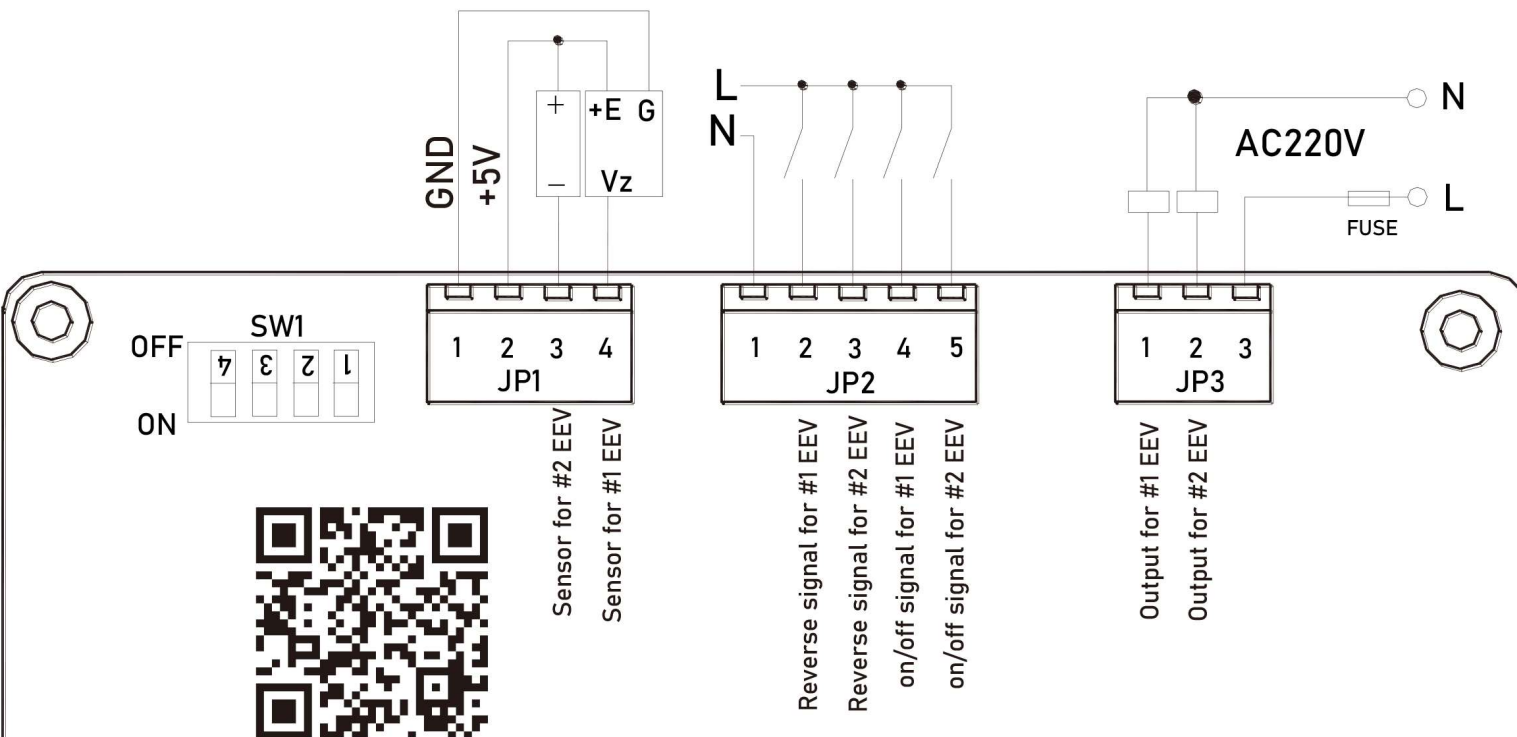
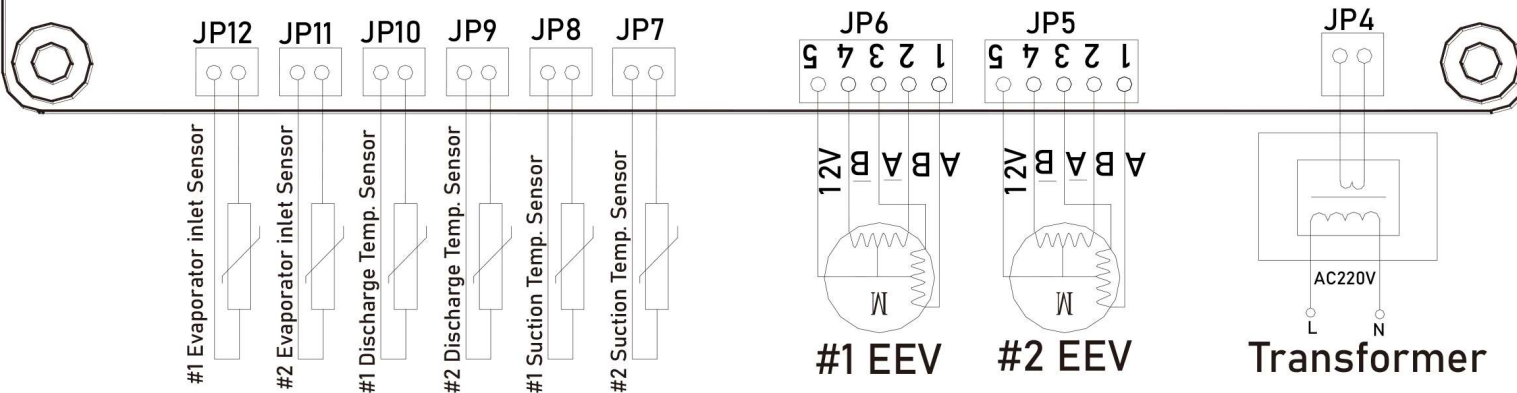




EEV-C6

Wiring Diagram 接线图



SW1 description SW1说明

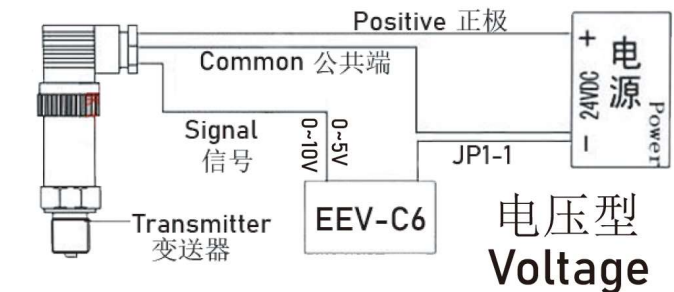
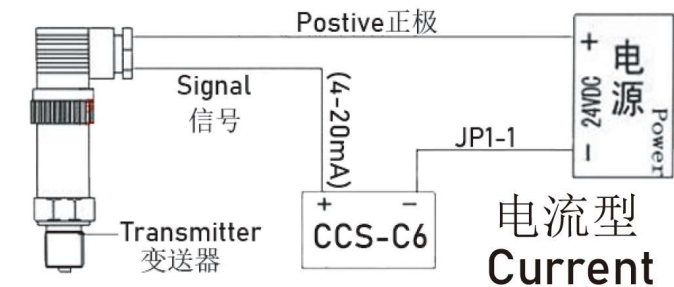
Transmitter	SW1.1	SW1.2	SW1.3	SW1.4
JP1-4 Voltage	X	X	OFF	ON
JP1-4 Current	X	X	ON	OFF
JP1-3 Voltage	OFF	ON	X	X
JP1-3 Current	ON	OFF	X	X

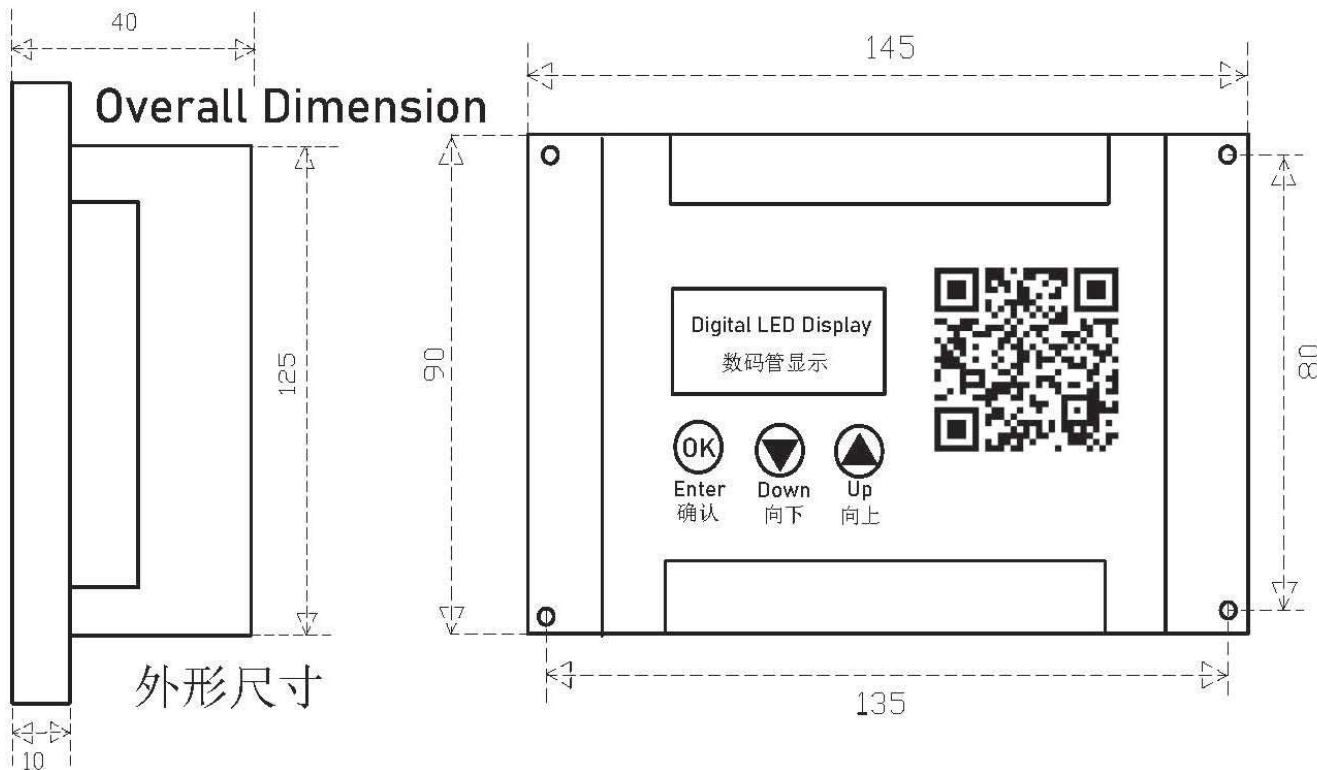
X: Ignore 忽略

JP1 description (optional) JP1说明 (选接)

Transmitter 变送器	EEV Nos. 电影序号	Toggle Switch 拨码开关	Wiring 接线	Remark 备注
Current 电流型 4~20mA	#1	SW1.3: ON SW1.4: OFF	JP1-2 JP1-4	1.) 24Vdc Negative connect JP1-1 2.) JP1-3, JP1-4 = signal output
	#2	SW1.3: ON SW1.4: OFF	JP1-2 JP1-3	
Voltage 电压型 0~5V 0~10V	#1	SW1.3: OFF SW1.4: ON	JP1-2 JP1-4	1.) JP1-1 = GND 2.) JP1-2 = 5V power supply
	#2	SW1.3: OFF SW1.4: ON	JP1-2 JP1-3	

If using transmitter/pressure sensor, evaporator inlet temp. sensor will not work any more. 若使用变送器或传感器





OK Press **OK** to enter menu or confirm changes
按 **OK** 进入菜单或确认修改

Down Up Press **Down Up** to choose parameter
按 **Down Up** 选择参数

1. Fault Inquiry 故障查询

There appears error code when fault, press **Down Up** in turn to display code(Exx)
有故障时，显示故障代码，按 **Down Up** 切换故障代码显示 (Exx)

2. Status Inquiry 状态查询

Press **Down Up** in turn to display status code(Uxx) and press **OK** to check the status
If press **OK** again, it will return.
按 **Down Up** 切换故障代码显示 (Uxx); 按 **OK** 查看此项状态; 再按 **OK** 返回上一级菜单。

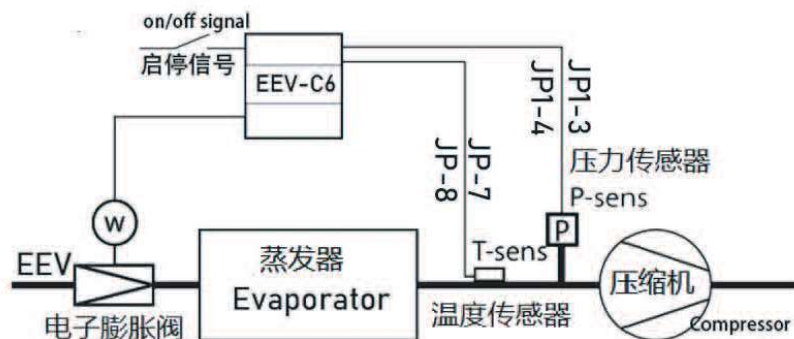
3. Parameters Setting 设置参数

Press **Down** one more enter setting status (Pxx) after status inquiry U19;
Press **OK** to check the parameter status and press **Down Up** to change parameter;
Press **OK** to return. (It need change parameter P30 into "1" to allow changing other parameters. In order to avoid mistake operation, please change P30 back "0"
状态查询到U19后，继续按一下 **Down** 进入参数菜单(Pxx); 按 **OK** 查看参数; 此时按 **Down Up** 可修改参数; 再按 **OK** 返回上一级菜单。(将P30修改为“1”以后才修改其他参数。为了避免误操作，参数修改完后，请将P30改为“0”。)

3. Reset 复位 : Long press **OK** 3 seconds 常按 **OK** 3秒

4. Initialize 初始化 : Press **Down Up** 3seconds synchronously 同时按 **Down Up** 3秒

JP1 description (optional) JP1说明 (选接)



JP3 description (optional) JP1说明 (选接)

JP3-1: #1 EEV fault output (sensor fault)
#1电子膨胀阀故障 (主要时探头故障)
Alarm when close
闭合，报警输出

JP3-2: #2 EEV fault output (sensor fault)
#2电子膨胀阀故障 (主要时探头故障)
Alarm when close
闭合，报警输出

JP4 description JP4说明

Transformer变压器

Power Supply供电电源:
AC220~240V, 47~63Hz
Output输出: DC12V

JP2 description JP2说明

JP2-2: #1 Reverse valve coil on/off signal (220Vac) (it will decide JP8 evaporator inlet temp. sensor location) 1#四通阀线圈得电与否(220Vac) (此决定蒸发温度温感位置)
JP2-3: #2 Reverse valve coil on/off signal (220Vac)(it will decide JP7 evaporator inlet temp. sensor location) 2#四通阀线圈得电与否(220Vac) (此决定蒸发温度温感位置)
JP2-4: #1 Compressor on/off signal (220Vac)(it will decide EEV working or not, must be connected) 1#压缩机启停信号(220Vac) (此决定电子膨胀阀工作与否，必接)
JP2-5: #2 Compressor on/off signal (220Vac) (it will decide EEV working or not, must be connected) 2#压缩机启停信号(220Vac) (此决定电子膨胀阀工作与否，必接)

1. 接线前，请务必切断电源，禁止带电作业
Before wiring, It must cut off main power supply; Pohibit electric live operation
2. 请严格按照说明书接线，避免错接导致主板损坏或其他损失
Please correct wiring following wiring diagram to avoid damage the board
3. 安装布线时，请遵循强弱电分开原则，使主板与接触器的距离保持在50mm以上，避免强电磁干扰。周边有变频设备，请按规范做好屏蔽措施
When wiring, please following strong and weak separation principle, Keep distance between the board and the contactor more than 50mm, in order to avoid strong electromagnetic interference; Please make the shield according to the rules if there have frequency inverter devices around.
4. 请勿将温度传感器长期浸泡在水中，影响感温精度。
Don't sink temperature sensor into water long time to avoid temperature resolution
5. 现场安装需延长传感器连接线，请选用纯铜低电阻电线。严禁使用网线作为延长线。距离越远，线径应选越粗。连接线不要简单手拧，尽量使用压线帽压接良好，有条件使用电路铁焊接并做好绝缘处理。
Please select pure copper & low resistant wire if it need extend temperature sensor wire at the site. Longer wire, thicker wire. NO hand twist connection, prefer connection with wire nuts.

Control mode 控制模式

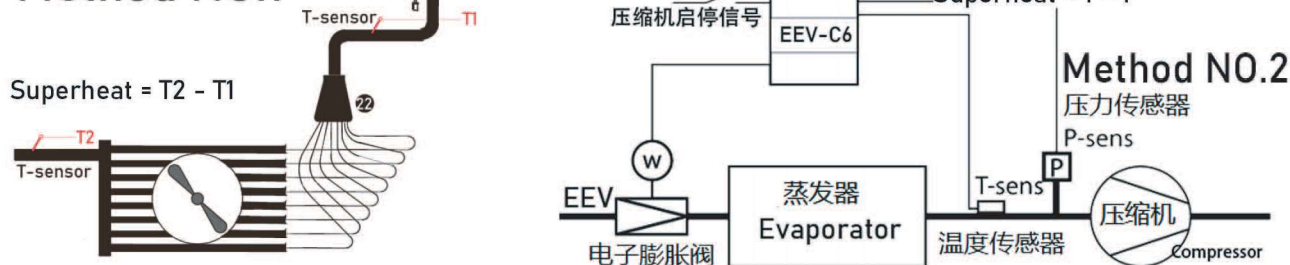
1.) Manual 手动模式

Change parameter "P19" into "1", then EEV opening will be controlled by P20 & P21 Usually it is for debugging 参数“19”控制方式改为“1”，膨胀阀开度由P20 & P21决定

2.) Superheat 过热度模式

Change parameter "P19" into "2", then EEV opening will be controlled by superheat. And superheat can be get as following 2 methods. 参数“19”控制方式改为“2”，过热度可通过2种方式得到。

Method NO.1



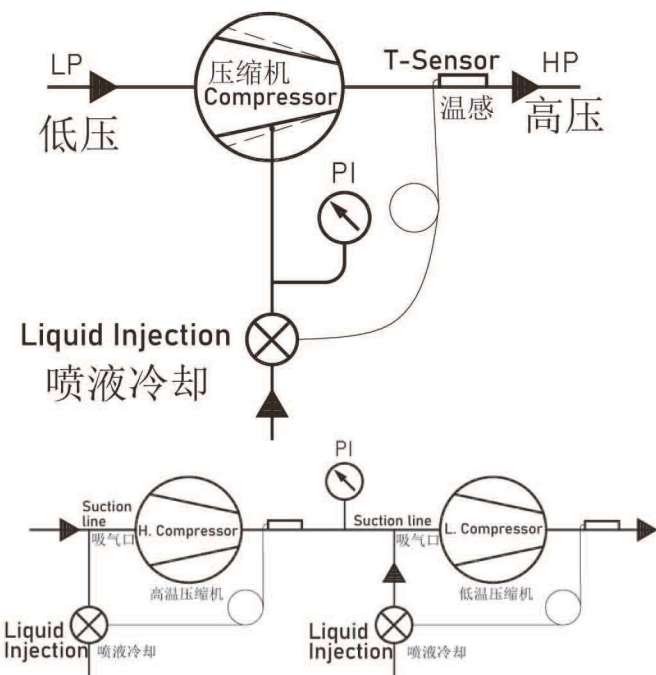
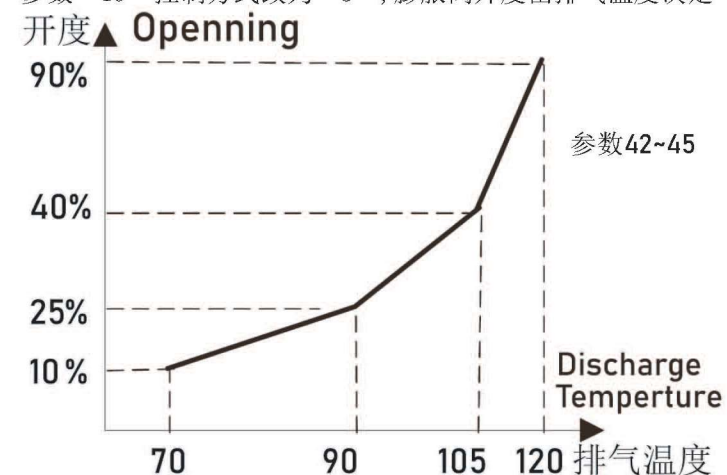
Logic process

- a. When get on signal, EEV opening reaches initial opening quickly. (P14=initial opening, default=35%)
压机开启后，膨胀阀迅速开到初始开度 (P14=初始开度, 默认35%)
- b. When evaporator inlet temp. < P17, EEV opening will not be smaller any more 蒸发温度 < P17, 不再关小
When evaporator inlet temp. > P18, EEV opening will not be bigger any more 蒸发温度 > P18, 不再开大
- c. When get off signal, EEV will be closed quickly. 压机关闭后，迅速关闭。

3.) Liquid Injection 喷液冷却模式

Change parameter "P19" into "3", then EEV opening will be controlled by discharge temperature (P32 ~ P45).

参数“19”控制方式改为“3”，膨胀阀开度由排气温度决定



3.) Analog control 模拟量控制

Change parameter "P19" into "4", then EEV opening will be controlled by JP1-3 and JP1-4.

参数“19”控制方式改为“4”，开度由JP1-3 and JP1-4决定

Error code错误代码

E00	Parameters storage fault 参数存储错误	
E01	1# Suction temp. fault 1#吸气温度故障	
E02	1# Evaproator inlet temp. fault 1#制冷阀后温度故障	
E03	1# Evaproator inlet temp. fault in heating mode 1#制热阀后温度故障	P2设置成排气时，为1#排气温度故障
E04	2# Suction temp. fault 2#吸气温度故障	
E05	2# Evaproator inlet temp. fault 2#制冷阀后温度故障	
E06	2# Evaproator inlet temp. fault in heating mode 2#制热阀后温度故障	P2设置成排气时，为2#排气温度故障
E07	1# Overhigh Discharge temp. 1#排气温度过高	
E08	2# Overhigh Discharge temp. 2#排气温度过高	
E09~12	Standby 备用	

Status Code 状态代码

U00	1# EEV initial openning (default when power on) 1#电膨开度(上电默认显示), 膨胀阀超过1个,滚动显示1#, 2#开度。(右小角有“点”=2#阀开度)	% (If 2 EEVs, it show 1# and 2# EEV openning in turn. the lower right is 2#)
U01	1# real time superheat 1#当前过热度	°C
U02	1# preset superheat 1#设定过热度	°C
U03	1# suction temperature 1#吸气温度	°C JP8
U04	1# suction saturated temperature 1#吸气饱和温度	°C
U05	1# evaporator inlet temperature 1#蒸发温度	°C JP12
U06	1# evap. temp. in heating mode/Discharge temp. 1#蒸发温度/排气温度	°C JP10
U07	1# Suction pressure 1#吸气压力	bar JP1-4
U08	1# Working Status 1#运行状态	
U09	Standby 备用	
U10	2# EEV openning 2#电膨开度	%
U11	2# real time superheat 2#当前过热度	°C
U12	2# preset superheat 2#设定过热度	°C
U13	2# suction temperature 2#吸气温度	°C JP7
U14	2# suction saturated temperature 2#吸气饱和温度	°C
U15	2# evaporator inlet temperature 2#蒸发温度	°C JP11
U16	2# evap. temp. in heating mode/Discharge temp. 2#蒸发温度/排气温度	°C JP9
U17	2# Suction pressure 2#吸气压力	bar JP1-3
U18	2# Working Status 2#运行状态	
U19	Switch on/off status 开关量参数	JP2

Parameter List 参数表

Code	Name	Default	Ranges	Remark	
P00	EEV qty电膨个数	2	1~2		
P01	Transmitter usage 压力传感器使用	Stop 不用	0 = Stop 不用 1= Current 电流型 2= Voltage 电压型		
P02	JP9,JP10温感定义 JP9, JP10 sensor define	排气 Dicharge	Stop 不用 1= eva. temp. in heating mode制热阀后; 2= Discharge		
P03	Transmitter min.output 压力传感器输出最小	0.0V	0.0~5.0	If P01=1, unit=mA P01设置电流型时，单位 =mA	It need these parameters when P01 is in using P01使用时，才需要这 些参数
P04	Transmitter max.output 压力传感器输出最大	5.0V	0.0~12		
P05	Transmitter min.measure 压力传感器量程最小	0.0bar	0~30.0		
P06	Transmitter max.measure 压力传感器量程最大	18.2bar	-10~100.00		
P07	Refrigerant制冷剂	0	0 = R22/R417A; 1 =R134a/R290; 2 = R407c; 3=R410a; 4=R404a		
P08	励磁方式 Excitation Method	0	0 = 1-2 phase Excitation; 1 = 2-2 phase Excitation		
P09	励磁速度 (pps) Excitation Speed	0	0: 31pps; 1: 62pps; 2: 83pps 3: 100pps; 4: 125pps; 5: 166pps; 6: 250pps		
P10	总步数 Pulse	500	0 ~ 9000		

Parameter List 参数表					
Code	Name	Default	Ranges	Remark	
P11	最小开度 Min. Opening	10%	0~100		
P12	停机开度 Opening when power off	0%	0~100		
P13	除霜开度 Opening when defrosting	65%	0~100		
P14	初始开度 Initial opening	35%	0~100		
P15	初始开度维持时间 Initial opening hold-up time	20s	0~600		
P16	过热度 Superheat	3.0℃	-10~60		
P17	Min. Eva. temperaturure 最低蒸发温度	-15℃	-30~30	Only working in P19=2 过热度控制模式下才有效	
P18	Max. Eva. temperaturure 最高蒸发温度	18.0℃	5~95		
P19	Control Mode 控制方式	2	1 = Manual 手动; 2=Superheat 过热度; 3=discharge temp. 排气温度; 4=Analog control模拟量控制		
P20	1# EEV manual opening 1# 电膨手动开度	0%	0~100	ONLY working in P19=1 手动控制模式下才有效	
P21	2# EEV manual opening 2# 电膨手动开度	0%	0~100		
P22	比例带 Proportional band	500	1~9000		
P23	积分时间 Integral time	150	0~900		
P24	1#吸气温度补偿 1# Suc.Temp. Compensation	0.0℃	-30~30		
P25	2#吸气温度补偿 2# Suc.Temp. Compensation	0.0℃	-30~30		
P26	1#蒸发温度补偿 1# Eva.Temp. Compensation	0.0℃	-30~30		
P27	2#z蒸发温度补偿 2# Eva.Temp. Compensation	0.0℃	-30~30		
P28	1#吸气压力补偿 1# Suc. Press. Compensation	0.0bar	-10~10	Only working when P01=1 or P01=2 P01设置成使用	
P29	2#吸气压力补偿 2# Suc. Press. Compensation	0.0bar	-10~10		
P30	Permit to changer parameter 允许修改阐述	0	0= prohibit 禁止; 1=permit 允许		
P31	Standby 备用				
P32	Standby 备用				
P33	Max. Opening 最大开度	30%	30~100		
P34	Liquid reponsive temp. 喷液响应温度	95℃	60~130	No more than max. opening 该值不能大于最大开度	Only working when in P19=3 只有排气控制模式下才工作
P35	EEV opening 1 电膨开度1	10%	0~100		
P36	EEV opening 2 电膨开度2	25%	0~100		
P37	EEV opening 3 电膨开度3	40%	0~100		
P38	EEV opening 4 电膨开度4	90%	0~100		
P39	Discharge Temp.1 排气温度1	70℃	50~130		
P40	Discharge Temp.2 排气温度2	90℃	50~130		
P41	Discharge Temp.3 排气温度3	105℃	50~130		
P42	Discharge Temp.4 排气温度4	120℃	50~130		
P43	Overhigh discharge temp. 排气温度过高	125℃	50~130		