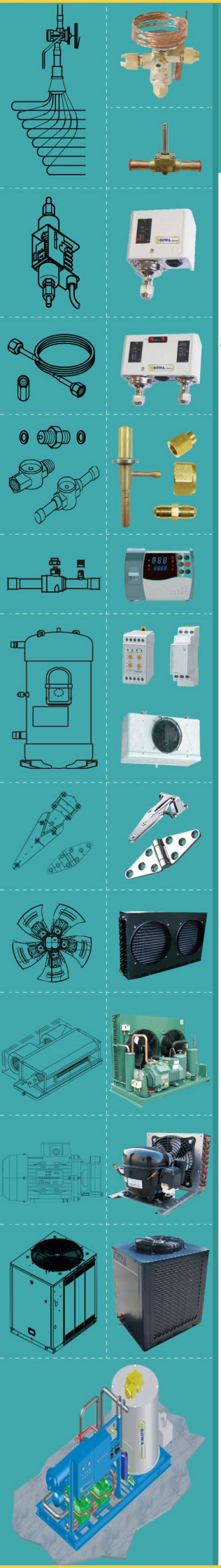
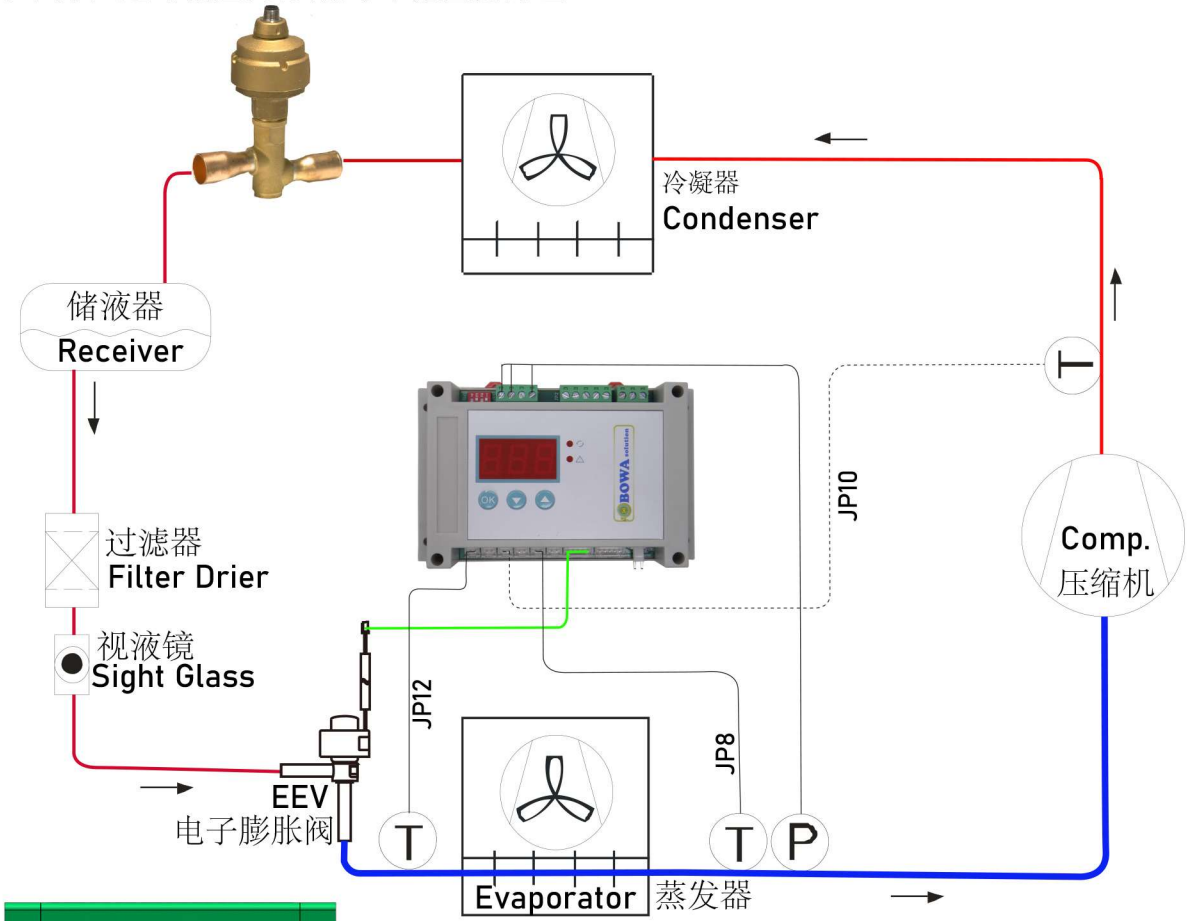
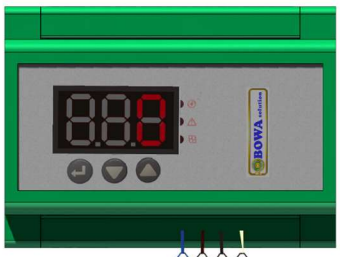


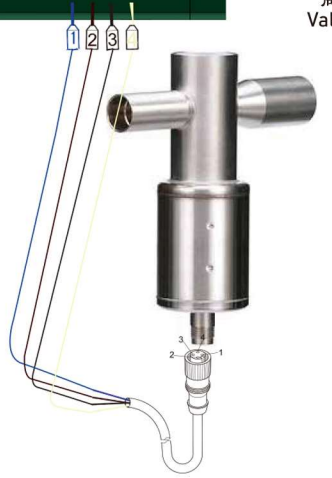
CBD 电动冷凝压力调节阀
Head Pressure Regulator

CBD eletric head presure(condensing pressure) regulator is used to maintain a constant and sufficiently high condensing pressure and temperature in heat pump dehumidifiers, refrigeration and air conditioning plant with air-cooled condensers.

CBD电动冷凝压力调节器或压头阀用于热泵干燥除湿系统，风冷制冷和空调设备等维持恒定冷凝压力形成对环境温度势差.







Model designation 型号说明

CBD - 0.5 Z - HP

CBD	0.5	Z	HP
阀类型 Valve type	名义kV流量 Rated kV flow	制冷剂类型 Refrigerant type	工况 Working Conditions

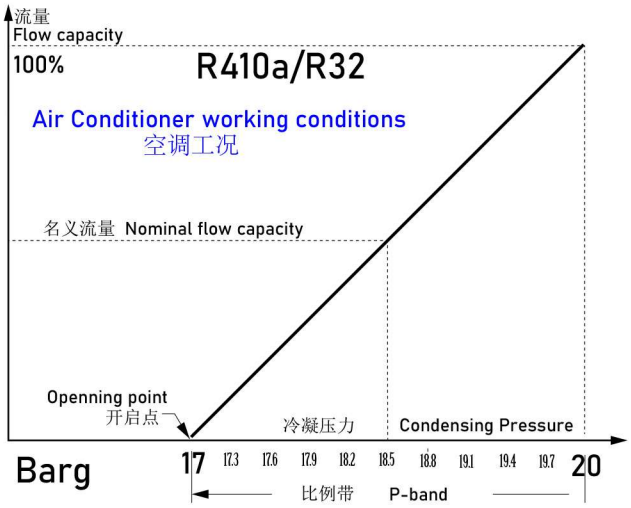
H: R22
Z: R410a/R32
M: R134a/R513a
L: R290
N: R407c
S: R404a/R507

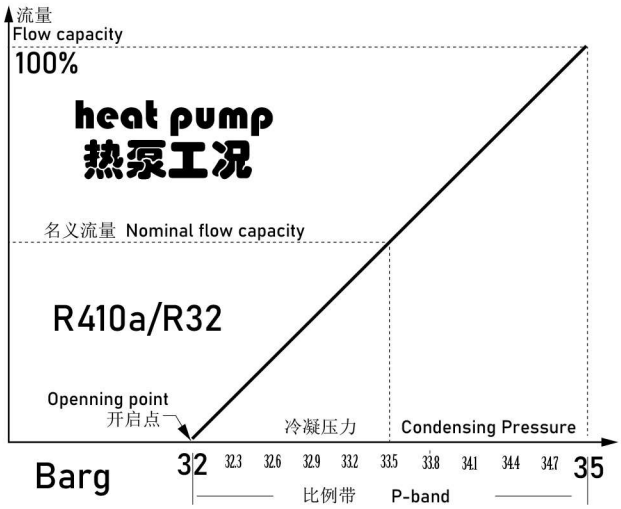
HP: 热泵工况 Heat Pump
AC: 空调工况 Air conditioner
SD: 冷冻工况 Freezer

电动阀构成
1- 脉冲调制器
2- 压力变送器
3- 阀门执行器

Electric regulator includes:
1 - Pulse modulator
2- Pressure Transmitter
3- valve executor

CBD-4电动冷凝压力调节阀
Electric Head Pressure Regulator



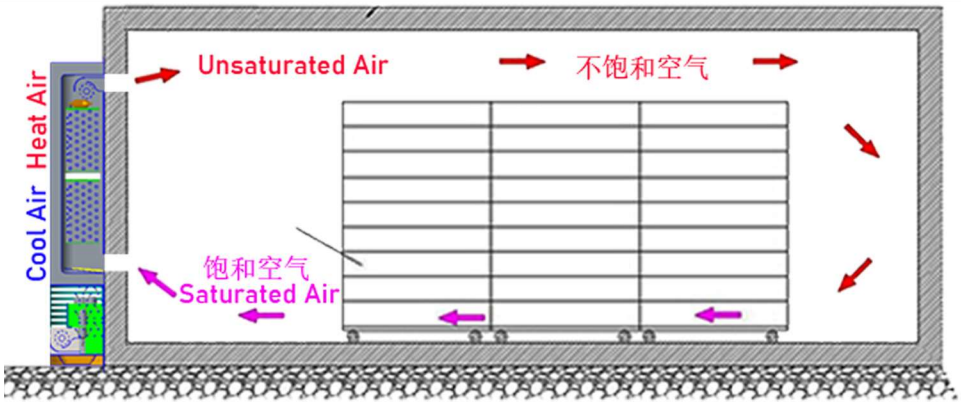


冷凝温度 Condensing Temp.: 30°C; 蒸发温度 Evaporating temp.: 0°C;

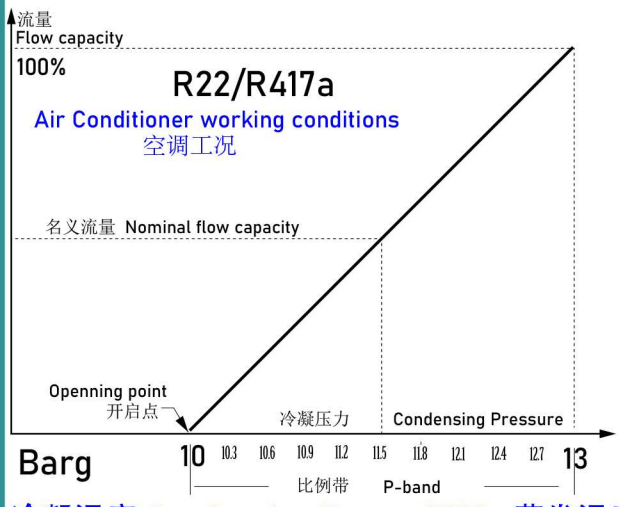
冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R410a	0.1	1.20	1236.56	56.30
	0.2	1.70	1748.76	79.62
	0.3	2.08	2141.79	97.52
	0.4	2.40	2473.13	112.60
	0.5	2.68	2765.04	125.90
	0.6	2.94	3028.95	137.91

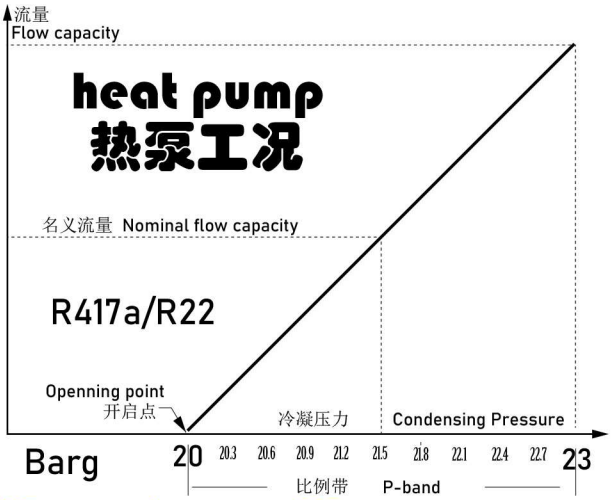
基于热泵除湿工况Basing on heat pump dehumidifier conditions
冷凝温度 Condensing Temp.: 55°C; 干球温度 D.B: 45°C
蒸发温度 Evaporating temp.: 10°C; Dew Point: 12°C 相对湿度RH: 15%

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	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R410a	0.1	1.31	1135.59	38.55
	0.2	1.85	1605.96	54.52
	0.3	2.26	1966.89	66.77
	0.4	2.61	2271.17	77.10
	0.5	2.92	2539.25	86.20
	0.6	3.20	2781.61	94.43



CBD-4电动冷凝压力调节阀
Electric Head Pressure Regulator





冷凝温度 Condensing Temp.: 30°C; 蒸发温度 Evaporating temp.: 2°C;

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	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R22	0.1	1.13	1317.30	58.80
	0.2	1.59	1862.94	83.16
	0.3	1.95	2281.62	101.85
	0.4	2.25	2634.59	117.61
	0.5	2.52	2945.56	131.49
	0.6	2.76	3226.70	144.04

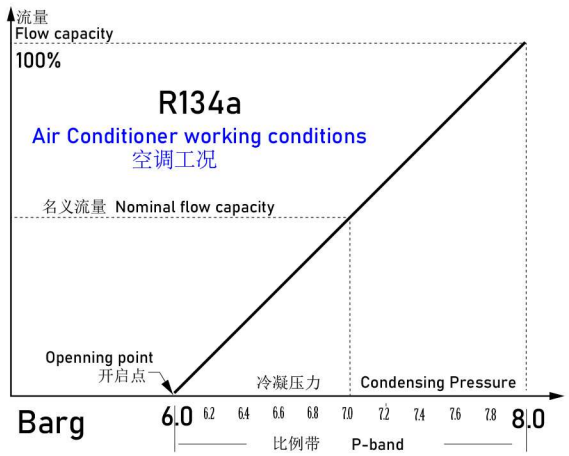
冷凝温度 Condensing Temp.: 30°C; 蒸发温度 Evaporating temp.: -10°C;

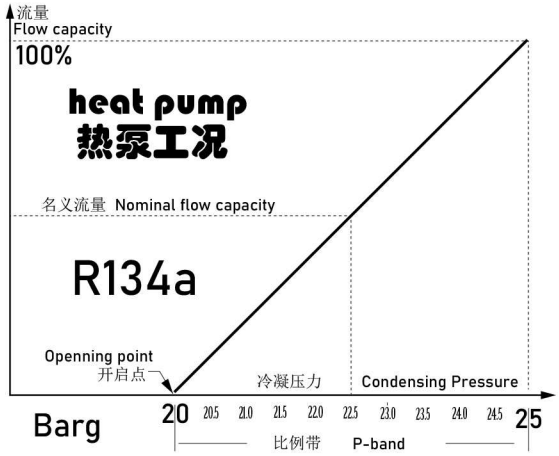
冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R22	0.1	1.13	1317.30	57.21
	0.2	1.59	1862.94	80.91
	0.3	1.95	2281.62	99.09
	0.4	2.25	2634.59	114.42
	0.5	2.52	2945.56	127.93
	0.6	2.76	3226.70	140.14

基于热泵除湿工况Basing on heat pump dehumidifier conditions
冷凝温度 Condensing Temp.: 55°C; 干球温度 D.B: 45°C
蒸发温度 Evaporating temp.: 10°C; Dew Point: 12°C 相对湿度RH: 15%

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	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R22	0.1	1.19	1248.73	45.08
	0.2	1.68	1765.97	63.75
	0.3	2.06	2162.86	78.08
	0.4	2.37	2497.46	90.16
	0.5	2.65	2792.25	100.80
	0.6	2.91	3058.75	110.42

CBD-4电动冷凝压力调节阀
Electric Head Pressure Regulator





冷凝温度 Condensing Temp.: 30°C; 蒸发温度 Evaporating temp.: 0°C;

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	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R134a	0.1	1.12	1326.71	54.92
	0.2	1.58	1876.26	77.67
	0.3	1.94	2297.94	95.13
	0.4	2.23	2653.43	109.85
	0.5	2.50	2966.62	122.81
	0.6	2.74	3249.77	134.54

冷凝温度 Condensing Temp.: 30°C; 蒸发温度 Evaporating temp.: -10°C;

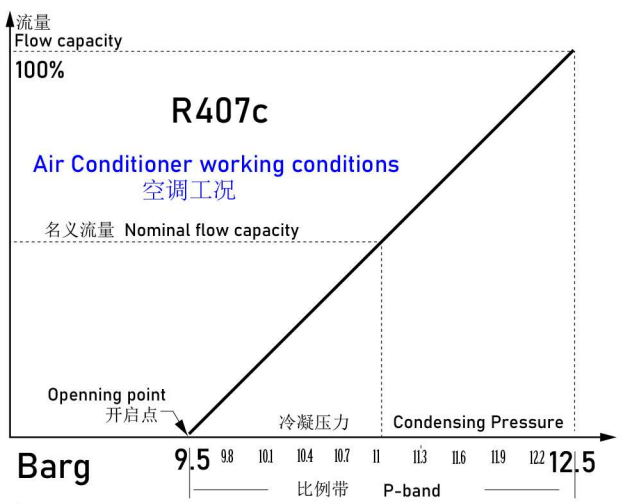
冷媒 Refrigerant	进出阀压降 Pressure drop across valve	工况体积流量 Working Volume flow	工况质量流量 Working Mass Flow	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R134a	0.1	1.12	1326.71	52.84
	0.2	1.58	1876.26	74.73
	0.3	1.94	2297.94	91.53
	0.4	2.23	2653.43	105.69
	0.5	2.50	2966.62	118.16
	0.6	2.74	3249.77	129.44

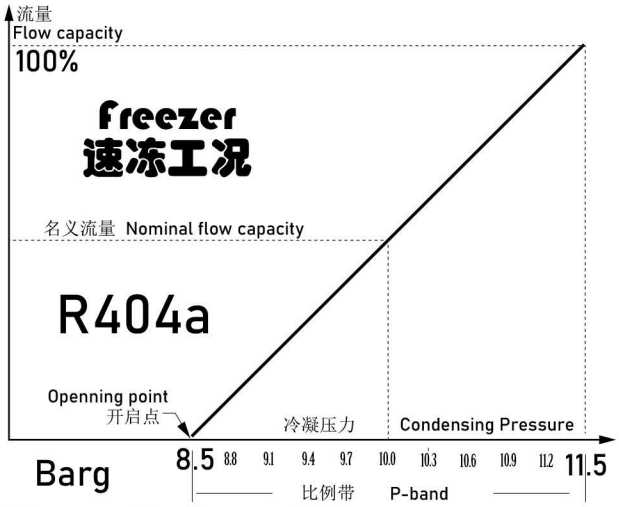
基于热泵除湿工况Basing on heat pump dehumidifier conditions
冷凝温度 Condensing Temp.: 75°C; 干球温度 D.B: 65°C
蒸发温度 Evaporating temp.: 15°C; Dew Point: 21°C 相对湿度RH: 10%

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	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R134a	0.1	1.24	1199.57	30.14
	0.2	1.75	1696.45	42.62
	0.3	2.14	2077.72	52.20
	0.4	2.47	2399.14	60.27
	0.5	2.76	2682.32	67.39
	0.6	3.03	2938.33	73.82

BOWA solution

CBD-4电动冷凝压力调节阀
Electric Head Pressure Regulator





冷凝温度 Condensing Temp.: 30°C; 蒸发温度 Evaporating temp.: 2°C;

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	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R407c	0.1	1.12	1326.71	60.72
	0.2	1.58	1876.26	85.87
	0.3	1.94	2297.94	105.17
	0.4	2.23	2653.43	121.44
	0.5	2.50	2966.62	135.78
	0.6	2.74	3249.77	148.74

冷凝温度 Condensing Temp.: 20°C; 蒸发温度 Evaporating temp.: -10°C;

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	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R404a	0.1	1.18	1257.54	43.60
	0.2	1.67	1778.43	61.65
	0.3	2.04	2178.13	75.51
	0.4	2.36	2515.08	87.19
	0.5	2.64	2811.95	97.48
	0.6	2.89	3080.34	106.79

冷凝温度 Condensing Temp.: 20°C; 蒸发温度 Evaporating temp.: -30°C;

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	冷量 Cooling Capacity
	Bar	m³/hour	kgs/hour	kw
R404a	0.1	1.18	1257.54	39.95
	0.2	1.67	1778.43	56.50
	0.3	2.04	2178.13	69.20
	0.4	2.36	2515.08	79.90
	0.5	2.64	2811.95	89.33
	0.6	2.89	3080.34	97.86