

压缩机喷液冷却控制器 Desuperheating controller ●

Refrigerant injection into the suction line EEV-C6 Desuperheat valves are used to inject refrigerant into the suction line of the refrigeration system to reduce the high discharge temperatures that can occur when the system operates with highly superheated suction vapour. This applies when, for example:

- * a compressor runs either with low suction pressure or with high condensing temp.
- * a compressor runs with both low suction pressure and high condensing temp. (This applies especially to systems with R 22).
- * a compressor receives highly superheated suction vapour.
- * a compressor runs with capacity regulation by hot gas bypass.

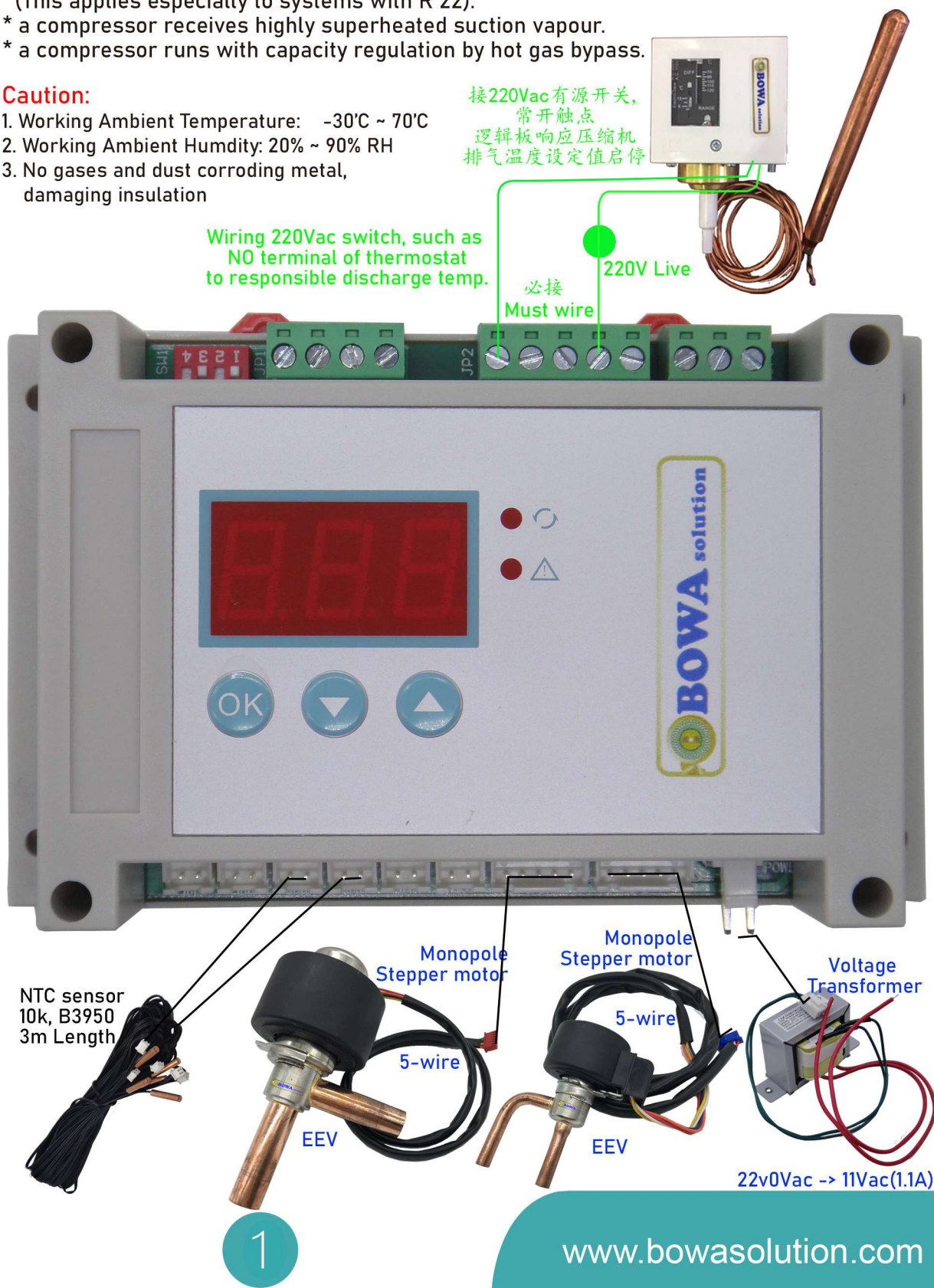
Caution:

1. Working Ambient Temperature: $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$
2. Working Ambient Humidity: 20% ~ 90% RH
3. No gases and dust corroding metal,
damaging insulation

接220Vac有源开关，
常开触点
逻辑板响应压缩机
排气温度设定值启停

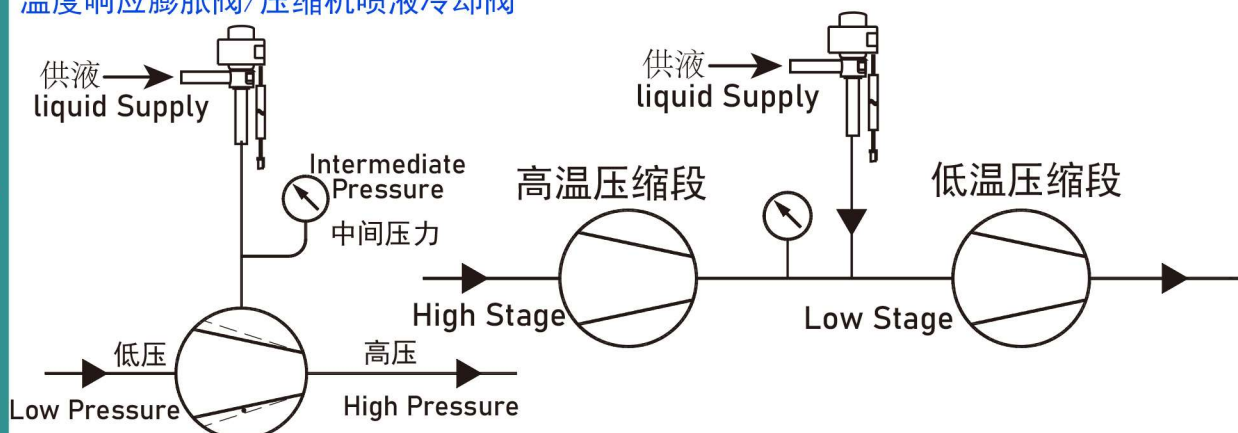
Wiring 220Vac switch, such as NO terminal of thermostat to responsible discharge temp.

必接
Must wire



Temperature responsive expansion valve/Liquid Injection Valve

温度响应膨胀阀/压缩机喷液冷却阀



喷液冷却组件主要功能如下:

1) 制冷剂喷射吸气管路

液体冷媒喷液冷却组件用于将制冷剂喷射如制冷、空调、热泵等设备吸气管路，以减少因吸气温度过低或过高；在高环境温度下运行的制冷设备运行时可能发生的过高排气温度。

适用于下列应用环境：

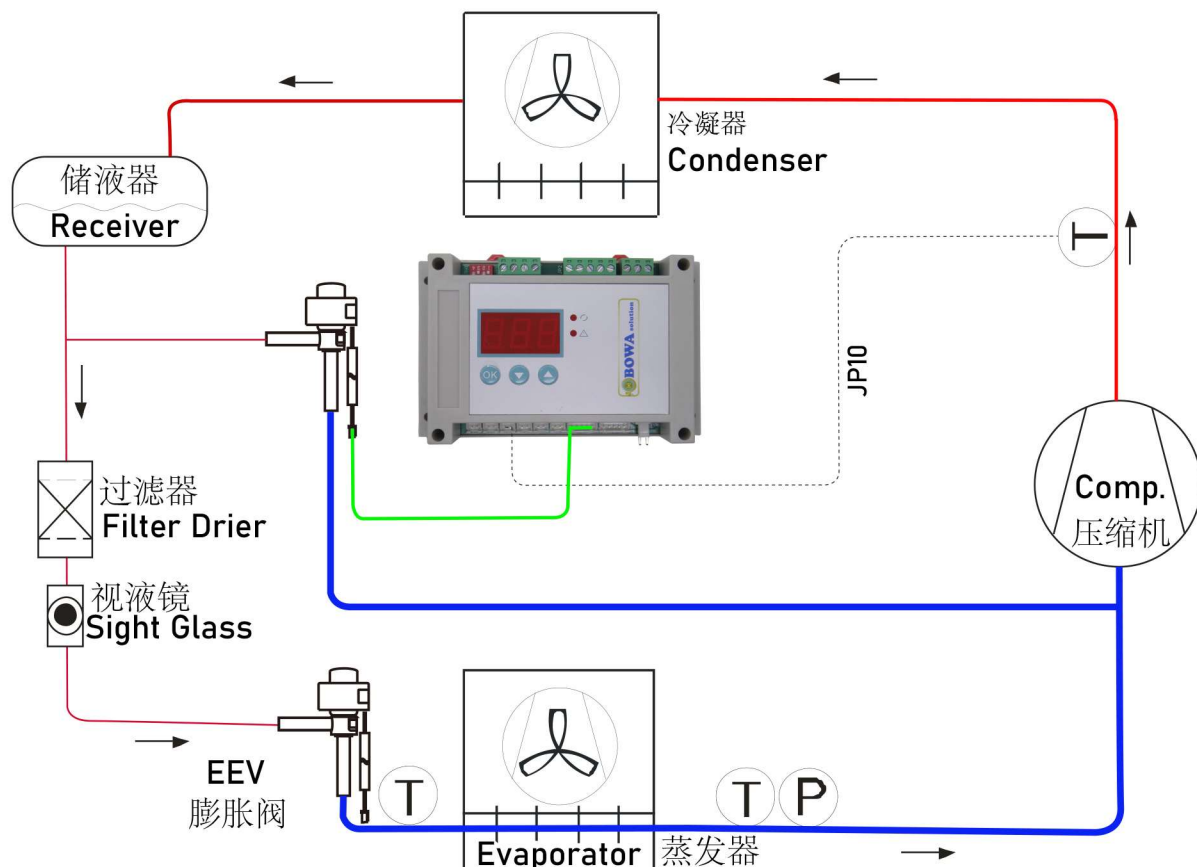
- * 压缩机运行时过低吸气压力或高冷凝温度。
- * 压缩机运行时过低吸气和冷凝温度。这尤其适用于R22制冷系统。
- * 压缩机过高吸气温度。
- * 压缩机通过热气旁路进行容量调节。

2) 双级压缩机制冷及热泵设备

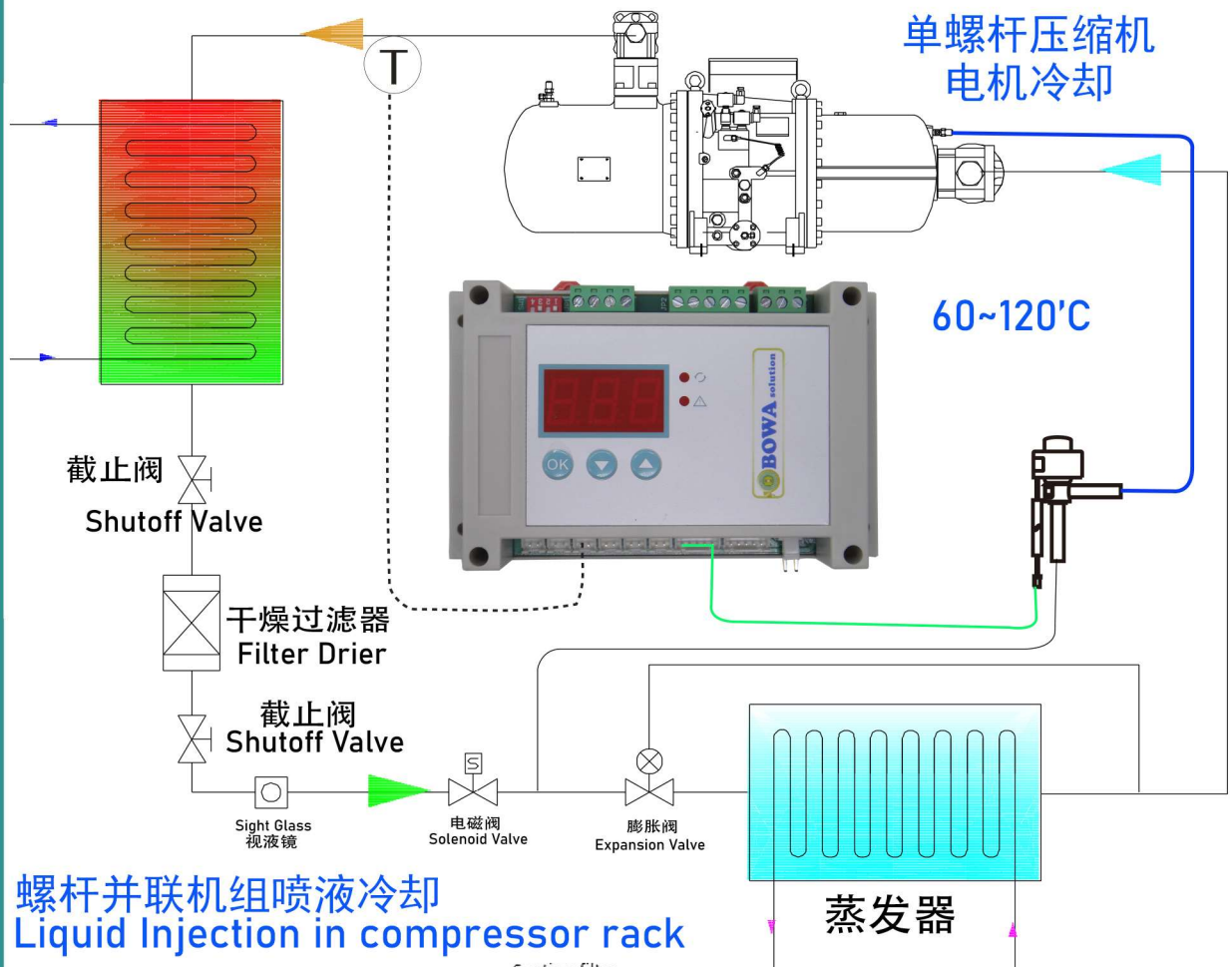
冷却组件也用于两级制冷设备，以控制液体注入中间冷却器。感温包安装在压缩机的高压排气管路上。给定操作条件的理论可获得的排出温度可以在有关制冷剂的压焓图中找到。

3) 介质温度调节

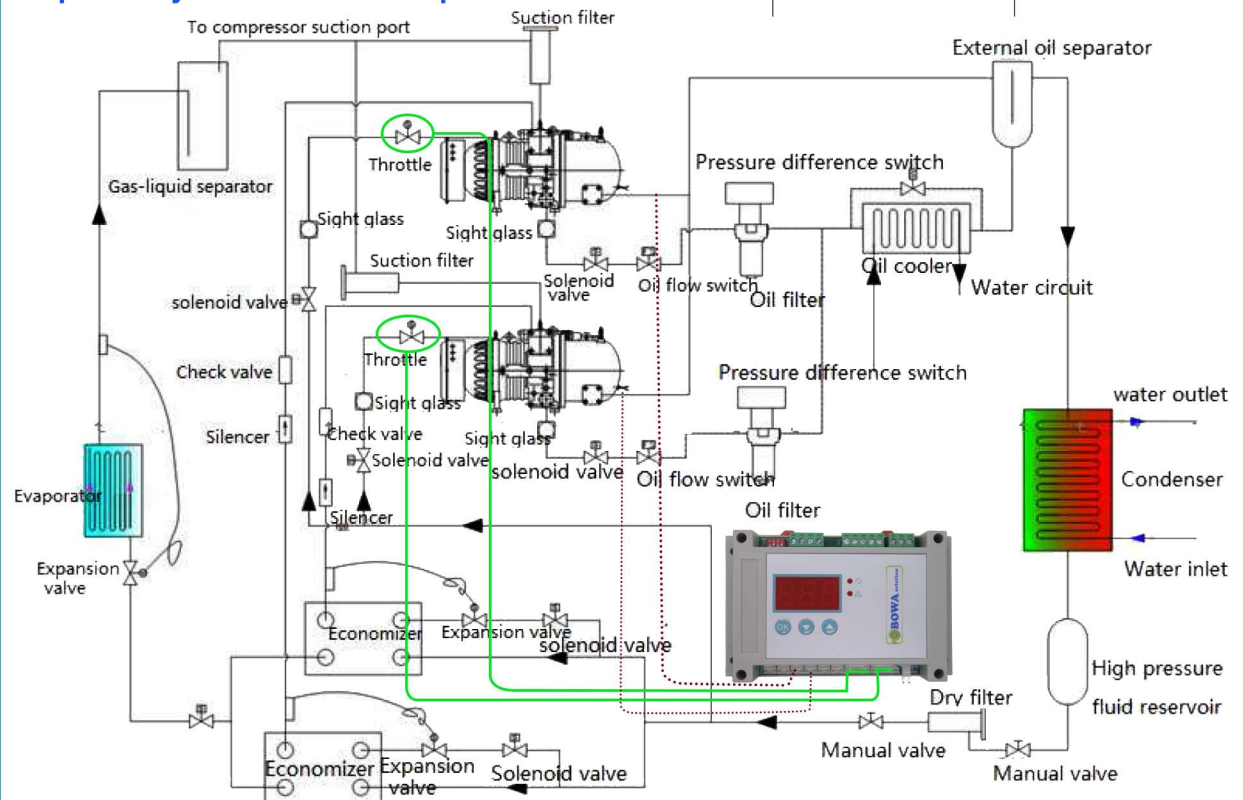
冷却组件还有另外的应用：截止的温度调节，例如螺杆压缩机中润滑油的温度。



In single screw compressor motor cooling



螺杆并联机组喷液冷却 Liquid Injection in compressor rack





温度响应膨胀阀应用螺杆油冷

Temperature responsible expansion valve in oil cooling

