

Service Manual



Series



MV6-252WV2GN1-E

MV6-280WV2GN1-E

MV6-335WV2GN1-E

MV6-400WV2GN1-E

MV6-450WV2GN1-E

MV6-500WV2GN1-E

MV6-560WV2GN1-E

MV6-615WV2GN1-E

MV6-670WV2GN1-E

MV6-730WV2GN1-E

MV6-785WV2GN1-E

MV6-850WV2GN1-E

MV6-900WV2GN1-E

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Part 1

General Information

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1 Indoor and Outdoor Unit Capacities

1.1 Indoor Units

1.1.1 Standard indoor units

Table 1-1.1: Standard indoor unit abbreviation codes

Abbreviation code	Type
Q1	One-way Cassette
Q2	Two-way Cassette
Q4C	Compact Four-way Cassette
Q4	Four-way Cassette
T2	Medium Static Pressure Duct

Abbreviation code	Type
T1	High Static Pressure Duct
G	Wall-mounted
DL	Ceiling & Floor
F	Floor Standing
Z	Console

Table 1-1.2: Standard indoor unit capacity range

Capacity		Capacity index	Q1	Q2	Q4C	Q4	T2	T1	G	DL	F	Z
kW	HP											
1.8	0.6	18	18	—	—	—	—	—	—	—	18	—
2.2	0.8	22	22	22	22	—	22	—	22	—	22	22
2.8	1	28	28	28	28	28	28	—	28	—	28	28
3.6	1.25	36	36	36	36	36	36	—	36	36	36	36
4.5	1.6	45	45	45	45	45	45	—	45	45	45	45
5.6	2	56	56	56	—	56	56	—	56	56	56	—
7.1	2.5	71	71	71	—	71	71	71	71	71	71	—
8.0	3	80	—	—	—	80	80	80	80	80	80	—
9.0	3.2	90	—	—	—	90	90	90	90	90	90	—
10.0	3.6	100	—	—	—	100	—	—	—	—	—	—
11.2	4	112	—	—	—	112	112	112	—	112	—	—
14.0	5	140	—	—	—	140	140	140	—	140	—	—
16.0	6	160	—	—	—	—	—	160	—	160	—	—
20.0	7	200	—	—	—	—	—	200	—	—	—	—
25.0	9	250	—	—	—	—	—	250	—	—	—	—
28.0	10	280	—	—	—	—	—	280	—	—	—	—
40.0	14	400	—	—	—	—	—	400	—	—	—	—
45.0	16	450	—	—	—	—	—	450	—	—	—	—
56.0	20	560	—	—	—	—	—	560	—	—	—	—

1.1.2 Fresh air processing unit

Table 1-1.3: Fresh air processing unit capacity range

Capacity	12.5kW	14kW	20kW	25kW	28kW
Capacity index	125	140	200	250	280

1.2 Heat recovery ventilator

Table 1-1.4: Heat recovery ventilator capacity range

Capacity	200m ³ /h	300m ³ /h	400m ³ /h	500m ³ /h	800m ³ /h	1000m ³ /h	1500m ³ /h	2000m ³ /h
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1.3 Outdoor Units
Table 1-1.5: Outdoor unit capacity range

Capacity	Model Name	Combination Type
8HP	MV6-252WV2GN1	/
10HP	MV6-280WV2GN1	/
12HP	MV6-335WV2GN1	/
14HP	MV6-400WV2GN1	/
16HP	MV6-450WV2GN1	/
18HP	MV6-500WV2GN1	/
20HP	MV6-560WV2GN1	/
22HP	MV6-615WV2GN1	/
24HP	MV6-670WV2GN1	/
26HP	MV6-730WV2GN1	/
28HP	MV6-785WV2GN1	/
30HP	MV6-850WV2GN1	/
32HP	MV6-900WV2GN1	/
34HP	MV6-950WV2GN1	12HP+22HP
36HP	MV6-1015WV2GN1	14HP+22HP
38HP	MV6-1065WV2GN1	16HP+22HP
40HP	MV6-1120WV2GN1	12HP+28HP
42HP	MV6-1175WV2GN1	20HP+22HP
44HP	MV6-1230WV2GN1	22HP+22HP
46HP	MV6-1285WV2GN1	22HP+24HP
48HP	MV6-1345WV2GN1	22HP+26HP
50HP	MV6-1400WV2GN1	22HP+28HP
52HP	MV6-1460WV2GN1	26HP+26HP
54HP	MV6-1515WV2GN1	26HP+28HP
56HP	MV6-1570WV2GN1	28HP+28HP
58HP	MV6-1635WV2GN1	28HP+30HP
60HP	MV6-1685WV2GN1	28HP+32HP
62HP	MV6-1750WV2GN1	30HP+32HP
64HP	MV6-1800WV2GN1	32HP+32HP
66HP	MV6-1850WV2GN1	12HP+22HP+32HP
68HP	MV6-1915WV2GN1	14HP+22HP+32HP
70HP	MV6-1965WV2GN1	16HP+22HP+32HP
72HP	MV6-2020WV2GN1	12HP+28HP+32HP
74HP	MV6-2075WV2GN1	20HP+22HP+32HP
76HP	MV6-2130WV2GN1	22HP+22HP+32HP
78HP	MV6-2185WV2GN1	22HP+24HP+32HP
80HP	MV6-2245WV2GN1	22HP+26HP+32HP
82HP	MV6-2300WV2GN1	22HP+28HP+32HP
84HP	MV6-2360WV2GN1	26HP+26HP+32HP
86HP	MV6-2415WV2GN1	26HP+28HP+32HP
88HP	MV6-2470WV2GN1	28HP+28HP+32HP
90HP	MV6-2535WV2GN1	28HP+30HP+32HP
92HP	MV6-2585WV2GN1	28HP+32HP+32HP
94HP	MV6-2650WV2GN1	30HP+32HP+32HP
96HP	MV6-2700WV2GN1	32HP+32HP+32HP

Notes:



- The combinations of units shown in the table are factory-recommended. Other combinations of units are also possible.

2 External Appearance

2.1 Indoor Units

2.1.1 Standard indoor units

Table 1-2.1: Standard indoor unit appearance

One-way Cassette Q1 	Two-way Cassette Q2 
Compact Four-way Cassette Q4C 	Four-way Cassette Q4 
Medium Static Pressure Duct T2 	High Static Pressure Duct T1 
Wall-mounted G 	Ceiling & Floor DL 
Floor Standing F 	Console Z 


2.1.2 Fresh air processing unit

Table 1-2.2: Fresh air processing unit appearance





Fresh Air Processing Unit FA 
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2.2 Heat Recovery Ventilator













Table 1-2.3: Heat recovery ventilator appearance

Heat Recovery Ventilator 

2.3 Outdoor Units
2.3.1 Single units
Table 1-2.4: Single outdoor unit appearance

8/10/12HP (with single fan)	14/16HP (with single fan)	18/20/22HP (with dual fans)	24/26/28/30/32HP (with dual fans)
			

2.3.2 Combinations of units
Table 1-2.5: Combination outdoor unit appearance

34HP 	36/38HP 	40HP 
42/44HP 	46/48/50HP 	52/54/56/58/60/62/64HP 
66HP 	68/70HP 	72HP 
74/76HP 	78/80/82HP 	84/86/88/90/92/94/96HP 

4 Combination Ratio

$$\text{Combination ratio} = \frac{\text{Sum of capacity indexes of the indoor units}}{\text{Capacity index of the outdoor units}}$$

Table 1-5.1: Indoor and outdoor unit combination ratio limitations

Type	Minimum combination ratio	Maximum combination ratio		
		Standard indoor units only	Fresh air processing units only	Fresh air processing units and standard indoor units together
V6 Series outdoor units	50%	130%	100%	100% ¹

Notes:

- When fresh air processing units are installed together with standard indoor units, the total capacity of the fresh air processing units must not exceed 30% of the total capacity of the outdoor units and the combination ratio must not exceed 100%.

Table 1-5.2: Combinations of Indoor and outdoor units

Outdoor unit capacity			Sum of capacity indexes of connected indoor units (standard indoor units only)	Sum of capacity indexes of connected indoor units (fresh air processing units and standard indoor units together)	Maximum number of connected indoor units
kW	HP	Capacity index			
25.2	8	252	126 to 327.6	126 to 252	13
28.0	10	280	140 to 364	140 to 280	16
33.5	12	335	167.5 to 435.5	167.5 to 335	20
40.0	14	400	200 to 520	200 to 400	23
45.0	16	450	225 to 585	225 to 450	26
50.0	18	500	250 to 650	250 to 500	29
56.0	20	560	280 to 728	280 to 560	33
61.5	22	615	307.5 to 799.5	307.5 to 615	36
67.0	24	670	335 to 871	335 to 670	39
73.0	26	730	365 to 949	365 to 730	43
78.5	28	785	392.5 to 1020.5	392.5 to 785	46
85.0	30	850	425 to 1105	425 to 850	50
90.0	32	900	450 to 1170	450 to 900	53
95.0	34	950	475 to 1235	475 to 950	56
101.5	36	1015	507.5 to 1319.5	507.5 to 1015	59
106.5	38	1065	532.5 to 1384.5	532.5 to 1065	63
112.0	40	1120	560 to 1456	560 to 1120	64
117.5	42	1175	587.5 to 1527.5	587.5 to 1175	
123.0	44	1230	615 to 1599	615 to 1230	
128.5	46	1285	642.5 to 1670.5	642.5 to 1285	
134.5	48	1345	672.5 to 1748.5	672.5 to 1345	
140.0	50	1400	700 to 1820	700 to 1400	
146.0	52	1460	730 to 1898	730 to 1460	
151.5	54	1515	757.5 to 1969.5	757.5 to 1515	
157.0	56	1570	785 to 2041	785 to 1570	
163.5	58	1635	817.5 to 2125.5	817.5 to 1635	
168.5	60	1685	842.5 to 2190.5	842.5 to 1685	
175.0	62	1750	875 to 2275	875 to 1750	
180.0	64	1800	900 to 2340	900 to 1800	
185.0	66	1850	925 to 2405	925 to 1850	
191.5	68	1915	957.5 to 2489.5	957.5 to 1915	
196.5	70	1965	982.5 to 2554.5	982.5 to 1965	
202.0	72	2020	1010 to 2626	1010 to 2020	
207.5	74	2075	1037.5 to 2697.5	1037.5 to 2075	
213.0	76	2130	1065 to 2769	1065 to 2130	
218.5	78	2185	1092.5 to 2840.5	1092.5 to 2185	
224.5	80	2245	1122.5 to 2918.5	1122.5 to 2245	
230.0	82	2300	1150 to 2990	1150 to 2300	
236.0	84	2360	1180 to 3068	1180 to 2360	
241.5	86	2415	1207.5 to 3139.5	1207.5 to 2415	
247.0	88	2470	1235 to 3211	1235 to 2470	
253.5	90	2535	1267.5 to 3295.5	1267.5 to 2535	
258.5	92	2585	1292.5 to 3360.5	1292.5 to 2585	
265.0	94	2650	1325 to 3445	1325 to 2650	
270.0	96	2700	1350 to 3510	1350 to 2700	

Part 2

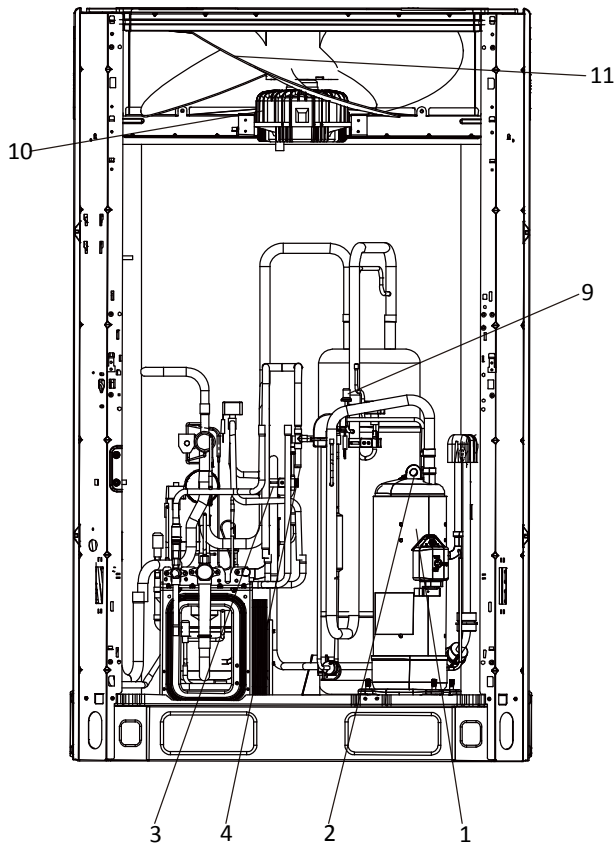
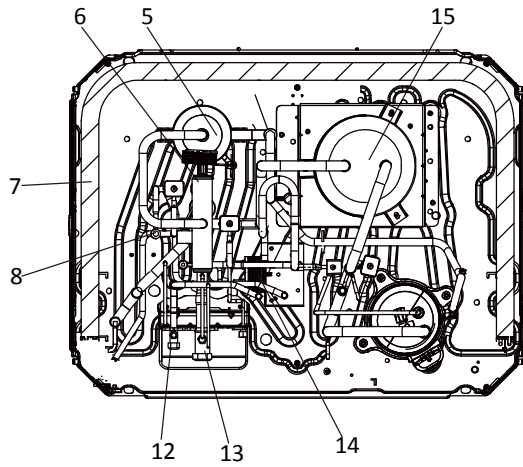
Component Layout and Refrigerant Circuits

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1 Layout of Functional Components

8/10/12HP

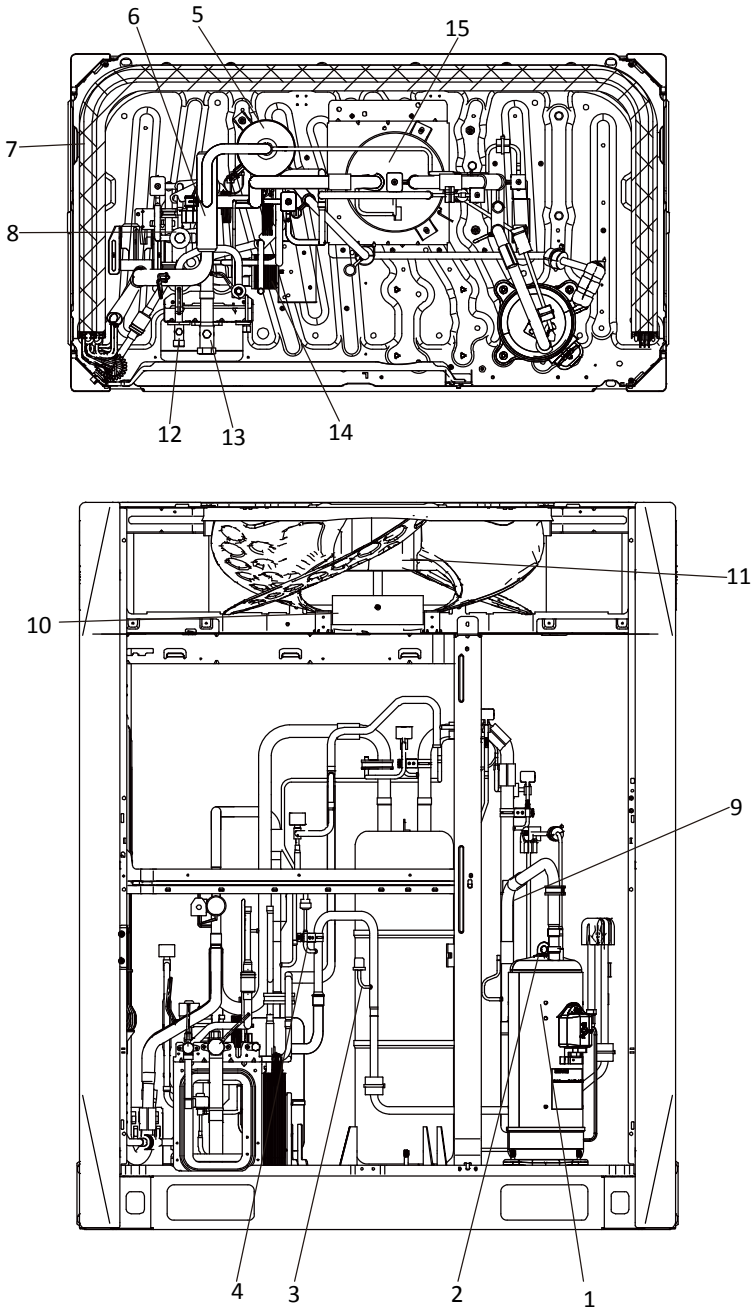
Figure 2-1.1: 8/10/12 layout of functional components



Legend	
No.	Parts name
1	Compressor
2	Discharge temperature switch
3	High pressure switch
4	High pressure sensor
5	Oil separator
6	Four-way valve
7	Heat exchanger
8	Electronic expansion valve (EXV)
9	Low pressure switch
10	Fan motor
11	Fan
12	Stop valve (liquid side)
13	Stop valve (gas side)
14	Plate heat exchanger

14/16HP

Figure 2-1.2: 14/16 layout of functional components



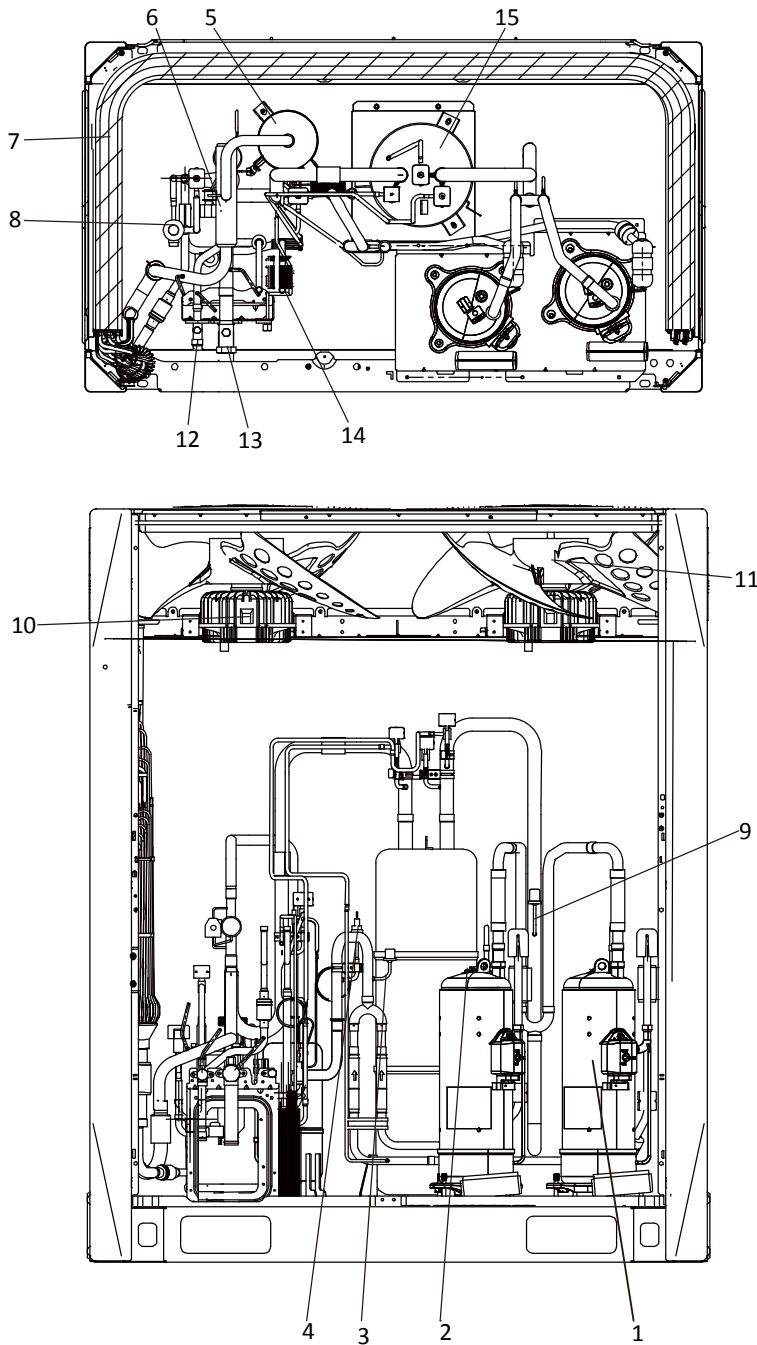
Legend	
No.	Parts name
1	Compressor
2	Discharge temperature switch
3	High pressure switch
4	High pressure sensor
5	Oil separator
6	Four-way valve
7	Heat exchanger
8	Electronic expansion valve (EXV)
9	Low pressure switch
10	Fan motor
11	Fan
12	Stop valve (liquid side)
13	Stop valve (gas side)
14	Plate heat exchanger
15	Accumulator

V6 VRF 50Hz

18/20/22HP



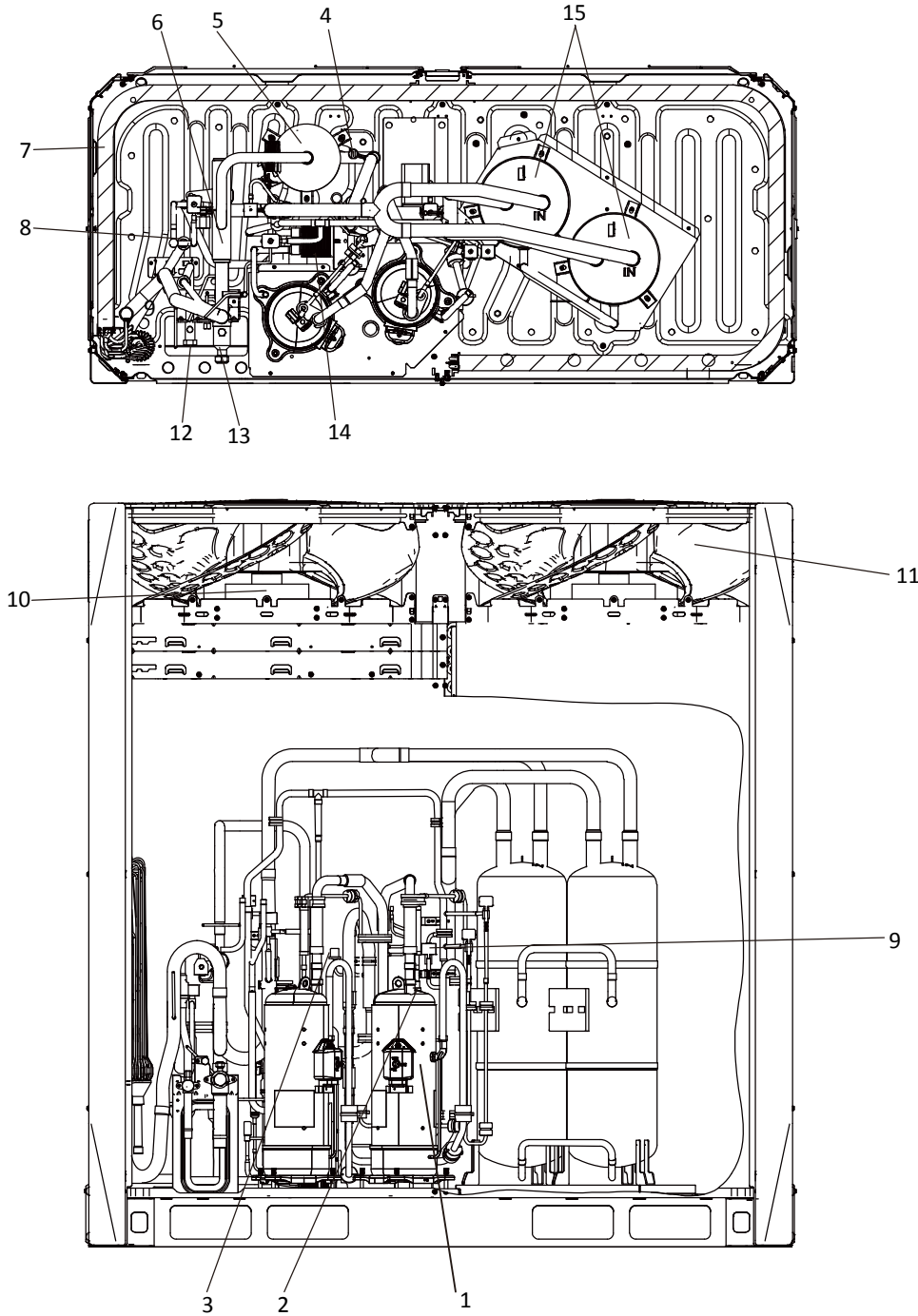
Figure 2-1.3: 18/20/22 layout of functional components



Legend	
No.	Parts name
1	Compressor
2	Discharge temperature switch
3	High pressure switch
4	High pressure sensor
5	Oil separator
6	Four-way valve
7	Heat exchanger
8	Electronic expansion valve (EXV)
9	Low pressure switch
10	Fan motor
11	Fan
12	Stop valve (liquid side)
13	Stop valve (gas side)
14	Plate heat exchanger
15	Accumulator

24/26/28/30/32HP

Figure 2-1.4: 24/26/28/30/32 layout of functional components

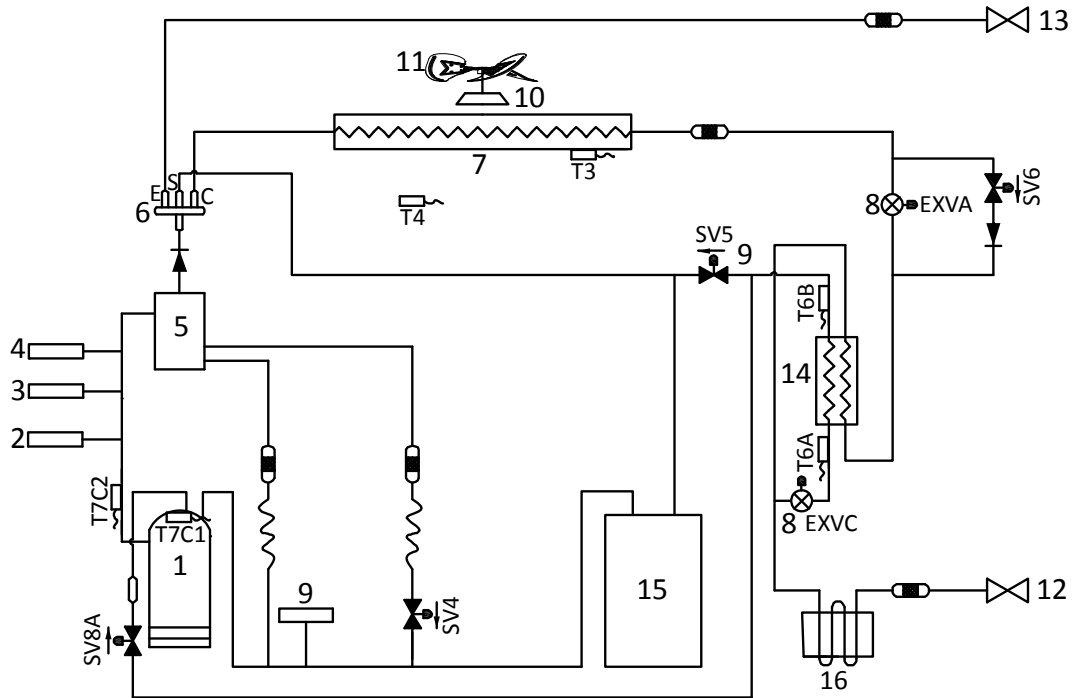


Legend	
No.	Parts name
1	Compressor
2	Discharge temperature switch
3	High pressure switch
4	High pressure sensor
5	Oil separator
6	Four-way valve
7	Heat exchanger
8	Electronic expansion valve (EXV)
9	Low pressure switch
10	Fan motor
11	Fan
12	Stop valve (liquid side)
13	Stop valve (gas side)
14	Plate heat exchanger
15	Accumulator

2 Piping Diagrams

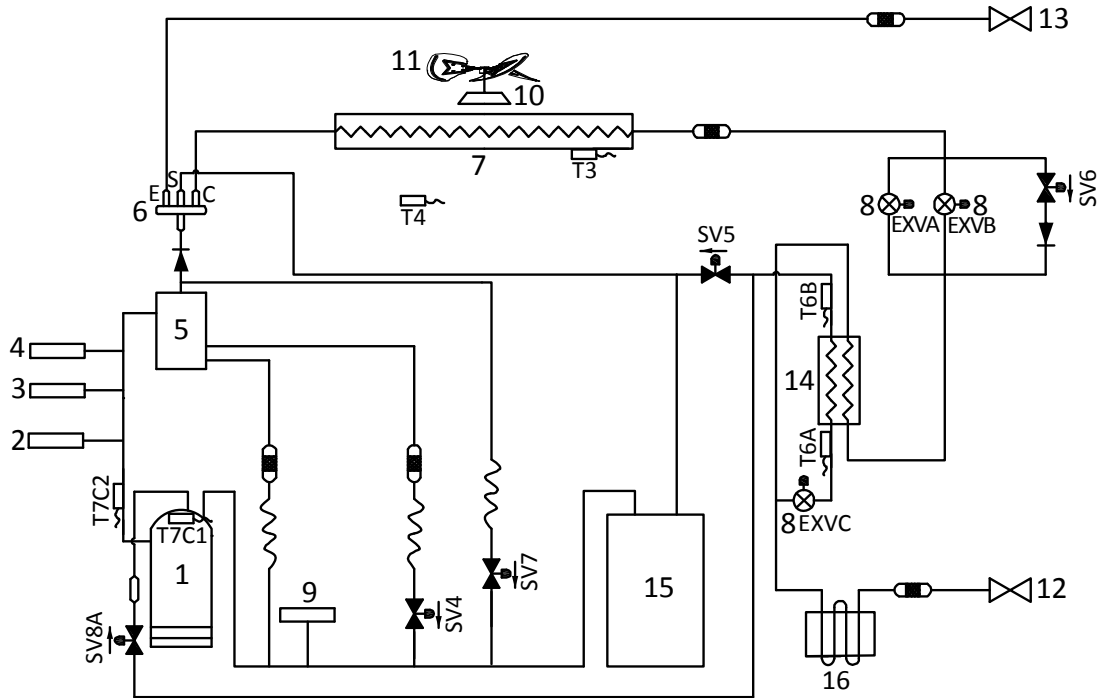
8/10/12HP

Figure 2-2.1: 8/10/12HP piping diagram



Legend		No.	Parts name
1	Compressor	14	Plate heat exchanger
2	Discharge temperature switch	15	Accumulator
3	High pressure switch	16	Heat exchanger cooling electric control box
4	High pressure sensor	T3	Heat exchanger temperature sensor
5	Oil separator	T4	Outdoor ambient temperature sensor
6	Four-way valve	T6A	Plate heat exchanger inlet temperature sensor
7	Heat exchanger	T6B	Plate heat exchanger outlet temperature sensor
8	Electronic expansion valve (EXV)	T7C1	Compressor A discharge temperature sensor
9	Low pressure switch	T7C2	Compressor B discharge temperature sensor
10	Fan motor	SV4	Oil return valve
11	Fan	SV5	Fast defrosting (in heating) and unloading (in cooling) valve
12	Stop valve (liquid side)	SV6	Refrigerant bypass EXV valve
13	Stop valve (gas side)	SV8A	Compressor A vapor injection valve

Figure 2-2.2: 14/16HP piping diagram



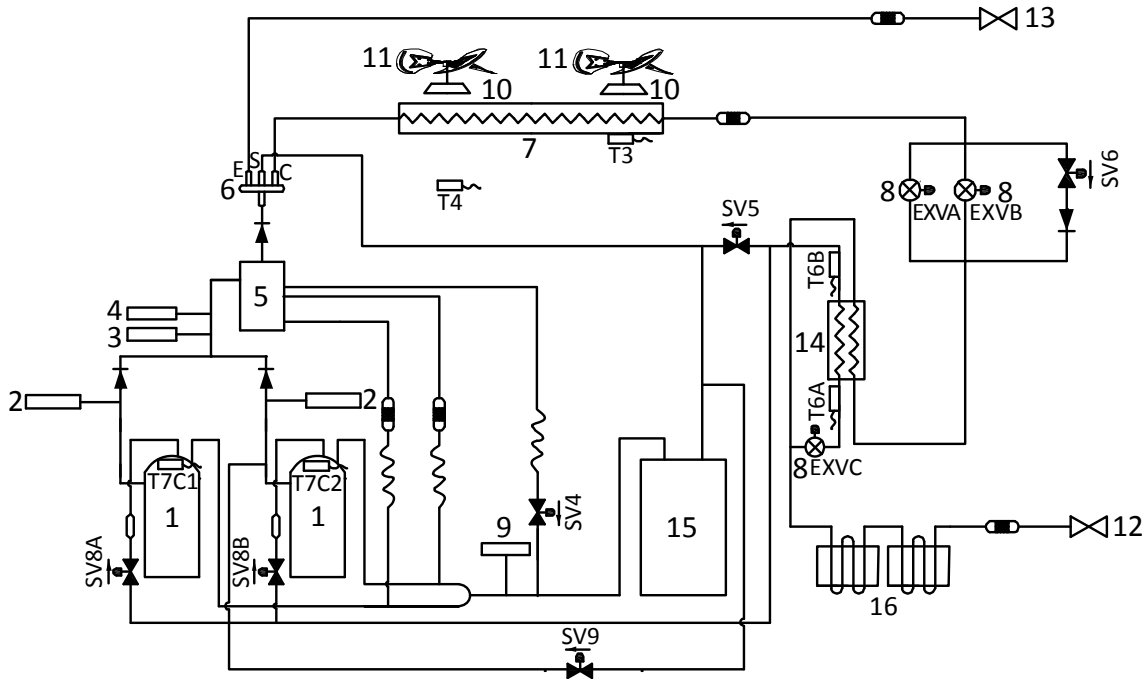
Legend		Legend	
No.	Parts name	No.	Parts name
1	Compressor	15	Accumulator
2	Discharge temperature switch	16	Heat exchanger cooling electric control box
3	High pressure switch	T3	Heat exchanger temperature sensor
4	High pressure sensor	T4	Outdoor ambient temperature sensor
5	Oil separator	T6A	Plate heat exchanger inlet temperature sensor
6	Four-way valve	T6B	Plate heat exchanger outlet temperature sensor
7	Heat exchanger	T7C1	Compressor A discharge temperature sensor
8	Electronic expansion valve (EXV)	T7C2	Compressor B discharge temperature sensor
9	Low pressure switch	SV4	Oil return valve
10	Fan motor	SV5	Fast defrosting (in heating) and unloading (in cooling) valve
11	Fan	SV6	Refrigerant bypass EXV valve
12	Stop valve (liquid side)	SV7	Refrigerant bypass indoor units valve
13	Stop valve (gas side)	SV8A	Compressor A vapor injection valve
14	Plate heat exchanger		

V6 VRF 50Hz

18/20/22HP

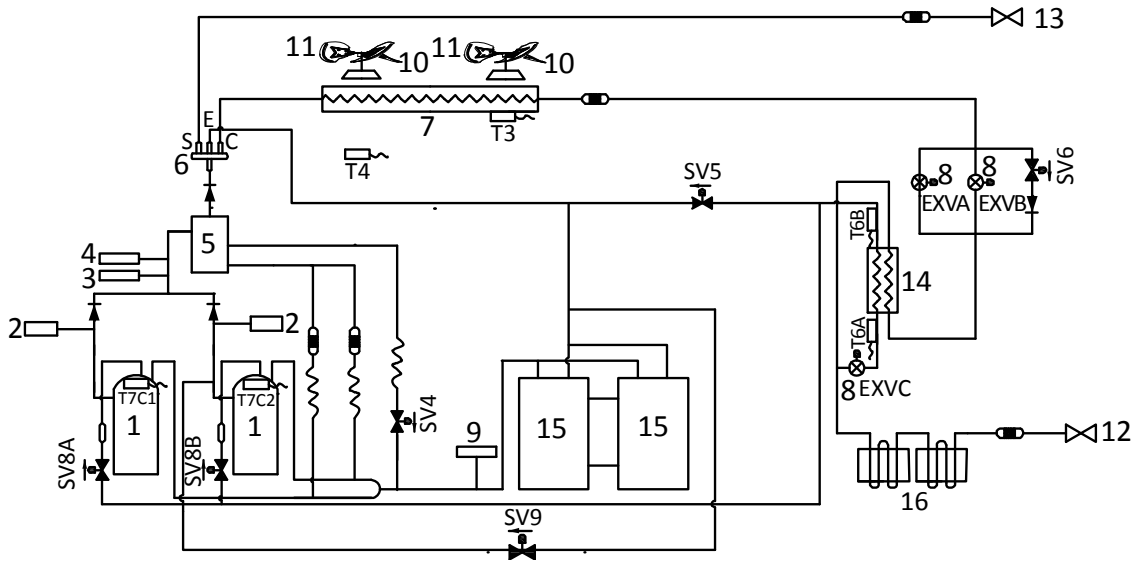


Figure 2-2.3: 18/20/22HP piping diagram



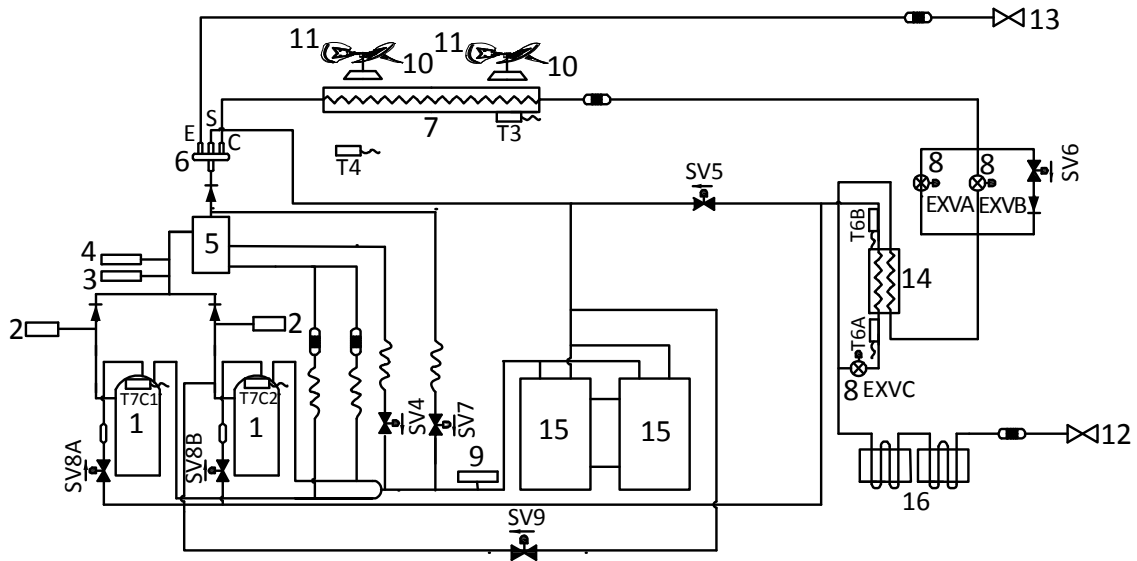
Legend		Legend	
No.	Parts name	No.	Parts name
1	Compressor	15	Accumulator
2	Discharge temperature switch	16	Heat exchanger cooling electric control box
3	High pressure switch	T3	Heat exchanger temperature sensor
4	High pressure sensor	T4	Outdoor ambient temperature sensor
5	Oil separator	T6A	Plate heat exchanger inlet temperature sensor
6	Four-way valve	T6B	Plate heat exchanger outlet temperature sensor
7	Heat exchanger	T7C1	Compressor A discharge temperature sensor
8	Electronic expansion valve (EXV)	T7C2	Compressor B discharge temperature sensor
9	Low pressure switch	SV4	Oil return valve
10	Fan motor	SV5	Fast defrosting (in heating) and unloading (in cooling) valve
11	Fan	SV6	Refrigerant bypass EXV valve
12	Stop valve (liquid side)	SV8A	Compressor A vapor injection valve
13	Stop valve (gas side)	SV8B	Compressor B vapor injection valve
14	Plate heat exchanger	SV9	Compressor B pressure balance valve

Figure 2-2.4: 24/26/28HP piping diagram



Legend		Legend	
No.	Parts name	No.	Parts name
1	Compressor	15	Accumulator
2	Discharge temperature switch	16	Heat exchanger cooling electric control box
3	High pressure switch	T3	Heat exchanger temperature sensor
4	High pressure sensor	T4	Outdoor ambient temperature sensor
5	Oil separator	T6A	Plate heat exchanger inlet temperature sensor
6	Four-way valve	T6B	Plate heat exchanger outlet temperature sensor
7	Heat exchanger	T7C1	Compressor A discharge temperature sensor
8	Electronic expansion valve (EXV)	T7C2	Compressor B discharge temperature sensor
9	Low pressure switch	SV4	Oil return valve
10	Fan motor	SV5	Fast defrosting (in heating) and unloading (in cooling) valve
11	Fan	SV6	Refrigerant bypass EXV valve
12	Stop valve (liquid side)	SV8A	Compressor A vapor injection valve
13	Stop valve (gas side)	SV8B	Compressor B vapor injection valve
14	Plate heat exchanger	SV9	Compressor B pressure balance valve

Figure 2-2.5: 30/32HP piping diagram



Legend		No.	Parts name
1	Compressor	16	Heat exchanger cooling electric control box
2	Discharge temperature switch	T3	Heat exchanger temperature sensor
3	High pressure switch	T4	Outdoor ambient temperature sensor
4	High pressure sensor	T6A	Plate heat exchanger inlet temperature sensor
5	Oil separator	T6B	Plate heat exchanger outlet temperature sensor
6	Four-way valve	T7C1	Compressor A discharge temperature sensor
7	Heat exchanger	T7C2	Compressor B discharge temperature sensor
8	Electronic expansion valve (EXV)	SV4	Oil return valve
9	Low pressure switch	SV5	Fast defrosting (in heating) and unloading (in cooling) valve
10	Fan motor	SV6	Refrigerant bypass EXV valve
11	Fan	SV7	Refrigerant bypass indoor units valve
12	Stop valve (liquid side)	SV8A	Compressor A vapor injection valve
13	Stop valve (gas side)	SV8B	Compressor B vapor injection valve
14	Plate heat exchanger	SV9	Compressor B pressure balance valve
15	Accumulator		

Key components:

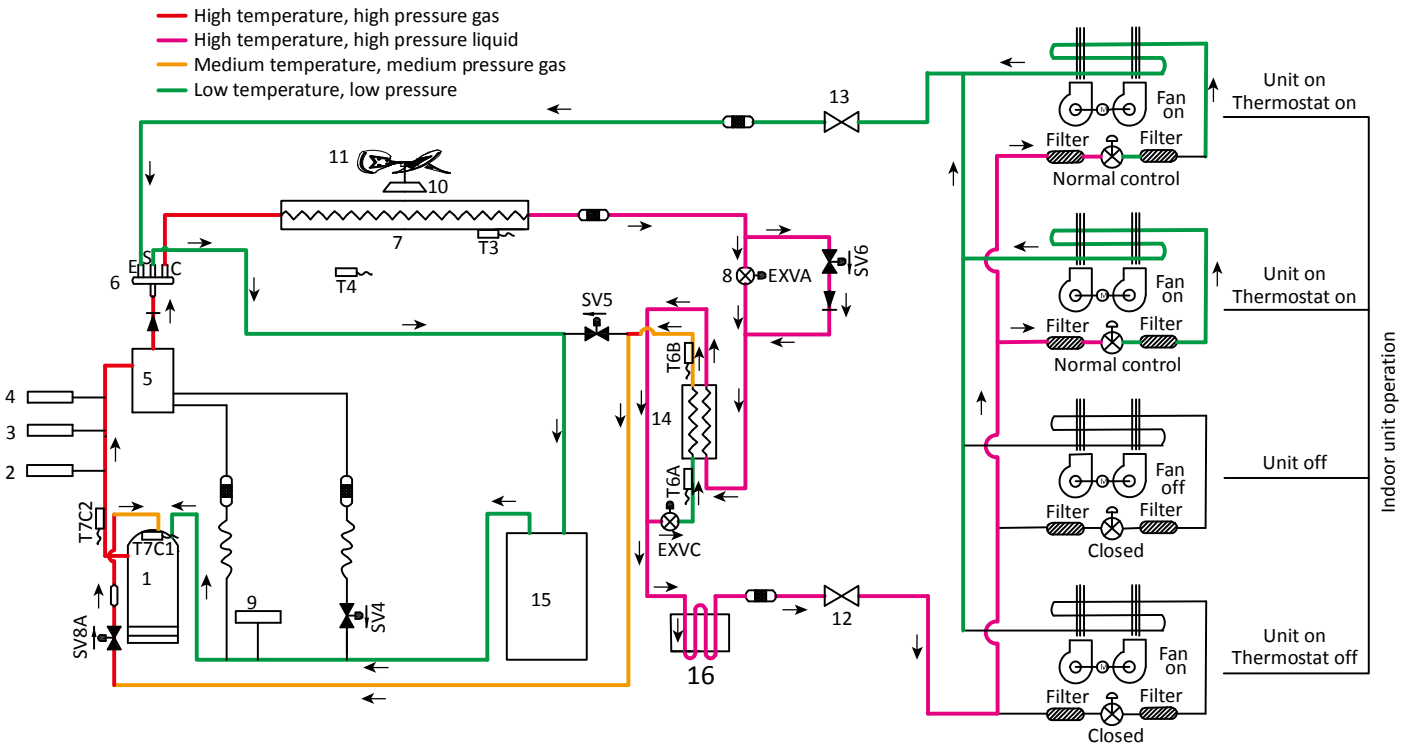
1. **Oil separator:**
Separates oil from gas refrigerant pumped out of the compressor and quickly returns it to the compressor. Separation efficiency is up to 99%.
2. **Accumulator:**
Stores liquid refrigerant and oil to protect compressor from liquid hammering.
3. **Electronic expansion valve (EXV):**
Controls refrigerant flow and reduces refrigerant pressure.
4. **Four-way valve:**
Controls refrigerant flow direction. Closed in cooling mode and open in heating mode. When closed, the heat exchanger functions as a condenser; when open, the heat exchanger functions as an evaporator.
5. **Plate heat exchanger:**
In cooling mode, it can improve super-cooling degree and the super-cooled refrigerant can achieve better heat exchange in indoor side. In heating mode, the refrigerant comes from the plate heat exchanger going to the compressor can enhance the refrigerant enthalpy and improve the heating capacity in low ambient temperature. Refrigerant volume in plate heat exchanger is controlled according to temperature different between plate heat exchanger inlet and outlet.
6. **Solenoid valve SV4:**
Returns oil to the compressor. Opens once the compressor has run for 200 seconds and closes 600 seconds later and then opens for 3 minutes every 20 minutes.
7. **Solenoid valve SV5:**
Enables fast defrosting in heating mode and unloading in cooling mode. During defrosting operation, opens to shorten the refrigerant flow cycle and quicken the defrosting process. In cooling mode, SV5 opens when outdoor ambient temperature is above 40°C or compressor frequency is below 41Hz.
8. **Solenoid valve SV6:**
Allows refrigerant to bypass the expansion valves. Opens in cooling mode when discharge temperature exceeds the limit. Closed in heating mode and standby.
9. **Solenoid valve SV7:**
Allows refrigerant to return directly to the compressor. Opens when indoor air temperature is close to the set temperature to avoid frequent compressor on/off.
10. **Solenoid valve SV8A / SV8B:**
Allows refrigerant from plate heat exchanger inject directly to the compressor. SV8A opens when compressor A startup and closes when compressor A stop. SV8B delays opening when compressor B startup and closes when compressor B stop.
11. **Solenoid valve SV9:**
Balances compressor B pressure. Opens before compressor B startup and closed after compressor B running for 15 seconds. Opens after compressor B stops 10s and keep opening 60s.
12. **High and low pressure switches:**
Regulate system pressure. When system pressure rises above the upper limit or falls below the lower limit, the high or low pressure switches turn off, stopping the compressor. After 10 minutes, the compressor restarts.

3 Refrigerant Flow Diagrams

8/10/12HP

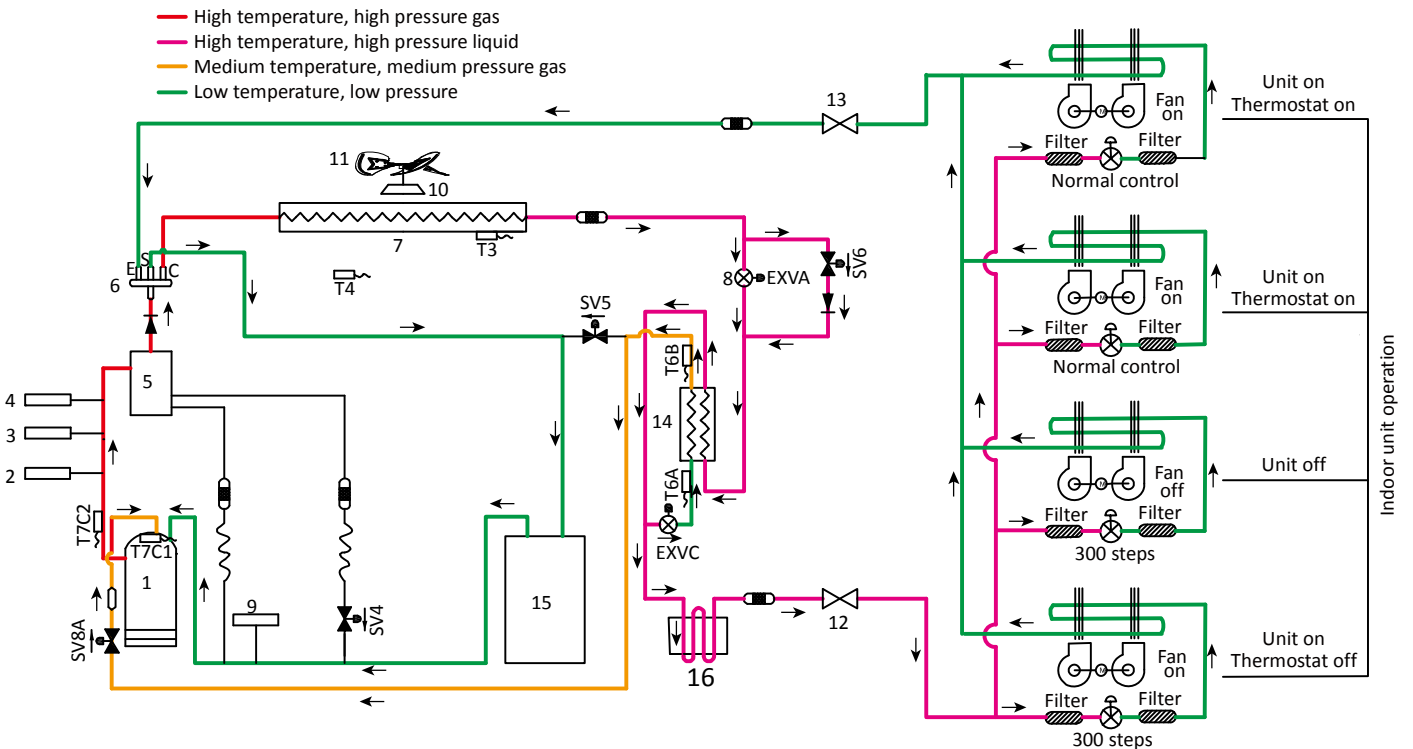
Cooling operation

Figure 2-3.1: 8/10/12HP refrigerant flow during cooling operation



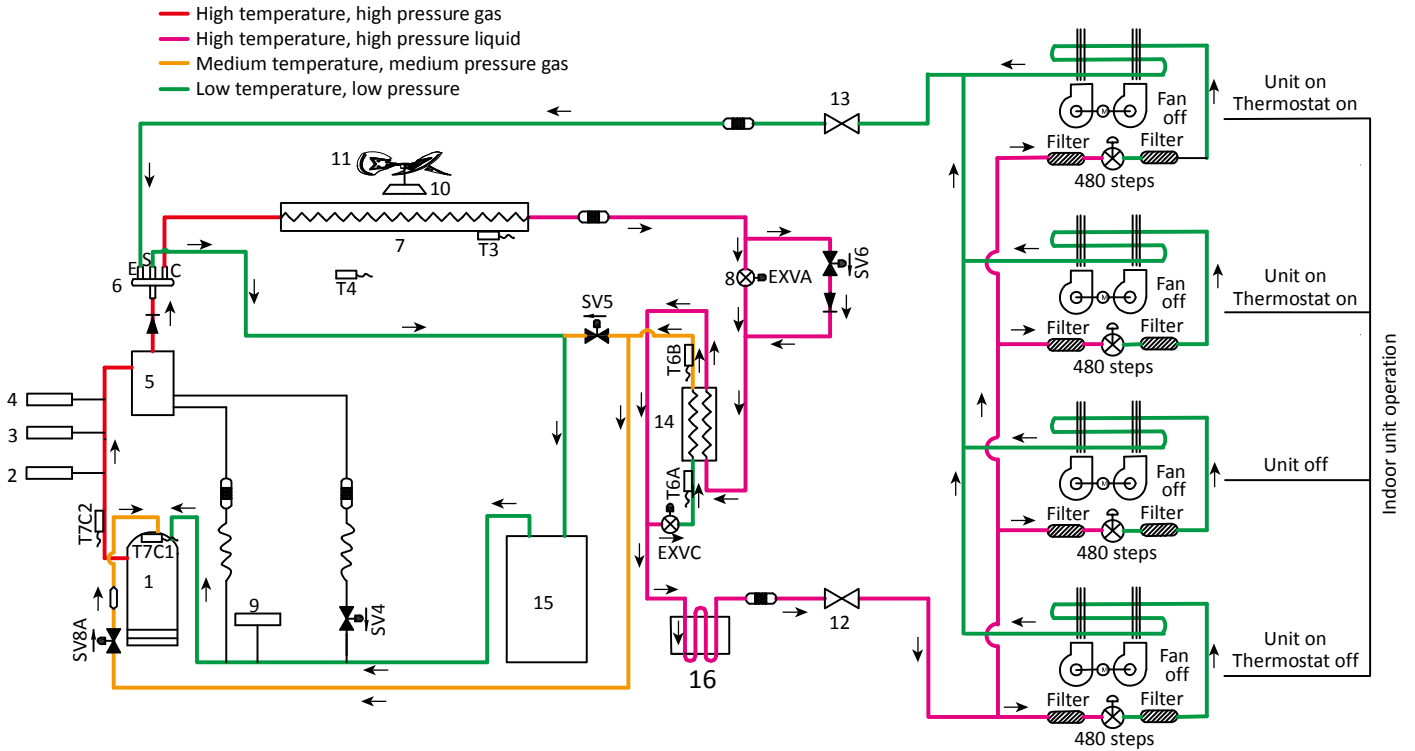
Oil return operation in cooling mode

Figure 2-3.2: 8/10/12HP refrigerant flow during oil return operation in cooling mode



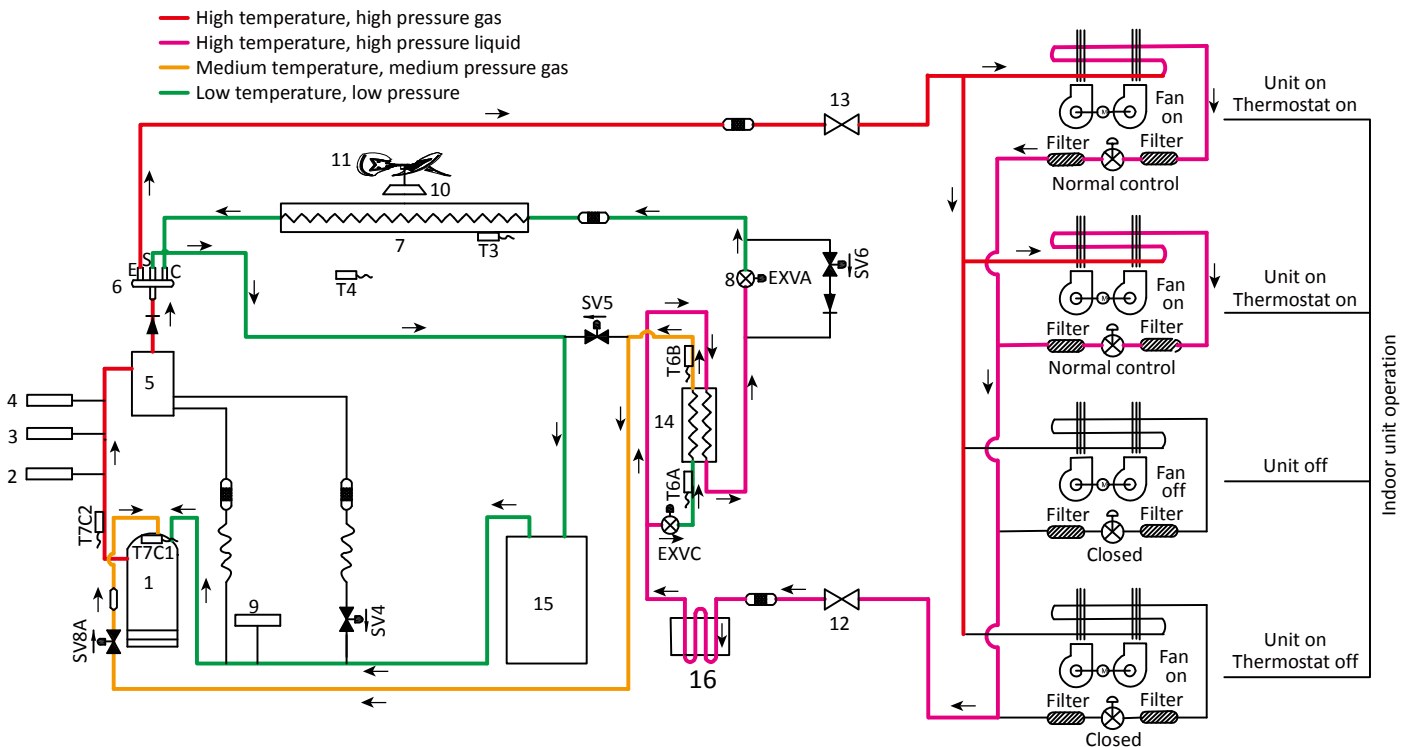
Oil return operation in heating mode and defrosting operation

Figure 2-3.3: 8/10/12HP refrigerant flow during oil return operation in heating mode and during defrosting operation



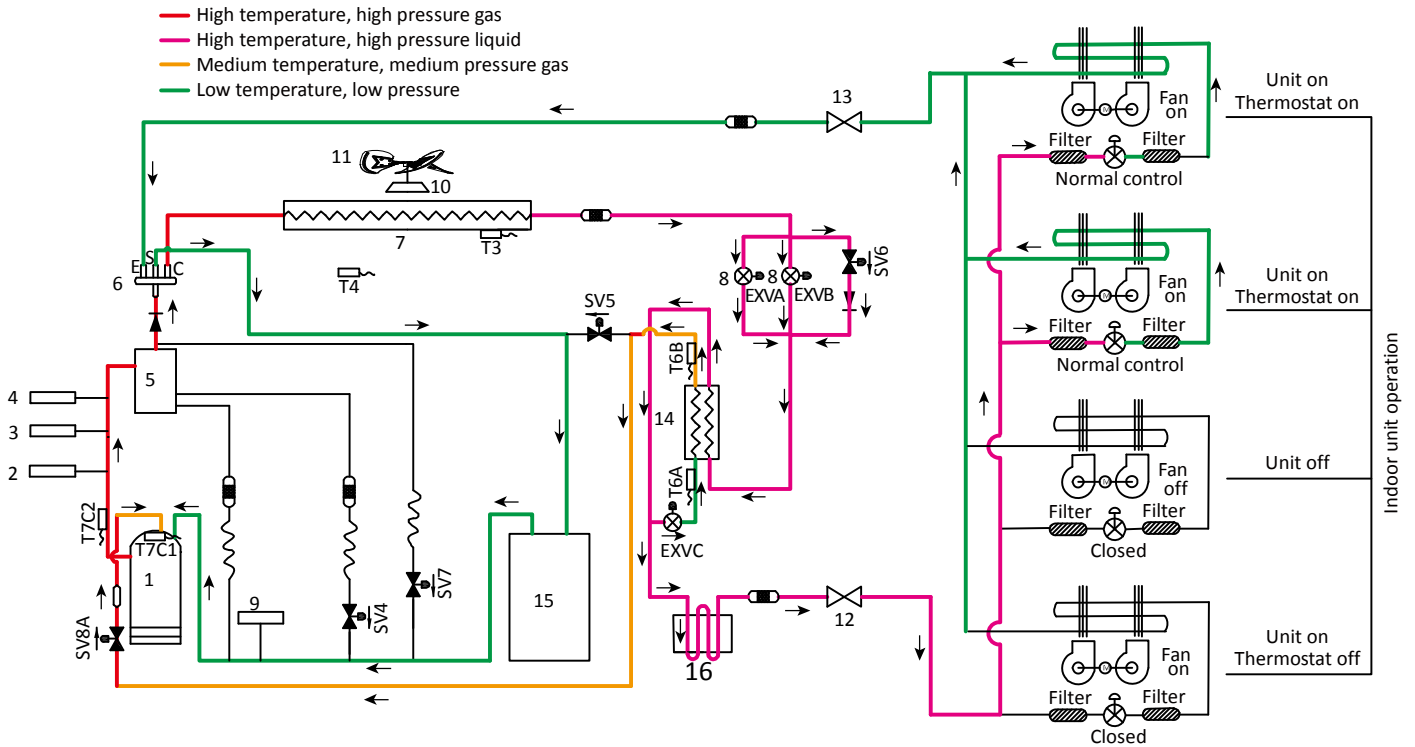
Heating operation

Figure 2-3.4: 8/10/12HP refrigerant flow during heating operation



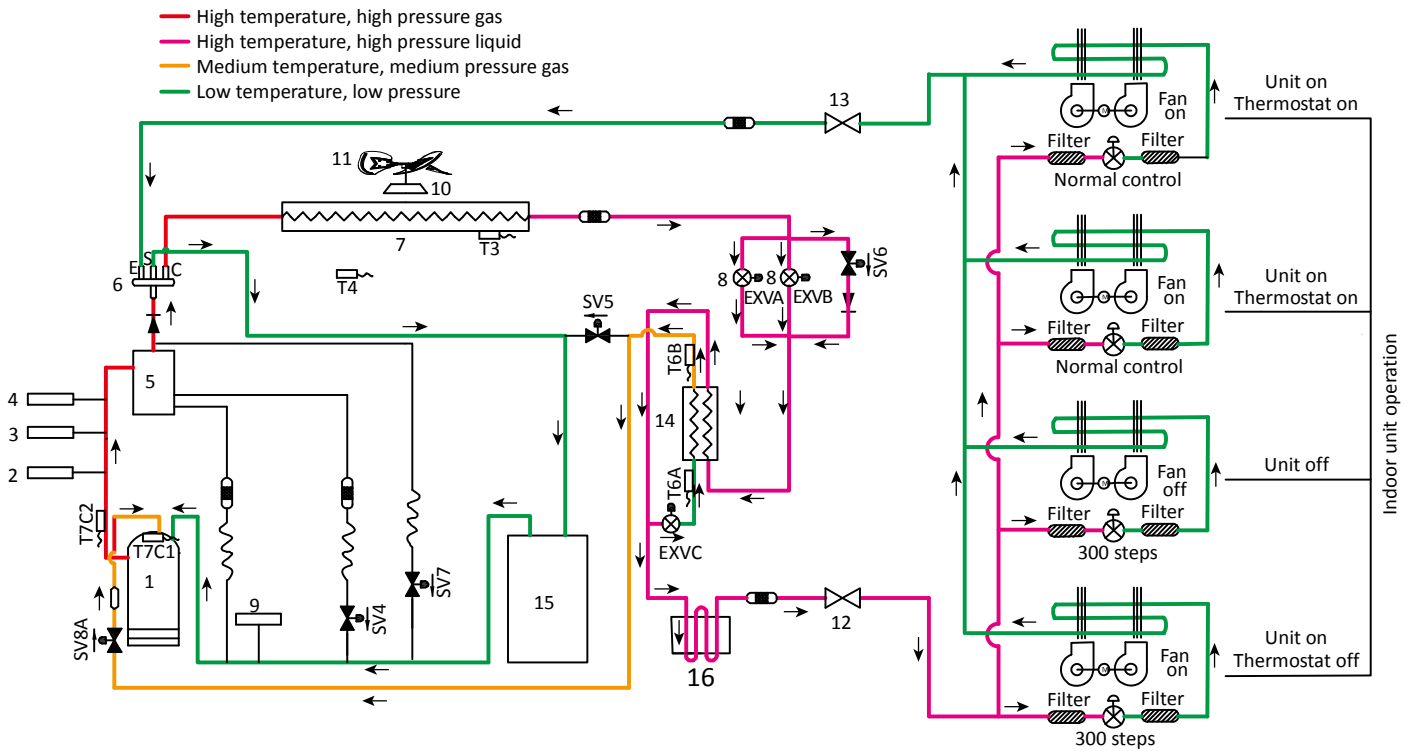
Cooling operation

Figure 2-3.5: 14/16 refrigerant flow during cooling operation



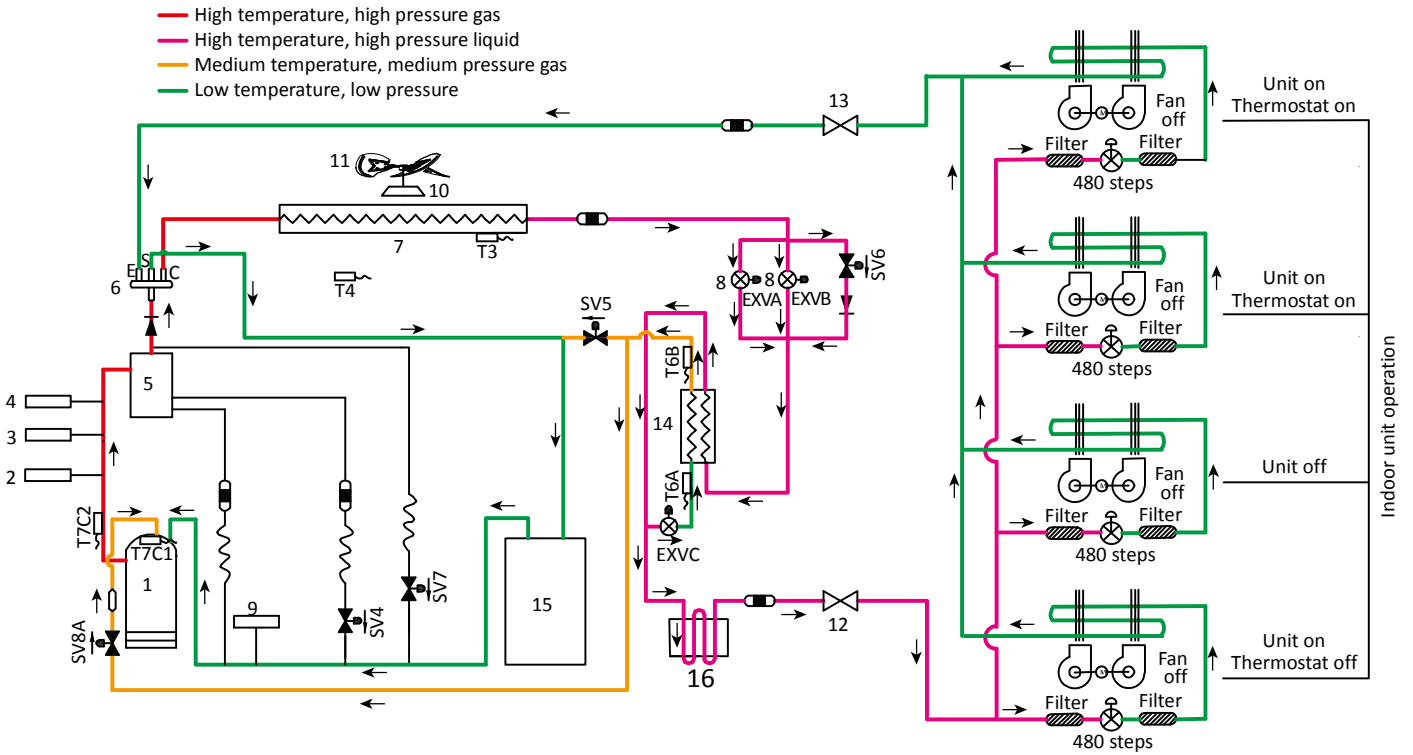
Oil return operation in cooling mode

Figure 2-3.6: 14/16HP refrigerant flow during oil return operation in cooling mode



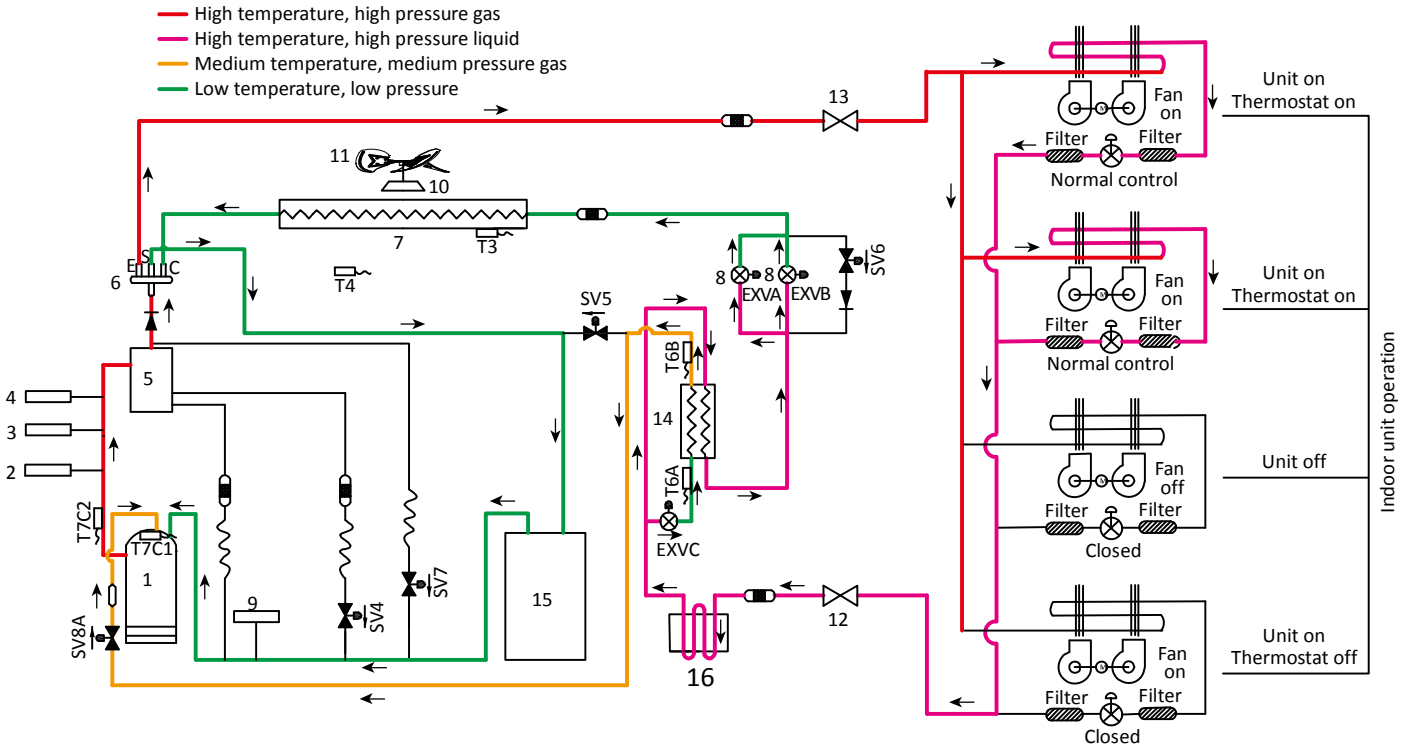
Oil return operation in heating mode and defrosting operation

Figure 2-3.7: 14/16HP refrigerant flow during oil return operation in heating mode and during defrosting operation



Heating operation

Figure 2-3.8: 14/16HP refrigerant flow during heating operation



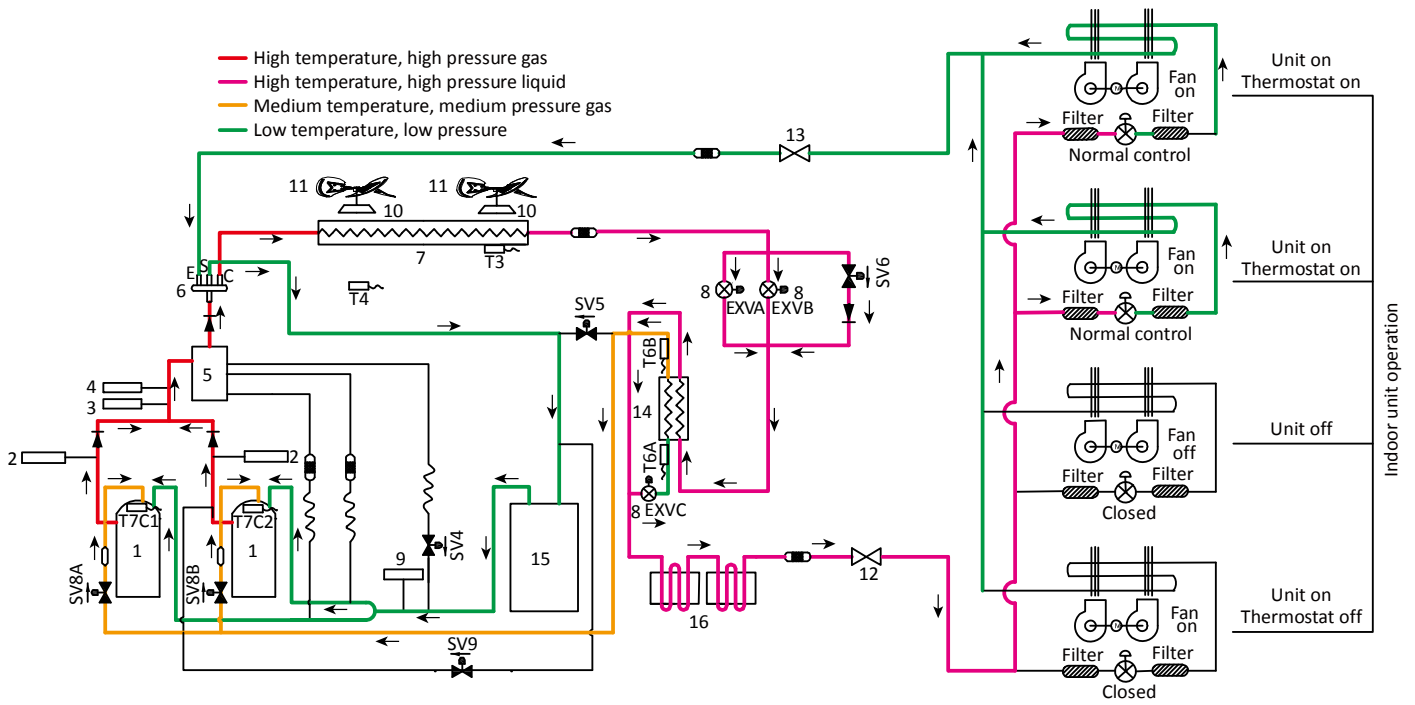
V6 VRF 50Hz

18/20/22HP

Cooling operation

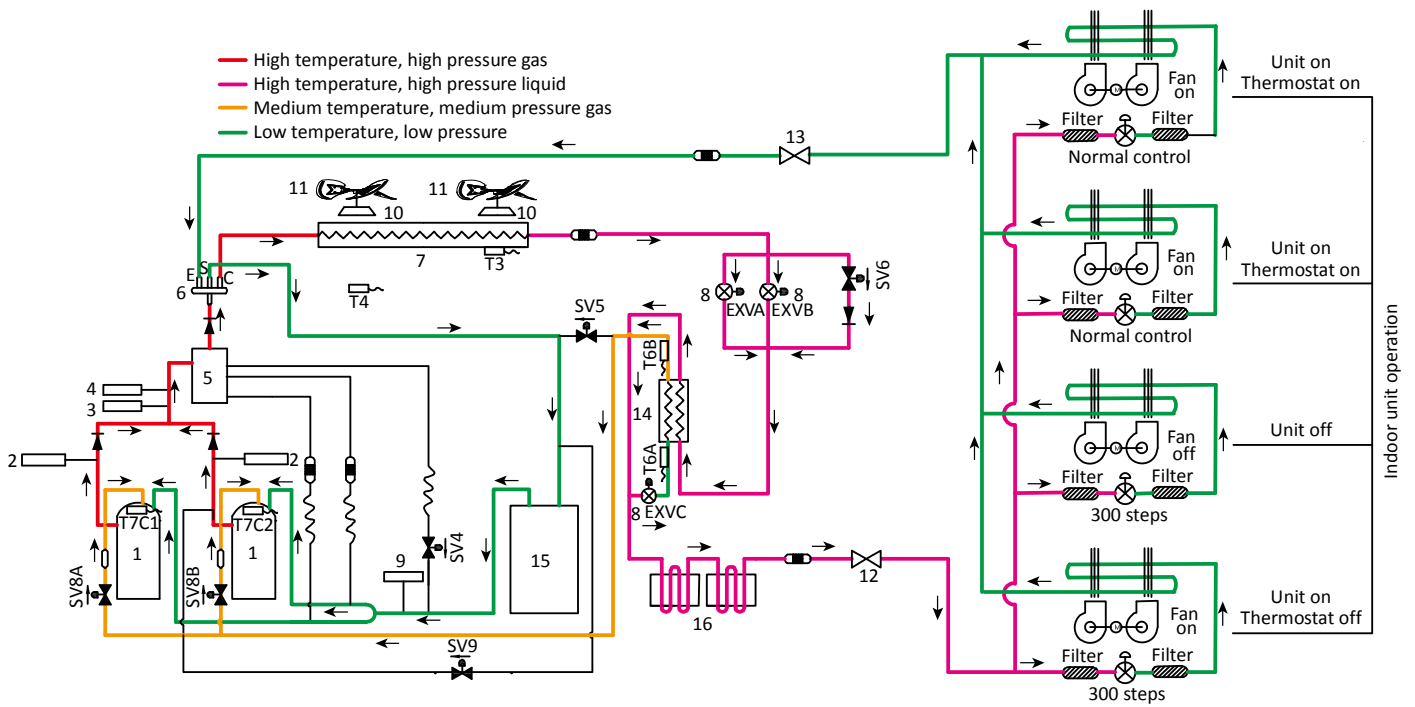


Figure 2-3.9: 18/20/22 refrigerant flow during cooling operation



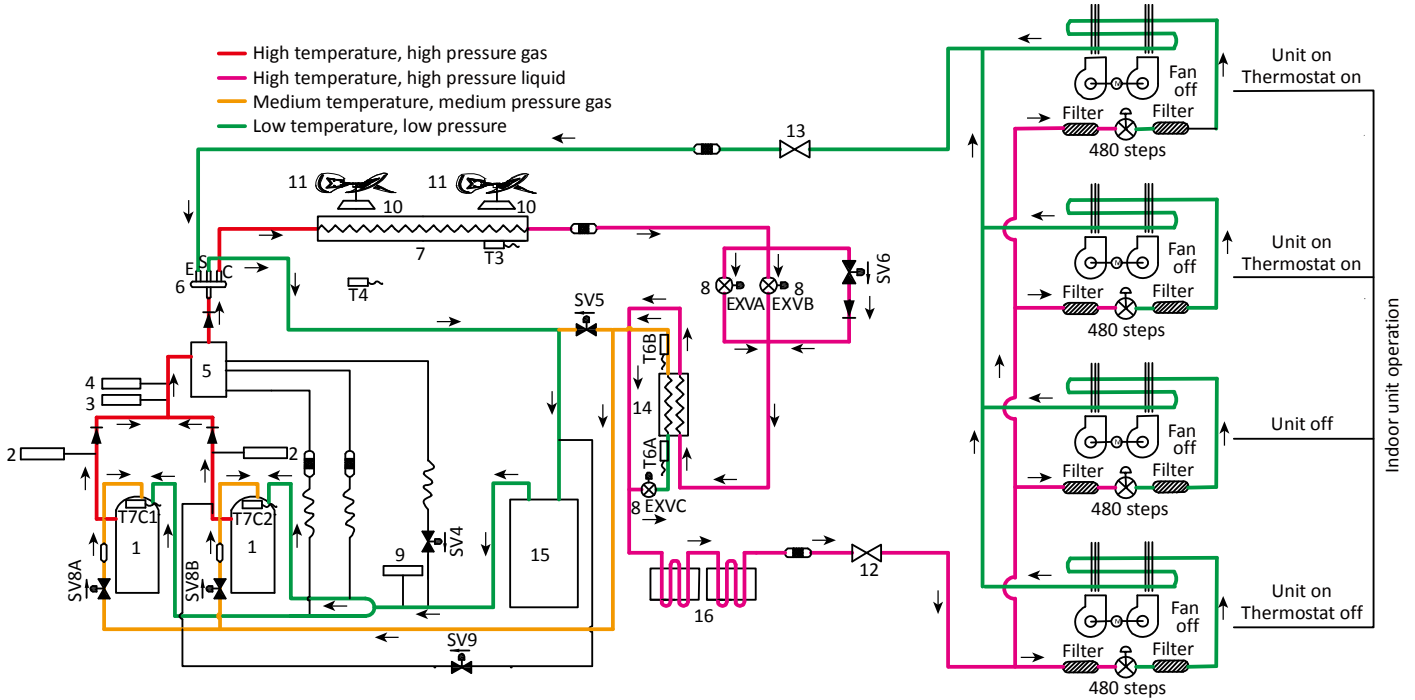
Oil return operation in cooling mode

Figure 2-3.10: 18/20/22HP refrigerant flow during oil return operation in cooling mode



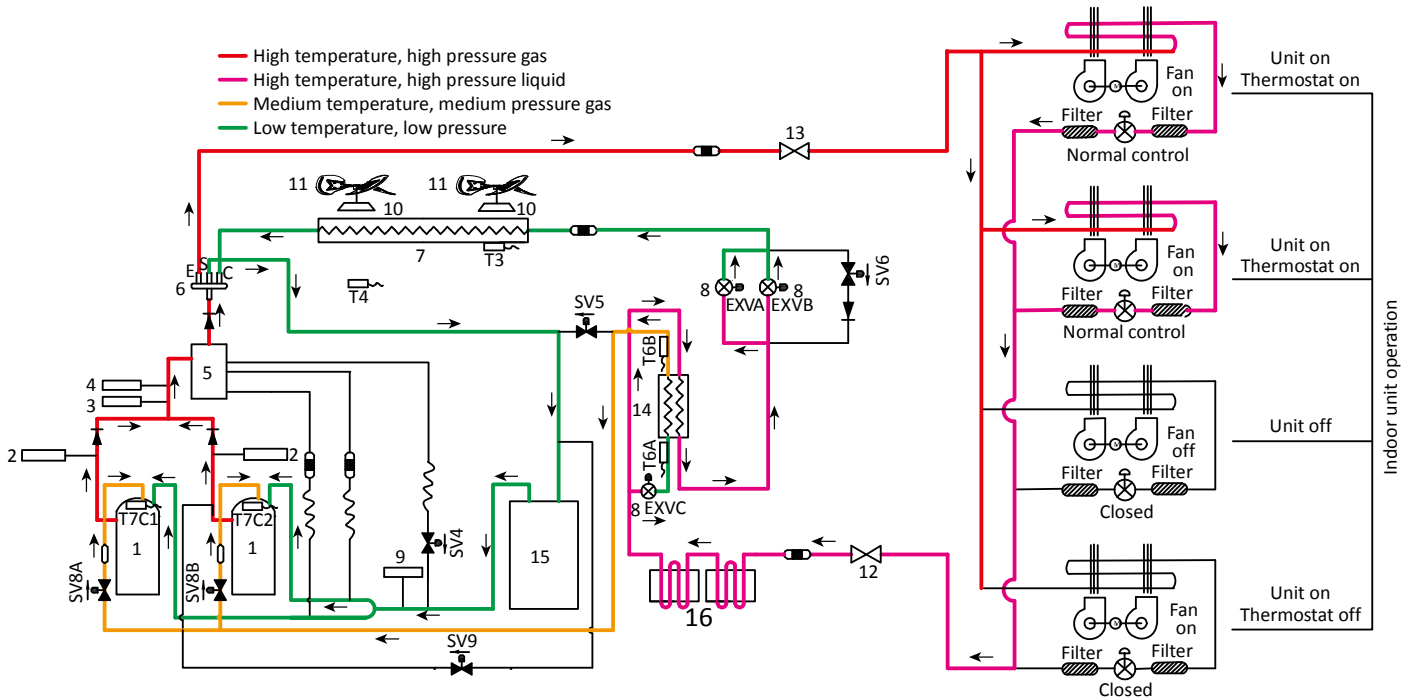
Oil return operation in heating mode and defrosting operation

Figure 2-3.11: 18/20/22HP refrigerant flow during oil return operation in heating mode and during defrosting operation



Heating operation

Figure 2-3.12: 18/20/22HP refrigerant flow during heating operation



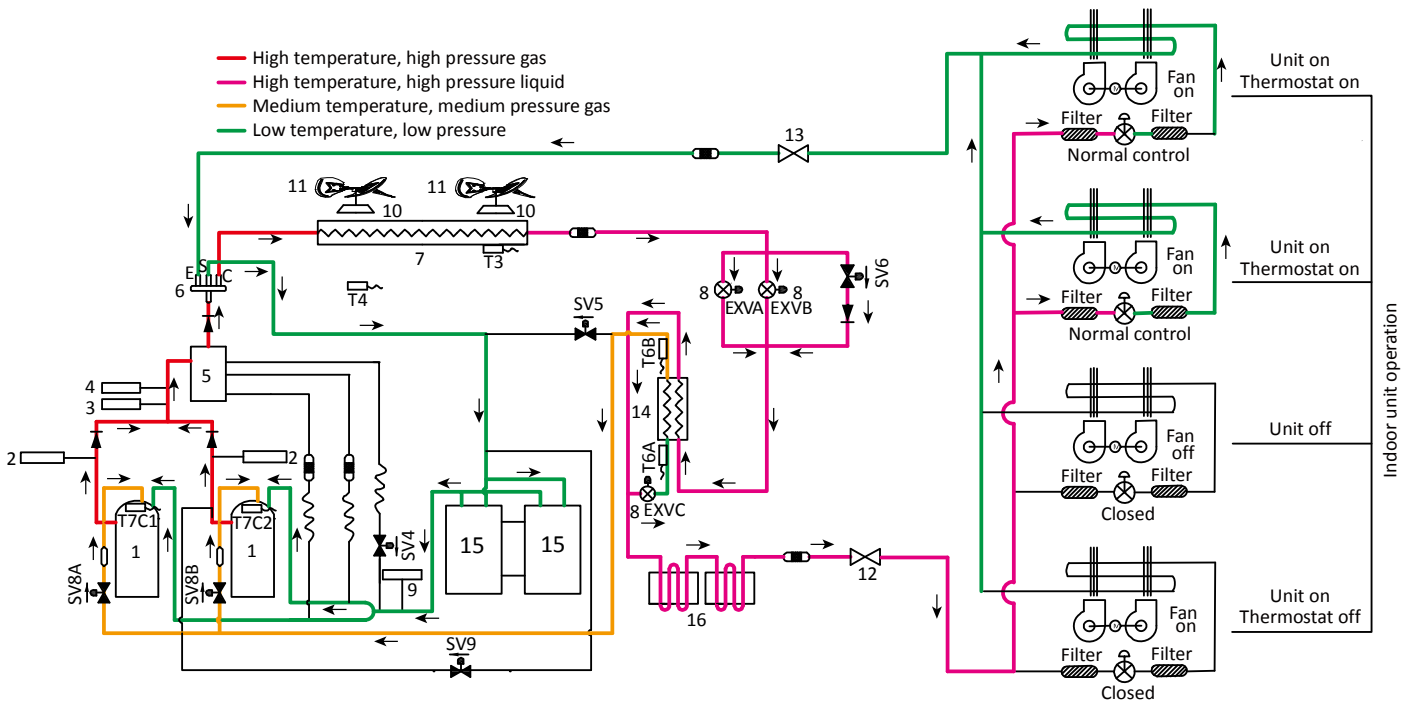
V6 VRF 50Hz

24/26/28HP

Cooling operation

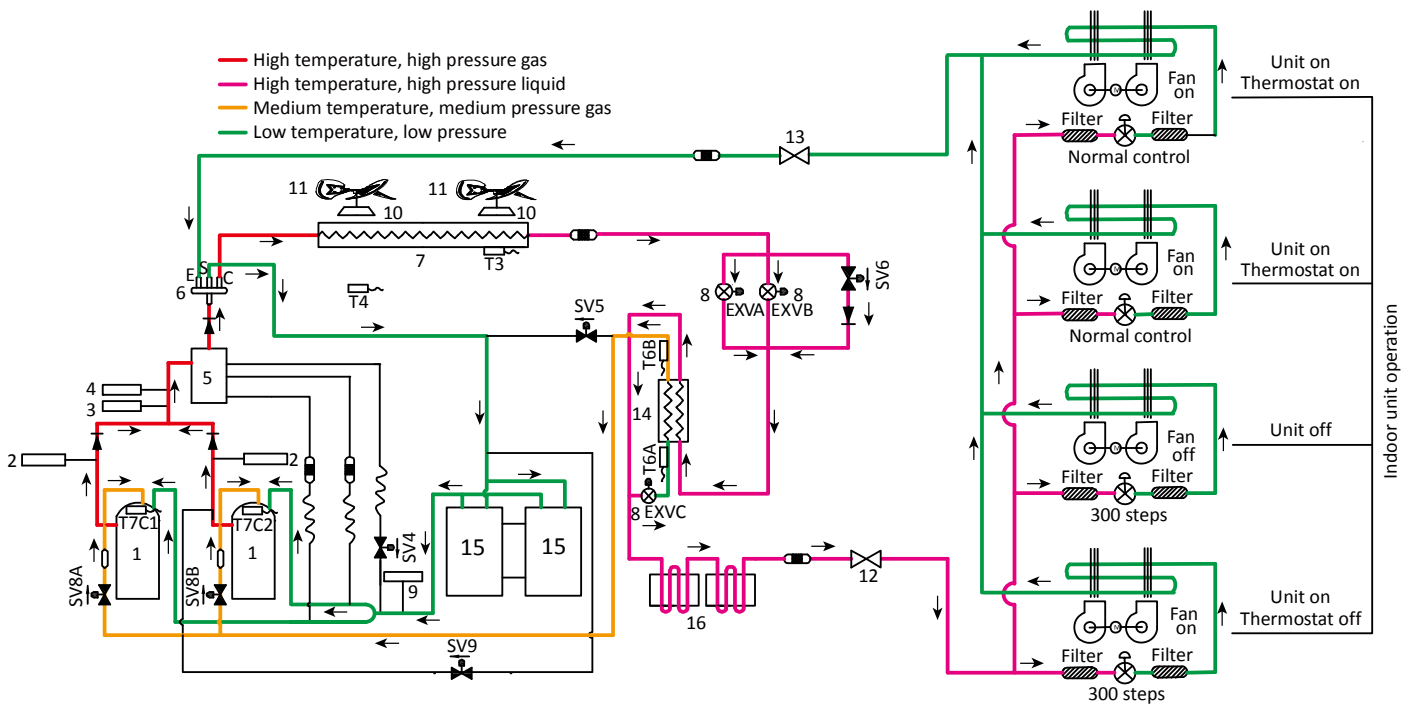


Figure 2-3.13: 24/26/28 refrigerant flow during cooling operation



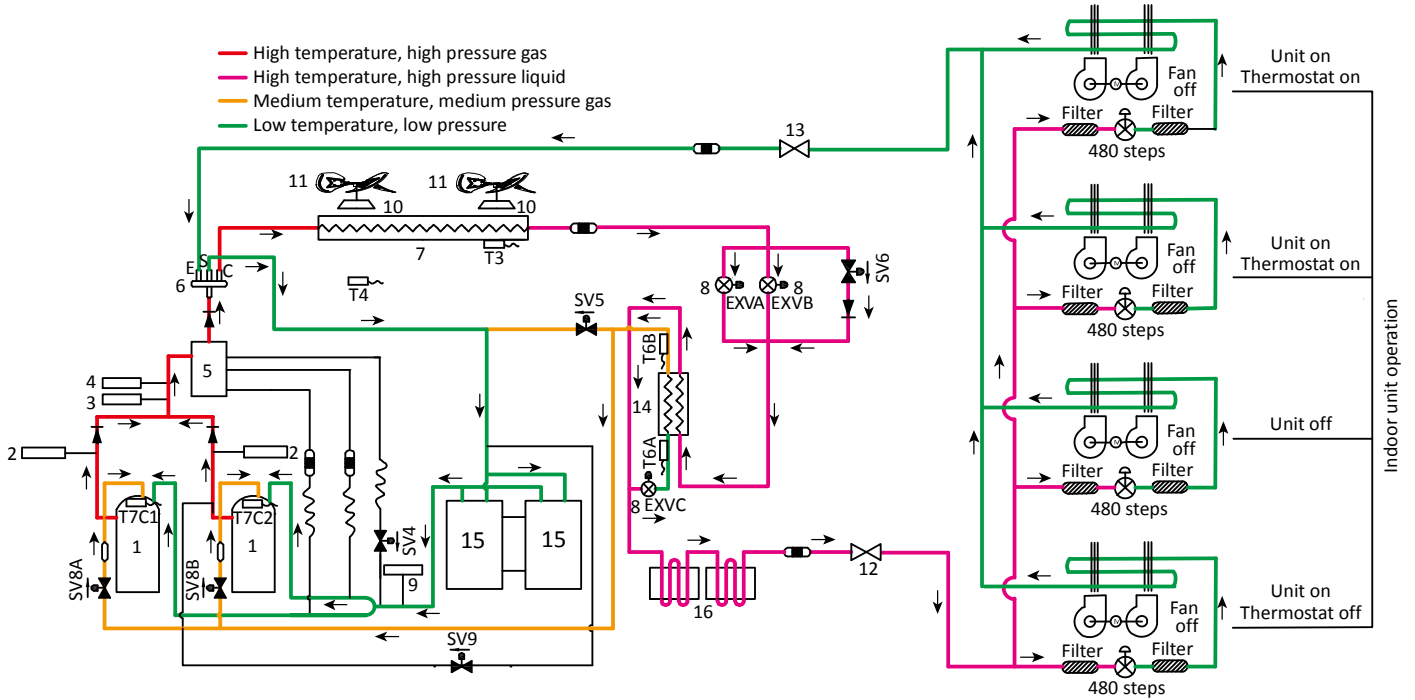
Oil return operation in cooling mode

Figure 2-3.14: 24/26/28HP refrigerant flow during oil return operation in cooling mode



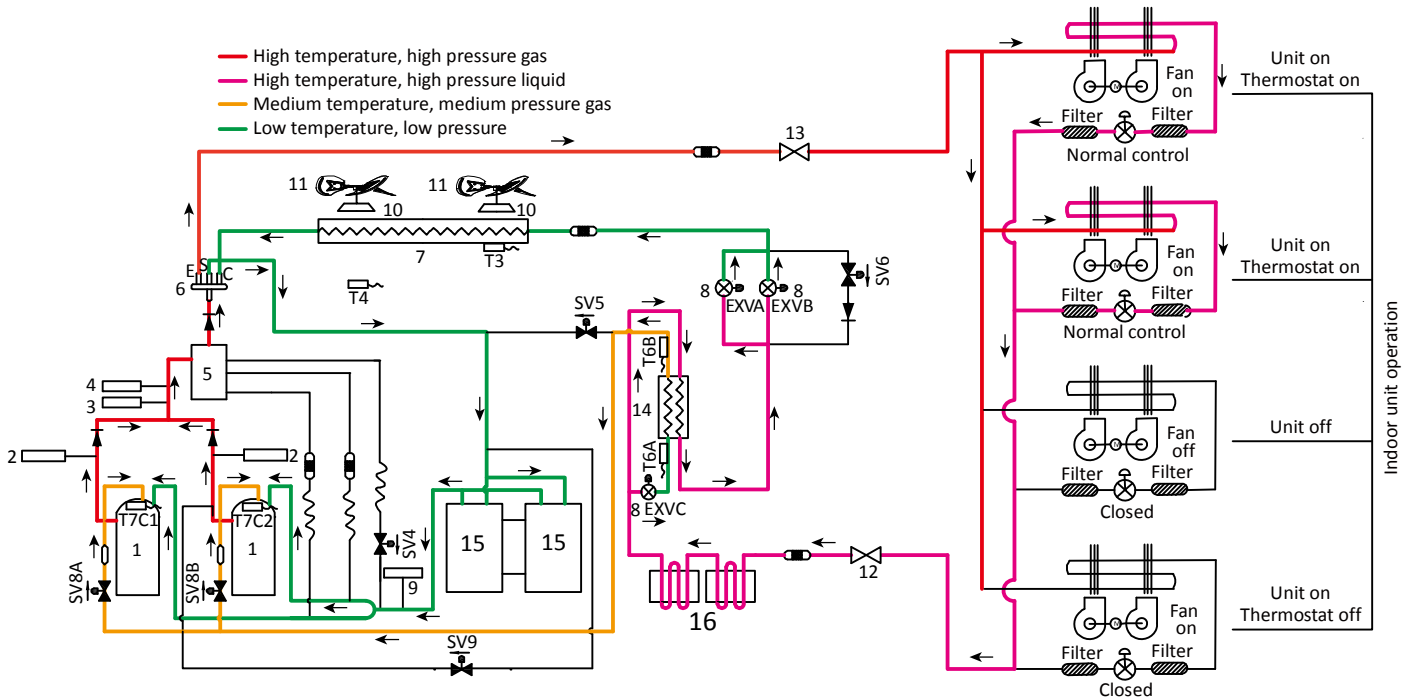
Oil return operation in heating mode and defrosting operation

Figure 2-3.15: 24/26/28HP refrigerant flow during oil return operation in heating mode and during defrosting operation



Heating operation

Figure 2-3.16: 24/26/28HP refrigerant flow during heating operation



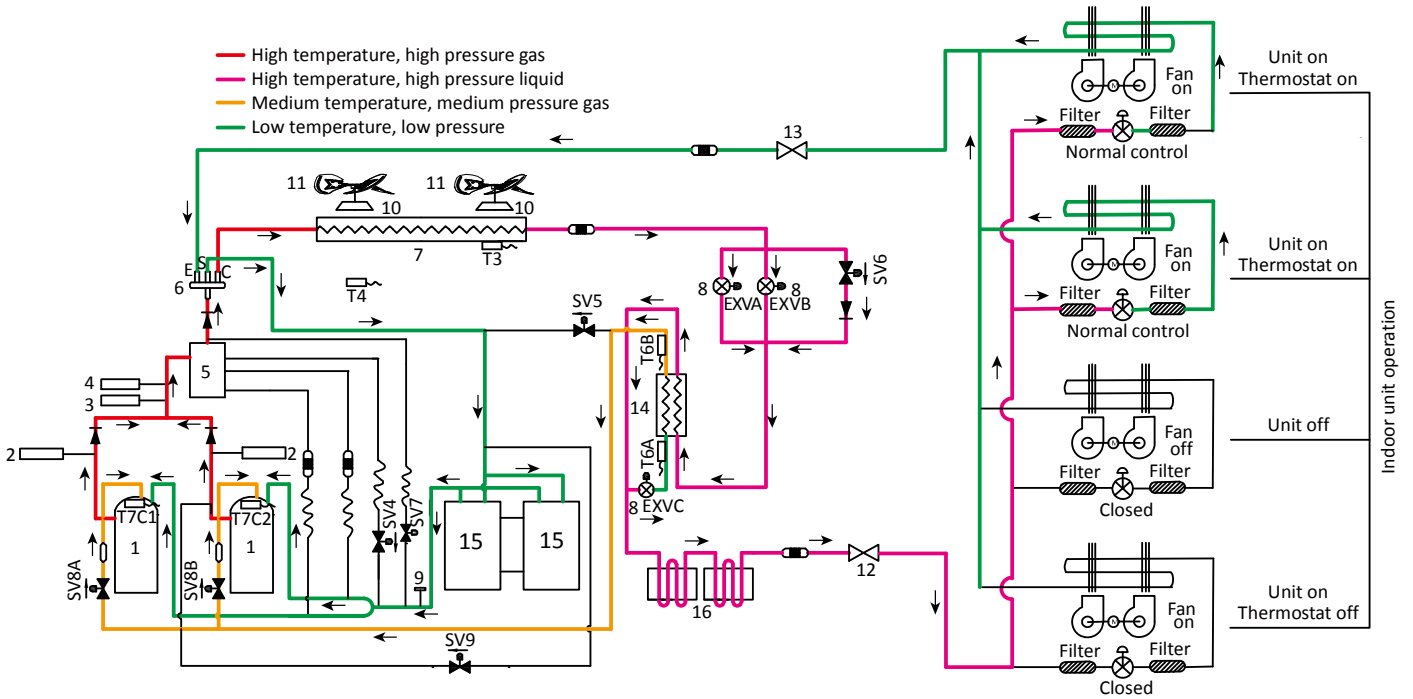
V6 VRF 50Hz

30/32HP

Cooling operation

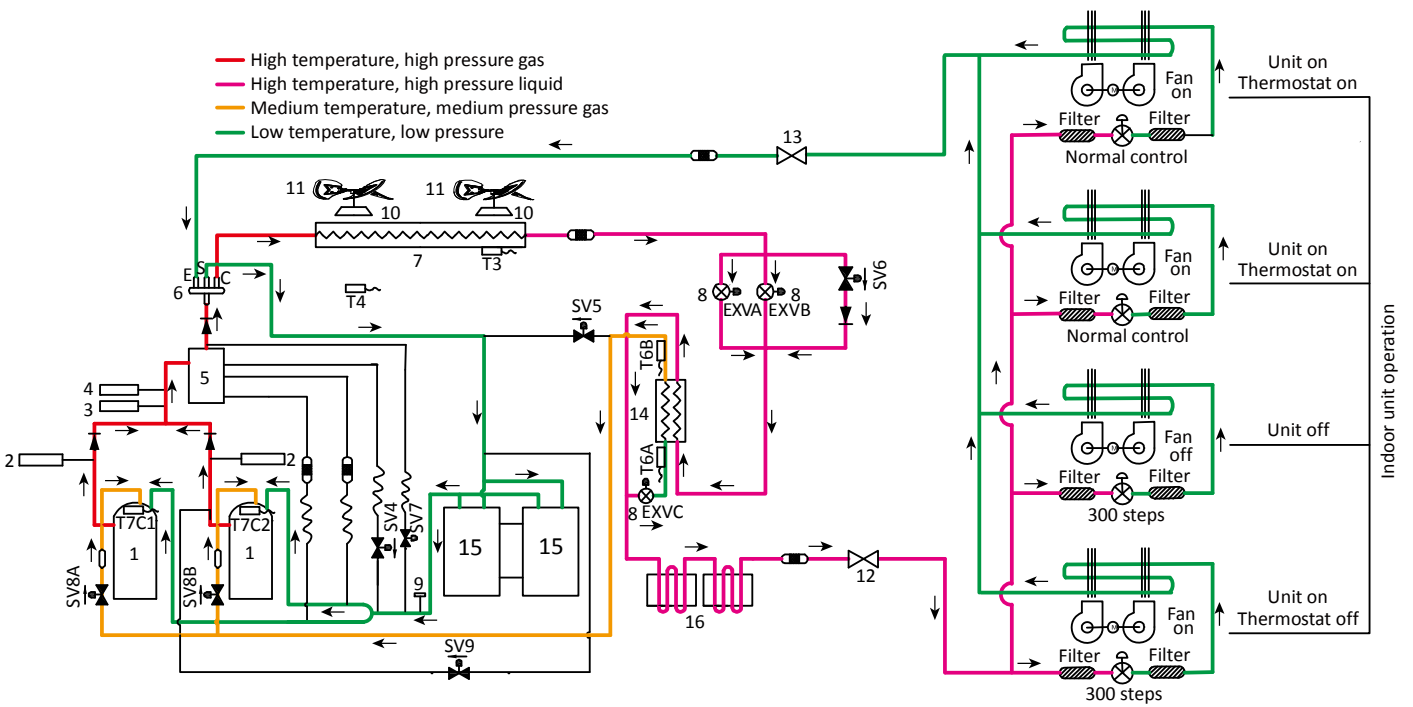


Figure 2-3.17: 30/32 refrigerant flow during cooling operation



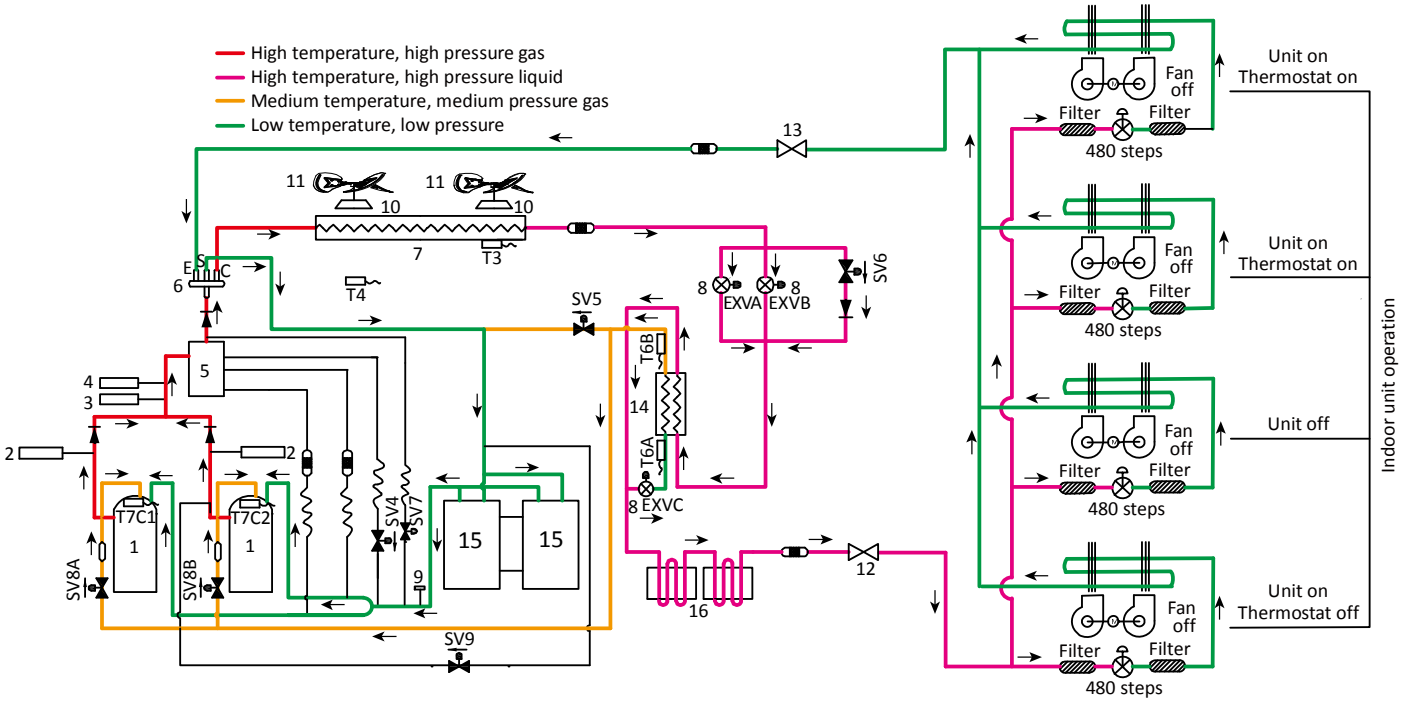
Oil return operation in cooling mode

Figure 2-3.18: 30/32HP refrigerant flow during oil return operation in cooling mode



Oil return operation in heating mode and defrosting operation

Figure 2-3.19: 30/32HP refrigerant flow during oil return operation in heating mode and during defrosting operation



Heating operation

Figure 2-3.20: 30/32HP refrigerant flow during heating operation

