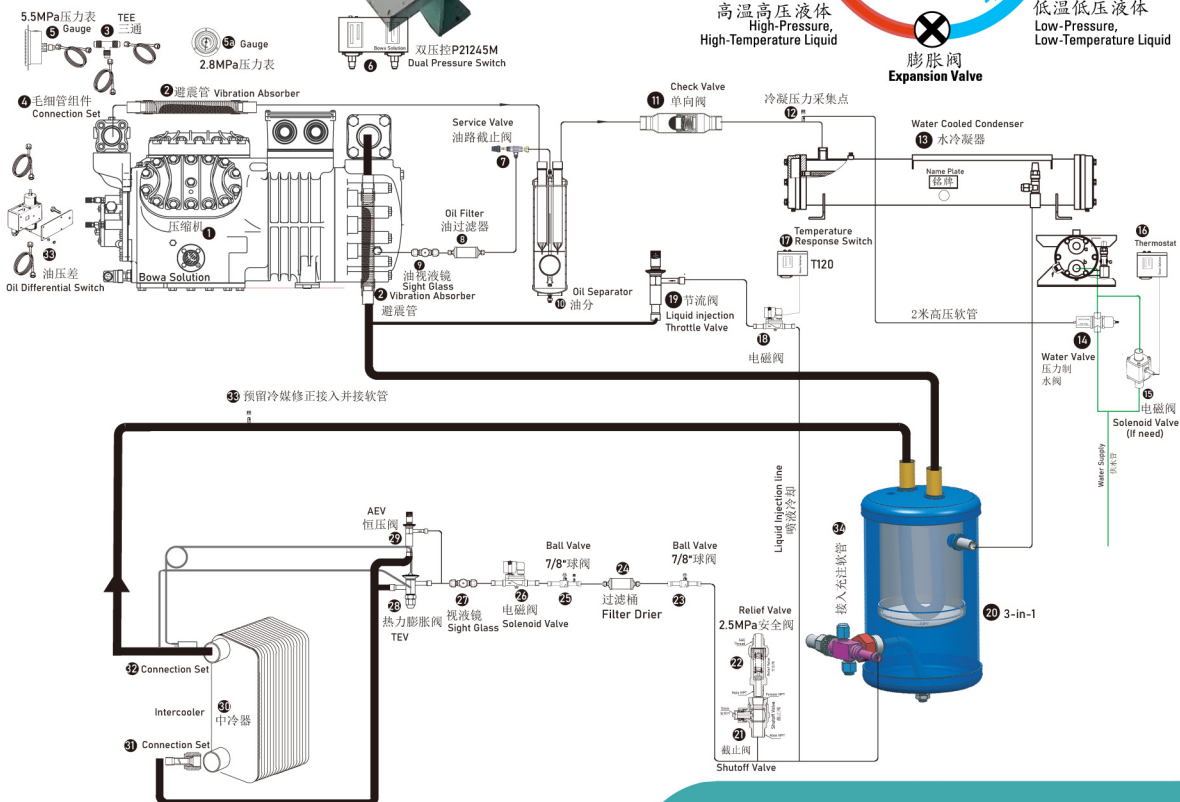
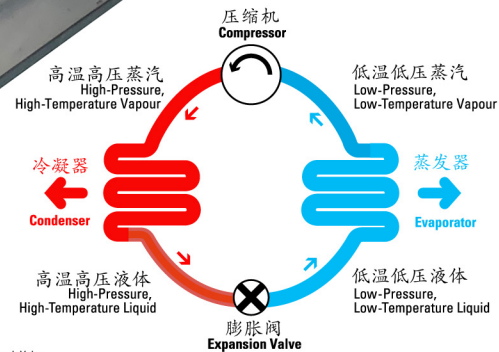
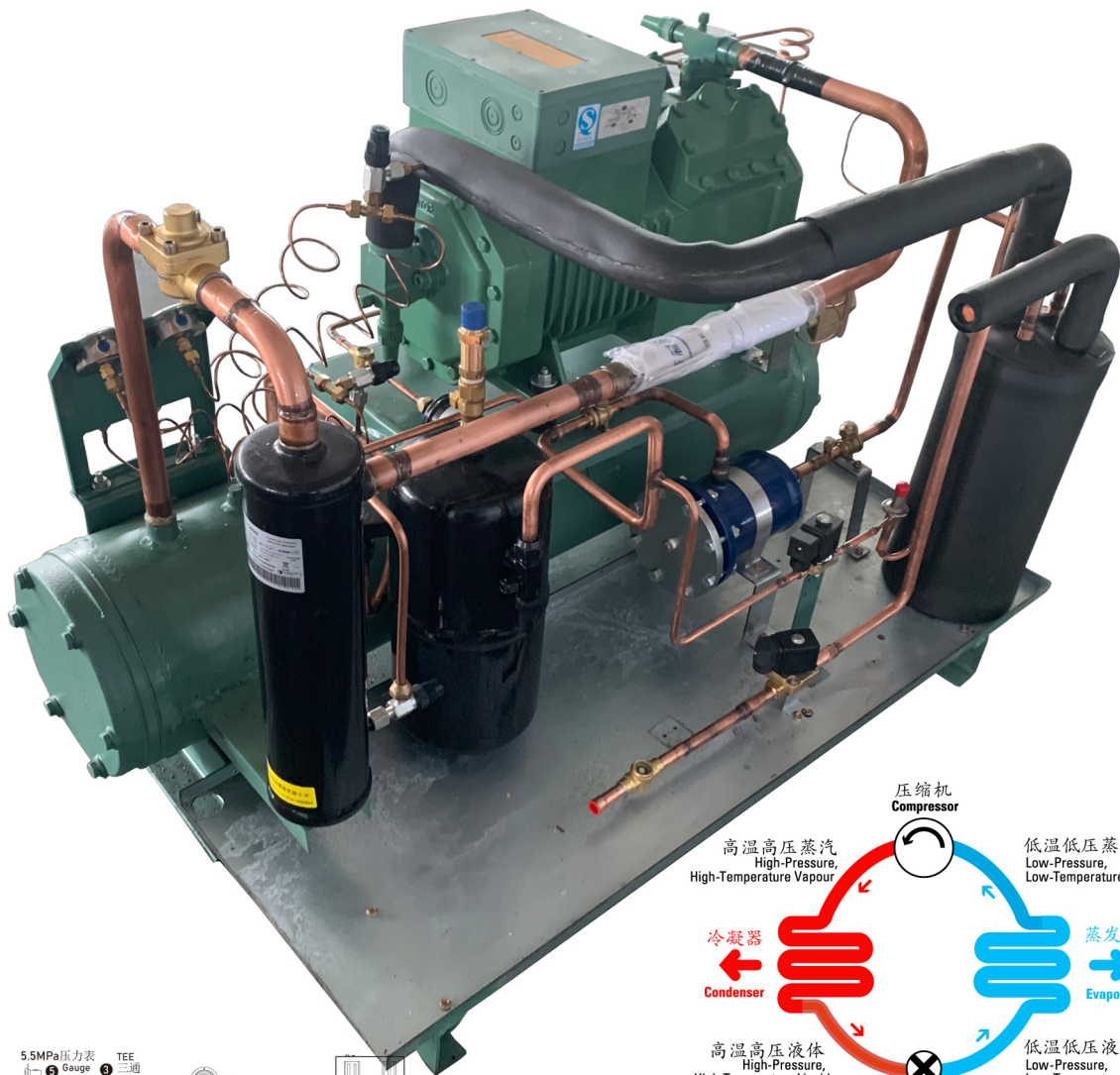
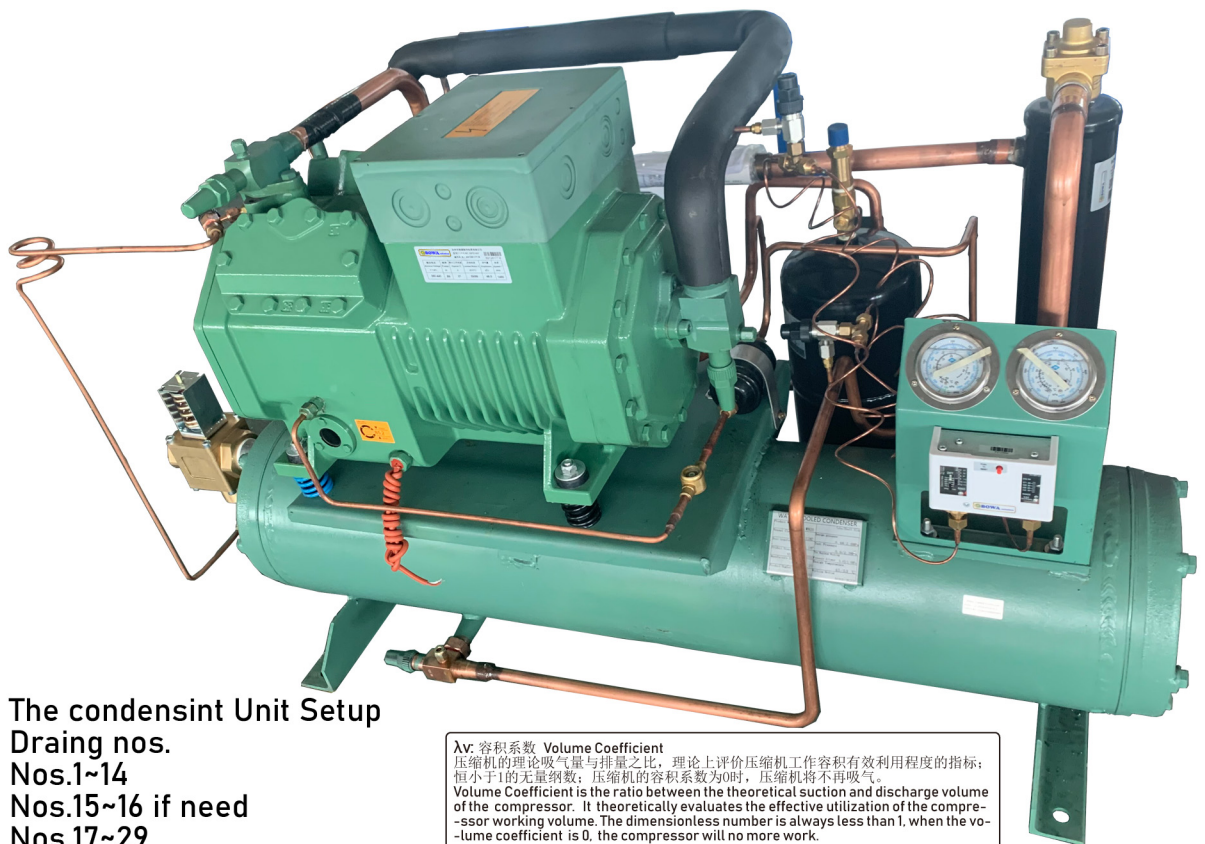






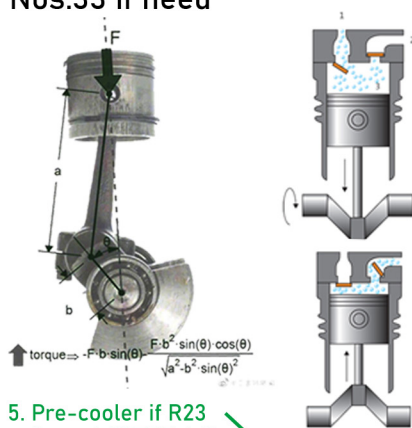
The condensint Unit Setup
Draing nos.
Nos.1~14
Nos.15~16 if need
Nos.17~29
Nos.33 if need

λ_v : 容积系数 Volume Coefficient
 压缩机的理论吸气量与排量之比，理论上评价压缩机工作容积有效利用程度的指标；恒小于1的无量纲数；压缩机的容积系数为0时，压缩机将不再吸气。
Volume Coefficient is the ratio between the theoretical suction and discharge volume of the compressor. It theoretically evaluates the effective utilization of the compressor working volume. The dimensionless number is always less than 1, when the volume coefficient is 0, the compressor will no more work.

$$\lambda_v = 1 - c \left[\left(\frac{P_c}{P_e} \right)^{\frac{1}{m}} - 1 \right]$$

C: 相对余隙容积 **P_c**: 冷凝压力 **P_e**: 蒸发压力 **m**: 膨胀过程指数
 例：一台制冷压缩机，R22冷媒，C=0.048，m=1.04 P_e=1.534MPa (T_k=40℃) 当 $\lambda_v=0$ ，上式可变为
 $\frac{P_c}{P_e} = \left(\frac{1+C}{C} \right)^m = \left(\frac{1+0.048}{0.048} \right)^{1.04} \approx 24.7$ 可得 P_c=0.062MPa
 相对应的蒸发温度 T_e=-50.5℃，即为极限值

制冷剂凝固点	吸气比体积及输气系数	阀门开启压差15kPa	适当冷凝压力
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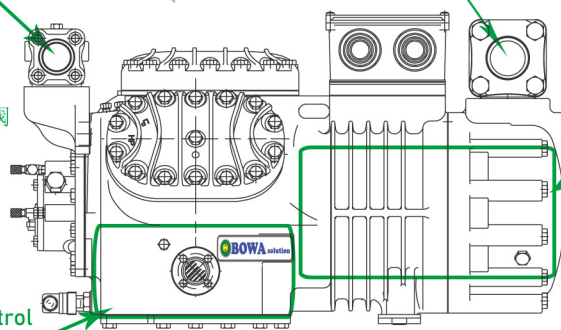


5. Pre-cooler if R23
若R23冷媒需预冷器
6. Oil Separator
油分
7. Check valve if need
根据需要是否要单向阀

1. Suction Accumulator
气分
2. Subcooler/uperheater
过冷回热器
3. Liquid Injection
喷液冷却

8. Motor temperature control
电机温度控制
a.) winds temperature 绕组温度
b.) Suction temperature limit
吸气温度限制
c.) discharge temperature limit
排气温度限制
9. Motor shaft power limit
电机轴功率限制
a.) compressing ratio 压缩比
b.) Suction pressure limit
吸气压力限制
c.) discharge pressure limit
排气压力限制
10. Motor power supply protector
电机电源保护
a.) Voltage protector 电压保护
b.) Current limit 电流限制
c.) Phase protector 相位保护
d.) Time delay 延时 (▲/Y)
11. Motor Speed control if variable
若变速电机，转速控制
a.) Inverters 变频器
b.) Senstors 传感器

1. Oil temperature control
油温控制
2. Oil level control if need
油位控制



Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
16.2m ³ /h (3HP)	-35°C	30°C	4227	14427
	-40°C	30°C	3113	10623
	-45°C	30°C	2179	7435
	-50°C	20°C	2177	7430

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
22.5m ³ /h (4HP)	-35°C	30°C	5835	19916
	-40°C	30°C	4288	14635
	-45°C	30°C	2967	10127
	-50°C	20°C	3031	10345

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
26.8m ³ /h (5HP)	-35°C	30°C	7138	24362
	-40°C	30°C	5250	17918
	-45°C	30°C	3649	12453
	-50°C	20°C	3605	12304

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
32.5m ³ /h (6HP)	-35°C	30°C	8680	29625
	-40°C	30°C	6466	22067
	-45°C	30°C	4571	15601
	-50°C	20°C	4354	14860

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
41.3m ³ /h (8HP)	-35°C	30°C	11033	37655
	-40°C	30°C	8069	27538
	-45°C	30°C	5547	18930
	-50°C	20°C	5544	18922

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
48.5m ³ /h (10HP)	-35°C	30°C	12695	43326
	-40°C	30°C	9231	31505
	-45°C	30°C	6268	21394
	-50°C	20°C	6524	22266

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
56.25m ³ /h (12HP)	-35°C	30°C	14622	49904
	-40°C	30°C	10660	36383
	-45°C	30°C	7311	24952
	-50°C	20°C	7553	25778

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
73.6m ³ /h (15HP)	-35°C	30°C	20683	70592
	-40°C	30°C	15536	53025
	-45°C	30°C	11160	38089
	-50°C	20°C	9891	33758

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
84.5m ³ /h (20HP)	-35°C	30°C	23395	79847
	-40°C	30°C	17447	59545
	-45°C	30°C	12376	42240
	-50°C	20°C	11368	38799

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
110.5m ³ /h (25HP)	-35°C	30°C	30108	102757
	-40°C	30°C	22363	76323
	-45°C	30°C	15838	54055
	-50°C	20°C	14875	50768

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
126.8m ³ /h (30HP)	-35°C	30°C	33763	115233
	-40°C	30°C	25061	85533
	-45°C	30°C	17656	60258
	-50°C	20°C	17031	58126

Displacement (1450RPM)	R410a		Cooling Capacity	
	E.T.	C.T.	Watts	BTU
151.6m ³ /h (40HP)	-35°C	30°C	40543	138371
	-40°C	30°C	29924	102129
	-45°C	30°C	20850	71160
	-50°C	20°C	20349	69451

