

机组的电气控制

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*ComfortLink*TM

Controls

Easy Operation, Quick Installation & Startup that Saves Money

30GTN控制硬件介绍

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控制模 块

- 主板（1块）
- 压缩机扩展板（1块）
- 电子膨胀阀板（1块）
- 用户操作面板（1块）

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MBB板（Man Base Board）

- 机组的控制主板，机组的主控程序存于此板；
- 该板通过LEN与其他模块进行通讯，收集机组运行信息并发出机组运行指令；
- 该板中的控制程序可根据不同机组型号进行加载；
- 该板的地址必须通过跳线设定到1；



CXB板（Compressor Expansion Board）

- 压缩机扩展板，使用于30GTN150-210机组或30GTN080-130机组的额外卸载电磁阀控制；
- 该板需加载控制程序；
- 该板的地址通过4位DIP开关设定，必须全部保持在ON位置；



EXV板（Expansion Valve Board）

- 电子膨胀阀驱动板，接受来自MBB板的信号，驱动电子膨胀阀；
- 该板需加载控制程序；
- 该板的地址通过4位DIP开关设定，必须全部保持在ON位置；
- 每块EXD板可控制两个电子膨胀阀（每个回路一个）；



MSD板（Scrolling Marquee Display）

- 显示操作板；
- 可选用更高级别的Navigator代替；
- 机组的所有数据操作均在此完成；

信号输入部分

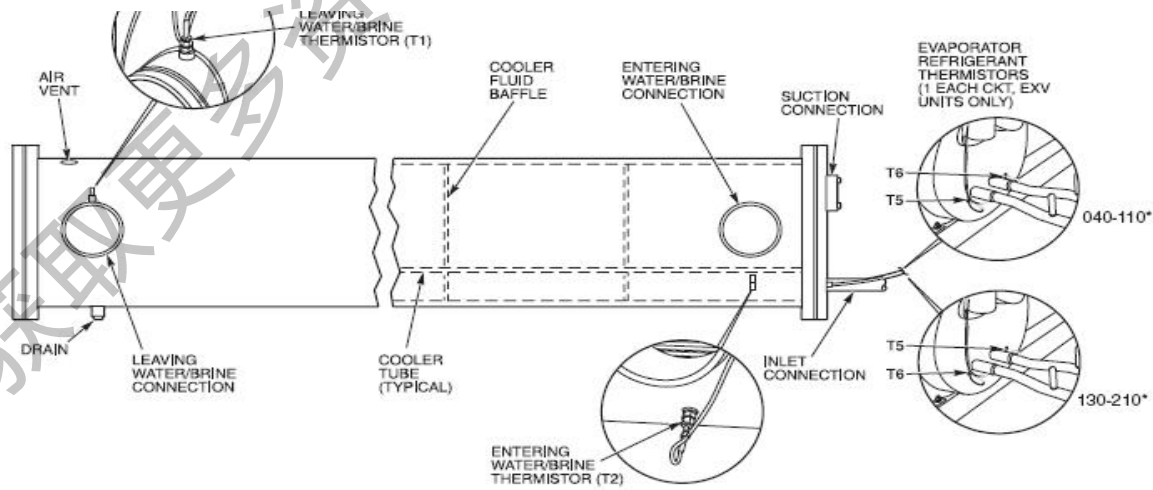
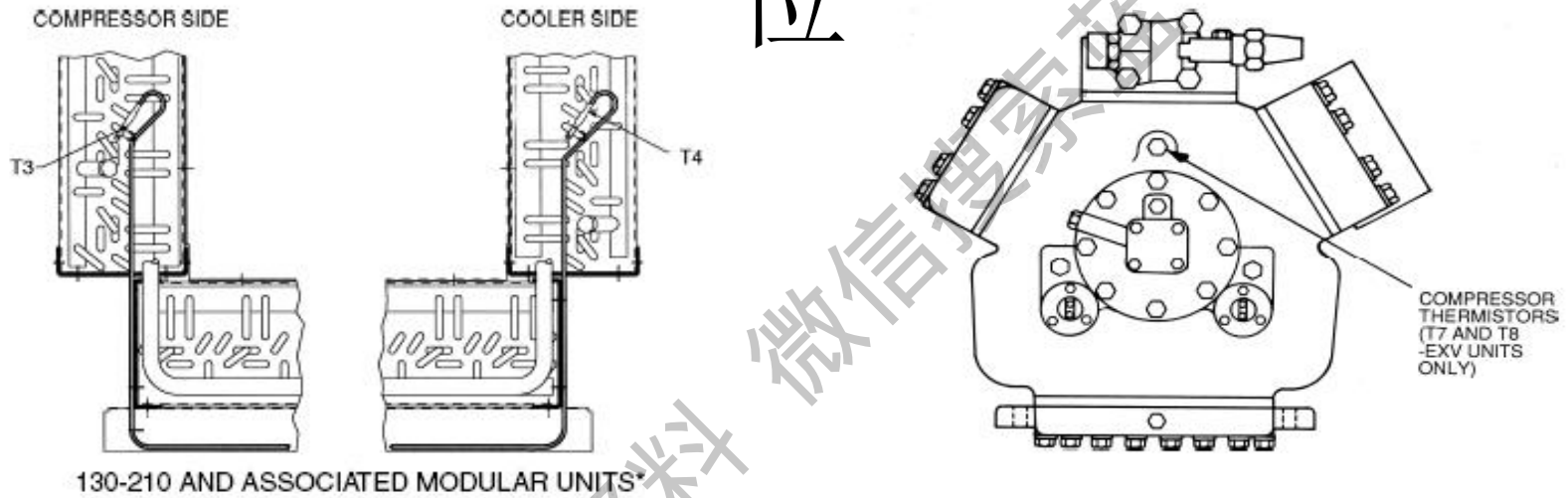
- 温度传感器（热敏电阻器 $10k\Omega$ ）
- 压力开关
- 压缩机故障反馈
- 开关机开关及急停按钮
- 流量开关
- 其他

温度传感器

列表

THERMISTOR NO.	PIN CONNECTION POINT	THERMISTOR INPUT
T1	J8-13,14 (MBB)	Cooler Leaving Fluid
T2	J8-11,12 (MBB)	Cooler Entering Fluid
T3	J8-21,22 (MBB)	Saturated Condensing Temperature, Ckt A
T4	J8-15,16 (MBB)	Saturated Condensing Temperature, Ckt B
T5	J8-24,25 (MBB)	Cooler Suction Temperature, Ckt A (EXV Only)
T6	J8-18,19 (MBB)	Cooler Suction Temperature, Ckt B (EXV Only)
T7	J5-11,12 (EXV)	Compressor Suction Gas Temperature, Ckt A (EXV Only)
T8	J5-9,10 (EXV)	Compressor Suction Gas Temperature, Ckt B (EXV Only)
T9	J8-7,8 (MBB)	Outdoor-Air Temperature Sensor or Dual Chiller LWT Sensors (Accessory)
T10	J8-5,6 (MBB)	Remote Space Temperature Sensor (Accessory)

温度传感器 位置

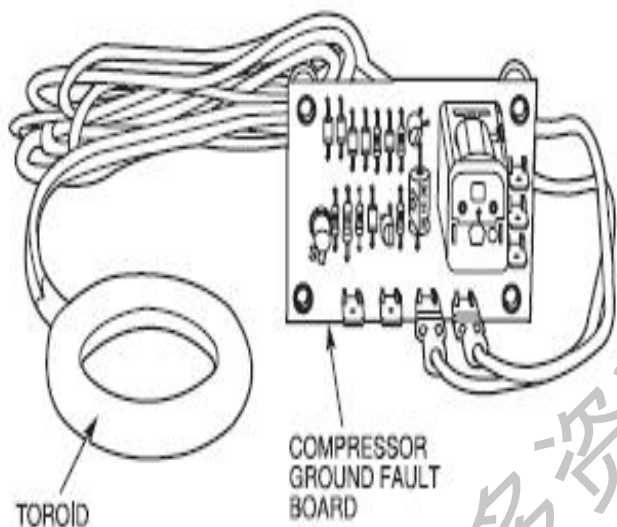


压力开关

- 油压保护开关，安装于每回路主压缩机上；
- 油压开关连接到**MBB**板，其中**A**回路为**J7-1,2**；**B**回路为**J7-3,4**；
- 油压保护开关用于保护压缩机的供油油压差；

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压缩机故障反馈



- 压缩机故障反馈包括：压缩机的高压保护反馈；回路制冷剂流失反馈及压缩机对地保护反馈；
- 压缩机故障反馈分别连接到 MBB 板 CXB 板。其中 A1 压缩机为 MBB J9-11,12； A2 为 MBB J9-5,12； A3 为 CXB J5-11,12； A4 为 CXB J5-5,12； B1 为 MBB J9-8,12； B2 为 MBB J9-2,12； B3 为 CXB J5-8,12。

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开关机及急停按钮



- 开/停/遥控开关连接到 MBB板J7-7,8。其中通过 TB5-13,14可连接遥控开关
- 急停开关串联在控制电源回路上

流量开关

- 流量开关串联在MBB J7-9,10
- 流量开关用于保护机组冷冻水流量

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输出部分

- 压缩机
- 冷凝风机
- **EXV**
- 压缩机电加热

压缩机及压缩机 电加热

- 机组控制系统根据冷冻水出水温度与冷冻水出水设定温度的差值及冷冻水进水温度下降速率来决定压缩机的上下载
- 控制扫描每30秒1次，当以上两参数的计算率达100%则壹台压缩机上下载，达60%压缩机卸载电磁阀（如有）上下载
- 压缩机运行压缩机电加热断开，压缩机停止压缩机电加热闭合

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冷凝风机

- 冷凝风扇的控制取决于设定菜单的设定
- 通常情况下设定为受冷凝饱和温度设定控制。也可设为EXV控制

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电子膨胀阀 (EXV)

- EXV抽空控制，关机时主压缩机会在EXV完全关闭后运行10秒；启动主压缩机10秒内，EXV会保持最小开度
- 机组运行时，EXV会根据设定吸气过热度值调整开度
- EXV会受到机组运行状态的优先控制

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参数设定

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

菜单结构

RUN STATUS	SERVICE TEST	TEMPERATURES	PRESSURES	SET POINTS	INPUTS	OUTPUTS	CONFIGURATION	TIME CLOCK	OPERATING MODES	ALARMS
Auto Display (VIEW)	Manual Mode On/Off (TEST)	Unit Temperatures (UNIT)	Ckt A Pressures (PRC.A)	Cooling (COOL)	Unit Discrete (GEN.I)	Unit Discrete (GEN.O)	Display (DISP)	Unit Time (TIME)	Modes (MODE)	Current (CRNT)
Machine Hours/Starts (RUN)	Ckt A/B Outputs (OUTS)	Ckt A Temperatures (CIR.A)	Ckt B Pressures (PRC.B)	Heating (HEAT)	Ckt A/B (CRCT)	Ckt A (CIR.A)	Machine (UNIT)	Unit Date (DATE)		Reset Alarms (RCRN)
Compressor Run Hours (HOUR)	Compressor Tests (COMP)	Ckt B Temperatures (CIR.B)		Head Pressure (HEAD)	EMM Analog (4-20)	Ckt B (CIR.B)	Options 1 (OPT1)	Schedule (SCHD)		Alarm History (HIST)
Compressor Starts (STRT)							Options 2 (OPT2)			Reset History (RHIS)
Software Version (VERS)							Temperature Reset (RSET)			
							Set Point Select (SLCT)			

状态菜单

SUB-MODE	KEYPAD ENTRY	ITEM	RANGE	ITEM EXPANSION	COMMENT
VIEW	ENTER	EWT	0 - 100 F (-18 - 38 C)	ENTERING FLUID TEMP	
	▼	LWT	0 - 100 F (-18 - 38 C)	LEAVING FLUID TEMP	
	▼	SETP	0 - 100 F (-18 - 38 C)	ACTIVE SETPOINT	
	▼	CTPT	0 - 100 F (-18 - 38 C)	CONTROL POINT	
	▼	STAT	0 - 7	CONTROL MODE	0 = Service Test 1 = Off Local 2 = Off CCN 3 = Off Time Clock 4 = Off Emergency 5 = On Local 6 = On CCN 7 = On Time Clock
	▼	OCC	NO-YES	OCCUPIED	
	▼	MODE	NO-YES	OVERRIDE MODE IN EFFECT	
	▼	CAP	0 - 100%	PERCENT TOTAL CAPACITY	
	▼	STGE	0 - 30	REQUESTED STAGE	
	▼	ALRM	0 - 25	CURRENT ALARMS & ALERTS	
	▼	TIME	00.00 - 23.59	TIME OF DAY	
	▼	MNTH	1 - 12	MONTH OF YEAR	1 = Jan., 2 = Feb
	▼	DATE	1 - 31	DAY OF MONTH	
	▼	YEAR	0 - 9999	YEAR OF CENTURY	
RUN	ENTER	HRS.U	0 - 999999	MACHINE OPERATING HOURS	
HOUR	▼	STR.U	0 - 999999	MACHINE STARTS	
	ENTER	HRS.A	0 - 999999	CIRCUIT A RUN HOURS	
	▼	HRS.B	0 - 999999	CIRCUIT B RUN HOURS	
	▼	HR.A1	0 - 999999	COMPRESSOR A1 RUN HOURS	
	▼	HR.A2	0 - 999999	COMPRESSOR A2 RUN HOURS	
	▼	HR.A3	0 - 999999	COMPRESSOR A3 RUN HOURS	
	▼	HR.A4	0 - 999999	COMPRESSOR A4 RUN HOURS	
	▼	HR.B1	0 - 999999	COMPRESSOR B1 RUN HOURS	
	▼	HR.B2	0 - 999999	COMPRESSOR B2 RUN HOURS	
	▼	HR.B3	0 - 999999	COMPRESSOR B3 RUN HOURS	
▼	HR.B4	0 - 999999	COMPRESSOR B4 RUN HOURS		
STRT	ENTER	ST.A1	0 - 999999	COMPRESSOR A1 STARTS	
	▼	ST.A2	0 - 999999	COMPRESSOR A2 STARTS	
	▼	ST.A3	0 - 999999	COMPRESSOR A3 STARTS	
	▼	ST.A4	0 - 999999	COMPRESSOR A4 STARTS	
	▼	ST.B1	0 - 999999	COMPRESSOR B1 STARTS	
	▼	ST.B2	0 - 999999	COMPRESSOR B2 STARTS	
	▼	ST.B3	0 - 999999	COMPRESSOR B3 STARTS	
	▼	ST.B4	0 - 999999	COMPRESSOR B4 STARTS	
VERS	ENTER	MBB		CESR-131170-XX-XX	
	▼	EXV		CESR-131172-XX-XX	
	▼	CXB		CESR-131173-XX-XX	
	▼	EMM		CESR-131174-XX-XX	
	▼	MARQ		CESR-131171-XX-XX	
	▼	NAV		CESR-131227-XX-XX	

设定点菜单




SUB-MODE	KEYPAD ENTRY	ITEM	RANGE	ITEM EXPANSION	COMMENT
COOL		CSP.1	-20 - 70 F (-29 - 21 C)	COOLING SETPOINT 1	Default 44 F
		CSP.2	-20 - 70 F (-29 - 21 C)	COOLING SETPOINT 2	Default 44 F
		CSP.3	-20 - 42 F (-29 - 6 C)	ICE SETPOINT	Default 42 F Brine Freeze Set Point
HEAT		HSP.1	80 - 140 F (27 - 60 C)	HEATING SETPOINT 1	Not Supported
		HSP.2	80 - 140 F (27 - 60 C)	HEATING SETPOINT 2	Not Supported
HEAD		HD.PA	80 - 140 F (27 - 60 C)	HEAD PRESSURE SETPOINT A	Default 113 F
		HD.PB	80 - 140 F (27 - 60 C)	HEAD PRESSURE SETPOINT B	Default 113 F

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输出菜单

SUB-MODE	KEYPAD ENTRY	ITEM	RANGE	ITEM EXPANSION	COMMENT
GEN.O	ENTER	FAN1	OFF-ON	FAN 1 RELAY	
	▼	FAN2	OFF-ON	FAN 2 RELAY	
	▼	FAN3	OFF-ON	FAN 3 RELAY	
	▼	FAN4	OFF-ON	FAN 4 RELAY	
	▼	C.PMP	OFF-ON	COOLER PUMP RELAY	
	▼	H.GAS	OFF-ON	HOT GAS BYPASS RELAY	
	▼	CNDP	OFF-ON	CONDENSER PUMP RELAY	
CIR.A	ENTER	CC.A1	OFF-ON	COMPRESSOR A1 RELAY	
	▼	CC.A2	OFF-ON	COMPRESSOR A2 RELAY	
	▼	CC.A3	OFF-ON	COMPRESSOR A3 RELAY	
	▼	CC.A4	OFF-ON	COMPRESSOR A4 RELAY	
	▼	ULA1	OFF-ON	UNLOADER A1 RELAY	
	▼	ULA2	OFF-ON	UNLOADER A2 RELAY	
	▼	LLS.A	OPEN-CLSE	LIQUID LINE SOLENOID VLV	TXV units only
	▼	EXV.A	0 - 100%	EXV % OPEN	EXV units only
CIR.B	ENTER	CC.B1	OFF-ON	COMPRESSOR B1 RELAY	
	▼	CC.B2	OFF-ON	COMPRESSOR B2 RELAY	
	▼	CC.B3	OFF-ON	COMPRESSOR B3 RELAY	
	▼	CC.B4	OFF-ON	COMPRESSOR B4 RELAY	
	▼	ULB1	OFF-ON	UNLOADER B1 RELAY	
	▼	ULB2	OFF-ON	UNLOADER B2 RELAY	
	▼	LLS.B	OPEN-CLSE	LIQUID LINE SOLENOID VLV	TXV units only
	▼	EXV.B	0 - 100%	EXV % OPEN	EXV units only

配置菜单1

SUB-MODE	KEYPAD ENTRY	ITEM	MARQUEE DISPLAY RANGE	NAVIGATOR DISPLAY RANGE	ITEM EXPANSION	COMMENT
DISP		TEST	OFF-ON	OFF-ON	TEST DISPLAY LEDS	
		METR	OFF-ON	OFF-ON	METRIC DISPLAY	Off = English On = Metric
		LANG	0 - 3	ENGLISH ESPAÑOL FRANÇAIS PORTUGUES	LANGUAGE SELECTION	Default: 0 0 = English 1 = Espanol 2 = Francais 3 = Portugues

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配置菜单2

SUB-MODE	KEYPAD ENTRY	ITEM	MARQUEE DISPLAY RANGE	NAVIGATOR DISPLAY RANGE	ITEM EXPANSION	COMMENT																																													
UNIT	<input type="button" value="ENTER"/>	TYPE	1 - 5	AIR COOLED WATER COOLED SPLIT HEAT MACHINE HEAT RECLAIM	UNIT TYPE	Default: 1 1 = Air Cooled 2 = Water Cooled 3 = Split System 4 = Heat Machine 5 = Heat Reclaim																																													
	<input type="button" value="▼"/>	TONS	15 - 300	15 - 300	UNIT SIZE																																														
	<input type="button" value="▼"/>	CAP.A	0 - 100%	0 - 100%	CIRCUIT A % CAPACITY	<table border="1"> <thead> <tr> <th>Unit Size</th> <th>60 Hz</th> <th>50 Hz</th> </tr> </thead> <tbody> <tr><td>040</td><td>50</td><td>43</td></tr> <tr><td>045</td><td>43</td><td>43</td></tr> <tr><td>050</td><td>46</td><td>43</td></tr> <tr><td>055</td><td>50</td><td>43</td></tr> <tr><td>060</td><td>50</td><td>43</td></tr> <tr><td>065*</td><td>50</td><td>43</td></tr> <tr><td>070*</td><td>50</td><td>43</td></tr> <tr><td>100*</td><td>50</td><td>43</td></tr> <tr><td>110*</td><td>50</td><td>43</td></tr> <tr><td>130*</td><td>50</td><td>43</td></tr> <tr><td>150*</td><td>50</td><td>43</td></tr> <tr><td>170*</td><td>50</td><td>43</td></tr> <tr><td>190*</td><td>50</td><td>43</td></tr> <tr><td>210*</td><td>50</td><td>43</td></tr> </tbody> </table>	Unit Size	60 Hz	50 Hz	040	50	43	045	43	43	050	46	43	055	50	43	060	50	43	065*	50	43	070*	50	43	100*	50	43	110*	50	43	130*	50	43	150*	50	43	170*	50	43	190*	50	43	210*	50	43
	Unit Size	60 Hz	50 Hz																																																
	040	50	43																																																
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	150*	50	43																																																
	170*	50	43																																																
	190*	50	43																																																
210*	50	43																																																	
<input type="button" value="▼"/>	CMRA	1 - 4	1 - 4	NUMBER CIRC A COMPRESSOR	*And associated modular units.																																														
<input type="button" value="▼"/>	CYLA	4, 6	4, 6	COMPRESSOR A1 CYLINDERS																																															
<input type="button" value="▼"/>	CMRB	1 - 4	1 - 4	NUMBER CIRC B COMPRESSOR																																															
<input type="button" value="▼"/>	CYLB	4, 6	4, 6	COMPRESSOR B1 CYLINDERS																																															
<input type="button" value="▼"/>	EXV	NO-YES	NO-YES	EXV MODULE INSTALLED																																															
<input type="button" value="▼"/>	SH.SP	10 - 40 ΔF (6 - 22 ΔC)	10 - 40 ΔF (6 - 22 ΔC)	EXV SUPERHEAT SETPOINT	Default 23 = 30GTN,R 23 = 30GUN,R																																														
<input type="button" value="▼"/>	SH.OF	-20 - 20 ΔF (-11 - 11 ΔC)	-20 - 20 ΔF (-11 - 11 ΔC)	EXV SUPERHEAT OFFSET	Default: 0																																														
<input type="button" value="▼"/>	REFG	1, 2	1, 2	REFRIGERANT	1 = R-22 (30GTN,R) 2 = R-134a (30GUN,R)																																														
<input type="button" value="▼"/>	FAN.S	1 - 4	2 STAGE IND 3 STAGE IND 2 STAGE COM 3 STAGE COM	FAN STAGING SELECT	1 = 2 Stage Independent (190-210, 290A, 315A, 360B [60 Hz], 390A/B-420A/B) 2 = 3 Stage Independent (130 [50 Hz], 150, 170, 230A-270A, 330A/B, 360B [50 Hz]) 3 = 2 Stage Common (040-090, 230B-245B) 4 = 3 Stage Common (100-110, 130 [50 Hz], 225B-315B)																																														
OPT1	<input type="button" value="ENTER"/>	FLUD	1 - 3	1 - 3	COOLER FLUID	1 = Water 2 = Med. Brine 3 = Low Brine																																													
	<input type="button" value="▼"/>	HGB.S	NO-YES	NO-YES	HOT GAS BYPASS SELECT																																														
	<input type="button" value="▼"/>	HPCM	1 - 4	EXV CONTROL SETPOINT CONTROL SET A EXV B EXV A SET B	HEAD PRESS. CONT. METHOD	Default: 2 1 = EXV Control 2 = Set Point Control 3 = Set Point Circuit A, EXV Circuit B 4 = Set Point Circuit B, EXV Circuit A																																													
	<input type="button" value="▼"/>	HPCT	0 - 2	NO CONTROL AIR COOLED WATER COOLED	HEAD PRESS. CONTROL TYPE	Default: 1 0 = No Control 1 = Air Cooled 2 = Water Cooled																																													
	<input type="button" value="▼"/>	MMR.S	NO-YES	NO-YES	MOTORMASTER SELECT																																														
	<input type="button" value="▼"/>	PRTS	NO-YES	NO-YES	PRESSURE TRANSDUCERS	Default: NO Not Supported																																													
	<input type="button" value="▼"/>	PMF.I	OFF-ON	OFF-ON	COOLER PUMP INTERLOCK	Default: ON																																													
	<input type="button" value="▼"/>	OPC	OFF-ON	OFF-ON	COOLER PUMP CONTROL	Default: OFF																																													
	<input type="button" value="▼"/>	CNEI	OFF-ON	OFF-ON	CONDENSER PUMP INTERLOCK	Default: OFF Not Applicable																																													

配置菜单3

SUB-MODE	KEYPAD ENTRY	ITEM	MARQUEE DISPLAY RANGE	NAVIGATOR DISPLAY RANGE	ITEM EXPANSION	COMMENT
OPT1 (cont)	▼	CNPC	0 - 2	NO CONTROL ON WITH MODE ON WITH COMP	CONDENSER PUMP CONTROL	Default: 0 0 = Not Controlled 1 = On with Occupied Mode 2 = On with Compressors
	▼	CWTS	NO-YES	NO-YES	CONDENSER FLUID SENSORS	Default: NO Not Applicable
	▼	CA.UN	0 - 2	0 - 2	NO. CIRCUIT A UNLOADERS	
	▼	CB.UN	0 - 2	0 - 2	NO. CIRCUIT B UNLOADERS	
	▼	EMM	NO-YES	NO-YES	EMM MODULE INSTALLED	
OPT2	ENTER	CTRL	0 - 3	SWITCH 7 DAY OCC OCCUPANCY CCH	CONTROL METHOD	0 = Switch 1 = 7-Day Schedule 2 = Occupancy Schedule 3 = CCH
	▼	CCNA	1 - 239	1 - 239	CCN ADDRESS	Default: 1
	▼	CCNB	0 - 239	0 - 239	CCN BUS NUMBER	Default: 0
	▼	BAUD	1 - 5	2,400 4,800 9,600 19,200 38,400	CCN BAUD RATE	Default: 3 1 = 2400 2 = 4800 3 = 9600 4 = 19,200 5 = 38,400
	▼	LOAD	1 - 2	EQUAL STAGED	LOADING SEQUENCE SELECT	Default: 1 1 = Equal 2 = Staged
	▼	LLCS	1 - 3	AUTOMATIC CIR A LEADS CIR B LEADS	LEAD LAG CIRCUIT SELECT	Default: 1 (Size 080-420); 2 (Size 040-070) 1 = Automatic 2 = Circuit A Leads 3 = Circuit B Leads
	▼	LCWT	2 - 60 Δ F (-16 - 16 Δ C)	2 - 60 Δ F (-16 - 16 Δ C)	HIGH LCW ALERT LIMIT	Default: 60
	▼	DELY	0 - 15	0 - 15	MINUTES OFF TIME	Default: 0
	▼	ICE.M	ENBL-DSBL	ENBL-DSBL	ICE MODE ENABLE	Default: DSBL
	RSET	ENTER	CRST	0 - 4	NO RESET 4-20 INPUT OUT AIR TEMP RETURN FLUID SPACE TEMP	COOLING RESET TYPE
▼		CRT1	0° - 125 F (-18 - 52 C)	0° - 125 F (-18 - 52 C)	NO COOL RESET TEMP	Default: 125 F
▼		CRT2	0° - 125 F (-18 - 52 C)	0° - 125 F (-18 - 52 C)	FULL COOL RESET TEMP	Default: 0° F
▼		DGRC	-30 - 30 Δ F (-17 - 17 Δ C)	-30 - 30 Δ F (-17 - 17 Δ C)	DEGREES COOL RESET	Default: 0° F
▼		HRST	0 - 4	0 - 4	HEATING RESET TYPE	Not Supported
▼		HRT1	0° - 125 F (-18 - 52 C)	0° - 125 F (-18 - 52 C)	NO HEAT RESET TEMP	Not Supported
▼		HRT2	0° - 125 F (-18 - 52 C)	0° - 125 F (-18 - 52 C)	FULL HEAT RESET TEMP	Not Supported
▼		DGRH	-30 - 30 Δ F (-17 - 17 Δ C)	-30 - 30 Δ F (-17 - 17 Δ C)	DEGREES HEAT RESET	Not Supported
▼		DMDC	0 - 3	0 - 3	DEMAND LIMIT SELECT	Default: 0 0 = None 1 = Switch 2 = 4-20 mA Input 3 = CCN Loadshed
▼		DM20	0 - 100%	0 - 100%	DEMAND LIMIT AT 20 mA	Default: 100%

配置菜单4

SUB-MODE	KEYPAD ENTRY	ITEM	MARQUEE DISPLAY RANGE	NAVIGATOR DISPLAY RANGE	ITEM EXPANSION	COMMENT
RSET (cont)	▼	SHNM	0 - 99	0 - 99	LOADSHED GROUP NUMBER	Default: 0
	▼	SHDL	0 - 60%	0 - 60%	LOADSHED DEMAND DELTA	Default: 0
	▼	SHTM	0 - 120	0 - 120	MAXIMUM LOADSHED TIME	Default: 60 minutes
	▼	DLS1	0 - 100%	0 - 100%	DEMAND LIMIT SWITCH 1	Default: 80%
	▼	DLS2	0 - 100%	0 - 100%	DEMAND LIMIT SWITCH 2	Default: 50%
	▼	LLEN	ENBL-DSBL	ENBL-DSBL	LEAD/LAG CHILLER ENABLE	Default: DSBL
	▼	MSSL	SLVE-MAST	SLVE-MAST	MASTER/SLAVE SELECT	Default: Master
	▼	SLVA	0 - 239	0 - 239	SLAVE ADDRESS	Default: 0
	▼	LLBL	ENBL-DSBL	ENBL-DSBL	LEAD/LAG BALANCE SELECT	Default: DSBL
	▼	LLBD	40 - 400HRS	40 - 400 HRS	LEAD/LAG BALANCE DELTA	Default: 168 hours
	▼	LLDY	0 - 30 MIN	0 - 30 MIN	LAG START DELAY	Default: 5 minutes
SLCT	ENTER	CLSP	0 - 5	SINGLE DUAL SWITCH DUAL 7 DAY DUAL CCHN OCC 4-20 INPUT EXTERNAL POT	COOLING SETPOINT SELECT	Default: 0 0 = Single 1 = Dual Switch 2 = Dual 7 Day 3 = Dual CCHN Occupancy 4 = 4-20 Input 5 = Set Point Potentiometer
	▼	HTSP	0 - 4	0 - 4	HEATING SETPOINT SELECT	Not Supported (Default: 0)
	▼	RLS	ENBL-DSBL	ENBL-DSBL	RAMP LOAD SELECT	Default: DSBL
	▼	CRMP	0.2 - 2.0° F (0.1 - 1.1° C)	0.2 - 2.0° F (0.1 - 1.1° C)	COOLING RAMP LOADING	Default: 1.0
	▼	HRMP	0.2 - 2.0° F (0.1 - 1.1° C)	0.2 - 2.0° F (0.1 - 1.1° C)	HEATING RAMP LOADING	Not Supported (Default: 1.0)
	▼	HCSW	COOL-HEAT	COOL-HEAT	HEAT COOL SELECT	Not Supported (Default: COOL)
	▼	ZIGN	1.0 - 4.0	1.0 - 4.0	DEADBAND MULTIPLIER	Default: 1.0

温度/压力菜单

SUB-MODE	KEYPAD ENTRY	ITEM	RANGE	ITEM EXPANSION	COMMENT
UNIT	ENTER	CEWT	-40 - 245 F (-40 - 118 C)	COOLER ENTERING FLUID	
	▼	CLWT	-40 - 245 F (-40 - 118 C)	COOLER LEAVING FLUID	
	▼	OAT	-40 - 245 F (-40 - 118 C)	OUTSIDE AIR TEMPERATURE	
	▼	SPT	-40 - 245 F (-40 - 118 C)	SPACE TEMPERATURE	
	▼	CNDE	-40 - 245 F (-40 - 118 C)	CONDENSER ENTERING FLUID	
	▼	CNDL	-40 - 245 F (-40 - 118 C)	CONDENSER LEAVING FLUID	
	▼	DLWT	-40 - 245 F (-40 - 118 C)	LEAD/LAG LEAVING FLUID	
CIR.A	ENTER	SCT.A	-40 - 245 F (-40 - 118 C)	SATURATED CONDENSING TMP	
	▼	SST.A	-40 - 245 F (-40 - 118 C)	SATURATED SUCTION TEMP	
	▼	SGT.A	-40 - 245 F (-40 - 118 C)	COMPRESSOR SUCTION GAS TEMP	
	▼	SUP.A	-40 - 245 Δ F (-40 - 118 Δ C)	SUCTION SUPERHEAT TEMP	
CIR.B	ENTER	SCT.B	-40 - 245 F (-40 - 118 C)	SATURATED CONDENSING TMP	
	▼	SST.B	-40 - 245 F (-40 - 118 C)	SATURATED SUCTION TEMP	
	▼	SGT.B	-40 - 245 F (-40 - 118 C)	COMPRESSOR SUCTION GAS TEMP	
	▼	SUP.B	-40 - 245 Δ F (-40 - 118 Δ C)	SUCTION SUPERHEAT TEMP	

SUB-MODE	KEYPAD ENTRY	ITEM	RANGE	ITEM EXPANSION	COMMENT
PRC.A	ENTER	DRA	0-900 Psig	DISCHARGE PRESSURE	Pressure is converted from SCT.A.
	▼	SRA	0-900 Psig	SUCTION PRESSURE	Pressure is converted from SST.A.
PRC.B	ENTER	DRB	0-900 Psig	DISCHARGE PRESSURE	Pressure is converted from SCT.B.
	▼	SRB	0-900 Psig	SUCTION PRESSURE	Pressure is converted from SST.B.

输入菜单

SUB-MODE	KEYPAD ENTRY	ITEM	RANGE	ITEM EXPANSION	COMMENT	
GEN.I	ENTER	STST	STRT-STOP	START/STOP SWITCH	Enable/Off/Remote Contact Switch Input	
	▼	FLOW	OFF-ON	COOLER FLOW SWITCH		
	▼	CND.F	OFF-ON	CONDENSER FLOW SWITCH		
	▼	DLS1	OFF-ON	DEMAND LIMIT SWITCH 1		
	▼	DLS2	OFF-ON	DEMAND LIMIT SWITCH 2		
	▼	ICED	OFF-ON	ICE DONE		
	▼	DUAL	OFF-ON	DUAL SETPOINT SWITCH		
CRCT	ENTER	FKA1	OFF-ON	COMPRESSOR A1 FEEDBACK		
	▼	FKA2	OFF-ON	COMPRESSOR A2 FEEDBACK		
	▼	FKA3	OFF-ON	COMPRESSOR A3 FEEDBACK		
	▼	FKA4	OFF-ON	COMPRESSOR A4 FEEDBACK		
	▼	OIL.A	OPEN-CLSE	OIL PRESSURE SWITCH A		
	▼	LPS.A	OPEN-CLSE	LOW PRESSURE SWITCH	Not applicable (040-420)	
	▼	FKB1	OFF-ON	COMPRESSOR B1 FEEDBACK		
	▼	FKB2	OFF-ON	COMPRESSOR B2 FEEDBACK		
	▼	FKB3	OFF-ON	COMPRESSOR B3 FEEDBACK		
	▼	FKB4	OFF-ON	COMPRESSOR B4 FEEDBACK		
	▼	OIL.B	OPEN-CLSE	OIL PRESSURE SWITCH B		
	▼	LPS.B	OPEN-CLSE	LOW PRESSURE SWITCH	Not applicable (040-420)	
	4-20	ENTER	DMND	0 - 24 mA	4-20 mA DEMAND SIGNAL	
		▼	RSET	0 - 24 mA	4-20 mA RESET SIGNAL	
▼		CSP	0 - 24 mA	4-20 mA COOLING SETPOINT		
▼		HSP	0 - 24 mA	4-20 mA HEATING SETPOINT		
▼						

时间菜单

SUB-MODE	KEYPAD ENTRY	ITEM	ITEM RANGE	ITEM EXPANSION	COMMENT
TIME	ENTER	HH.MM	00.00 - 23.59	HOUR AND MINUTE	Military (00.00-23.59)
DATE	ENTER	MNTH	1 - 12	MONTH	1=Jan, 2=Feb, etc.
	▼	DOM	1 - 31	DATE OF MONTH	
	▼	DAY	1 - 7	DAY OF WEEK	1=Mon, 2=Tue, etc.
	▼	YEAR	0000 - 9999	YEAR OF CENTURY	
SCHD	ENTER	MON.O	00.00 - 23.59	MONDAY OCCUPIED TIME	Default: 00.00
	▼	MON.U	00.00 - 23.59	MONDAY UNOCCUPIED TIME	Default: 00.00
	▼	TUE.O	00.00 - 23.59	TUESDAY OCCUPIED TIME	Default: 00.00
	▼	TUE.U	00.00 - 23.59	TUESDAY UNOCCUPIED TIME	Default: 00.00
	▼	WED.O	00.00 - 23.59	WEDNESDAY OCCUPIED TIME	Default: 00.00
	▼	WED.U	00.00 - 23.59	WEDNESDAY UNOCC TIME	Default: 00.00
	▼	THU.O	00.00 - 23.59	THURSDAY OCCUPIED TIME	Default: 00.00
	▼	THU.U	00.00 - 23.59	THURSDAY UNOCCUPIED TIME	Default: 00.00
	▼	FRI.O	00.00 - 23.59	FRIDAY OCCUPIED TIME	Default: 00.00
	▼	FRI.U	00.00 - 23.59	FRIDAY UNOCCUPIED TIME	Default: 00.00
	▼	SAT.O	00.00 - 23.59	SATURDAY OCCUPIED TIME	Default: 00.00
	▼	SAT.U	00.00 - 23.59	SATURDAY UNOCCUPIED TIME	Default: 00.00
	▼	SUN.O	00.00 - 23.59	SUNDAY OCCUPIED TIME	Default: 00.00
	▼	SUN.U	00.00 - 23.59	SUNDAY UNOCCUPIED TIME	Default: 00.00

运行模式菜单

SUB-MODE	KEYPAD ENTRY	ITEM	RANGE	ITEM EXPANSION	COMMENT
MODE	ENTER	MD01	OFF-ON	FSM CONTROLLING CHILLER	
	▼	MD02	OFF-ON	WSM CONTROLLING CHILLER	
	▼	MD03	OFF-ON	MASTER/SLAVE CONTROL	
	▼	MD04	OFF-ON	LOW SOURCE PROTECTION	Not Supported
	▼	MD05	OFF-ON	RAMP LOAD LIMITED	
	▼	MD06	OFF-ON	TIMED OVERRIDE IN EFFECT	
	▼	MD07	OFF-ON	LOW COOLER SUCTION TEMPA	
	▼	MD08	OFF-ON	LOW COOLER SUCTION TEMPB	
	▼	MD09	OFF-ON	SLOW CHANGE OVERRIDE	
	▼	MD10	OFF-ON	MINIMUM OFF TIME ACTIVE	
	▼	MD11	OFF-ON	LOW SUCTION SUPERHEAT A	
	▼	MD12	OFF-ON	LOW SUCTION SUPERHEAT B	
	▼	MD13	OFF-ON	DUAL SETPOINT	
	▼	MD14	OFF-ON	TEMPERATURE RESET	
	▼	MD15	OFF-ON	DEMAND LIMIT IN EFFECT	
	▼	MD16	OFF-ON	COOLER FREEZE PROTECTION	
	▼	MD17	OFF-ON	LO TMP COOL/HI TMP HEAT	
	▼	MD18	OFF-ON	HI TMP COOL/LO TMP HEAT	
	▼	MD19	OFF-ON	MAKING ICE	
	▼	MD20	OFF-ON	STORING ICE	
	▼	MD21	OFF-ON	HIGH SCT CIRCUIT A	
	▼	MD22	OFF-ON	HIGH SCT CIRCUIT B	

报警菜单

SUB-MODE	KEYPAD ENTRY	ITEM	ITEM EXPANSION	COMMENT
CRNT	<input type="checkbox"/> ENTER	AXXX or TXXX	CURRENTLY ACTIVE ALARMS	Alarms are shown as AXXX. Alerts are shown as TXXX.
RCRN	<input type="checkbox"/> ENTER	YES/NO	RESET ALL CURRENT ALARMS	
HIST	<input type="checkbox"/> ENTER	AXXX or TXXX	ALARM HISTORY	Alarms are shown as AXXX. Alerts are shown as TXXX.
RHIS	<input type="checkbox"/> ENTER	YES/NO	RESET ALARM HISTORY	

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