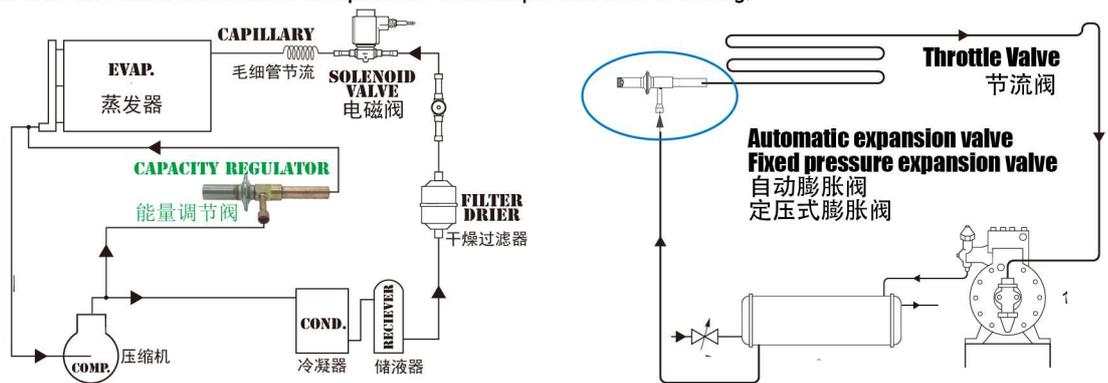


CBX压力调节阀主要功能是当阀的出口压力发生变化时, 阀门会自动调节性关闭和开启, 保持出口压力恒定在设定值上, 且不受进口压力(一定范围内)的影响。广泛用于定速压缩机且无能量调节机构的制冷、空调和热泵系统能量调节, 喷液节流及蒸发器防冻, 全封闭压缩机回油节流等。

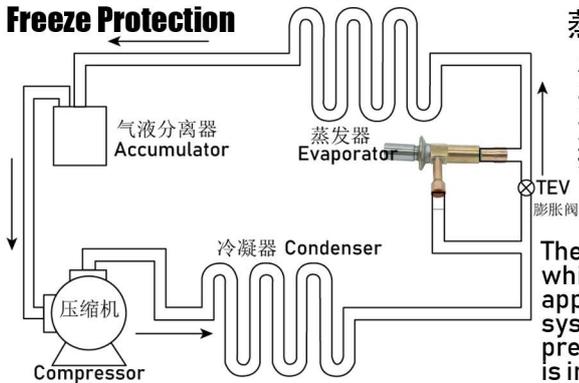
CBX pressure regulator can automatically open/close to get the constant outlet pressure on regardless of the change of inlet pressure (within a certain range). It is used to regulate capacity of constant comp. refrigeration, air conditioner and heat pump which is without capacity regulator, throttle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



制冷剂 (适用CFC, HCFC, HFC制冷剂) Refrigerant (All CFC, HCFC, HFC)	压力可调节范围 Adjustable Range	设定压力 Setting Pressure
R134a/R450a R22/R417a, R407c, R142B, R123 R23/R170, R14, R50, R404A/507, R290, R600a	1-7 bar	4bar
R410A/R32	1-12 bar	7.5bar

### Freeze Protection

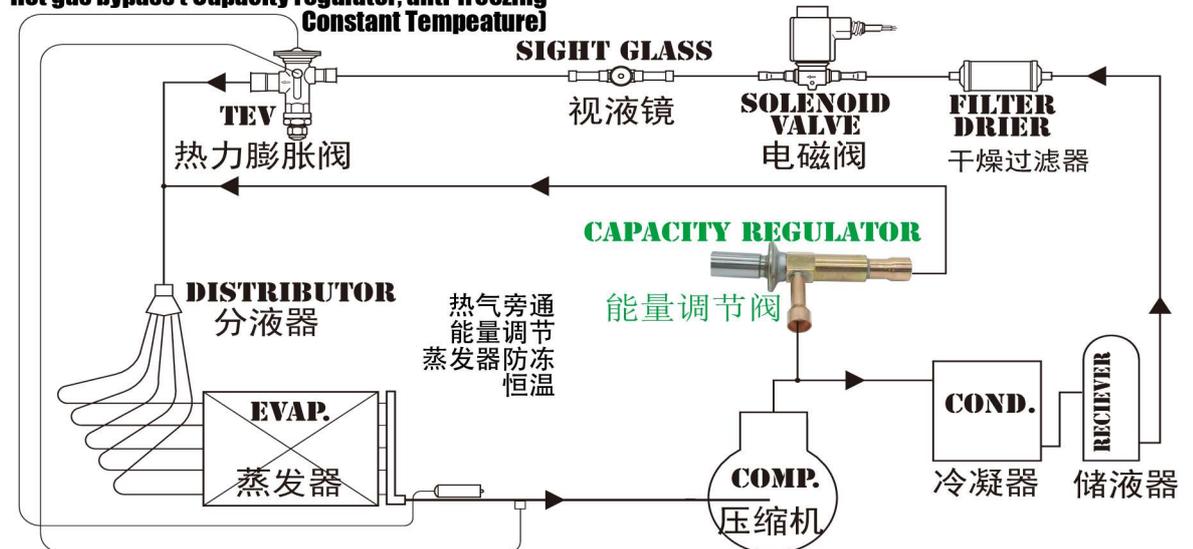
### 蒸发器防冻保护



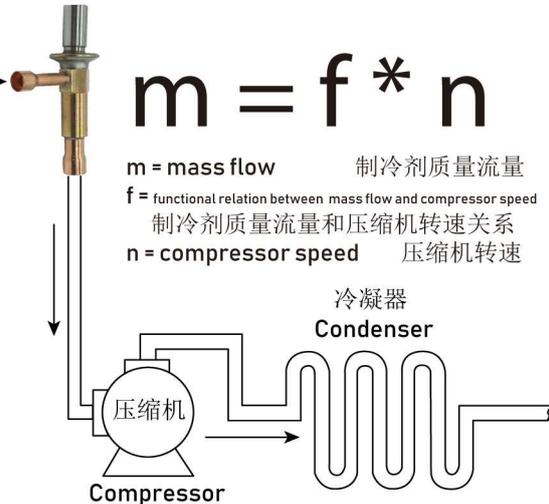
在小型空凋制冷设备中, 和主路膨胀阀并行安装以防止蒸发器冻结. 当主路膨胀阀喷液量不足时, 恒压阀开启以维持最低蒸发压力. 推荐协同气液分离器使用, 避免压缩机液击.

The valves can be used to prevent evaporator freezing, which may occur at low loads on small air conditioning applications. The valve is installed in parallel with the system expansion device to maintain a minimum evap. pressure when flow through the main expansion valve is insufficient. An accumulator to protect the compressor from liquid is recommended.

### Hot gas bypass (Capacity regulator, anti-freezing Constant Temperature)



### Crankcase Pressure Limiting 曲轴压力限制



压缩机单位理论耗功 **kJ/kg (kcal/kg)**  
 Unit theoretic power consumption

$$AI = i_{\text{压出}} - i_{\text{压进}}$$

The constant pressure valves can be used to limit the max. operating suction pressure to the compressor. The valve is adjusted to open at a predetermined outlet pressure while re-stricting flow at higher system inlet pressures in order to protect the compressor.

恒压阀用于限制压缩机最大吸气压力,防止过载.该阀在预设出口压力下开启,限定较高压力的冷媒质量流量,以保护压缩机。

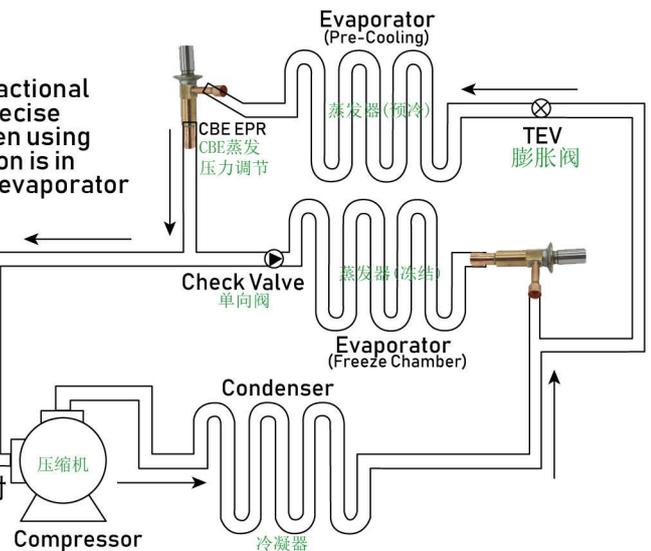
### Ice cream maker 冰激凌机

The CBE valves are specifically designed for fractional horsepower evaporator applications where precise control of evaporator pressure is required when using a primary expansion device. A typical application is in a multiple evaporator system where different evaporator pressures and temperatures are desired.

The CBE valves may be used to control at a higher evaporator pressure than is present at the compressor suction.

**CBE蒸发压力调节阀**专为小型蒸发器应用而设计,在使用主膨胀机构时需要精确控制蒸发器压力,典型的应用是在多个蒸发器系统中,需要不同的蒸发器压力和温度。

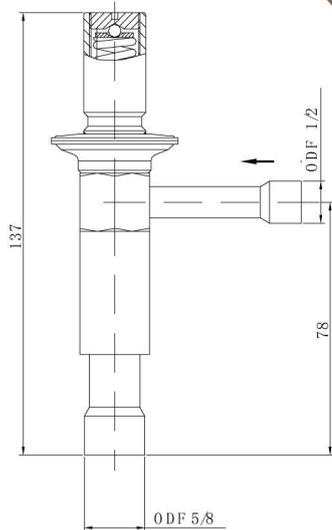
**CBE蒸发压力调节阀**可用于在比压缩机吸力时更高的蒸发压力下进行控制。



型号 Model	名义制冷量 Nominal capacity (kw)					连接形式尺寸 Connection size
	R134a	R22	R407c	R404A/507	R410A	
CBX-01	0.97	1.77	1.82	1.38	2.12	焊接铜管 进口 Inlet: $\phi$ 8 ODF 出口 Outlet: $\phi$ 12 ODM
CBX-02	1.30	2.36	2.43	1.84	2.83	
CBX-03	1.95	3.54	3.65	2.76	4.25	
CBX-04	2.92	5.31	5.47	4.14	6.37	
CBX-05	3.89	7.08	7.29	5.52	8.50	
CBX-06	5.83	10.60	10.90	8.27	12.70	
CBX-07	7.76	14.10	14.50	11.00	16.90	
CBX-08	9.74	17.70	18.20	13.80	21.20	
CBX-09	11.66	21.20	21.80	16.50	25.40	
CBX6-01	13.60	24.70	25.40	19.30	29.60	焊接铜管 进口 Inlet: $\phi$ 1/2 ODF 出口 Outlet: $\phi$ 5/8 ODF
CBX6-02	15.60	28.30	29.20	22.10	33.90	
CBX6-03	17.50	31.80	32.80	24.80	38.20	
CBX6-04	19.50	35.40	36.50	27.60	42.50	

名义制冷量基于: 蒸发温度为  $T_e=3^\circ\text{C}$ ; 冷凝温度为  $T_c=38^\circ\text{C}$ , 进入阀门液态制冷剂  $T_l=37^\circ\text{C}$ ; 过冷度  $T_{\text{sub}}=1\text{K}$ .  
 Note: Condensing temperature  $T_c=38^\circ\text{C}$ , evaporating temperature  $T_e=3^\circ\text{C}$ ; Refrigerant temperature ahead of valve:  $T_l=37^\circ\text{C}$ ; Subcooling:  $T_{\text{sub}}=1\text{K}$ ;

**CBX6-01 ~ CBX6-04**



**CBX-01 ~ CBX-09**

