3	Tank liner	/	Color plate	PCS	1
2	Chassis	/	Color plate	PCS	1
1	Plastic pads	/	Plastic	PCS	5
	Name	Size	Material	Unit	Quantity

III、Installation diagram



Wiring diagram

Please refer to the wiring diagram on the electric box.



IV、Specification

Specification of 2-in-1 water tank

DHW tank	Rated volume(L)	250	200
	Diameter(mm)	φ550	φ470
	Material of tank (optional)	SUS316	SUS316
	Inner tank thickness(mm)	1.5	1.5
	Circulating water port (inch)	G1"	G1"
	Hot water outlet(inch)	G3/4"	G3/4"
	Cold water inlet&Drainage port(inch)	G3/4"	G3/4"
	Magnesium anode(mm)	φ22*300	φ22*300
	water temperature probe	reserve	reserve
	Electric heating power(kW/V)	1.5/220	1.5/220
	Temperature protector(℃)	85	85
	Max water operating pressure(MPa)	1.0	1.0
Coiled tube	Material of Coiled tube	SUS316	SUS316
	Coiled tube	φ22*1.0*37500	φ22*1.0*37500
	Heat exchanger(m^2)	2.6	2.6
	Max water operating pressure(MPa)	1.5	1.5
Buffer tank	Rated volume(L)	95L	50L
	Diameter(mm)	φ550	φ470
	Material of tank	SUS304	SUS304
	Inner tank thickness(mm)	1.5	1.5
	Quantity of circulating water port	4	4
	Circulating water (inch)	G1 1/4"	G1"
	Drainage port(inch)	G1/2"	G1/2"
	Max water operating pressure(MPa)	1.0	
	Safety Valve	0.3MPa	
Others	Outside tank color(optional)	white/silver	
	Outside tank material	galvanized steel	
	Outside tank thickness(mm)	0.5	
	Foaming material	PU foam	
	Net Dimensions（mm）	φ646*1740	φ560*1765
	Net weight（kg）	90	76
	Packing Dimensions（mm）	686*686*1865	630*630*1920
	Gross weight（kg）	103	86

V、Notes:

1. The product shall be installed on the ground, and the building must be able to bear the total weight of the product filled with water.
2. There should be enough space for maintenance and inspection around the product, and electrical junction box and pressure safety valve should be oriented to the direction which is easier for maintenance.
3. The connecting pipeline should be as short as possible to reduce the heat loss.
4. In order to ensure the best operation of the unit, it is recommended to check the wiring and water condition of the unit every 3 months during the operation season, to check whether the system is short of water.
5. Clean the filter regularly to maintain good water quality. Lack of water and dirty water will affect system security and efficiency.
6. In cold season, the unit should not turn off the power supply, otherwise, the water in the water tank will freeze and damage the water tank;
7. In the case of sufficient water consumption, it is recommended to set the water temperature of 40-45 degrees, which can reduce the heat loss of the water tank, save energy consumption and reduce the generation of scale.
8. The first inspection of the anode magnesium rod of the domestic hot water tank is recommended to be carried out in 3-6 months, and the subsequent interval inspection time is determined according to the actual consumption of the magnesium rod, which is generally once every 6-12 months. But when it is close to the end of consumption, it should be replaced in time, otherwise it is easy to damage the liner.
9. The water tank is intended to work with the heat pump unit with proper capacity. The capacity of the DHW heating capacity of the heat pump unit should be calculated using this formula:

$$Q \leq S / 0.2\ m^2(kW)$$

where:
Q (kW) is the DHW heating capacity of the heat pump unit,
S (m^2) is the heat-exchanging area of the coil.

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