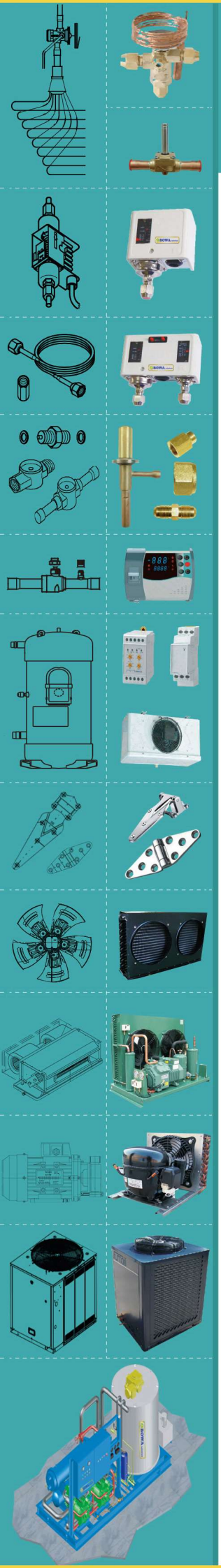
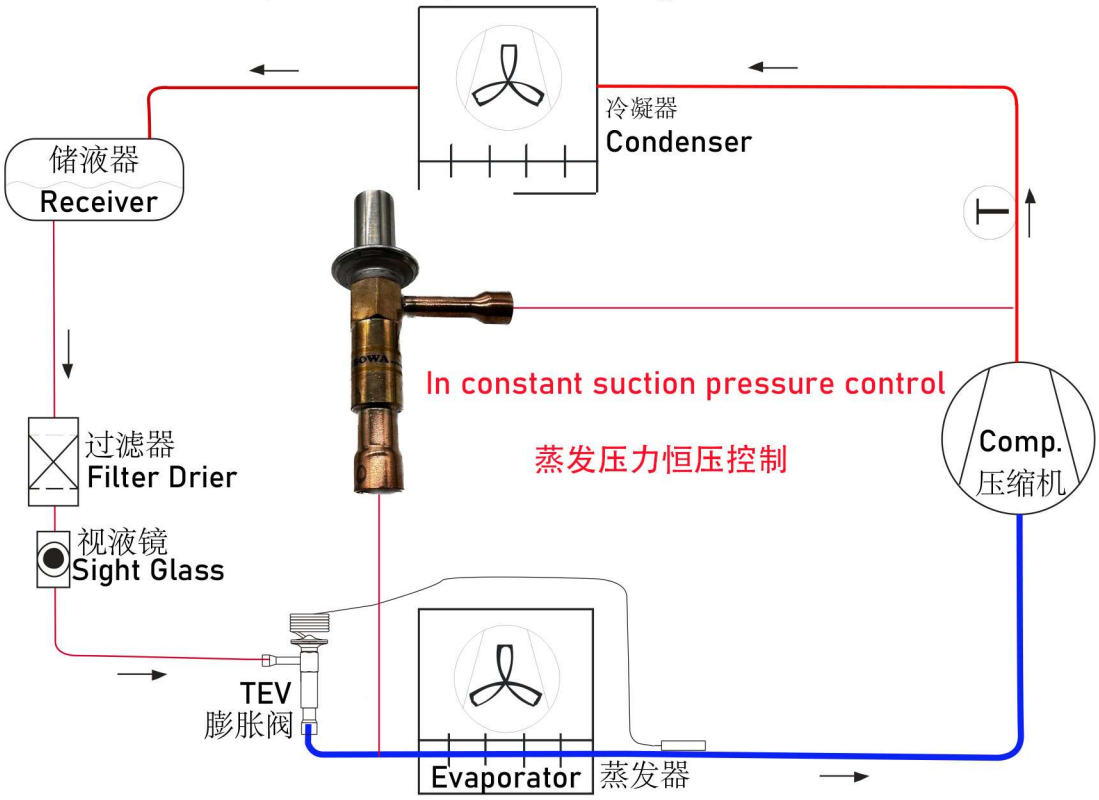


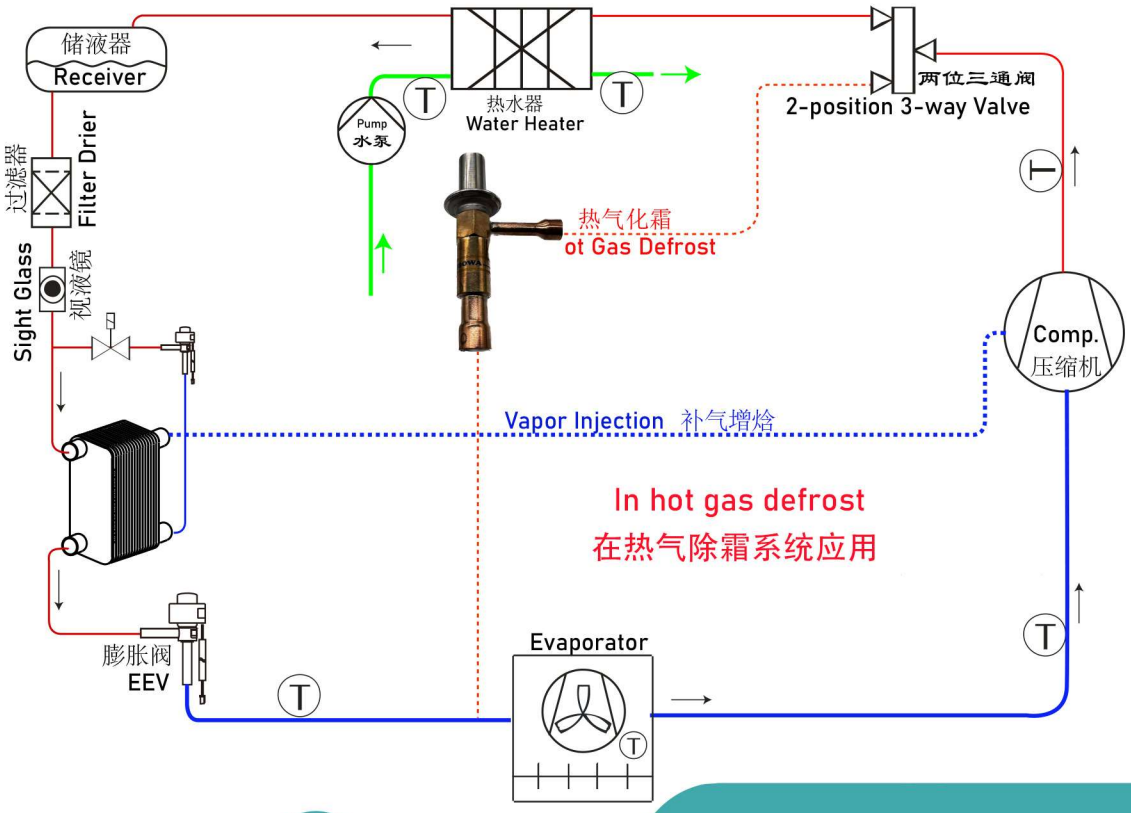
BOWA solution

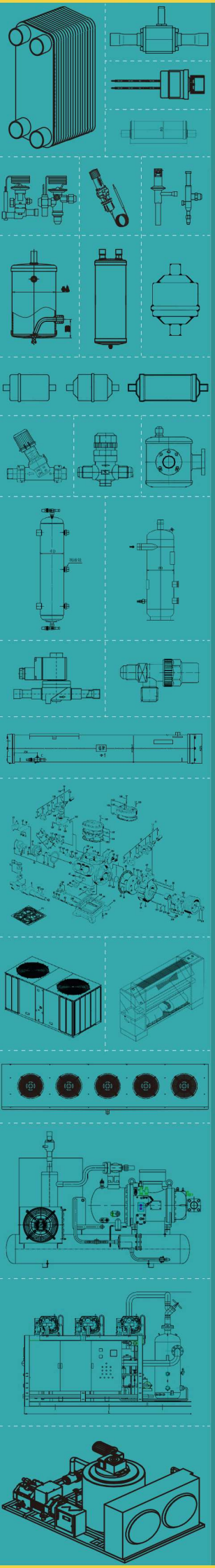
热气旁通阀
Hot Gas Bypass Valve

CBX压力调节阀主要功能是当阀的出口压力发生变化时，阀门会自动调节性关闭和开启，保持出口压力恒定在设定值上，且不受进口压力(一定范围内)的影响。广泛用于定速压缩机且无能量调节机构的制冷、空调和热泵系统能量调节，喷液节流及蒸发器防冻，全封闭压缩机回油节流等。

CBX pressure regulator can automatically open/close to get the constant oulet pressure on regardless of the change of inlet pressure (within a certain range). It is used to regulate capacity of constant speed compressor refrigeration, air conditioner and heat pump which is without capacity regulator, throttle liquid injection throttle oil return in hermetic compressor and evaporator anti-freezing,







冷水机及恒温控制系统
In Water Chiller or constant temperature control

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R22	9.67	1.15	76.00	4.47
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	0.00	40.00	4.00	0.68

乙二醇载冷系统及恒温恒湿设备
In Glycol cooling or constant temp. air chamber & dehumidifier

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R22	7.85	1.18	59.94	3.68
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	-10.00	30.00	4.00	0.53

冷库速冻设备除霜曲轴压力限制
As cranckshaft power limit in hot gas defrost solution

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R22	10.02	1.17	77.36	4.60
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	-30.00	40.00	32.00	3.67

冷水机及恒温控制系统
In Water Chiller or constant temperature control

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R407C	9.67	1.11	78.73	5.04
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	0.00	40.00	4.00	0.68

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R134a	6.79	1.11	55.39	3.29
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	0.00	40.00	4.00	0.45

乙二醇载冷系统及恒温恒湿设备
In Glycol cooling or constant temp. air chamber & dehumidifier

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R407C	8.04	1.18	61.38	4.07
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	-10.00	30.00	4.00	0.52

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R134a	5.36	1.14	42.61	2.64
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	-10.00	30.00	4.00	0.34

冷水机及恒温控制系统
In Water Chiller or constant temperature control

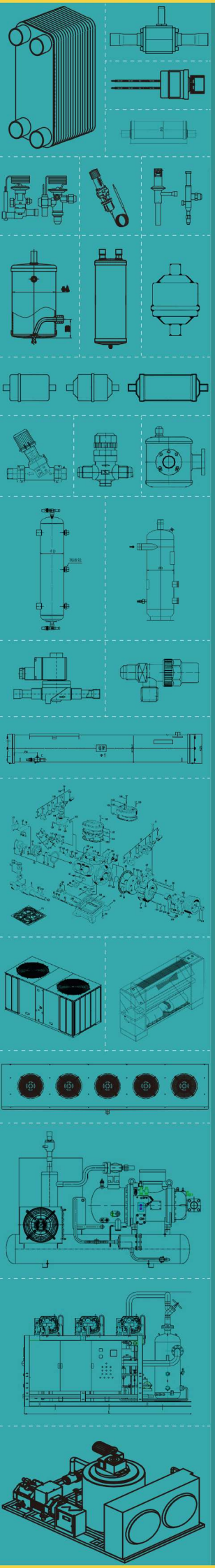
冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R404a	4.95	0.77	57.78	2.76
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	0.00	30.00	4.00	0.80

乙二醇载冷系统及恒温恒湿设备
In Glycol cooling or constant temp. air chamber & dehumidifier

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R404a	9.21	1.05	78.82	4.08
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	-10.00	30.00	4.00	0.63

冷库速冻设备除霜曲轴压力限制
As cranckshaft power limit in hot gas defrost solution

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R404a	5.36	0.80	60.13	2.93
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	-30.00	30.00	32.00	4.37



冷水机及恒温控制系统
In Water Chiller or constant temperature control

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R410a	9.78	1.09	81.22	5.00
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	0.00	30.00	4.00	1.07

基于精密空调工况Basing on precision air conditioner

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R410a	5.75	0.82	62.94	3.93
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	12.50	30.00	32.00	1.41

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R410a	8.30	0.92	81.42	5.01
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	12.50	35.00	4.00	1.41

冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	对冲冷量 Hedged Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R410a	11.10	0.99	101.10	6.61
	测试工况 Test Conditions			
	蒸发温度 Evap. Temp.	冷凝温度 Cond. Temp.	蒸发器回升温差 Evap. Temp. rise difference	蒸发器回升压差 Evap. Pressure rise difference
	°C	°C	Δt K	Δp Bar
	12.50	40.00	4.00	1.41