



A **NIBE** GROUP MEMBER

COOLLOGIC TOUCH™ CONTROL SYSTEM

INSTALLATION, OPERATION & MAINTENANCE MANUAL

Part#: C97B0083N11 | Revised: June 12, 2025



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Introduction

GENERAL DESCRIPTION

The CoolLogic Touch Control System provides chilled and hot water temperature control algorithms maintaining precise temperature control for cooling, heating, heat recovery, and simultaneous heating and cooling applications. A compressor run-time equalization sequence ensures even distribution of compressor run time throughout the chiller bank. Chiller power consumption is minimized by indexing the most efficient cooling and/or heating stages and optimizing heat transfer surface.

The ClimaCool® modular chiller systems, models UW and UA, utilize the CoolLogic Touch Control System to manage multiple-module chillers. The controls are divided into two sections - the CoolLogic Touch bank controller and the module controller.

The CoolLogic Touch Control System governs all significant events, timing and compressor staging and provides an operator interface setting and retrieving data at all levels.

The module controller resides in each module control panel and senses and analyzes all pertinent data specific to that module's compressor and water temperature operations.

NOTE: It is the installing contractor's responsibility to ensure the ambient temperature of the CoolLogic Touch Control System user interface does not exceed 122°F (50°C).

⚠ WARNING



Disconnect power supply(ies) before servicing. Refer servicing to qualified service personnel. Electric shock hazard. May result in injury or death!

⚠ CAUTION



Unit to be serviced by qualified personnel only. Refrigerant system under pressure. Relieve pressure before using torch. Recover refrigerant and store or dispose of properly.

⚠ CAUTION

Use only copper conductors for field installed wiring. Unit terminals are not designed to accept other types of conductors.

FEATURES

- Supports up to 12 dual-compressor modules
- Supports water-to-water, air-to-water banks
- Supports Cooling only, Heating only, Heat Recovery Only, SHC Heat Pump, SHC Heat Recovery Dual/Cool/Heat Priorities, and Constant Volume Cooling.
- Supports BACnet IP as the standard BAS option
- Local 10-inch color-touchscreen interface to setup, diagnose, and view operational data
- Historical trending of key data points

SAFETY

Throughout this manual warning, danger, caution, and attention notices appear. Read these items carefully before attempting any installation, service, or troubleshooting of the equipment. All labels on unit access panels must be observed.

DANGER: Indicates an immediate hazardous situation which, if not avoided, will result in death or serious injury.

WARNING: Indicates potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation or an unsafe practice which, if not avoided, could result in minor or moderate injury or product or property damage.

ATTENTION: Notification of installed, operation or maintenance information which is important, but not hazard related.

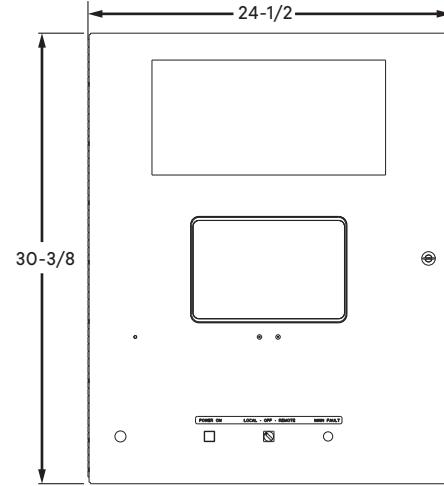
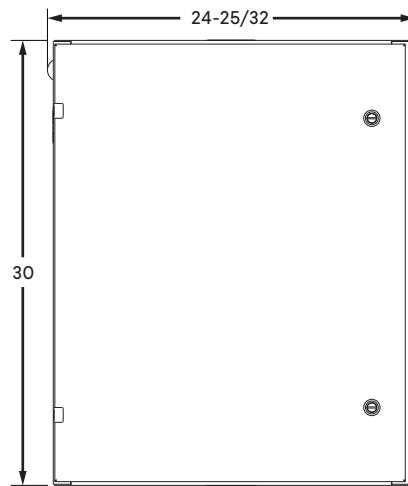
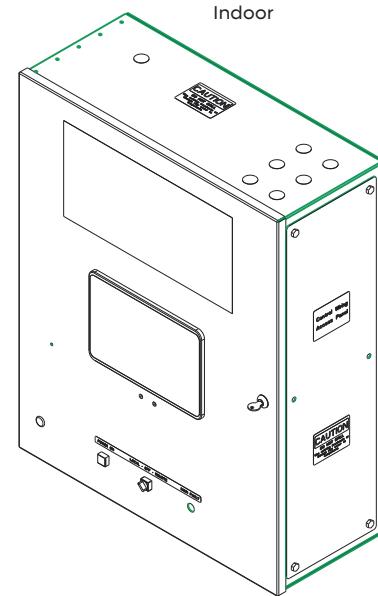
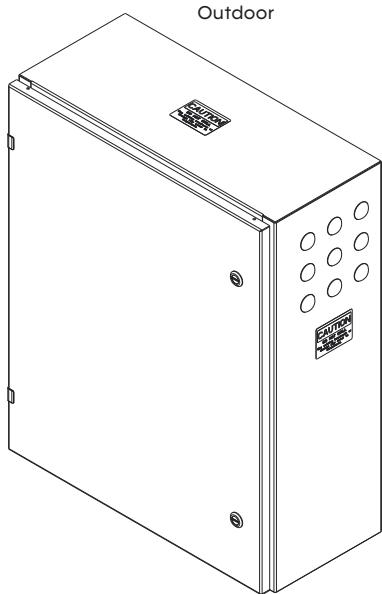
⚠ WARNING

For field installation of communication wiring, the installer must use Shielded Cat 6 Ethernet cable.

Maximum separation of low voltage communication and high voltage power wiring is required.

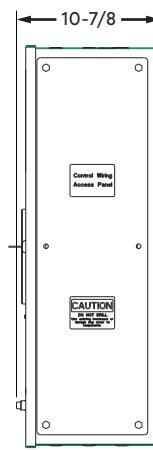
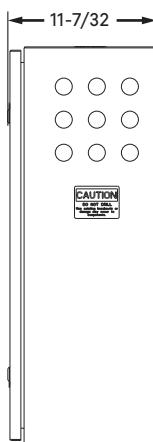
The communication cable must be installed in its own conduit. Routing must enter and exit the low voltage section of the control box where the controller is located and should not be ran parallel to, or any closer than 6 inches from, any high voltage AC or DC wiring either inside or outside of the machinery compartment.

Physical Dimensions



The Outdoor CoolLogic Touch Control Panel is 80 lbs

The Indoor CoolLogic Touch Control Panel is 75 lbs



Communications Wiring

COOLLOGIC TOUCH CONTROL SYSTEM WIRING

A separate 115V power supply is required to power the CoolLogic Touch Control System. Communication between the CoolLogic Touch Control System and chiller modules requires a Shielded, twisted Pair (STP) Cat 6 or higher Ethernet cable home run connection. Control wiring cannot be installed in the same conduit as line voltage wiring or with wires that switch highly inductive loads such as contactor and relay coils. All wiring shall comply with all local and national codes.

FIELD CONNECTIONS BETWEEN COOLLOGIC TOUCH CONTROL SYSTEM AND MODULE CONTROLLER

- STP Cat 6 or higher Ethernet cable (see page 3)
- Over 50 feet (15.24 meters), contact factory

FIELD CONNECTIONS TO THE COOLLOGIC TOUCH CONTROL SYSTEM

Field integration with CoolLogic Touch Control System is simplified by the use of the following minimum input devices:

- A remote start/stop input for scheduling
- Differential pressure flow sensors for heating, cooling and source (if applicable) water flows
- Chilled water inlet and outlet temperature sensors and wells
- Heating water inlet and outlet temperature sensors and wells

Field integration of the following output devices is standard:

- Alarm output closes when any active latching alarm condition occurs (parameter or compressor fault)
- Chiller status output is closed whenever there is a call for chiller operation and all flow, limit, phase, and interlock inputs deliver a closure signal indicating a present normal condition to allow for chiller operation.

Figure 1: CoolLogic Touch Control System



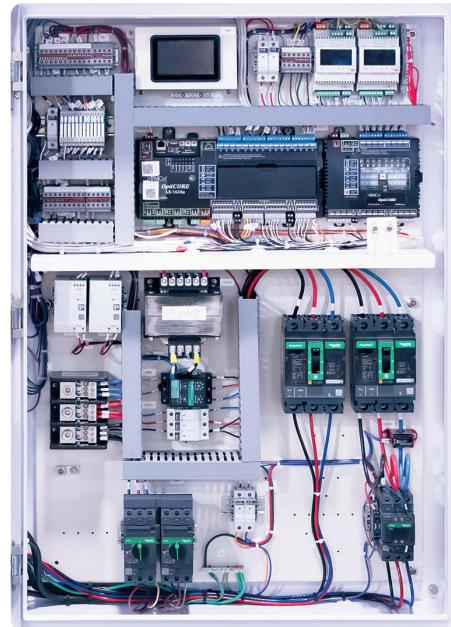
FIELD CONNECTIONS TO THE MODULES

The CoolLogic Touch Control System connects to the modules using STP Cat 6 or higher Ethernet cable. Refer to the Power Distribution drawing. All wiring shall comply with all local and national codes.

MODULE CONTROLLER

The module controller, LS-1628, directly senses the control parameters that govern the specific module's operation, such as evaporator and condenser leaving temperatures, suction and discharge temperatures and pressures.

Figure 2: Module Control Panel



Communications Wiring

AVOIDING NOISE

Avoid running communication wires or sensor input wires next to AC power wires or the controller's relay output wires. These can be sources of noise that can affect signal quality. Common sources of noise are:

- Spark igniters
- Radio transmitters
- Variable speed drives
- Electric motors (>1hp)
- Generators
- Relays
- Transformers
- Other electronic modules
- Induction heaters
- Video display devices
- Lamp dimmers
- Fluorescent lights
- Parallel runs with power lines
- Large contactors, (i.e., motor starters)

SHIELDED CAT 6 ETHERNET CABLE

Shielded, twisted pair (STP) category 6 (Cat 6) Ethernet cable is a twisted-pair cable comprised of eight copper wires twisted into four pairs. Each pair is then shielded with aluminum foil or braided wire strands before being jacketed. The cable standard provides performance of up to 250 MHz and runs at 1 Gbps up to 328 ft. (100 m) in length. If the length of the cable is 121 ft. (37 m) or less, then the speed increases to 10 Gbps.

This cable is commonly connected using punch-down blocks and modular connectors. Cable shielding reduces interference (both electromagnetic and radio frequency) and improves signal quality.

Category 6 is currently defined in ISO/IEC 11801, IEC 61156, and EN 50173. These documents specify performance characteristics and test requirements for frequencies up to 250 MHz.

The cable is available in both stranded- and solid-conductor forms. The stranded form is more flexible and withstands more bending without breaking. In situations where a cable is repeatedly flexed or connected and disconnected, choose a stranded cable. For horizontal cable runs not subject to repeated movement, or for outdoor applications, use Cat 6a CMP solid-copper conductor cable with individual shielding applied to each of the four wired pairs. The category and type of cable can be identified by the printing on the jacket.

The Category 6 specification requires conductors to be pure copper.

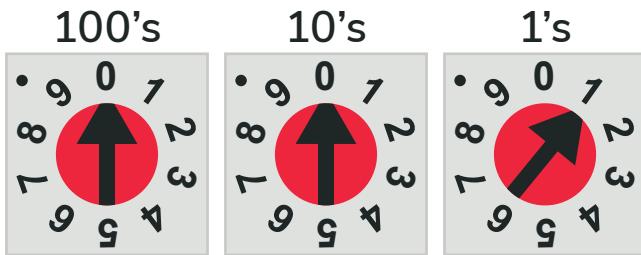
Configuration

CONFIGURE THE CONTROLLER

1. Turn off the CoolLogic Touch Control System's power
2. Using the rotary switches, set the CoolLogic Touch Control System's address. Set the Hundreds (100's) switch to the hundreds digit of the address, set the Tens (10s) switch to the tens digit of the address, and the Ones (1s) switch to the ones digit.

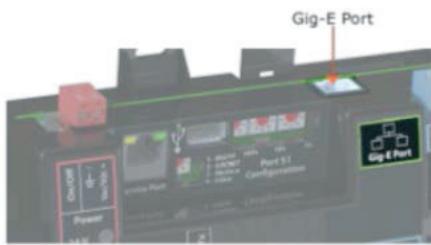
If the CoolLogic Touch Control System's address is 001, point the arrow on the Hundreds (100's) switch to 0, Tens (10's) switch to 0, and the Ones (1's) to 1.

Figure 3: Rotary Switches



3. The Gig-E Port is the only port that speaks BACnet over IP. Connect the CAT 5e cable to the Gig-E Port (see Figure 4).

Figure 4: Gig-E Port



4. Set the Comm Selector Rotary switch to 1 for MS/TP (see Figure 5)

Figure 5: Comm Selector Rotary



5. Turn on the CoolLogic Touch Control System's power

The default CoolLogic Touch bank control device instance is **516800**. Any variance from this device number cannot be used without ClimaCool Custom Programming. Consult the ClimaCool factory if Custom Programming is required.

COOLLOGIC TOUCH CONTROL SYSTEM OPERATOR INTERFACE

The CoolLogic Touch Control System offers an easy-to-use operator interface touchscreen with a 1280 x 800 pixel, 10.1-inch widescreen display panel, which is easy to navigate using logically grouped menus (Figure 6). This enables the user to access important information concerning set points, active temperatures, pressures, operating modes, alarm conditions, chiller scheduling, servicing, diagnostics and more.

Figure 6: EQT2



If the touchscreen is idle for 10 minutes, the standby screen displays (Figure 7).

Figure 7: Standby Screen



Configuration

START THE CHILLER

When power is first applied to the CoolLogic Touch Control System, an initialization period occurs. The display shows the Home screen (Figure 8). After power is applied to the CoolLogic Touch Control System, various display screens are accessible by several methods. From the Home screen, the operator is easily guided to the Main menu listings for the following categories by pressing one of the bottom four menu buttons:

Figure 8: Home Screen



After the delay, the module status displays. After the screen times out, the display changes to the standby screen (see Figure 7).

STATUS MENU

Use options in the Status menu to view the operational status of items in Figure 9. Users may view the retry status by tapping **Retry Status**.

Figure 9: Status Menu



SYSTEM SETUP MENU

Chiller system operation is determined by the values assigned to the system variables, as predominantly found in the System Setup menu (Figure 10). **The default password to access the Setup menu is 2546.** The Setup menu includes the following submenus:

- **Control Type**
 - **Off**
 - **Cooling** - cooling only
 - **Heating** - heating only
 - **Heat Recovery** - recovers heat from the cooling circuit and adds the heat to the heating circuit.
 - **SHC Heat Pump** - both hot water and cold water circuits simultaneously. Each module operates in either heating or cooling mode, depending on the demand.
 - **SHC Heat Recovery** - dual priority simultaneous heat/cool; shares heat recovered from the cooling circuit to boost the heating circuit. Heating or Cooling priority is dependent on demand.
 - **SHC HR Cool Priority** - simultaneous heat/cool and shares heat recovered from the cooling circuit to boost the heating circuit. The cool water setpoint is prioritized.
 - **SHC HR Heat Priority** - simultaneous heat/cool that shares heat recovered from the cooling circuit to boost the heating circuit. Hot water setpoint is prioritized.
 - **Constant Volume Cooling** - leaves all isolation valves open and controls to inlet temperature. Operates as two independent chillers with Chiller 1 being the lead compressor from each module and Chiller 2 being the lag compressor from each module.
- **Glycol Enable:** select if using glycol in the source and/or load loops.

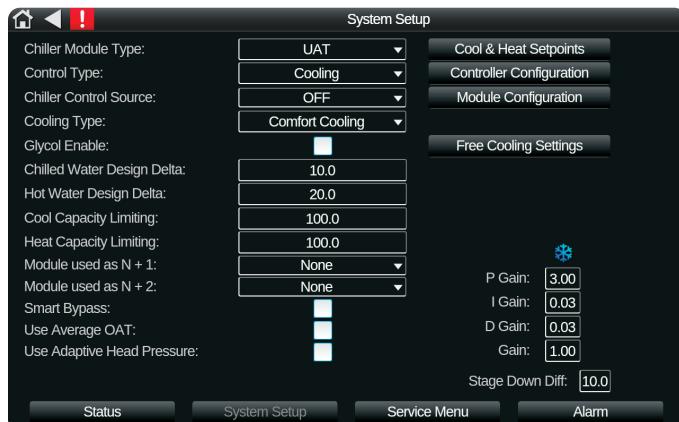
Configuration

- **Chiller Control Source:** selects the start/stop method the chiller bank uses.
 - **Digital Input** - enable with dry contact closure of the Remote Chiller Enable terminals within the CoolLogic Touch Control System **and** the three-way switch in the **REMOTE** or **LOCAL** position.
 - **Keypad** - enable using the keypad and the three-way switch in the **LOCAL** position.
 - **BAS** - enable via BACnet points and the three-way switch in the **REMOTE** position and the contact closure at the CoolLogic Touch Control System terminals 42 and 43 of the LVTB1.
 - **Chiller Module Type:** Choose the type of module being controlled.
 - **Cooling Type:** selects the type of application in use.
 - **Comfort Cooling** - select if LWT is 40°F - 50°F (4.4°C - 10°C).
 - **Brine Duty Cooling** - select if cooling LWT is 20°F - 40°F (-6.7°C - 4.4°C).
 - **Data Center Cooling** - select if cooling LWT is above 50°F (10°C).
 - **Chilled Water Design Delta:** the design difference between entering water and leaving water temperatures in cooling.
 - **Hot Water Design Delta:** the design difference between entering water and leaving water temperatures in heating.
 - **Cool/Heat Capacity Limiting:** a percent of the total bank capacity. The maximum capacity of the bank will be limited to the chosen percentage.
- Example:** if there are 10 modules in a bank and the cool/heat limiting capacity is set to 80%, eight modules are in the staging rotation and the remaining two modules are out of rotation and only added in rotation if a module in rotation fails.
- Capacity limiting is rounded down so the bank capacity is equal to or lower than the demand limiting percentage. Capacity is limited by the module (not compressor) to the closest full module.
- Example:** if there are four modules in a bank and the cool limiting capacity is set to 90%, three modules are activated resulting in a total capacity of 75%.
- **Module used as N+1 or N+2:** when there is cooling or heating capacity limiting, this option assigns the module number that is taken out of rotation. If no module is assigned, the module with the highest accumulated runtime is removed from rotation.
 - **Smart Bypass:** when selected, the first module's valves always stay open acting as a bypass.
 - **BAS OAT Enable:** on air-cooled products, select this to use the outside air temperature supplied by the BAS instead of the outside air temperature measured on-board.
 - **Use Average OAT:** select to use the average outdoor air temperature read from each module's sensor. A failed sensor will be excluded from this calculation.
 - **Use Adaptive Head Pressure:** when selected a 4-pipe water cooled or a 2-pipe air cooled adjusts the head pressure target pressure relevant to the outside air temperature
 - **PID Hold:** When selected, this option disables compressors from staging up while there is a fault retry condition.

Remote Cool/Heat Setpoint Type: assigns where the chiller bank reads its setpoint.

- **None:** the setpoint assigned by the CoolLogic Touch controller
- **Remote Analog Setpoint:** setpoint assigned with a 0-10V signal. For cooling, connect the 0-10V signal to input 8, for heating input 10.
- **Remote BAS Setpoint:** setpoint assigned by the BAS

Figure 10: Setup Menu



Configuration

SYSTEM SETUP SUBMENU

Find the following submenu items on the System Setup page:

Cool & Heat Setpoints: sets the desired chilled and hot water setpoints.

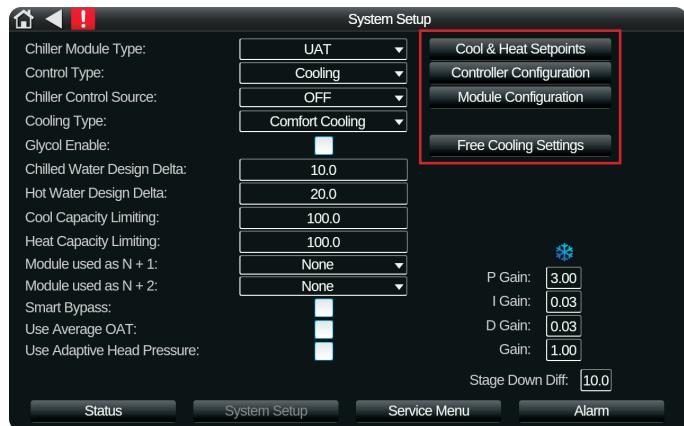
Controller Configuration: configures the controller communication settings

Module Configuration: select to enable/disable modules or individual compressors

Free Cooling Settings: on air-cooled units, this setting enables/disables free cooling and assigns the outside air temperature limits for free cooling

These variables are initially assigned a default values. For most applications, these values provide optimum results.

Figure 11: Setup Menu Submenu



SERVICE MENU

Use the options in the Service menu for diagnostics and calibration.

Select **Trends** to select and view trended data.

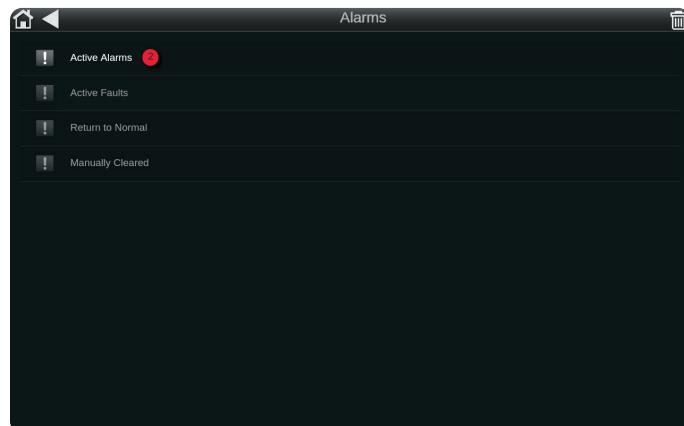
Figure 12: Service Menu



ALARM MENU

Up to 100 of the most recent occurrences are stored with date and time. You can access to this log through the keypad.

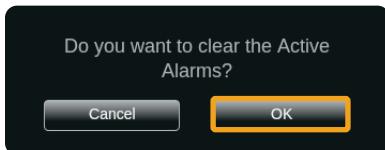
Figure 13: Alarm Menu



Configuration

Clearing Alarms

To clear an active alarm, Select “Alarms” from the navigation menu then select the Trash Can Icon .



In the pop-up window, select **OK**.

LOCAL/OFF/REMOTE

To Turn the system on, use one of the following options:

- **LOCAL mode** - turn the selector switch on the front panel to LOCAL. LOCAL mode allows chiller control from the CoolLogic Touch Panel.
- **REMOTE mode** - turn the selector on the front panel to REMOTE. When Chiller Control Source is set to **Digital Input** OR Chiller Control Source is set to **BAS** and BAS is sending an ON command.

To use a remote relay to enable, insert the relay input to number 16. To use a local switch, insert the switch in input 17. Set the Chiller Control Source to **Digital Input**.

POWER DOWN THE CHILLER BANK

1. Locate the CoolLogic Touch Panel for the specific bank to be disabled.
2. Locate the bank of modules connected to this CoolLogic Touch Panel.
3. Go to the CoolLogic Touch Panel and turn the LOCAL-OFF-REMOTE Selector Switch to **Off**.
If complete shutdown of main power to all equipment is desired, the additional steps can be taken (see Controller Memory section).
4. Inside the CoolLogic Touch Panel, locate the transformer box. Slide the pivoting door to access the amber ON/OFF switch and switch to the **OFF** position.
5. Locate the main power disconnect or breaker panel that feeds each module and/or the entire bank of modules; place the line-powered switch to the **OFF** position.
6. Lock out/Tag out line voltage equipment as required.

POWER UP THE CHILLER BANK

1. Remove the Lock out/Tag out devices from the line-powered disconnect switch.
2. Turn the main power disconnect(s) to the **ON** position.
3. Confirm that the POWER ON indicator light is **ON** at each of the chiller modules.
4. Open the CoolLogic Touch Panel and turn the main transformer ON/OFF switch to the **ON** position.
5. Close the CoolLogic Touch Panel door and set the LOCAL-OFF-REMOTE switch to the Local or Remote position.

NOTE: When re-applying power, the CoolLogic Touch Panel must be the last device turned on after the modules are energized to properly restore connection.

RECOMMENDED FOR EXTENDED BANK SHUTDOWN

1. In the System Setup screen, set Control Type to **OFF**.
2. Turn off the power switch on the LS-1628U Control.
3. Leave main power **ON** to the CoolLogic Touch Controller.

If this procedure is not followed for scheduled shutdowns, you may risk losing the software program and/or set points.

CONTROLLER MEMORY

User data is archived to non-volatile Flash memory when the user initiates an archive on the controller configuration screen.

NOTE: When you change a parameter, you must wait 90 seconds before turning the power off for the changes to be saved.

Bank Standard Alarm Function

LOOP DEFINITIONS

Loop 1 – Chilled water loop for all applications, Hot water loop for standard Heat Pumps

Loop 2 – Source loop for Water Source Cooling Only, Heat Pump, SHC Heat Pump, and SHC Heat Recovery. Loop 2 is only used in water-to-water equipment.

Loop 3 – Hot water loop for Air Source SHC Heat Pump and Water Source Heat Recovery, SHC Heat Pump, and SHC Heat Recovery.

CRITICAL ALARMS

Critical alarms are bank alarms that halt the function of all modules. After halting, modules with Auto-Standalone Mode enabled begin operation until the alarm is cleared. Critical alarms include the following:

- **Loop 1/2/3 Outlet out of range (OOR):** This alarm is triggered when Leaving water for Loop 1/2/3 is below -55°F (-48.3°C) or above 250°F (-121.1°C) for 3 seconds.
- **OAT out of range (OOR):** This alarm is triggered when OAT is below -55°F (-48.3°C) or above 250°F (-121.1°C) for 3 seconds.

RAPID-SHUTDOWN ALARM

These alarms produce a rapid shutdown in which the bank does operate until the issue is resolved either through self-resolution or service. These alarms do not initiate Auto-Standalone Mode as they are not associated with CoolLogic Touch failure, high-temperature, or bank-sensor failures. Rapid-shutdown Alarms include the following:

- **RDS Shutdown:** This alarm will be triggered if either the BAS communicates an RDS Shutdown or the CoolLogic Touch's physical RDS Shutdown input is activated.
- **No/low-flow condition:** This alarm is triggered by loops applicable to the selected unit model.
 - This condition can only be triggered by loops applicable to the selected unit model.
- **No Modules Available:** This alarm is triggered when the bank has access to zero modules.

The following are potential causes for the No Modules Available alarm:

- Failure of the entire bank or all modules
- Loss of communications
- Not being configured at startup

The following are **NOT** potential causes for the No Modules Available alarm:

- The lack of availability due to 100% capacity usage

- **Code Lockout:** This alarm is triggered when the incorrect code is entered into the HMI to unlock the bank at startup.
- **Loop 1 High Leaving Fluid Temperature:** This alarm is triggered when the Loop 1 leaving temperature is greater than 140°F (60°C) in heating mode or 138°F (58.9°C) in cooling.
- **Loop 1 Low Leaving Fluid Temperature:** This alarm is triggered when the Loop 1 leaving temperature is lower than 42°F (60°C) in heating mode, 17°F (-8.3°C) in cooling mode with glycol (37°F (2.8°C) without glycol).
- **Loop 2 High Leaving Fluid Temperature (water-to-water units only):** This alarm is triggered when the Loop 2 leaving temperature is greater than 138°F (58.9°C) in heating mode, 143°F (61.7°C) in cooling mode
- **Loop 2 Low Leaving Fluid Temperature (water-to-water units only):** This alarm is triggered when the Loop 2 leaving temperature is less than 17°F (-8.3°C) in heating mode (with glycol; 37°F (2.8°C) without glycol) and 42°F (5.6°C) in cooling.
- **Loop 3 High Leaving Fluid Temperature:** This alarm is triggered when the Loop 3 leaving temperature is greater than 143°F (61.7°C).
- **Loop 3 Low Leaving Fluid Temperature:** This alarm is triggered when the Loop 3 leaving temperature is less than 42°F (5.6°C).
- **Loop 2 High Leaving Fluid Temperature (water-to-water units only):** This alarm is triggered when the Loop 2 leaving temperature is greater than 140°F (60°C).
- **Loop 2 Low Leaving Fluid Temperature (water-to-water units only):** This alarm is triggered when the Loop 2 leaving temperature is less than 65°F (18.3°C).

Standard Features

WATER FLOW SENSORS

The CoolLogic Touch Control System has inputs for differential pressure (DP) sensors, which measure and display pressure drops across the T water headers. If the chiller receives a RUN input signal, but the differential pressure drops below the predetermined minimum for a set time period, a water flow alarm is displayed, and the chiller is not allowed to run. The alarm clears automatically when flow is re-established, and the DP sensors acknowledges a minimum pressure differential. The chiller status is then OK to RUN, and the alarm condition is logged in the Alarm menu.

CHILLED/HEATING WATER RESET

The CoolLogic Touch Control Panel can be programmed to reset the leaving water temperature set point using a hard wired input voltage, or the voltage input can be modified via a BAS command. If the chiller is operating and it receives a chilled water reset command, the leaving chilled water temperature ramps toward the new setting.

EXTERNAL CHILLED/HOT WATER SET POINT OPTION

The CoolLogic Touch Control Panel provides an input that accepts 0-10VDC signal to set the leaving chilled/hot water set point. This input defines the set point and is not a reset or offset function. This input is used with generic Building Automation System (BAS) installations. The 0-10VDC range corresponds to a preset range from the minimum chilled/hot water set point to the maximum chilled/hot water set point.

DEMAND (OR LOAD) LIMITING

To limit the number of compressors that can be simultaneously energized, a demand limit control is available. The percentage of available capacity may be set in the system setup screen.

ALARM OUTPUT

The relay output contact is closed whenever an active latching or non-latching alarm condition is present relative to a fault parameter.

CHILLER STATUS OUTPUT

The relay output contact is closed whenever all input signals to the chiller are present and normal, indicating the requirement for the chiller to operate when able.

WATER TEMPERATURE SENSOR CONNECTIONS

Water temperature monitoring (entering and leaving, source, and load) is a standard CoolLogic Touch Control System feature. It is accomplished using factory-supplied sensors and sensor wells field-installed into ½-inch weld-o-lets (field-supplied and installed onto the main water headers) within 60 inches (152.4 cm) of the chiller bank.

NOTE: Sensors must be fully inserted into the well to obtain proper readings and must be 2½ times pipe diameter minimum before or after an elbow.

BUILDING AUTOMATION SYSTEM (BAS) INTERFACE

Internal operational information is available when the chiller is integrated into a building system and monitored by external equipment. The communication protocol is BACnet.

COMPRESSOR FAULTS

Compressor fault routines are programmed into each module controller. When any module or compressor control parameters approaches a pre-limit condition, the CoolLogic Touch Control System executes appropriate compressor unloading commands to avoid compressor lockout, thus maximizing the chiller system on time. The module information screen can be accessed to view active fault conditions.

Standard Features

COMPRESSOR MINIMUM OFF DELAY

The minimum amount of time the compressor remains off after being disengaged. The default minimum off delay is 300 seconds.

COMPRESSOR MINIMUM ON DELAY

The minimum amount of time the compressor remains on after being disengaged. This time can be cut short if an alarm condition is predicted. The default minimum on is 90 seconds.

REFRIGERANT DETECTION SYSTEM (RDS) INPUTS

RDS sensors are included on all ClimaCool water-source (UW) modules. Inputs for field-installed sensors are available as described below:

- BAS Point BVV:252: This point allows an external RDS signal to be communicated to the CoolLogic Touch controller. Enabling this point will trigger an RDS fault at each module, and each will enter mitigation mode until the point is removed.
- Hardwired to Normally Closed (NC) Input 13: The controller will monitor the input, and once the signal is broken, an RDS fault will be triggered at each module. Each module will enter mitigation mode until the input is closed.

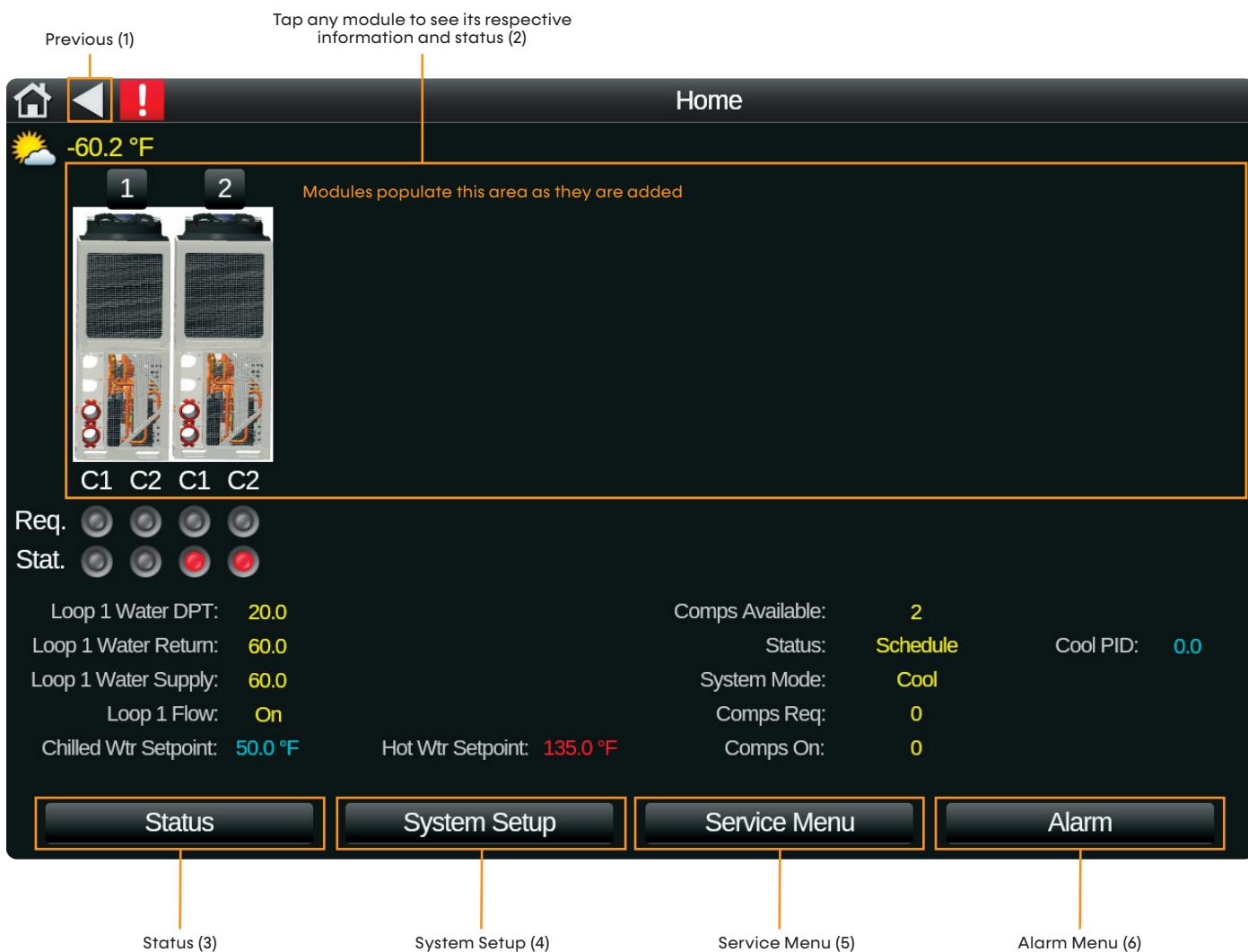
Note: A factory-installed jumper is wired across Input 13. If this method is to be used, remove the jumper before wiring the external RDS sensor.

Regardless of the alarm method, the CoolLogic Touch will digitally communicate with all modules to enable the individual module mitigation relays when a shutdown signal is received.

The CoolLogic Touch will currently allow the other modules in a bank to continue operation if an RDS alarm has been communicated from a module. If it is desired that the system shut down all modules, the BAS should be configured to enable BVV:252 in the event of an RDS alarm (BVV:400)

Menu Hierarchy

Figure 14: User Access - Home Screen (Example)



COOLLOGIC TOUCH MENU

1. **PREV** - move back to the last screen
2. **Module Status**
 - Module refrigeration temps and pressures
3. **Status**
 - Valve Status
 - Leaving Water Temperatures
 - Compressor run times
4. **System Setup**
 - Heat & Cool Set Points
 - Module Configuration
 - Controller Configuration
5. **Service Menu**
 - Sensor calibration
 - Reset Alarms
 - View trended data
6. **Alarm** - module and CoolLogic Touch
 - Alarms and Faults

Menu Navigation

Home screen



Module Info



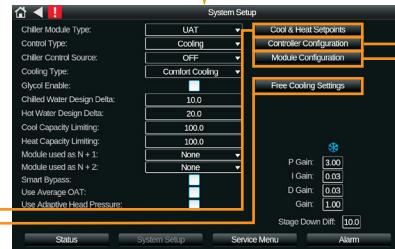
Alarms



Module Status



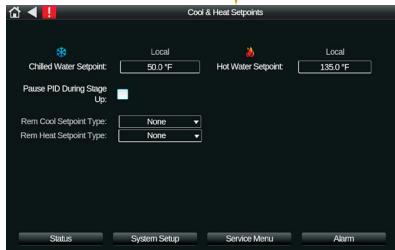
System Setup



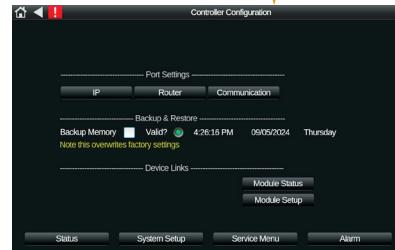
Service Menu



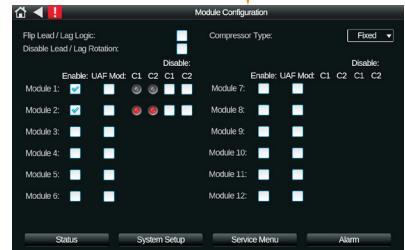
Cool & Heat Setpoints



Controller Configuration



Module Configuration



Free Cooling Settings



Network Setup

CONNECTION TYPE

The default CONNECTION TYPE for the BACnet over ETHERNET to the WEB PORTAL is a shielded Cat 6 cable via an RJ-45 connector. The connector plugs into the Ethernet Gig-E Port.

ETHERNET NETWORK

The LS-1628u Controller is equipped with an interface which may be connected directly to the Ethernet network using the Gig-E port. To prevent circular routes, the LS-1628u controller is configured only for BACnet/IP. The BACnet/IP Network Number defaults to **1453**. The BACnet/Ethernet router configuration is disabled and the Ethernet Network number set to 0 (zero).

NOTE: If these settings need to be changed, please contact a ClimaCool Representative.

IP ADDRESS

The following is the default settings for the IP Address for a typical CoolLogic Touch Controller:

IP Address	192.168.17.100
Subnet Mask.....	255.255.255.0
Gateway.....	192.168.17.1

NOTE: If these settings need to be changed, please contact a ClimaCool Representative.

DEVICE INSTANCE OF COOLLOGIC TOUCH CONTROL SYSTEM

The CoolLogic Touch LS-1628u Control System is 516800. The rotor dial number of the LS-1628u bank controller is **001**, as identified by the three rotary switches on the controller ; one rotary switch is for the 100's digit, one rotary switch is for 10's digit, and the last is for the 1's digit (see Figure 3).

NOTE: If these settings need to be changed, please contact a ClimaCool Representative.

DEVICE INSTANCE OF MODULE CONTROLLER

The device instance number for the FIRST Module Controller is **145302**. The address number of the FIRST module controller is **02**. Similarly, the device instance number of the SECOND Module Controller is **145303**. The address number of the SECOND Module Controller is **03**.

NOTE: If these settings need to be changed, please contact a ClimaCool Representative.

NOTE: Contact ClimaCool factory for network points list.

NOTE: The installation of two banks with separate CoolLogic Touch Control Panels utilizing the same BAS network must have different device instance numbers to negate any conflicts. Contact factory for special programming requirements.

Appendix A: CoolLogic Touch BAS Points List

Table 1: CoolLogic Touch BAS Points List

Object			Read/ Write	Reference Name
Type	ID	Name		
BBV	1	Alarm Output Status	R	alarm_output_stat
BAV	2	BAS Cool Capacity Limiting	R/W	bas_cool_capacity_lim
BAV	3	BAS Heat Capacity Limiting	R/W	bas_heat_capacity_lim
BAV	4	BAS Remote Cool setpoint offset 0-10	R/W	bas_rmt_cool_setpoint
BAV	5	BAS Remote Heat Setpoint	R/W	bas_rmt_heat_setpoint
BAV	6	Chilled Water Design Delta	R/W	chilled_water_design_delta
BBV	7	Chiller Run Status	R	chiller_run_stat
BAV	8	COOL Leaving Target	R/W	clg_temp_sp
BAV	9	COOL Leaving Target W/ Glycol	R/W	clg_temp_sp_glycol
BBV	10	Compressor Down	R	comp_down_stat
BMSV	11	Compressor Type	R/W	comp_type
BMSV	12	Control Source	R/W	control_source
BMSV	13	Control Type	R/W	control_type
BAV	14	Cool Capacity LIM%	R/W	cool_cap_lim_perc
BBV	15	Cool Mode Requested	R	cool_mode
BAV	16	Active Cool Water Setpoint	R	cool_water_stp_stat
BBV	17	Critical Fault	R	crit_fault_stat
BBV	18	Glycol Enabled	R/W	glycol_enabled
BAV	19	Heat Demand LIM %	R/W	heat_cap_lim_perc
BBV	20	Heat Mode Requested	R	heat_mode
BAV	21	Active Hot Water Setpoint	R	heat_stp_stat
BAV	22	Hot Water Temp Setpoint	R/W	heat_temp_stp
BAV	23	Hot Water Design Delta	R/W	hot_water_design_delta
BAV	24	L1 DPT	R	loop1_dpt_stat
EVT	25	L1 Flow OOR	R	loop1_flow_oor_alm
BBV	26	L1 Flow Status	R	loop1_flow_stat
BAV	27	L1 Inlet Temp	R	loop1_inlet_temp_stat
BAV	28	L1 Outlet Temp	R	loop1_outlet_temp_stat
EVT	29	CHRT_HI	R	loop1in_hi_alm
EVT	30	CHRT_LO	R	loop1in_lo_alm
EVT	31	L1 Inlet OOR	R	loop1in_oor_alm
EVT	32	CHST_HI	R	loop1out_hi_alm
EVT	33	CHST_LO	R	loop1out_lo_alm
EVT	34	L1 Outlet OOR	R	loop1out_oor_alm
BAV	35	L2 DPT	R	loop2_dpt_stat
EVT	36	L2 Flow OOR	R	loop2_flow_oor_alm
BBV	37	L2 Flow Status	R	loop2_flow_stat
BAV	38	L2 Inlet Temp	R	loop2_inlet_temp_stat
BAV	39	L2 Outlet Temp	R	loop2_outlet_temp_stat

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	40	SWST_HI	R	loop2in_hi_alm
EVT	41	SWST_LO	R	loop2in_lo_alm
EVT	42	L2 Inlet OOR	R	loop2in_oor_alm
EVT	43	SWRT_HI	R	loop2out_hi_alm
EVT	44	SWRT_LO	R	loop2out_lo_alm
EVT	45	L2 Outlet OOR	R	loop2out_oor_alm
BBV	46	M1 C1 Fail	R	m1_c1_fail
BBV	47	M1 C1 Status	R	m1_c1_stat
BBV	48	M1 C2 Fail	R	m1_c2_fail
BBV	49	M1 C2 Status	R	m1_c2_stat
BBV	50	M1 Used	R/W	m1_used
BBV	51	M10 C1 Fail	R	m10_c1_fail
BBV	52	M10 C1 Status	R	m10_c1_stat
BBV	53	M10 C2 Fail	R	m10_c2_fail
BBV	54	M10 C2 Status	R	m10_c2_stat
BBV	55	M10 Used	R/W	m10_used
BBV	56	M11 C1 Fail	R	m11_c1_fail
BBV	57	M11 C1 Status	R	m11_c1_stat
BBV	58	M11 C2 Fail	R	m11_c2_fail
BBV	59	M11 C2 Status	R	m11_c2_stat
BBV	60	M11 Used	R/W	m11_used
BBV	61	M12 C1 Fail	R	m12_c1_fail
BBV	62	M12 C1 Status	R	m12_c1_stat
BBV	63	M12 C2 Fail	R	m12_c2_fail
BBV	64	M12 C2 Status	R	m12_c2_stat
BBV	65	M12 Used	R/W	m12_used
BBV	66	M2 C1 Fail	R	m2_c1_fail
BBV	67	M2 C1 Status	R	m2_c1_stat
BBV	68	M2 C2 Fail	R	m2_c2_fail
BBV	69	M2 C2 Status	R	m2_c2_stat
BBV	70	M2 Used	R/W	m2_used
BBV	71	M3 C1 Fail	R	m3_c1_fail
BBV	72	M3 C1 Status	R	m3_c1_stat
BBV	73	M3 C2 Fail	R	m3_c2_fail
BBV	74	M3 C2 Status	R	m3_c2_stat
BBV	75	M3 Used	R/W	m3_used
BBV	76	M4 C1 Fail	R	m4_c1_fail
BBV	77	M4 C1 Status	R	m4_c1_stat
BBV	78	M4 C2 Fail	R	m4_c2_fail
BBV	79	M4 C2 Status	R	m4_c2_stat
BBV	80	M4 Used	R/W	m4_used
BBV	81	M5 C1 Fail	R	m5_c1_fail
BBV	82	M5 C1 Status	R	m5_c1_stat
BBV	83	M5 C2 Fail	R	m5_c2_fail

Table continued on next page

Appendix A: CoolLogic Touch BAS Points List

Table continued from previous page

Object			Read/ Write	Reference Name
Type	ID	Name		
BBV	84	M5 C2 Status	R	m5_c2_stat
BBV	85	M5 Used	R/W	m5_used
BBV	86	M6 C1 Fail	R	m6_c1_fail
BBV	87	M6 C1 Status	R	m6_c1_stat
BBV	88	M6 C2 Fail	R	m6_c2_fail
BBV	89	M6 C2 Status	R	m6_c2_stat
BBV	90	M6 Used	R/W	m6_used
BBV	91	M7 C1 Fail	R	m7_c1_fail
BBV	92	M7 C1 Status	R	m7_c1_stat
BBV	93	M7 C2 Fail	R	m7_c2_fail
BBV	94	M7 C2 Status	R	m7_c2_stat
BBV	95	M7 Used	R/W	m7_used
BBV	96	M8 C1 Fail	R	m8_c1_fail
BBV	97	M8 C1 Status	R	m8_c1_stat
BBV	98	M8 C2 Fail	R	m8_c2_fail
BBV	99	M8 C2 Status	R/W	m8_c2_stat
BBV	100	M8 Used	R	m8_used
BBV	101	M9 C1 Fail	R	m9_c1_fail
BBV	102	M9 C1 Status	R	m9_c1_stat
BBV	103	M9 C2 Fail	R	m9_c2_fail
BBV	104	M9 C2 Status	R	m9_c2_stat
BBV	105	M9 Used	R/W	m9_used
EVT	106	Cool Logic Lockout Alarm	R	manager_lockout_alm
BBV	107	M1 OK	R	mod_1_ok
BBV	108	M10 OK	R	mod_10_ok
BBV	109	M11 OK	R	mod_11_ok
BBV	110	M12 OK	R	mod_12_ok
BBV	111	M2 OK	R	mod_2_ok
BBV	112	M3 OK	R	mod_3_ok
BBV	113	M4 OK	R	mod_4_ok
BBV	114	M5 OK	R	mod_5_ok
BBV	115	M6 OK	R	mod_6_ok
BBV	116	M7 OK	R	mod_7_ok
BBV	117	M8 OK	R	mod_8_ok
BBV	118	M9 OK	R	mod_9_ok
BAV	119	M1 Position	R	mod1_position
BAV	120	M10 Position	R	mod10_position
BAV	121	M11 Position	R	mod11_position
BAV	122	M12 Position	R	mod12_position
BAV	123	M2 Position	R	mod2_position
BAV	124	M3 Position	R	mod3_position
BAV	125	M4 Position	R	mod4_position
BAV	126	M5 Position	R	mod5_position
BAV	127	M6 Position	R	mod6_position

Object			Read/ Write	Reference Name
Type	ID	Name		
BAV	128	M7 Position	R	mod7_position
BAV	129	M8 Position	R	mod8_position
BAV	130	M9 Position	R	mod9_position
BAV	131	# Mods Used	R	mods_used
EVT	132	No Modules Available Alarm	R	no_mod_avail_alm
BAV	133	N+1 Designated Module	R/W	nplusone_designated_mod
BAV	134	N+2 Designated Module	R/W	nplustwo_designated_mod
BAV	135	Remote Cooling Setpoint	R	rem_clg_stp_stat
BAV	136	Remote heat Setpoint	R	rem_heat_stp_stat
BAV	137	Runtime Refresh	R/W	runtime_refresh
BAV	138	Control Mode Type Status	R/W	sys_mode
BMSV	139	Unit Mode	R/W	unit_mode
BBV	140	Unit Status	R	unit_status
BBV	141	Use BAS Outside Air Temp	R/W	bas_oat_enable
BAV	142	BAS OAT Temp	R/W	bas_oat_temp
BAV	143	Chiller Configuration	R/W	chiller_config
BBV	144	Constant Volume Cooling Mode	R	cvc_mode
BAV	145	OAT Status	R	coollogic_oat_stat
EVT	146	OAT OOR	R	oat_oor_alm
BBV	147	Use Avg OAT	R	use_avg_oat_stat
BBV	148	Heat Recovery Mode Requested	R	heat_recovery_mode
BAV	149	Num of Cool Comp ON	R	comp_on_cool
BAV	150	Num of Heat Comp ON	R	comp_on_heat
BAV	151	Num of Cool Comp ON at Mgr	R	comp_req_cool
BAV	152	Num of Heat Comp ON at Mgr	R	comp_req_heat
EVT	153	L3 Flow OOR	R	loop3_flow_oor_alm
BBV	154	Cool Enable (BAS)	R/W	enable_bas_cool
BBV	155	Heat Enable (BAS)	R/W	enable_bas_heat
BAV	156	Diff Press Heat Load	R	loop3_dpt_stat
BBV	157	Hot Flow Status	R	loop3_flow_stat
BAV	158	HW Inlet Temp Status	R	loop3_inlet_temp_stat
BAV	159	HW Outlet Temp Status	R	loop3_outlet_temp_stat
EVT	160	HWST_HI	R	loop3in_hi_alm
EVT	161	HWST_LO	R	loop3in_lo_alm
EVT	162	L3 Inlet OOR	R	loop3in_oor_alm
EVT	163	HWRT_HI	R	loop3out_hi_alm

Table continued on next page

Appendix A: CoolLogic Touch BAS Points List

Table continued from previous page

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	164	HWRT_LO	R	loop3out_lo_alm
EVT	165	L3 Outlet OOR	R	loop3out_oor_alm
BAV	166	Mod 1 Mode Command	R	m1_mode_cmd
BAV	167	Mod 10 Mode Command	R	m10_mode_cmd
BAV	168	Mod 11 Mode Command	R	m11_mode_cmd
BAV	169	Mod 12 Mode Command	R	m12_mode_cmd
BAV	170	Mod 2 Mode Command	R	m2_mode_cmd
BAV	171	Mod 3 Mode Command	R	m3_mode_cmd
BAV	172	Mod 4 Mode Command	R	m4_mode_cmd
BAV	173	Mod 5 Mode Command	R	m5_mode_cmd
BAV	174	Mod 6 Mode Command	R	m6_mode_cmd
BAV	175	Mod 7 Mode Command	R	m7_mode_cmd
BAV	176	Mod 8 Mode Command	R	m8_mode_cmd
BAV	177	Mod 9 Mode Command	R	m9_mode_cmd
EVT	178	No CHW Flow Alarm	R	no_chw_flow_alm
EVT	179	No HW Flow Alarm	R	no_hw_flow_alm
EVT	180	No SRC Flow Alarm	R	no_src_flow_alm
BAV	181	# Cool Compressors	R	num_cool_cmprs
BAV	182	# Cool Modules	R	num_cool_mods
BAV	183	# Heat Compressors	R	num_heat_cmprs
BAV	184	# Heat Modules	R	num_heat_mods
BAV	185	# Open Compressors	R	num_open_cmprs
BAV	186	# Open Mods	R	num_open_mods
BBV	188	Mod. Commanded to Defrost	R	defrost_cmd
BBV	189	Flow Status	R	flow
BBV	190	Enable Free Cooling	R/W	free_cool_enable
BAV	191	Free Cool Off Temp	R/W	free_cool_off_temp
BAV	192	Free Cool On Temp	R/W	free_cool_on_temp
BAV	193	Current or Last Min Defrost	R	last_mod_defrost
EVT	194	M9 Low L3 Leaving Temp Alarm	R	m9_low_loop3_leaving_water_temp_alarm
EVT	195	M9 L3 Valve Alarm	R	m9_loop3_valve_alarm
BBV	196	M10 C1 Defrost Command Status	R	m10_c1_defrost_stat
BBV	197	M10 C2 Defrost Command Status	R	m10_c2_defrost_stat
EVT	198	M9 RDS Alarm	R	m9_rds_alarm
BBV	199	M11 C1 Defrost Command Status	R	m11_c1_defrost_stat
BBV	200	M11 C2 Defrost Command Status	R	m11_c2_defrost_stat

Object			Read/ Write	Reference Name
Type	ID	Name		
BBV	201	M12 C1 Defrost Command Status	R	m12_c1_defrost_stat
BBV	202	M12 C2 Defrost Command Status	R	m12_c2_defrost_stat
BBV	203	M1 C1 Defrost Command Status	R	m1_c1_defrost_stat
BBV	204	M1 C2 Defrost Command Status	R	m1_c2_defrost_stat
EVT	205	M11 MLockout	R	m11_manager_lockout_alm
BBV	206	M2 C1 Defrost Command Status	R	m2_c1_defrost_stat
BBV	207	M2 C2 Defrost Command Status	R	m2_c2_defrost_stat
EVT	208	M11 Communications Alarm	R	m11_comm_lost
BBV	209	M3 C1 Defrost Command Status	R	m3_c1_defrost_stat
BBV	210	M3 C2 Defrost Command Status	R	m3_c2_defrost_stat
EVT	211	M8 Low L3 Leaving Temp Alarm	R	m8_low_loop3_leaving_temp_alarm
BBV	212	M4 C1 Defrost Command Status	R	m4_c1_defrost_stat
BBV	213	M4 C2 Defrost Command Status	R	m4_c2_defrost_stat
EVT	214	M11 L2 Motorized Valve Alarm	R	m11_loop2_valve_alarm
BBV	215	M5 C1 Defrost Command Status	R	m5_c1_defrost_stat
BBV	216	M5 C2 Defrost Command Status	R	m5_c2_defrost_stat
EVT	217	M11 L1 Motorized Valve Alarm	R	m11_loop1_valve_alarm
BBV	218	M6 C1 Defrost Command Status	R	m6_c1_defrost_stat
BBV	219	M6 C2 Defrost Command Status	R	m6_c2_defrost_stat
EVT	220	M10 Local Flow Alarm	R	m10_module_flow_alarm
BBV	221	M7 C1 Defrost Command Status	R	m7_c1_defrost_stat
BBV	222	M7 C2 Defrost Command Status	R	m7_c2_defrost_stat
EVT	223	M8 L3 Valve Alarm	R	m8_loop3_valve_alarm
BBV	224	M8 C1 Defrost Command Status	R	m8_c1_defrost_stat
BBV	225	M8 C2 Defrost Command Status	R	m8_c2_defrost_stat
EVT	226	M11 C2_P2 SUC PRESS OOR	R	m11_c2_suction_pressure_oor
BBV	227	M9 C1 Defrost Command Status	R	m9_c1_defrost_stat
BBV	228	M9 C2 Defrost Command Status	R	m9_c2_defrost_stat
EVT	229	M11 C1 Suction Press OOR	R	m11_c1_suction_pressure_oor
EVT	230	No Flow Alarm	R	no_flow_alm
BBV	231	Open Header Bypass In Defrost	R/W	open_hdr_bypass_defrost

Table continued on next page

Appendix A: CoolLogic Touch BAS Points List

Table continued from previous page

Object			Read/ Write	Reference Name
Type	ID	Name		
BAV	232	BAS SHC Capacity Limiting	R/W	bas_shc_capacity_lim
BBV	233	CVC Enable (BAS)	R/W	enable_bas_cvc
BBV	234	Manually Refresh Lead Compressor	R/W	use_adaptive_hp_ctrl
BAV	235	# HRec Comp ON	R	comp_on_hrec
BAV	236	# HRec Comp ON at Manager	R	comp_req_hrec
BBV	237	HRec Enable (BAS)	R/W	enable_bas_heatrec
BAV	238	# HRec Compressors	R	num_hrec_cmps
BAV	239	# HRec Modules	R	num_hrec_mods
BAV	240	M1 Position	R	heat_mod1_position
BAV	241	M2 Position	R	heat_mod2_position
BAV	242	M3 Position	R	heat_mod3_position
BAV	243	M4 Position	R	heat_mod4_position
BAV	244	M5 Position	R	heat_mod5_position
BAV	245	M6 Position	R	heat_mod6_position
BAV	246	M7 Position	R	heat_mod7_position
BAV	247	M8 Position	R	heat_mod8_position
BAV	248	M9 Position	R	heat_mod9_position
BAV	249	M10 Position	R	heat_mod10_position
BAV	250	M11 Position	R	heat_mod11_position
BAV	251	M12 Position	R	heat_mod12_position
BBV	252	RDS Status - BMS	R/W	rds_status_bms
BBV	253	RDS Alarm - Bank	R	rds_alarm_bank
BBV	254	Compressor Heat Unload Present	R	compressor_heat_unload
EVT	255	M1 C2 High Discharge Press Alarm	R	m1_c2_hi_disc_pres_alm
EVT	256	M1 C1 NO-Run Alarm	R	m1_c1_no_run
EVT	257	M1 C2 High Discharge Temp	R	m1_c2_hi_disc_temp_alm
EVT	258	M1 C2 VFD General Alarm	R	m1_c2_vfd_gen_alarm
EVT	259	M1 C2 Low Suction Pressure Alarm	R	m1_c2_low_suc_pres_alm
EVT	260	M1 L3 Valve Alarm	R	m1_loop3_valve_alarm
BAV	261	M2 C1 Cool mode SubCool	R	m2_c1_cool_mode_subcool
BAV	262	M2 C1 Cooling Liquid Line Temp.	R	m2_c1_cl_ll_temp
BAV	263	M2 C1 Discharge Pressure	R	m2_c1_disc_pres
BAV	264	M4 C1 Cool mode SubCool	R	m4_c1_cool_mode_subcool
BAV	265	M5 C1 Cooling Liquid Line Temp	R	m5_c1_cl_ll_temp
BAV	266	M5 C1 Air Coil Line Temp	R	m5_c1_acl_temp
BAV	267	M6 C1 Cool mode SubCool	R	m6_c1_cool_mode_subcool
BAV	268	M7 Calc C1 Suc Superheat	R	m7_c1_suc_superheat

Object			Read/ Write	Reference Name
Type	ID	Name		
BAV	269	M7 C1 Cooling Liquid Line Temp	R	m7_c1_cl_ll_temp
BAV	270	M8 C1 Cool mode SubCool	R	m8_c1_cool_mode_subcool
BAV	271	M7 C1 Fan Output	R	m7_c1_fan_out
EVT	272	M5 C1 EEV Comm Loss Alarm	R	m5_c1_eev_comm_loss_alarm
EVT	273	M5 C2 EEV Comm Loss Alarm	R	m5_c2_eev_comm_loss_alarm
EVT	274	M5 C2 NO-Run Alarm	R	m5_c2_no_run
EVT	275	M5 C2_P2 Suction Press OOR	R	m5_c2_suction_pressure_oor
BAV	276	M9 C1 Cooling Liquid Line Temp	R	m9_c1_cl_ll_temp
EVT	277	M6 C2 VFD STO Alarm	R	m6_c2_vfd_sto_alarm
EVT	278	M6 C2_P2 Suction Press OOR	R	m6_c2_suction_pressure_oor
EVT	279	M7 C1 EEV Comm Loss Alarm	R	m7_c1_eev_comm_loss_alarm
EVT	280	M7 C2 EEV Comm Loss Alarm	R	m7_c2_eev_comm_loss_alarm
EVT	281	M7 C1 NO-Run Alarm	R	m7_c1_no_run
EVT	282	M7 C2 NO-Run Alarm	R	m7_c2_no_run
EVT	283	M7 C2 High Discharge Temp	R	m7_c2_hi_disc_temp_alm
EVT	284	M7 C1 High Discharge Temp	R	m7_c1_hi_disc_temp_alm
EVT	285	M7 C1 Low Suction Pressure Alarm	R	m7_c1_low_suc_pres_alm
EVT	286	M7 C2 High Pressure Alarm	R	m7_c2_hi_disc_pres_alm
EVT	287	M7 C1 High Pressure Alarm	R	m7_c1_hi_disc_pres_alm
BMSV	288	M4 C2 Unload	R	m4_c2_unld_msv
EVT	289	M7 C1 VFD STO Alarm	R	m7_c1_vfd_sto_alarm
EVT	290	M7 C2 VFD STO Alarm	R	m7_c2_vfd_sto_alarm
BMSV	291	M6 Unload	R	m6_unld_msv
EVT	292	M7 C2 VFD General Alarm	R	m7_c2_vfd_gen_alarm
BMSV	293	M6 C2 Unload	R	m6_c2_unld_msv
EVT	294	M7 C2 Low Suction Pressure Alarm	R	m7_c2_low_suc_pres_alm
BMSV	295	M7 Unload	R	m7_unld_msv
BMSV	296	M7 C1 Unload	R	m7_c1_unld_msv
BMSV	297	M8 C2 Unload	R	m8_c2_unld_msv
BMSV	298	M9 Unload	R	m9_unld_msv
BMSV	299	M9 C1 Unload	R	m9_c1_unld_msv
BMSV	300	M9 C2 Unload	R	m9_c2_unld_msv
EVT	301	M7 C2 Discharge Pressure OOR	R	m7_c2_discharge_pressure_oor
EVT	302	M7 C2 Discharge Temp OOR	R	m7_c2_discharge_temperature_oor

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	303	M7 C1 Suction Temp OOR	R	m7_c1_suction_temperature_oor
BMSV	304	M11 Unload	R	m11_unld_msv
BMSV	305	M11 C2 Unload	R	m11_c2_unld_msv
EVT	306	M7 C1 Liquid Line Temp OOR	R	m7_c1_liquid_line_temp_oor
EVT	307	M7 C2 Liquid Line Temp OOR	R	m7_c2_liquid_line_temperature_oor
EVT	308	M7 C1 Liquid Line pressure OOR	R	m7_c1_liq_pres_oor
EVT	309	M8 C2 VFD STO Alarm	R	m8_c2_vfd_sto_alarm
EVT	310	M9 C2 High Discharge Temp	R	m9_c2_hi_disc_temp_alm
EVT	311	M9 C1 High Discharge Temp	R	m9_c1_hi_disc_temp_alm
EVT	312	M9 C1 Low Suction Pressure Alarm	R	m9_c1_low_suc_pres_alm
EVT	313	M9 C1 High Pressure Alarm	R	m9_c1_hi_disc_pres_alm
EVT	314	M9 C1 VFD General Alarm	R	m9_c1_vfd_gen_alarm
EVT	315	M9 C2 Low Suction Pressure Alarm	R	m9_c2_low_suc_pres_alm
EVT	316	M9 C2 Low Suction Temp	R	m9_c2_lo_suc_tmp
EVT	317	M9 OAT OOR	R	m9_oat_oor
EVT	318	M9 Phase Loss Alarm	R	m9_phase_loss_alarm
EVT	319	M9 C1 Discharge Pressure OOR	R	m9_c1_discharge_pressure_oor
EVT	320	M9 C2 Discharge Pressure OOR	R	m9_c2_discharge_pressure_oor
EVT	321	M9 C1 Suction Temp OOR	R	m9_c1_suction_temperature_oor
EVT	322	M9 C2 Line Press OOR	R	m9_c2_liq_pres_oor
EVT	323	M9 C1 Suction Pressure OOR	R	m9_c1_suction_pressure_oor
EVT	324	M9 MFlow Alarm	R	m9_module_flow_alarm
EVT	325	M9 L1 Motorized Valve Alarm	R	m9_loop1_valve_alarm
EVT	326	M9 L2 Motorized Valve Alarm	R	m9_loop2_valve_alarm
EVT	327	M9 C1 Liquid Pressure OOR	R	m9_c1_liq_pres_oor
EVT	328	M9 L1 Entering Temp OOR	R	m9_loop1_entering_oor
EVT	329	M9 C2 Liquid Pressure OOR	R	m9_c2_liq_pres_oor
EVT	330	M10 C1 High Pressure Alarm	R	m10_c1_hi_disc_pres_alm
EVT	331	M10 L3 Leaving Temp OOR	R	m10_loop3_leaving_water_temp_oor
EVT	332	M10 L2 Leaving Temp OOR	R	m10_loop2_leaving_water_temp_oor
EVT	333	M10 OAT OOR	R	m10_oat_oor
EVT	334	M11 C1 Air Coil Line Temp OOR	R	m11_aclt1_oor
EVT	335	M11 C2 Air Coil Line Temp OOR	R	m11_aclt2_oor

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	336	M11 C1 Liquid Line Temp OOR	R	m11_c1_ll_temp_oor
EVT	337	M11 L2 Leaving Temp OOR	R	m11_loop2_leaving_water_temp_oor
EVT	338	M12 C1 Liquid Line Temp OOR	R	m12_c1_ll_temp_oor
EVT	339	M12 C2 Liquid Line Temp OOR	R	m12_c2_ll_temp_oor
EVT	340	M6 Low L3 Leaving Temp Alarm	R	m6_low_loop3_leaving_temp_alarm
EVT	341	M7 L3 Valve Alarm	R	m7_loop3_valve_alarm
BAV	342	M9 Calc C1 Suc Superheat	R	m9_c1_suc_superheat
BAV	343	M8 C1 Fan Output	R	m8_c1_fan_out
BAV	344	M8 C1 Air Coil Line Temp	R	m8_c1_acl_temp
BAV	345	M8 C1 Cooling Liquid Line Temp	R	m8_c1_cl_ll_temp
BAV	346	M5 Calc C1 Suc Superheat	R	m5_c1_suc_superheat
BAV	347	M4 Calc C1 Suc Superheat	R	m4_c1_suc_superheat
BAV	348	M3 C1 Cooling Liquid Line Pressure	R	m3_c1_cl_ll_pres
BAV	349	M3 C1 Air Coil Line Temp.	R	m3_c1_acl_temp
BAV	350	M3 C1 Cooling Liquid Line Temp.	R	m3_c1_cl_ll_temp
EVT	351	M2 L3 Valve Alarm	R	m2_loop3_valve_alarm
BBV	352	Compressor Cool Unload Present	R	compressor_cool_unload
BAV	353	M12 C1 Suc Press	R	m12_c1_suct_pres
BAV	354	M12 C1 Air Coil Line Temp	R	m12_c1_acl_temp
BAV	355	M12 C1 Heating Liquid Line Temp	R	m12_c1_ht_ll_temp
BAV	356	M12 C1 Cooling Liquid Line Temp	R	m12_c1_cl_ll_temp
EVT	357	M12 L1 LWT OOR	R	m12_loop1_leaving_water_temp_oor
EVT	358	M11 L1 LWT OOR	R	m11_loop1_leaving_water_temp_oor
EVT	359	M10 L1 LWT OOR	R	m10_loop1_leaving_water_temp_oor
EVT	360	M9 L2 LWT OOR	R	m9_loop2_leaving_water_temp_oor
EVT	361	M8 L2 LWT OOR	R	m8_loop2_leaving_water_temp_oor
EVT	362	M8 L1 LWT OOR	R	m8_loop1_leaving_water_temp_oor
EVT	363	M7 L2 LWT OOR	R	m7_loop2_leaving_water_temp_oor
EVT	364	M7 L1 LWT OOR	R	m7_loop1_leaving_water_temp_oor
EVT	365	M6 L2 LWT OOR	R	m6_loop2_leaving_water_temp_oor
EVT	366	M6 L1 LWT OOR	R	m6_loop1_leaving_water_temp_oor
EVT	367	M5 L2 LWT OOR	R	m5_loop2_leaving_water_temp_oor

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	368	M5 L1 LWT OOR	R	m5_loop1_leaving_water_temp_oor
EVT	369	M4 L1 LWT OOR	R	m4_loop1_leaving_water_temp_oor
EVT	370	M3 L2 LWT OOR	R	m3_loop2_leaving_water_temp_oor
EVT	371	M3 L1 LWT OOR	R	m3_loop1_leaving_water_temp_oor
EVT	372	M2 L2 LWT OOR	R	m2_loop2_leaving_water_temp_oor
EVT	373	M2 L1 LWT OOR	R	m2_loop1_leaving_water_temp_oor
EVT	374	M1 L2 LWT OOR	R	m1_loop2_leaving_water_temp_oor
EVT	375	M1 L1 LWT OOR	R	m1_loop1_leaving_water_temp_oor
EVT	376	M12 Low Outdoor Air Temp Alarm	R	m12_lo_oat_alarm
EVT	377	M12 High Outdoor Air Temp. Alarm	R	m12_hi_oat_alarm
EVT	378	M11 Low Outdoor Air Temp Alarm	R	m11_lo_oat_alarm
EVT	379	M11 High Outdoor Air Temp Alarm	R	m11_hi_oat_alarm
EVT	380	M10 Low Outdoor Air Temp Alarm	R	m10_lo_oat_alarm
EVT	381	M10 High Outdoor Air Temp Alarm	R	m10_hi_oat_alarm
EVT	382	M9 Low Outdoor Air Temp Alarm	R	m9_lo_oat_alarm
EVT	383	M9 High Outdoor Air Temp Alarm	R	m9_hi_oat_alarm
EVT	384	M8 Low Outdoor Air Temp Alarm	R	m8_lo_oat_alarm
EVT	385	M8 High Outdoor Air Temp Alarm	R	m8_hi_oat_alarm
EVT	386	M7 Low Outdoor Air Temp Alarm	R	m7_lo_oat_alarm
EVT	387	M7 High Outdoor Air Temp Alarm	R	m7_hi_oat_alarm
EVT	388	M6 Low Outdoor Air Temp Alarm	R	m6_lo_oat_alarm
EVT	389	M6 High Outdoor Air Temp Alarm	R	m6_hi_oat_alarm
EVT	390	M5 Low Outdoor Air Temp Alarm	R	m5_lo_oat_alarm
EVT	391	M5 High Outdoor Air Temp Alarm	R	m5_hi_oat_alarm
EVT	392	M4 Low Outdoor Air Temp Alarm	R	m4_lo_oat_alarm
EVT	393	M4 High Outdoor Air Temp Alarm	R	m4_hi_oat_alarm
EVT	394	M3 Low Outdoor Air Temp Alarm	R	m3_lo_oat_alarm
EVT	395	M3 High Outdoor Air Temp Alarm	R	m3_hi_oat_alarm
EVT	396	M2 Low Outdoor Air Temp Alarm	R	m2_lo_oat_alarm
EVT	397	M2 High Outdoor Air Temp Alarm	R	m2_hi_oat_alarm
EVT	398	M1 Low Outdoor Air Temp Alarm	R	m1_lo_oat_alarm

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	399	M1 High Outdoor Air Temp Alarm	R	m1_hi_oat_alarm
BBV	400	RDS Bank Shutdown	R	rds_bank_shutdown
EVT	401	M8 RDS Alarm	R	m8_rds_alarm
EVT	402	M7 RDS Alarm	R	m7_rds_alarm
EVT	403	M6 RDS Alarm	R	m6_rds_alarm
EVT	404	M5 RDS Alarm	R	m5_rds_alarm
EVT	405	M3 RDS Alarm	R	m3_rds_alarm
EVT	406	M4 RDS Alarm	R	m4_rds_alarm
EVT	407	M2 RDS Alarm	R	m2_rds_alarm
EVT	408	M1 RDS Alarm	R	m1_rds_alarm
BMSV	409	Cooling Type	R/W	cooling_type
BBV	410	Compressor Unload Present	R	unload_present
EVT	411	M12 Mlockout	R	m12_manager_lockout_alm
EVT	412	M12 L1 Motorized Valve Alarm	R	m12_loop1_valve_alarm
EVT	413	M11 RDS Alarm	R	m11_rds_alarm
EVT	414	M12 C2_P2 Suc Press OOR	R	m12_c2_suction_pressure_oor
EVT	415	M12 C1 Suc Press OOR	R	m12_c1_suction_pressure_oor
EVT	416	M12 C2 Line Press OOR	R	m12_c2_liq_pres_oor
EVT	417	M12 C1 Liquid Line Pressure OOR	R	m12_c1_liq_pres_oor
EVT	418	M12 C2 Liquid Line Temp OOR	R	m12_c2_liquid_line_temperature_oor
EVT	419	M12 C1 Liquid Line Temp OOR	R	m12_c1_liquid_line_temp_oor
EVT	420	M12 C2 Suction Temp OOR	R	m12_c2_suction_temperature_oor
EVT	421	M12 C1 Suction Temp OOR	R	m12_c1_suction_temperature_oor
EVT	422	M12 C2 Discharge Temp OOR	R	m12_c2_discharge_temperature_oor
EVT	423	M12 C2 Discharge Pressure OOR	R	m12_c2_discharge_pressure_oor
EVT	424	M12 C1 Discharge Pressure OOR	R	m12_c1_discharge_pressure_oor
EVT	425	M12 Phase Loss Alarm	R	m12_phase_loss_alarm
EVT	426	M12 OAT OOR	R	m12_oat_oor
EVT	427	M12 C1 Discharge Temp OOR	R	m12_c1_discharge_temperature_oor
EVT	428	M12 C1 Low Suction Temp	R	m12_c1_lo_suc_tmp
EVT	429	M12 C2 Low Suction Temp	R	m12_c2_lo_suc_tmp
EVT	430	M12 C2 Low Suction Press Alarm	R	m12_c2_low_suc_pres_alm
EVT	431	M12 C2 VFD General Alarm	R	m12_c2_vfd_gen_alarm
EVT	432	M12 C1 VFD General Alarm	R	m12_c1_vfd_gen_alarm

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	433	M12 C2 VFD STO Alarm	R	m12_c2_vfd_sto_alarm
EVT	434	M12 C1 VFD STO Alarm	R	m12_c1_vfd_sto_alarm
EVT	435	M12 C1 High Pressure Alarm	R	m12_c1_hi_disc_pres_alm
EVT	436	M12 C2 High Pressure Alarm	R	m12_c2_hi_disc_pres_alm
EVT	437	M12 C1 Low Suction Press Alarm	R	m12_c1_low_suc_pres_alm
EVT	438	M12 C1 High Discharge Temp	R	m12_c1_hi_disc_temp_alm
EVT	439	M12 C2 High Discharge Temp	R	m12_c2_hi_disc_temp_alm
EVT	440	M12 C2 NO-Run Alarm	R	m12_c2_no_run
EVT	441	M12 C1 NO-Run Alarm	R	m12_c1_no_run
EVT	442	M12 C2 EEV Comm Loss Alarm	R	m12_c2_eev_comm_loss_alarm
EVT	443	M12 Low L3 Leaving Temp Alarm	R	m12_low_loop3_leaving_temp_alarm
EVT	444	M12 C1 EEV Comm Loss Alarm	R	m12_c1_eev_comm_loss_alarm
EVT	445	M12 L3 Valve Alarm	R	m12_low_loop3_valve_alarm
EVT	446	M12 RDS Alarm	R	m12_rds_alarm
EVT	447	M12 L2 Motorized Valve Alarm	R	m12_low_loop2_valve_alarm
EVT	448	M12 Comm Loss Alarm	R	m12_comm_lost
EVT	449	M12 Local Flow Alarm	R	m12_module_flow_alarm
EVT	450	M11 Low L3 Leaving Temp Alarm	R	m11_low_loop3_leaving_temp_alarm
EVT	451	M11 L3 Valve Alarm	R	m11_low_loop3_valve_alarm
EVT	452	M11 Local Flow Alarm	R	m11_module_flow_alarm
EVT	453	M10 Low L3 Leaving Temp Alarm	R	m10_low_loop3_leaving_temp_alarm
EVT	454	M10 L3 Valve Alarm	R	m10_low_loop3_valve_alarm
EVT	455	M10 RDS Alarm	R	m10_rds_alarm
BBV	456	Limit Comp Cooling	R/W	no_comp_cooling
BBV	457	Group Free Cooling	R/W	group_free_cooling
EVT	458	RDS Shutdown Alarm	R	rds_shutdown_alarm
EVT	459	M11 C2 Line Press OOR	R	m11_c2_liq_pres_oor
EVT	460	M11 C1 Liquid Line Press OOR	R	m11_c1_liq_pres_oor
EVT	461	M11 C2 Liquid Line Temp OOR	R	m11_c2_liquid_line_temperature_oor
EVT	462	M11 C1 Liquid Line Temp OOR	R	m11_c1_liquid_line_temp_oor
EVT	463	M7 Low L3 Leaving Temp Alarm	R	m7_low_loop3_leaving_temp_alarm
EVT	464	M11 C2 Suction Temp OOR	R	m11_c2_suction_temperature_oor
EVT	465	M11 C1 Suction Temp OOR	R	m11_c1_suction_temperature_oor

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	466	M11 C2 Discharge Temp OOR	R	m11_c2_discharge_temperature_oor
EVT	467	M11 C2 Discharge Pressure OOR	R	m11_c2_discharge_pressure_oor
EVT	468	M11 C1 Discharge Pressure OOR	R	m11_c1_discharge_pressure_oor
EVT	469	M11 Phase Loss Alarm	R	m11_phase_loss_alarm
EVT	470	M11 OAT OOR	R	m11_oat_oor
EVT	471	M11 C1 Discharge Temp OOR	R	m11_c1_discharge_temperature_oor
EVT	472	M11 C1 Low Suction Temp	R	m11_c1_lo_suc_tmp
EVT	473	M11 C2 Low Suction Temp	R	m11_c2_lo_suc_tmp
EVT	474	M11 C2 Low Suction Pressure Alarm	R	m11_c2_low_suc_pres_alm
EVT	475	M11 C2 VFD General Alarm	R	m11_c2_vfd_gen_alarm
EVT	476	M11 C1 VFD General Alarm	R	m11_c1_vfd_gen_alarm
EVT	477	M11 C2 VFD STO Alarm	R	m11_c2_vfd_sto_alarm
EVT	478	M11 C1 VFD STO Alarm	R	m11_c1_vfd_sto_alarm
EVT	479	M6 L3 Valve Alarm	R	m6_low_loop3_valve_alarm
EVT	480	M11 C1 High Pressure Alarm	R	m11_c1_hi_disc_pres_alm
EVT	481	M11 C2 High Pressure Alarm	R	m11_c2_hi_disc_pres_alm
EVT	482	M11 C1 Low Suction Pressure Alarm	R	m11_c1_low_suc_pres_alm
EVT	483	M11 C1 High Discharge Temp	R	m11_c1_hi_disc_temp_alm
EVT	484	M11 C2 High Discharge Temp	R	m11_c2_hi_disc_temp_alm
EVT	485	M11 C2 NO-Run Alarm	R	m11_c2_no_run
EVT	486	M11 C1 NO-Run Alarm	R	m11_c1_no_run
EVT	487	M11 C2 EEV Comm Loss Alarm	R	m11_c2_eev_comm_loss_alarm
EVT	488	M11 C1 EEV Comm Loss Alarm	R	m11_c1_eev_comm_loss_alarm
EVT	489	M5 Low L3 Leav Temp Alarm	R	m5_low_loop3_leaving_temp_alarm
EVT	490	M5 L3 Valve Alarm	R	m5_low_loop3_valve_alarm
EVT	491	M4 Low L3 Leav Temp Alarm	R	m4_low_loop3_leaving_temp_alarm
EVT	492	M4 L3 Valve Alarm	R	m4_low_loop3_valve_alarm
EVT	493	M3 Low L3 Leav Temp Alarm	R	m3_low_loop3_leaving_temp_alarm
EVT	494	M3 L3 Valve Alarm	R	m3_low_loop3_valve_alarm
EVT	495	M12 C2 Liquid Pressure OOR	R	m12_c2_liq_pres_oor
EVT	496	M12 L1 Entering Temp OOR	R	m12_low_loop1_entering_oor

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	497	M12 C1 Liquid Pressure OOR	R	m12_c1_liq_pres_oor
EVT	498	M12 L2 Leaving Temp OOR	R	m12_loop2_leaving_water_temp_oor
EVT	499	M12 L3 Leaving Temp OOR	R	m12_loop3_leaving_water_temp_oor
EVT	500	M10 MLockout	R	m10_manager_lockout_alm
EVT	501	M10 Communications Alarm	R	m10_comm_lost
BAV	502	M1 Calc C1 Suc Superheat	R	m1_c1_suc_superheat
BAV	503	M1 C1 Cool Mode SubCool	R	m1_c1_cool_mode_subcool
BAV	504	M1 C1 Discharge Temp	R	m1_c1_disc_temp
BAV	505	M1 C1 Suction Temp	R	m1_c1_suct_temp
BAV	506	M1 C1 Cooling Liquid Line Temp	R	m1_c1_cl_ll_temp
BAV	507	M1 C1 Heating Liquid Line Temp	R	m1_c1_ht_ll_temp
BAV	508	M1 C1 Air Coil Line Temp	R	m1_c1_acl_temp
EVT	509	M12 C2 Air Coil Line Temp OOR	R	m12_aclt2_oor
EVT	510	M12 C1 Air Coil Line Temp OOR	R	m12_aclt1_oor
EVT	511	M10 L2 Motorized Valve Alarm	R	m10_loop2_valve_alarm
EVT	512	M10 L1 Motorized Valve Alarm	R	m10_loop1_valve_alarm
EVT	513	M11 C2 Liquid Pressure OOR	R	m11_c2_liq_pres_oor
EVT	514	M11 L1 Entering Temp OOR	R	m11_loop1_entering_oor
EVT	515	M11 C1 Liquid Pressure OOR	R	m11_c1_liq_pres_oor
EVT	516	M10 C2_P2 SUC PRESS OOR	R	m10_c2_suction_pressure_oor
EVT	517	M10 C1 Suction Pressure OOR	R	m10_c1_suction_pressure_oor
BAV	518	M1 C1 Discharge Pressure	R	m1_c1_disc_pres
BAV	519	M1 C1 Suction Pressure	R	m1_c1_suct_pres
BAV	520	M1 C1 Cooling Liquid Line Pressure	R	m1_c1_cl_ll_pres
BAV	521	M1 C1 Fan Output	R	m1_c1_fan_out
EVT	522	M10 C2 Line Press OOR	R	m10_c2_liq_pres_oor
EVT	523	M10 C1 liquid line pressure OOR	R	m10_c1_liq_pres_oor
EVT	524	M10 C2 Liquid Line Temp OOR	R	m10_c2_liquid_line_temperature_oor
EVT	525	M11 L3 Leaving Temp OOR	R	m11_loop3_leaving_water_temp_oor
EVT	526	M10 C1 Liquid Line Temp OOR	R	m10_c1_liquid_line_temp_oor
EVT	527	M11 C2 Liquid Line Temp OOR	R	m11_c2_ll_temp_oor

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	528	M10 C2 Suction Temp OOR	R	m10_c2_suction_temperature_oor
EVT	529	M10 C1 Suction Temp OOR	R	m10_c1_suction_temperature_oor
EVT	530	M10 C2 Discharge Temp OOR	R	m10_c2_discharge_temperature_oor
EVT	531	M10 C2 Discharge Pressure OOR	R	m10_c2_discharge_pressure_oor
EVT	532	M10 C1 Discharge Pressure OOR	R	m10_c1_discharge_pressure_oor
EVT	533	M10 Phase Loss Alarm	R	m10_phase_loss_alarm
EVT	534	M10 C2 Liquid Pressure OOR	R	m10_c2_liq_pres_oor
EVT	535	M10 C1 Discharge Temp OOR	R	m10_c1_discharge_temperature_oor
EVT	536	M10 L1 Entering Temp OOR	R	m10_loop1_entering_oor
EVT	537	M10 C1 Liquid Pressure OOR	R	m10_c1_liq_pres_oor
EVT	538	M10 C1 Low Suction Temp	R	m10_c1_lo_suc_tmp
EVT	539	M10 C2 Low Suction Temp	R	m10_c2_lo_suc_tmp
EVT	540	M10 C2 Low Suction Pressure Alarm	R	m10_c2_low_suc_pres_alm
EVT	541	M10 C2 VFD General Alarm	R	m10_c2_vfd_gen_alarm
EVT	542	M10 C1 VFD General Alarm	R	m10_c1_vfd_gen_alarm
EVT	543	M10 C2 VFD STO Alarm	R	m10_c2_vfd_sto_alarm
EVT	545	M10 C1 VFD STO Alarm	R	m10_c1_vfd_sto_alarm
EVT	546	M10 C2 Liquid Line Temp OOR	R	m10_c2_ll_temp_oor
EVT	547	M10 C1 Liquid Line Temp OOR	R	m10_c1_ll_temp_oor
EVT	548	M10 C2 Air Coil Line Temp OOR	R	m10_aclt2_oor
EVT	549	M10 C1 Air Coil Line Temp OOR	R	m10_aclt1_oor
EVT	550	M10 C1 Low Suction Pressure Alarm	R	m10_c1_low_suc_pres_alm
EVT	551	M10 C1 High Discharge Temp	R	m10_c1_hi_disc_temp_alm
EVT	552	M10 C2 High Discharge Temp	R	m10_c2_hi_disc_temp_alm
EVT	553	M10 C2 NO-Run Alarm	R	m10_c2_no_run
EVT	554	M10 C1 NO-Run Alarm	R	m10_c1_no_run
EVT	555	M10 C2 EEV Comm Loss Alarm	R	m10_c2_eev_comm_loss_alarm
EVT	556	M10 C1 EEV Comm Loss Alarm	R	m10_c1_eev_comm_loss_alarm
EVT	557	M9 L1 Leaving Water Temp OOR	R	m9_loop1_leaving_water_temp_oor
EVT	558	M1 C1 EEV Comm Loss Alarm	R	m1_c1_eev_comm_loss_alarm

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Object			Read/ Write	Reference Name	Object			Read/ Write	Reference Name
Type	ID	Name			Type	ID	Name		
EVT	559	M1 C 2 EEV Comm Loss Alarm	R	m1_c2_eev_comm_loss_alarm	EVT	590	M1 C2 Liquid Line Temp OOR	R	m1_c2_liquid_line_temperature_oor
EVT	560	M1 C1 High Discharge Temp Alarm	R	m1_c1_hi_disc_temp_alm	EVT	591	M1 C1 liquid line pressure OOR	R	m1_c1_liq_pres_oor
EVT	561	M1 C2 NO-Run Alarm	R	m1_c2_no_run	EVT	592	M1 C2 Line Press OOR	R	m1_c2_liq_pres_oor
EVT	562	M1 C1 Hi Discharge Pressure	R	m1_c1_hi_disc_pres_alm	EVT	593	M1 C1 Suction Pressure OOR	R	m1_c1_suction_pressure_oor
EVT	563	M9 L3 Leaving Temp OOR	R	m9_loop3_leaving_water_temp_oor	EVT	594	M1 C2_P2 SUC PRESS OOR	R	m1_c2_suction_pressure_oor
EVT	564	M1 C1 Low Suction Pressure Alarm	R	m1_c1_low_suc_pres_alm	BAV	595	M2 C1 Discharge Temp	R	m2_c1_disc_temp
EVT	565	M1 C2 High Pressure Alarm	R	m1_c2_hi_disc_pres_alm	BAV	596	M2 C1 Suction Temp	R	m2_c1_suct_temp
EVT	566	M9 C2 Liquid Line Temp OOR	R	m9_c2_ll_temp_oor	BAV	597	M2 Calc C1 Suc Superheat	R	m2_c1_suc_superheat
EVT	567	M9 C1 Liquid Line Temp OOR	R	m9_c1_ll_temp_oor	BAV	598	M2 C1 Heating Liquid Line Temp	R	m2_c1_ht_ll_temp
EVT	568	M9 C2 Air Coil Line Temp OOR	R	m9_aclt2_oor	EVT	599	M8 C1 Air Coil Line Temp OOR	R	m8_aclt1_oor
EVT	569	M1 C1 VFD STO Alarm	R	m1_c1_vfd_sto_alarm	EVT	600	M1 MFlow Alarm	R	m1_module_flow_alarm
EVT	570	M1 C2 VFD STO Alarm	R	m1_c2_vfd_sto_alarm	EVT	601	M1 L1 Motorized Valve Alarm	R	m1_loop1_valve_alarm
EVT	571	M1 C1 VFD General Alarm	R	m1_c1_vfd_gen_alarm	EVT	602	M1 L2 Motorized Valve Alarm	R	m1_loop2_valve_alarm
EVT	572	M1 C1 Air Coil Line Temp OOR	R	m1_aclt1_oor	BAV	603	M2 C1 Air Coil Line Temp	R	m2_c1_acl_temp
EVT	573	M1 C2 Air Coil Line Temp OOR	R	m1_aclt2_oor	EVT	604	M7 C2 Liquid Pressure OOR	R	m7_c2_liq_pres_oor
EVT	574	M9 C1 Air Coil Line Temp OOR	R	m9_aclt1_oor	EVT	605	M1 Comm Alarm	R	m1_comm_lost
EVT	575	M8 C2 Liquid Pressure OOR	R	m8_c2_liq_pres_oor	EVT	606	M1 MLockout	R	m1_manager_lockout_alarm
EVT	576	M8 C1 Liquid Pressure OOR	R	m8_c1_liq_pres_oor	BMSV	607	M1 Unload	R	m1_unld_msv
EVT	577	M8 L3 Leaving Temp OOR	R	m8_loop3_leaving_water_temp_oor	BMSV	608	M1 C1 Unload	R	m1_c1_unld_msv
EVT	578	M8 C2 Liquid Line Temp OOR	R	m8_c2_ll_temp_oor	BMSV	609	M1 C2 Unload	R	m1_c2_unld_msv
EVT	579	M1 C1 Discharge Temp OOR	R	m1_c1_discharge_temperature_oor	BAV	610	M2 C1 Suction Pressure	R	m2_c1_suct_pres
EVT	580	M1 OAT OOR	R	m1_oat_oor	BAV	611	M2 C1 Cooling Liquid Line Pressure	R	m2_c1_cl_ll_pres
EVT	581	M1 Phase Loss Alarm	R	m1_phase_loss_alarm	EVT	612	M7 L1 Entering Temp OOR	R	m7_loop1_entering_oor
EVT	582	M1 C1 Discharge Pressure OOR	R	m1_c1_discharge_pressure_oor	EVT	613	M7 C1 Liquid Pressure OOR	R	m7_c1_liq_pres_oor
EVT	583	M1 C2 Discharge Pressure OOR	R	m1_c2_discharge_pressure_oor	EVT	614	M7 L3 Leaving Temp OOR	R	m7_loop3_leaving_water_temp_oor
EVT	584	M1 C2 Discharge Temp OOR	R	m1_c2_discharge_temperature_oor	EVT	615	M7 C2 Liquid Line Temp OOR	R	m7_c2_ll_temp_oor
EVT	585	M1 C1 Suction Temp OOR	R	m1_c1_suction_temperature_oor	BAV	616	M2 C1 Fan Output	R	m2_c1_fan_out
EVT	586	M1 C2 Suction Temp OOR	R	m1_c2_suction_temperature_oor	EVT	617	M7 C1 Liquid Line Temp OOR	R	m7_c1_ll_temp_oor
EVT	587	M8 C1 Liquid Line Temp OOR	R	m8_c1_ll_temp_oor	EVT	618	M7 C2 Air Coil Line Temp OOR	R	m7_aclt2_oor
EVT	588	M8 C2 Air Coil Line Temp OOR	R	m8_aclt2_oor	EVT	619	M7 C1 Air Coil Line Temp OOR	R	m7_aclt1_oor
EVT	589	M1 C1 Liquid Line Temp OOR	R	m1_c1_liquid_line_temp_oor	EVT	620	M6 C2 Liquid Pressure OOR	R	m6_c2_liq_pres_oor
					EVT	621	M6 L1 Entering Temp OOR	R	m6_loop1_entering_oor

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	622	M6 C1 Liquid Pressure OOR	R	m6_c1_liq_pres_oor
EVT	623	M9 MLockout	R	m9_manager_lockout_alm
EVT	624	M9 Communications Alarm	R	m9_comm_lost
EVT	625	M6 L3 Leaving Temp OOR	R	m6_loop3_leaving_water_temp_oor
EVT	626	M6 C2 Liquid Line Temp OOR	R	m6_c2_ll_temp_oor
EVT	627	M6 C1 Liquid Line Temp OOR	R	m6_c1_ll_temp_oor
EVT	628	M6 C2 Air Coil Line Temp OOR	R	m6_aclt2_oor
EVT	629	M6 C1 Air Coil Line Temp OOR	R	m6_aclt1_oor
EVT	630	M5 C2 Liquid Pressure OOR	R	m5_c2_liq_pres_oor
EVT	631	M9 C2_P2 SUC PRESS OOR	R	m9_c2_suction_pressure_oor
EVT	632	M5 L1 Entering Temp OOR	R	m5_loop1_entering_oor
EVT	633	M5 C1 Liquid Pressure OOR	R	m5_c1_liq_pres_oor
EVT	634	M9 C1 liquid line pressure OOR	R	m9_c1_liq_pres_oor
EVT	635	M9 C2 Liquid Line Temp OOR	R	m9_c2_liquid_line_temperature_oor
EVT	636	M9 C1 Liquid Line Temp OOR	R	m9_c1_liquid_line_temp_oor
EVT	637	M9 C2 Suction Temp OOR	R	m9_c2_suction_temperature_oor
EVT	638	M5 L3 Leaving Temp OOR	R	m5_loop3_leaving_water_temp_oor
EVT	639	M9 C2 Discharge Temp OOR	R	m9_c2_discharge_temperature_oor
EVT	640	M5 C2 Liquid Line Temp OOR	R	m5_c2_ll_temp_oor
EVT	641	M5 C1 Liquid Line Temp OOR	R	m5_c1_ll_temp_oor
EVT	642	M5 C2 Air Coil Line Temp OOR	R	m5_aclt2_oor
EVT	643	M5 C1 Air Coil Line Temp OOR	R	m5_aclt1_oor
EVT	644	M9 C1 Discharge Temp OOR	R	m9_c1_discharge_temperature_oor
EVT	645	M4 C2 Liquid Pressure OOR	R	m4_c2_liq_pres_oor
EVT	646	M9 C1 Low Suction Temp	R	m9_c1_lo_suc_tmp
EVT	647	M4 L1 Entering Temp OOR	R	m4_loop1_entering_oor
EVT	648	M4 C1 Liquid Pressure OOR	R	m4_c1_liq_pres_oor
BAV	649	M3 C1 Cool mode SubCool	R	m3_c1_cool_mode_subcool
BAV	650	M3 C1 Discharge Temp	R	m3_c1_disc_temp
BAV	651	M3 C1 Suction Temp	R	m3_c1_suct_temp
EVT	652	M9 C2 VFD General Alarm	R	m9_c2_vfd_gen_alarm

Object			Read/ Write	Reference Name
Type	ID	Name		
BAV	653	M3 C1 Heating Liquid Line Temp	R	m3_c1_ht_ll_temp
EVT	654	M4 L2 Leaving Temp OOR	R	m4_loop2_leaving_water_temp_oor
EVT	655	M9 C2 VFD STO Alarm	R	m9_c2_vfd_sto_alarm
EVT	656	M9 C1 VFD STO Alarm	R	m9_c1_vfd_sto_alarm
EVT	657	M4 L3 Leaving Temp OOR	R	m4_loop3_leaving_water_temp_oor
EVT	658	M9 C2 High Pressure Alarm	R	m9_c2_hi_disc_pres_alm
EVT	659	M4 C2 Liquid Line Temp OOR	R	m4_c2_ll_temp_oor
BAV	660	M3 Calc C1 Suc Superheat	R	m3_c1_suc_superheat
EVT	661	M4 C1 Liquid Line Temp OOR	R	m4_c1_ll_temp_oor
EVT	662	M4 C2 Air Coil Line Temp OOR	R	m4_aclt2_oor
EVT	663	M4 C1 Air Coil Line Temp OOR	R	m4_aclt1_oor
BAV	664	M3 C1 Discharge Pressure	R	m3_c1_disc_pres
BAV	665	M3 C1 Suction Pressure	R	m3_c1_suct_pres
EVT	667	M9 C1 NO-Run Alarm	R	m9_c1_no_run
EVT	668	M2 C1 EEV Comm Loss Alarm	R	m2_c1_eev_comm_loss_alm
EVT	668	M9 C2 EEV Comm Loss Alarm	R	m9_c2_eev_comm_loss_alm
EVT	669	M2 C2 EEV Comm Loss Alarm	R	m2_c2_eev_comm_loss_alm
EVT	670	M2 C1 NO-Run Alarm	R	m2_c1_no_run
EVT	671	M2 C2 NO-Run Alarm	R	m2_c2_no_run
EVT	672	M2 C2 High Discharge Temp	R	m2_c2_hi_disc_temp_alm
EVT	673	M9 C1 EEV Comm Loss Alarm	R	m9_c1_eev_comm_loss_alm
EVT	674	M2 C1 Low Suction Pressure Alarm	R	m2_c1_low_suc_pres_alm
EVT	675	M2 C2 High Pressure Alarm	R	m2_c2_hi_disc_pres_alm
EVT	676	M2 C1 High Pressure Alarm	R	m2_c1_hi_disc_pres_alm
BAV	677	M3 C1 Fan Output	R	m3_c1_fan_out
EVT	678	M3 C2 Liquid Pressure OOR	R	m3_c2_liq_pres_oor
EVT	679	M2 C1 VFD STO Alarm	R	m2_c1_vfd_sto_alarm
EVT	679	M3 L1 Entering Temp OOR	R	m3_loop1_entering_oor
EVT	680	M2 C2 VFD STO Alarm	R	m2_c2_vfd_sto_alarm
EVT	681	M2 C1 VFD General Alarm	R	m2_c1_vfd_gen_alarm
EVT	682	M2 C2 VFD General Alarm	R	m2_c2_vfd_gen_alarm

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	683	M2 C2 Low Suction Pressure Alarm	R	m2_c2_low_suc_pres_alm
EVT	684	M2 C2 Low Suction Temp	R	m2_c2_lo_suc_tmp
EVT	685	M2 C1 Low Suction Temp	R	m2_c1_lo_suc_tmp
EVT	686	M3 C1 Liquid Pressure OOR	R	m3_c1_liq_pres_oor
EVT	687	M3 L3 Leaving Temp OOR	R	m3_loop3_leaving_water_temp_oor
EVT	688	M3 C2 Liquid Line Temp OOR	R	m3_c2_ll_temp_oor
EVT	689	M2 C1 Discharge Temp OOR	R	m2_c1_discharge_temperature_oor
EVT	690	M2 OAT OOR	R	m2_oat_oor
EVT	691	M2 Phase Loss Alarm	R	m2_phase_loss_alarm
EVT	692	M2 C1 Discharge Pressure OOR	R	m2_c1_discharge_pressure_oor
EVT	693	M2 C2 Discharge Pressure OOR	R	m2_c2_discharge_pressure_oor
EVT	694	M2 C2 Discharge Temp OOR	R	m2_c2_discharge_temperature_oor
EVT	695	M2 C1 Suction Temp OOR	R	m2_c1_suction_temperature_oor
EVT	696	M2 C2 Suction Temp OOR	R	m2_c2_suction_temperature_oor
EVT	697	M3 C1 Liquid Line Temp OOR	R	m3_c1_ll_temp_oor
EVT	698	M3 C2 Air Coil Line Temp OOR	R	m3_aclt2_oor
EVT	699	M2 C1 Liquid Line Temp OOR	R	m2_c1_liquid_line_temp_oor
EVT	700	M2 C2 Liquid Line Temp OOR	R	m2_c2_liquid_line_temperature_oor
EVT	701	M2 C1 Liquid Line Pressure OOR	R	m2_c1_liq_pres_oor
EVT	702	M2 C2 Liquid Line Press OOR	R	m2_c2_liq_pres_oor
EVT	703	M2 C1 Suction Pressure OOR	R	m2_c1_suction_pressure_oor
EVT	704	M2 C2_P2 Suction Pressure OOR	R	m2_c2_suction_pressure_oor
BAV	705	M4 C1 Discharge Temp	R	m4_c1_disc_temp
BAV	706	M4 C1 Suction Temp	R	m4_c1_suct_temp
EVT	707	M3 C1 Air Coil Line Temp OOR	R	m3_aclt1_oor
BAV	708	M4 C1 Heating Liquid Line Temp	R	m4_c1_ht_ll_temp
EVT	709	M11 C2 High Discharge Temp	R	m11_c2_hi_disc_tmp
EVT	710	M2 Mod Flow Alarm	R	m2_module_flow_alarm
EVT	711	M2 L1 Motorized Valve Alarm	R	m2_loop1_valve_alarm
EVT	712	M2 L2 Motorized Valve Alarm	R	m2_loop2_valve_alarm
EVT	713	M10 C2 High Discharge Press Alarm	R	m10_c2_hi_disc_pres_alm
EVT	714	M8 Manager Lockout alrm	R	m8_manager_lockout_alm

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	715	M2 Comm Alarm	R	m2_comm_lost
EVT	716	M2 Manager Lockout	R	m2_manager_lockout_alm
EVT	717	M8 Comm Alarm	R	m8_comm_lost
EVT	718	M8 L2 Motorized Valve Alarm	R	m8_loop2_valve_alarm
BAV	719	M4 C1 Discharge Pressure	R	m4_c1_disc_pres
BAV	720	M4 C1 Suction Pressure	R	m4_c1_suct_pres
BAV	721	M4 C1 Cooling Liquid Line Pressure	R	m4_c1_cl_ll_pres
EVT	722	M8 L1 Motorized Valve Alarm	R	m8_loop1_valve_alarm
EVT	723	M8 Mod Flow Alarm	R	m8_module_flow_alarm
EVT	724	M8 C2_P2 Suction Pressure OOR	R	m8_c2_suction_pressure_oor
EVT	725	M8 C1 Suction Pressure OOR	R	m8_c1_suction_pressure_oor
EVT	726	M8 C2 Line Press OOR	R	m8_c2_liq_pres_oor
BAV	727	M4 C1 Cooling Liquid Line Temp	R	m4_c1_cl_ll_temp
EVT	728	M8 C1 Liquid Line Pressure OOR	R	m8_c1_liq_pres_oor
BAV	729	M4 C1 Air Coil Line Temp	R	m4_c1_acl_temp
EVT	730	M8 C2 Liquid Line Temp OOR	R	m8_c2_liquid_line_temperature_oor
EVT	731	M8 C1 Liquid Line Temp OOR	R	m8_c1_liquid_line_temp_oor
EVT	732	M8 C2 Suction Temp OOR	R	m8_c2_suction_temperature_oor
EVT	733	M8 C1 Suction Temp OOR	R	m8_c1_suction_temperature_oor
EVT	734	M8 C2 Discharge Temp OOR	R	m8_c2_discharge_temperature_oor
EVT	735	M8 C2 Discharge Pressure OOR	R	m8_c2_discharge_pressure_oor
EVT	736	M8 C1 Discharge Pressure OOR	R	m8_c1_discharge_pressure_oor
EVT	737	M7 C1 High Discharge Press	R	m7_c1_hi_disc_pres
EVT	738	M8 Phase Loss Alarm	R	m8_phase_loss_alarm
EVT	739	M8 OAT OOR	R	m8_oat_oor
EVT	740	M8 C1 Discharge Temp OOR	R	m8_c1_discharge_temperature_oor
EVT	741	M8 C1 Low Suction Temp	R	m8_c1_lo_suc_tmp
BAV	742	M4 C1 Fan Output	R	m4_c1_fan_out
EVT	743	M8 C2 Low Suction Temp	R	m8_c2_lo_suc_tmp
EVT	744	M8 C2 Low Suction Pressure Alarm	R	m8_c2_low_suc_pres_alm
EVT	745	M8 C2 VFD General Alarm	R	m8_c2_vfd_gen_alarm
EVT	746	M8 C1 VFD General Alarm	R	m8_c1_vfd_gen_alarm

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	747	M6 C1 Hi Discharge Pressure	R	m6_c1_hi_disc_pres
EVT	748	M8 C1 VFD STO Alarm	R	m8_c1_vfd_sto_alarm
EVT	749	M8 C1 High Pressure Alarm	R	m8_c1_hi_disc_pres_alm
EVT	750	M8 C2 High Pressure Alarm	R	m8_c2_hi_disc_pres_alm
EVT	751	M8 C1 Low Suction Pressure Alarm	R	m8_c1_low_suc_pres_alm
EVT	752	M8 C1 High Discharge Temp	R	m8_c1_hi_disc_temp_alm
EVT	753	M8 C2 High Discharge Temp	R	m8_c2_hi_disc_temp_alm
EVT	754	M8 C2 NO-Run Alarm	R	m8_c2_no_run
EVT	755	M8 C1 NO-Run Alarm	R	m8_c1_no_run
EVT	756	M8 C2 EEV Comm Loss Alarm	R	m8_c2_eev_comm_loss_alarm
EVT	757	M8 C1 EEV Comm Loss Alarm	R	m8_c1_eev_comm_loss_alarm
EVT	758	M5 C1 High Discharge Pressure	R	m5_c1_hi_disc_pres
BAV	759	M5 C1 Cool mode SubCool	R	m5_c1_cool_mode_subcool
BAV	760	M5 C1 Discharge Temp	R	m5_c1_disc_temp
BAV	761	M5 C1 Suction Temp	R	m5_c1_suct_temp
EVT	762	M4 C1 High Discharge Pressure	R	m4_c1_hi_disc_pres
BAV	763	M5 C1 Heating Liquid Line Temp	R	m5_c1_ht_ll_temp
EVT	764	M3 C1 High Discharge Pressure	R	m3_c1_hi_disc_pres
EVT	765	M2 C2 Liquid Pressure OOR	R	m2_c2_liq_pres_oor
EVT	766	M2 L1 Entering Temp OOR	R	m2_loop1_entering_oor
EVT	767	M2 C1 Liquid Pressure OOR	R	m2_c1_liq_pres_oor
EVT	768	M2 L2 Leaving Temp OOR	R	m2_loop2_leaving_water_temp_oor
EVT	769	M2 L3 Leaving Temp OOR	R	m2_loop3_leaving_water_temp_oor
EVT	770	M2 C2 Liquid Line Temp OOR	R	m2_c2_ll_temp_oor
EVT	771	M2 C1 Liquid Line Temp OOR	R	m2_c1_ll_temp_oor
EVT	772	M2 C2 Air Coil Line Temp OOR	R	m2_aclt2_oor
EVT	773	M2 C1 Air Coil Line Temp OOR	R	m2_aclt1_oor
BAV	774	M5 C1 Discharge Pressure	R	m5_c1_disc_pres
BAV	775	M5 C1 Suction Pressure	R	m5_c1_suct_pres
BAV	776	M5 C1 Cooling Liquid Line Pressure	R	m5_c1_cl_ll_pres
EVT	777	M2 C2 High Discharge Temp	R	m2_c2_hi_disc_tmp

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	778	M4 C1 EEV Comm Loss Alarm	R	m4_c1_eev_comm_loss_alarm
EVT	779	M4 C2 EEV Comm Loss Alarm	R	m4_c2_eev_comm_loss_alarm
EVT	780	M4 C1 NO-Run Alarm	R	m4_c1_no_run
EVT	781	M4 C2 NO-Run Alarm	R	m4_c2_no_run
EVT	782	M4 C2 High Discharge Temp	R	m4_c2_hi_disc_temp_alm
EVT	783	M4 C1 High Discharge Temp	R	m4_c1_hi_disc_temp_dlm
EVT	784	M4 C1 Low Suction Pressure Alarm	R	m4_c1_low_suc_pres_alm
EVT	785	M4 C2 High Pressure Alarm	R	m4_c2_hi_disc_pres_alm
EVT	786	M4 C1 High Pressure Alarm	R	m4_c1_hi_disc_pres_alm
EVT	787	M2 C1 Low Suction Pressure	R	m2_c1_low_suc_pres
EVT	788	M2 C1 Hi Discharge Pressure	R	m2_c1_hi_disc_pres
EVT	789	M4 C1 VFD STO Alarm	R	m4_c1_vfd_sto_alarm
EVT	790	M4 C2 VFD STO Alarm	R	m4_c2_vfd_sto_alarm
EVT	791	M4 C1 VFD General Alarm	R	m4_c1_vfd_gen_alarm
EVT	792	M4 C2 VFD General Alarm	R	m4_c2_vfd_gen_alarm
EVT	793	M4 C2 Low Suction Pressure Alarm	R	m4_c2_low_suc_pres_alm
EVT	794	M4 C2 Low Suction Temp	R	m4_c2_lo_suc_tmp
EVT	795	M4 C1 Low Suction Temp	R	m4_c1_lo_suc_tmp
EVT	796	M2 C1 High Discharge Temp Alarm	R	m2_c1_hi_disc_temp_alm
EVT	797	M2 Low L3 Leav Temp Alarm	R	m2_low_loop3_leaving_temp_alarm
EVT	798	M7 MLockout	R	m7_manager_lockout_alm
EVT	799	M4 C1 Discharge Temp OOR	R	m4_c1_discharge_temperature_oor
EVT	800	M4 OAT OOR	R	m4_oat_oor
EVT	801	M4 Phase Loss Alarm	R	m4_phase_loss_alarm
EVT	802	M4 C1 Discharge Pressure OOR	R	m4_c1_discharge_pressure_oor
EVT	803	M4 C2 Discharge Pressure OOR	R	m4_c2_discharge_pressure_oor
EVT	804	M4 C2 Discharge Temp OOR	R	m4_c2_discharge_temperature_oor
EVT	805	M4 C1 Suction Temp OOR	R	m4_c1_suction_temperature_oor
EVT	806	M4 C2 Suction Temp OOR	R	m4_c2_suction_temperature_oor
EVT	807	M7 Comm Alarm	R	m7_comm_lost
EVT	808	M7 L2 Motorized Valve Alarm	R	m7_loop2_valve_alarm

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	809	M4 C1 Liquid Line Temp OOR	R	m4_c1_liquid_line_temp_oor
EVT	810	M4 C2 Liquid Line Temp OOR	R	m4_c2_liquid_line_temperature_oor
EVT	811	M4 C1 liquid line pressure OOR	R	m4_c1_liq_pres_oor
EVT	812	M4 C2 Line Press OOR	R	m4_c2_liq_pres_oor
EVT	813	M4 C1 Suction Pressure OOR	R	m4_c1_suction_pressure_oor
EVT	814	M4 C2_P2 SUC PRESS OOR	R	m4_c2_suction_pressure_oor
BAV	815	M6 C1 Discharge Temp	R	m6_c1_disc_temp
BAV	816	M6 C1 Suction Temp	R	m6_c1_suct_temp
EVT	817	M7 L1 Motorized Valve Alarm	R	m7_loop1_valve_alarm
BAV	818	M6 C1 Heating Liquid Line Temp	R	m6_c1_ht_ll_temp
EVT	819	M7 Mflow Alarm	R	m7_module_flow_alarm
EVT	820	M4 Mflow Alarm	R	m4_module_flow_alarm
EVT	821	M4 L1 Motorized Valve Alarm	R	m4_loop1_valve_alarm
EVT	822	M4 L2 Motorized Valve Alarm	R	m4_loop2_valve_alarm
EVT	823	M7 C2_P2 SUC PRESS OOR	R	m7_c2_suction_pressure_oor
EVT	824	M7 C1 Suction Pressure OOR	R	m7_c1_suction_pressure_oor
EVT	825	M4 Comm Alarm	R	m4_comm_lost
EVT	826	M4 MLockout	R	m4_manager_lockout_alm
EVT	827	M7 C2 Line Press OOR	R	m7_c2_liq_pres_oor
BMSV	828	M12 C2 Unload	R	m12_c2_unld_msv
BAV	829	M6 C1 Discharge Pressure	R	m6_c1_disc_pres
BAV	830	M6 C1 Suction Pressure	R	m6_c1_suct_pres
BAV	831	M6 C1 Cooling Liquid Line Pressure	R	m6_c1_cl_ll_pres
BMSV	832	M12 C1 Unload	R	m12_c1_unld_msv
BMSV	833	M12 Unload	R	m12_unld_msv
BMSV	834	M11 C2 Unload	R	m11_c2_unld_msv
BMSV	835	M11 Comp 1 Unload	R	m11_c1_unld_msv
EVT	836	M7 C2 Suction Temp OOR	R	m7_c2_suction_temperature_oor
BAV	837	M10 C1 Fan Output	R	m10_c1_fan_out
BMSV	838	M10 C2 Unload	R	m10_c2_unld_msv
BMSV	839	M10 C1 Unload	R	m10_c1_unld_msv
BMSV	840	M10 Unload	R	m10_unld_msv
EVT	841	M7 C1 Discharge Pressure OOR	R	m7_c1_discharge_pressure_oor
EVT	842	M7 Phase Loss Alarm	R	m7_phase_loss_alarm
EVT	843	M7 OAT OOR	R	m7_oat_oor

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	844	M7 C1 Discharge Temp OOR	R	m7_c1_discharge_temperature_oor
BMSV	845	M8 C1 Unload	R	m8_c1_unld_msv
BMSV	846	M8 Unload	R	m8_unld_msv
BMSV	847	M7 C2 Unload	R	m7_c2_unld_msv
EVT	848	M7 C1 Low Suction Temp	R	m7_c1_lo_suc_tmp
BAV	849	M6 Calc C1 Suc Superheat	R	m6_c1_suc_superheat
EVT	850	M7 C2 Low Suction Temp	R	m7_c2_lo_suc_tmp
BAV	851	M10 C1 Air Coil Line Temp	R	m10_c1_acl_temp
BMSV	852	M6 C1 Unload	R	m6_c1_unld_msv
BAV	853	M6 C1 Cooling Liquid Line Temp	R	m6_c1_cl_ll_temp
EVT	854	M7 C1 VFD General Alarm	R	m7_c1_vfd_gen_alarm
BAV	855	M6 C1 Air Coil Line Temp	R	m6_c1_acl_temp
BAV	856	M10 C1 Cooling Liquid Line Temp	R	m10_c1_cl_ll_temp
BMSV	857	M5 C2 Unload	R	m5_c2_unld_msv
BMSV	858	M5 C1 Unload	R	m5_c1_unld_msv
BMSV	859	M5 Unload	R	m5_unld_msv
BAV	860	M10 Calc C1 Suc Superheat	R	m10_c1_suc_superheat
BMSV	861	M4 C1 Unload	R	m4_c1_unld_msv
BMSV	862	M4 Unload	R	m4_unld_msv
BMSV	863	M3 C2 Unload	R	m3_c2_unld_msv
BMSV	864	M3 C1 Unload	R	m3_c1_unld_msv
BMSV	865	M3 Unload	R	m3_unld_msv
BMSV	866	M2 C2 Unload	R	m2_c2_unld_msv
BMSV	867	M2 C1 Unload	R	m2_c1_unld_msv
BAV	868	M6 C1 Fan Output	R	m6_c1_fan_out
BAV	869	M7 C1 Cool mode SubCool	R	m7_c1_cool_mode_subcool
BAV	870	M7 C1 Discharge Temp	R	m7_c1_disc_temp
BAV	871	M7 C1 Suction Temp	R	m7_c1_suct_temp
BMSV	872	M2 Unload	R	m2_unld_msv
BAV	873	M7 C1 Heating Liquid Line Temp	R	m7_c1_ht_ll_temp
EVT	874	M1 C2 Liquid Pressure OOR	R	m1_c2_liq_pres_oor
EVT	875	M1 L1 Entering Temp OOR	R	m1_loop1_entering_oor
EVT	876	M1 L3 Leaving Temp OOR	R	m1_loop3_leaving_water_temp_oor
EVT	877	M1 C2 Liquid Line Temp OOR	R	m1_c2_ll_temp_oor
EVT	878	M1 C1 Liquid Line Temp OOR	R	m1_c1_ll_temp_oor

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	879	M1 Low L3 Leav Temp Alarm	R	m1_low_loop3_leaving_temp_alarm
BAV	880	M12 C1 Fan Output	R	m12_c1_fan_out
BAV	881	M12 Calc C1 Suc Superheat	R	m12_c1_suc_superheat
BAV	882	M10 C1 Cooling Liquid Line Pressure	R	m10_c1_cl_ll_pres
BAV	883	M10 C1 Suction Pressure	R	m10_c1_suct_pres
BAV	884	M7 C1 Discharge Pressure	R	m7_c1_disc_pres
BAV	885	M7 C1 Suction Pressure	R	m7_c1_suct_pres
BAV	886	M7 C1 Cooling Liquid Line Pressure	R	m7_c1_cl_ll_pres
BAV	887	M10 C1 Discharge Pressure	R	m10_c1_disc_pres
EVT	888	M3 C1 EEV Comm Loss Alarm	R	m3_c1_eev_comm_loss_alarm
EVT	889	M3 C2 EEV Comm Loss Alarm	R	m3_c2_eev_comm_loss_alarm
EVT	890	M3 C1 NO-Run Alarm	R	m3_c1_no_run
EVT	891	M3 C2 NO-Run Alarm	R	m3_c2_no_run
EVT	892	M3 C2 High Discharge Temp	R	m3_c2_hi_disc_temp_alm
EVT	893	M3 C1 High Discharge Temp	R	m3_c1_hi_disc_temp_alm
EVT	894	M3 C1 Low Suction Pressure Alarm	R	m3_c1_low_suc_pres_alm
EVT	895	M3 C2 High Pressure Alarm	R	m3_c2_hi_disc_pres_alm
EVT	896	M3 C1 High Pressure Alarm	R	m3_c1_hi_disc_pres_alm
EVT	897	M6 MLockout	R	m6_manager_lockout_alm
EVT	898	M6 Communications Alarm	R	m6_comm_lost
EVT	899	M3 C1 VFD STO Alarm	R	m3_c1_vfd_sto_alarm
EVT	900	M3 C2 VFD STO Alarm	R	m3_c2_vfd_sto_alarm
EVT	901	M3 C1 VFD General Alarm	R	m3_c1_vfd_gen_alarm
EVT	902	M3 C2 VFD General Alarm	R	m3_c2_vfd_gen_alarm
EVT	903	M3 C2 Low Suction Pressure Alarm	R	m3_c2_low_suc_pres_alm
EVT	904	M3 C2 Low Suction Temp	R	m3_c2_lo_suc_tmp
EVT	905	M3 C1 Low Suction Temp	R	m3_c1_lo_suc_tmp
EVT	906	M6 L2 Motorized Valve Alarm	R	m6_loop2_valve_alarm
EVT	907	M6 L1 Motorized Valve Alarm	R	m6_loop1_valve_alarm
EVT	908	M6 MFlow Alarm	R	m6_module_flow_alarm
EVT	909	M3 C1 Discharge Temp OOR	R	m3_c1_discharge_temperature_oor
EVT	910	M3 OAT OOR	R	m3_oat_oor

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	911	M3 Phase Loss Alarm	R	m3_phase_loss_alarm
EVT	912	M3 C1 Discharge Pressure OOR	R	m3_c1_discharge_pressure_oor
EVT	913	M3 C2 Discharge Pressure OOR	R	m3_c2_discharge_pressure_oor
EVT	914	M3 C2 Discharge Temp OOR	R	m3_c2_discharge_temperature_oor
EVT	915	M3 C1 Suction Temp OOR	R	m3_c1_suction_temperature_oor
EVT	916	M3 C2 Suction Temp OOR	R	m3_c2_suction_temperature_oor
BAV	917	M10 C1 Heating Liquid Line Temp	R	m10_c1_ht_ll_temp
BAV	918	M7 C1 Air Coil Line Temp	R	m7_c1_acl_temp
EVT	919	M3 C1 Liquid Line Temp OOR	R	m3_c1_liquid_line_temp_oor
EVT	920	M3 C2 Liquid Line Temp OOR	R	m3_c2_liquid_line_temperature_oor
EVT	921	M3 C1 liquid line pressure OOR	R	m3_c1_liq_pres_oor
EVT	922	M3 C2 Line Press OOR	R	m3_c2_liq_pres_oor
EVT	923	M3 C1 Suction Pressure OOR	R	m3_c1_suction_pressure_oor
EVT	924	M3 C2_P2 SUC PRESS OOR	R	m3_c2_suction_pressure_oor
BAV	925	M8 C1 Discharge Temp	R	m8_c1_disc_temp
BAV	926	M8 C1 Suction Temp	R	m8_c1_suct_temp
BAV	927	M10 C1 Suction Temp	R	m10_c1_suct_temp
BAV	928	M8 C1 Heating Liquid Line Temp	R	m8_c1_ht_ll_temp
BAV	929	M10 C1 Discharge Temp	R	m10_c1_disc_temp
EVT	930	M3 MFlow Alarm	R	m3_module_flow_alarm
EVT	931	M3 L1 Motorized Valve Alarm	R	m3_loop1_valve_alarm
EVT	932	M3 L2 Motorized Valve Alarm	R	m3_loop2_valve_alarm
BAV	933	M10 C1 Cool mode SubCool	R	m10_c1_cool_mode_subcool
EVT	934	M6 C1 Suction Pressure OOR	R	m6_c1_suction_pressure_oor
EVT	935	M3 Communications Alarm	R	m3_comm_lost
EVT	936	M3 MLockout	R	m3_manager_lockout_alm
EVT	937	M6 C2 Line Press OOR	R	m6_c2_liq_pres_oor
EVT	938	M6 C1 liquid line pressure OOR	R	m6_c1_liq_pres_oor
BAV	939	M8 C1 Discharge Pressure	R	m8_c1_disc_pres
BAV	940	M8 C1 Suction Pressure	R	m8_c1_suct_pres

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Object			Read/ Write	Reference Name
Type	ID	Name		
BAV	941	M8 C1 Cooling Liquid Line Pressure	R	m8_c1_cl_ll_pres
EVT	942	M6 C2 Liquid Line Temp OOR	R	m6_c2_liquid_line_temperature_oor
EVT	943	M6 C1 Liquid Line Temp OOR	R	m6_c1_liquid_line_temp_oor
EVT	944	M6 C2 Suction Temp OOR	R	m6_c2_suction_temperature_oor
EVT	945	M6 C1 Suction Temp OOR	R	m6_c1_suction_temperature_oor
EVT	946	M6 C2 Discharge Temp OOR	R	m6_c2_discharge_temperature_oor
EVT	947	M6 C2 Discharge Pressure OOR	R	m6_c2_discharge_pressure_oor
EVT	948	M6 C1 Discharge Pressure OOR	R	m6_c1_discharge_pressure_oor
EVT	949	M6 Phase Loss Alarm	R	m6_phase_loss_alarm
EVT	950	M6 OAT OOR	R	m6_oat_oor
EVT	951	M6 C1 Discharge Temp OOR	R	m6_c1_discharge_temperature_oor
EVT	952	M6 C1 Low Suction Temp	R	m6_c1_lo_suc_tmp
EVT	953	M6 C2 Low Suction Temp	R	m6_c2_lo_suc_tmp
EVT	954	M6 C2 Low Suction Pressure Alarm	R	m6_c2_low_suc_pres_alm
EVT	955	M6 C2 VFD General Alarm	R	m6_c2_vfd_gen_alarm
EVT	956	M6 C1 VFD General Alarm	R	m6_c1_vfd_gen_alarm
BAV	957	M11 C1 Fan Output	R	m11_c1_fan_out
EVT	958	M6 C1 VFD STO Alarm	R	m6_c1_vfd_sto_alarm
EVT	959	M6 C1 High Pressure Alarm	R	m6_c1_hi_disc_pres_alm
EVT	960	M6 C2 High Pressure Alarm	R	m6_c2_hi_disc_pres_alm
EVT	961	M6 C1 Low Suction Pressure Alarm	R	m6_c1_low_suc_pres_alm
EVT	962	M6 C1 High Discharge Temp	R	m6_c1_hi_disc_temp_alm
EVT	963	M6 C2 High Discharge Temp	R	m6_c2_hi_disc_temp_alm
EVT	964	M6 C2 NO-Run Alarm	R	m6_c2_no_run
EVT	965	M6 C1 NO-Run Alarm	R	m6_c1_no_run
EVT	966	M6 C2 EEV Comm Loss Alarm	R	m6_c2_eev_comm_loss_alarm
EVT	967	M6 C1 EEV Comm Loss Alarm	R	m6_c1_eev_comm_loss_alarm
BAV	968	M11 C1 Air Coil Line Temp	R	m11_c1_acl_temp
BAV	969	M12 C1 Cooling Liquid Line Pressure	R	m12_c1_cl_ll_pres
BAV	970	M11 C1 Cooling Liquid Line Temp	R	m11_c1_cl_ll_temp
BAV	971	M12 C1 Discharge Pressure	R	m12_c1_disc_pres
BAV	972	M11 Calc C1 Suction Superheat	R	m11_c1_suc_superheat

Object			Read/ Write	Reference Name
Type	ID	Name		
BAV	973	M12 C1 Suction Temp	R	m12_c1_suct_temp
BAV	974	M12 C1 Discharge Temp	R	m12_c1_disc_temp
BAV	975	M8 Calc C1 Suction Superheat	R	m8_c1_suc_superheat
BAV	976	M12 C1 Cool Mode SubCool	R	m12_c1_cool_mode_subcool
BAV	977	M9 C1 Fan Output	R	m9_c1_fan_out
BAV	978	M11 C1 Cooling Liquid Line Pressure	R	m11_c1_cl_ll_pres
BAV	979	M9 C1 Cool Mode SubCool	R	m9_c1_cool_mode_subcool
BAV	980	M9 C1 Discharge Temp	R	m9_c1_disc_temp
BAV	981	M9 C1 Suction Temp	R	m9_c1_suct_temp
BAV	982	M11 C1 Suction Press	R	m11_c1_suct_pres
BAV	983	M9 C1 Heating Liquid Line Temp	R	m9_c1_ht_ll_temp
BAV	984	M11 C1 Discharge Pressure	R	m11_c1_disc_pres
EVT	985	M5 Manager Lockout	R	m5_manager_lockout_alm
EVT	986	M5 Comm Alarm	R	m5_comm_lost
BAV	987	M9 C1 Air Coil Line Temp	R	m9_c1_acl_temp
EVT	988	M5 L2 Motorized Valve Alarm	R	m5_loop2_valve_alarm
EVT	989	M5 L1 Motorized Valve Alarm	R	m5_loop1_valve_alarm
EVT	990	M5 MFlow Alarm	R	m5_module_flow_alarm
BAV	991	M11 C1 Heating Liquid Line Temp	R	m11_c1_ht_ll_temp
BAV	992	M11 C1 Suction Temp	R	m11_c1_suct_temp
BAV	993	M11 C1 Discharge Temp	R	m11_c1_disc_temp
BAV	994	M9 C1 Discharge Pressure	R	m9_c1_disc_pres
BAV	995	M9 C1 Suction Pressure	R	m9_c1_suct_pres
BAV	996	M9 C1 Cooling Liquid Line Pressure	R	m9_c1_cl_ll_pres
BAV	997	M11 C1 Cool mode SubCool	R	m11_c1_cool_mode_subcool
BAV	998	F_VAL	R/W	f_val
BAV	999	F_OUT	R	f_out
EVT	1000	M5 C1 NO-Run Alarm	R	m5_c1_no_run
BAV	1001	F_CMD	R/W	f_cmd
EVT	1002	M5 C2 High Discharge Temp	R	m5_c2_hi_disc_temp_alm
EVT	1003	M5 C1 High Discharge Temp	R	m5_c1_hi_disc_temp_alm
EVT	1004	M5 C1 Low Suction Pressure Alarm	R	m5_c1_low_suc_pres_alm
EVT	1005	M5 C2 High Pressure Alarm	R	m5_c2_hi_disc_pres_alm

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Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	1006	M5 C1 High Pressure Alarm	R	m5_c1_hi_disc_pres_alm
EVT	1007	M5 C1 Suction Pressure OOR	R	m5_c1_suction_pressure_oor
EVT	1008	M5 C2 Line Press OOR	R	m5_c2_liq_pres_oor
EVT	1009	M5 C1 VFD STO Alarm	R	m5_c1_vfd_sto_alarm
EVT	1010	M5 C2 VFD STO Alarm	R	m5_c2_vfd_sto_alarm
EVT	1011	M5 C1 VFD General Alarm	R	m5_c1_vfd_gen_alarm
EVT	1012	M5 C2 VFD General Alarm	R	m5_c2_vfd_gen_alarm
EVT	1013	M5 C2 Low Suction Pressure Alarm	R	m5_c2_low_suc_pres_alm
EVT	1014	M5 C2 Low Suction Temp	R	m5_c2_lo_suc_tmp
EVT	1015	M5 C1 Low Suction Temp	R	m5_c1_lo_suc_tmp
EVT	1016	M5 C1 Liquid Line Pressure OOR	R	m5_c1_liq_pres_oor
EVT	1017	M5 C2 Liquid Line Temp OOR	R	m5_c2_liquid_line_temperature_oor
EVT	1018	M5 C1 Liquid Line Temp OOR	R	m5_c1_liquid_line_temp_oor
EVT	1019	M5 C1 Discharge Temp OOR	R	m5_c1_discharge_temperature_oor
EVT	1020	M5 OAT OOR	R	m5_oat_oor
EVT	1021	M5 Phase Loss Alarm	R	m5_phase_loss_alarm
EVT	1022	M5 C1 Discharge Pressure OOR	R	m5_c1_discharge_pressure_oor
EVT	1023	M5 C2 Discharge Pressure OOR	R	m5_c2_discharge_pressure_oor
EVT	1024	M5 C2 Discharge Temp OOR	R	m5_c2_discharge_temperature_oor
EVT	1025	M5 C1 Suction Temp OOR	R	m5_c1_suction_temperature_oor
EVT	1026	M5 C2 Suction Temp OOR	R	m5_c2_suction_temperature_oor
EVT	1027	M9 C2 NO-Run Alarm	R	m9_c2_no_run
BAV	1028	M5 C1 Fan Output	R	m5_c1_fan_out
EVT	1029	M9 C2 EEV Comm Loss Alarm	R	m9_c2_eev_comm_loss_alarm
BBV	1030	M1 C1 Disable	R/W	m1_c1_disable
BBV	1031	M1 C2 Disable	R/W	m1_c2_disable
BBV	1032	M2 C1 Disable	R/W	m2_c1_disable
BBV	1033	M2 C2 Disable	R/W	m2_c2_disable
BBV	1034	M3 C1 Disable	R/W	m3_c1_disable

Object			Read/ Write	Reference Name
Type	ID	Name		
BBV	1035	M3 C2 Disable	R/W	m3_c2_disable
BBV	1036	M4 C1 Disable	R/W	m4_c1_disable
BBV	1037	M4 C2 Disable	R/W	m4_c2_disable
BBV	1038	M5 C1 Disable	R/W	m5_c1_disable
BBV	1039	M5 C2 Disable	R/W	m5_c2_disable
BBV	1040	M6 C1 Disable	R/W	m6_c1_disable
BBV	1041	M6 C2 Disable	R/W	m6_c2_disable
BBV	1042	M7 C1 Disable	R/W	m7_c1_disable
BBV	1043	M7 C2 Disable	R/W	m7_c2_disable
BBV	1044	M8 C1 Disable	R/W	m8_c1_disable
BBV	1045	M8 C2 Disable	R/W	m8_c2_disable
BBV	1046	M9 C1 Disable	R/W	m9_c1_disable
BBV	1047	M9 C2 Disable	R/W	m9_c2_disable
BBV	1048	M10 C1 Disable	R/W	m10_c1_disable
BBV	1049	M10 C2 Disable	R/W	m10_c2_disable
BBV	1050	M11 C1 Disable	R/W	m11_c1_disable
BBV	1051	M11 C2 Disable	R/W	m11_c2_disable
BBV	1052	M12 C1 Disable	R/W	m12_c1_disable
BBV	1053	M12 C2 Disable	R/W	m12_c2_disable
EVT	1054	M1 Local Flow 2 Alarm	R	m1_module_flow2_alarm
EVT	1055	M2 Local Flow 2 Alarm	R	m2_module_flow2_alarm
EVT	1056	M3 Local Flow 2 Alarm	R	m3_module_flow2_alarm
EVT	1057	M4 Local Flow 2 Alarm	R	m4_module_flow2_alarm
EVT	1058	M5 Local Flow 2 Alarm	R	m5_module_flow2_alarm
EVT	1059	M6 Local Flow 2 Alarm	R	m6_module_flow2_alarm
EVT	1060	M7 Local Flow 2 Alarm	R	m7_module_flow2_alarm
EVT	1061	M8 Local Flow 2 Alarm	R	m8_module_flow2_alarm
EVT	1062	M9 Local Flow 2 Alarm	R	m9_module_flow2_alarm
EVT	1063	M10 Local Flow 2 Alarm	R	m10_module_flow2_alarm
EVT	1064	M11 Local Flow 2 Alarm	R	m11_module_flow2_alarm
EVT	1065	M12 Local Flow 2 Alarm	R	m12_module_flow2_alarm
BBV	1066	Enable Pump Control	R/W	enable_pump_control

Appendix B: Module BAS Points List

Table 2: Module Physical Inputs and Outputs

Object			Read/ Write	Reference Name	Object			Read/ Write	Reference Name
Type	ID	Name			Type	ID	Name		
BBV	2000	EEV C1 Manual EN	R/W	bbvp_eev_c1_man_en	BAV	2035	Calc C1 Suction Superheat	R	c1_suc_superheat
BBV	2001	EEV C2 Manual EN	R/W	bbvp_eev_c2_man_en	BAV	2036	Calc C2 Suction Superheat	R	c2_suc_superheat
BBV	2002	Manual C1 Hot Gas Solenoid	R/W	c1_man_li	BAV	2037	C1 Runtime	R	c1_runtime
BBV	2003	Manual C1 Liquid Injection	R/W	c2_man_li	BAV	2039	C2 Runtime	R	c2_runtime
BAV	2004	EEV1 Manual %	R/W	exv1_man_percent	BBV	2040	C2 Fail	R	comp2_fail
BBV	2005	EEV1 Manual Control	R/W	exv1_manual	BBV	2041	C2 Runtime Reset	R/W	reset_c2_runtime
BAV	2006	EEV2 Manual %	R/W	exv2_man_percent	EVT	2042	C1 NO-Run Alarm	R	c1_no_run
BBV	2007	EEV2 Manual Control	R/W	exv2_manual	EVT	2043	C2 NO-Run Alarm	R	c2_no_run
BAV	2008	F_VAL	R/W	f_val	EVT	2044	C2 High Discharge Temp	R	c2_hi_disch_tmp
BAV	2009	F_OUT	R	f_out	EVT	2045	C1 High Discharge Temp	R	c1_hi_disch_tmp
BAV	2010	F_CMD	R/W	f_cmd	EVT	2046	C1 Low Suction Pressure Alarm	R	c1_low_suc_pres_alm
BBO	2011	C1 Liquid Injection Valve	R	c1_liq_inj_vlv	EVT	2047	C2 High Pressure Alarm	R	c2_hi_pres_alm
BBO	2012	C2 Liquid Injection Valve	R	c2_liq_inj_vlv	EVT	2048	C1 High Pressure Alarm	R	c1_hi_pres_alm
BBO	2013	C1 Hot Gas Bypass Valve	R	c1_hot_gas_bypass_vlv	EVT	2049	C1 Discharge Pressure OOR	R	c1_discharge_pressure_oor
BBO	2014	C2 Hot Gas Bypass Valve	R	c2_hot_gas_bypass_vlv	EVT	2050	C2 Discharge Pressure OOR	R	c2_discharge_pressure_oor
BBO	2015	C1 Isolation Solenoid	R	c1_ref_iso_sol	EVT	2051	C2 Discharge Temp OOR	R	c2_discharge_temperature_oor
BBO	2016	C2 Isolation Solenoid	R	c2_ref_iso_sol	EVT	2052	C1 Suction Temp OOR	R	c1_suction_temperature_oor
BAV	2017	C1 ECM Fan Out %	R	c1_fan_out	EVT	2053	C2 Suction Temp OOR	R	c2_suction_temperature_oor
BAV	2018	C2 ECM Fan Out %	R	c2_fan_out	BBV	2054	C1 Go Command	R/W	comp_1_go
BBV	2019	C1 A EEV Enable Output	R	c1_exv_a_en_out	BBV	2055	C2 Go Command	R/W	comp_2_go
BAV	2020	L1 Motorized Water Valve Output	R	loop1_mwv_out	BBV	2056	C1 Status	R	c1_stat
BAV	2021	L2 Motorized Water Valve Output	R	loop2_mwv_out	BBV	2057	C2 Status	R	c2_stat
BBV	2022	C1 Enable Output	R	c1_en_out	EVT	2058	C1 Air Coil Line Temp OOR	R	c1_air_coil_line_temp_oor
BBV	2023	C2 Enable Output	R	c2_en_out	EVT	2059	C2 Air Coil Line Temp OOR	R	c2_air_coil_line_temp_oor
BBV	2024	Alarm_Output	R	alarm_out	EVT	2060	C1 Liquid Line Temp OOR	R	c1_liquid_line_temp_oor
BBV	2025	C1 Hot Gas Bypass Valve	R	c1_hgs_out	EVT	2061	C2 Liquid Line Temp OOR	R	c2_liquid_line_temperature_oor
BBV	2026	C2 Hot Gas Bypass Valve	R	c2_hgs_out	EVT	2062	C1 liquid line pressure OOR	R	c1_liquid_pressure_oor
BBV	2027	C1 Liquid Injection Valve Enable	R	c1_lis_out	EVT	2063	C2 Line Press OOR	R	c2lp_oor
BBV	2028	C2 Liquid Injection Valve Enable	R	c2_lis_out	BAV	2064	Loop 1 EWT	R	loop1_entering_temp
BBV	2029	C2 Heat EEV	R	c2_exv_b_en_out	EVT	2065	OAT OOR	R	oat_oor
BBV	2030	C1 Heat EEV	R	c1_exv_b_en_out	BAV	2066	Outdoor Air Temp Status	R	oat
BBV	2031	C1 Ref Isolation Solenoid Stat	R	c1_ref_iso_solenoid	BBV	2067	C1 Retry	R	c1_unload
BBV	2032	C2 Ref Isolation Solenoid Stat	R	c2_ref_iso_solenoid	EVT	2068	Communications Alarm	R	comm_lost
BAV	2033	C1 Speed Output	R	c1_speed_out					
BAV	2034	C2 Speed Output	R	c2_speed_out					

All Points are Network Visible.

All Points are Network Visible.

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Appendix B: Module BAS Points List

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Object			Read/ Write	Reference Name
Type	ID	Name		
BBV	2069	Reset All Module Alarms	R/W	reset_alarms
BAV	2070	Module Active Retries	R	mod_unload_stat
BBV	2071	C1 Manual	R/W	c1_manual
BBV	2072	C2 Manual	R/W	c2_manual
BBV	2073	Module Run	R	module_run
BBV	2074	Module Ok	R	module_ok
EVT	2075	Module Lockout	R	manager_lockout_alm
BBV	2076	Chiller Run	R/W	chiller_run
BAV	2077	Chiller Module Type	R/W	chiller_config
BBV	2078	ECM2 Manual Control	R/W	ecm2_manual
BAV	2079	CDMV Scaled PID OUT	R	ecm1_scaled_pidout
BAV	2080	ECM 2 Scaled PID OUT	R	ecm2_scaled_pidout
BAV	2081	ECM1 Manual %	R/W	ecm1_man_percent
BAV	2082	Local ECM2 Manual %	R/W	local_ecm2_man_percent
BBV	2083	ECM1 Manual Control	R/W	ecm1_manual
BAV	2084	L1 MWV Status	R	loop1_mwv1_stat
BAV	2085	L2 MWV 2 Status	R	loop2_mwv1_stat
BAV	2086	C2 Cool Mode SubCool	R	c2_cool_mode_subcool
BAV	2087	C1 Cool Mode SubCool	R	c1_cool_mode_subcool
BAV	2088	C1 Heat Mode SubCool	R	c1_heat_mode_subcool
BAV	2089	C2 Heat Mode SubCool	R	c2_heat_mode_subcool
BBV	2090	Mod Flow Status 1	R	modflow1
BAV	2091	Loop 1 Flow Status	R	flow1_stat
BBV	2092	Valve Status Ok	R	valve_status_ok
BAV	2093	Loop 2 Flow Status	R	flow2_stat
EVT	2094	Mod Flow 1 Alarm	R	module_flow1_alarm
BBV	2095	Start C1 Defrost	R/W	start_c1_defrost
BBV	2096	Start C2 Defrost	R/W	start_c2_defrost
BBV	2097	C1 Defrost Mode Requested	R	defrost_c1
BBV	2098	C2 Defrost Mode Requested	R	defrost_c2
BBV	2099	C1 Defrost Requested	R	c1_def_req
BBV	2100	C2 Defrost Requested	R	c2_def_req
BBV	2101	C2 In Defrost Mode	R	c2_in_defrost
BAV	2102	C2 Freezing Time	R	c2_frz_time
BAV	2103	C1 Freezing Time	R	c1_frz_time

All Points are Network Visible.

Object			Read/ Write	Reference Name
Type	ID	Name		
BBV	2104	C1 Demand Defrost	R/W	c1_demand_defrost
BBV	2105	C2 Demand Defrost	R/W	c2_demand_defrost
EVT	2106	L1 Motorized Valve Alarm	R	loop1_valve_alarm
EVT	2107	L2 Motorized Valve Alarm	R	loop2_valve_alarm
BBV	2108	L1 Valve Status	R	loop1_valve_status
BBV	2109	L2 Valve Status	R	loop2_valve_status
BBV	2110	Module Failure Motorized Valve	R	mot_wtr_vlv_fail
BBV	2111	L1 Valve Bypass Module	R/W	loop1_bypass_mod
BAV	2112	L1 Manual %	R/W	loop1_man_percentage
BBV	2113	L1 Manual Control	R/W	loop1_manual
BAV	2114	Local L2 Manual %	R/W	loop2_man_percentage
BBV	2115	L2 Manual Valve Control	R/W	loop2_manual
BAV	2116	C1 Liquid Line Pressure Heat Stat	R	c1_ll_press_heat
BAV	2117	C2 Liquid Line Pressure Heat Stat	R	c2_ll_press_heat
EVT	2118	C2 Low Suction Pressure Alarm	R	c2_low_suc_pres_alm
BBV	2119	C1 In Defrost Mode	R	c1_in_defrost
EVT	2120	Phase Loss Alarm	R	phase_loss_alarm
BBV	2121	Ignore Defrost Min On Time	R/W	ignore_defrost_min_on_time
BBV	2122	Disable Comp While Waiting for Defrost	R/W	comp_dis_def_wait
BBV	2123	C1 Fail	R	comp1_fail
BAV	2124	Fan Initial Speed %	R/W	fan_initial_speed
BAV	2125	Fan Delay	R/W	fan_delay
BAV	2126	L2 LWT	R	loop2_leaving_temp
BAV	2127	C1 Air Coil Line Temp	R	c1_acl_temp
BAV	2128	C2 Air Coil Line Temp	R	c2_acl_temp
BAV	2129	Low Suction Superheat Setpoint	R/W	av_lo_suc_superheat_setpt
EVT	2130	C1_P2 Suction Pressure OOR	R	c1p2_oor
EVT	2131	C2_P2 Suction Pressure OOR	R	c2p2_oor
EVT	2132	C1 EEV Comm Loss Alarm	R	c1_eev_comm_loss_alarm
EVT	2133	C2 EEV Comm Loss Alarm	R	c2_eev_comm_loss_alarm
BBV	2134	Phase OK Status	R	phase_stat
BAV	2135	C1 Discharge Press	R	c1_disc_pres
BAV	2136	C2 Discharge Press	R	c2_disc_pres
BAV	2137	C1 Suction Pressure	R	c1_suct_pres
BAV	2138	C2 Suction Pressure	R	c2_suct_pres

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Object			Read/ Write	Reference Name
Type	ID	Name		
BAV	2139	C1 Discharge Temp	R	c1_disc_temp
BAV	2140	C2 Discharge Temp	R	c2_disc_temp
BAV	2141	C1 Suction Temp	R	c1_suct_temp
BAV	2142	C2 Suction Temp	R	c2_suct_temp
BAV	2143	C1 Cooling Liquid Line Temp	R	c1_cl_ll_temp
BAV	2144	C2 Cooling Liquid Line Temp	R	c2_cl_ll_temp
BAV	2145	C1 Heating Liquid Line Temp	R	c1_ht_ll_temp
BAV	2146	C2 Heating Liquid Line Temp	R	c2_ht_ll_temp
BAV	2147	Loop1 Leaving Water Temp	R	loop1_leaving_temp
BBV	2148	C2 EEV A Enable Output	R	c2_exv_a_en_out
BAV	2149	C1 VFD Speed	R/W	c1_vfd_speed
BAV	2150	C2 VFD Speed	R/W	c2_vfd_speed
BAV	2151	Module Comm Read Status	R	mod_comm_rx_stat
BBV	2152	Module Comm Transmit Status	R/W	mod_comm_tx_stat
BBV	2153	System Critical Failure	R/W	bank_crit_fault
BBV	2154	AntiFreeze	R/W	brine_used
BAV	2155	HEAT LVG TRG	R/W	heat_temp_stp
BAV	2156	COOL LVG TRG	R/W	cool_temp_stp
BAV	2157	Module Lead Lag Order	R/W	mod_lead_lag_order
BAV	2158	Module Mode	R/W	sysmode
BAV	2159	Hot Water Design Delta	R/W	heating_design_delta
BAV	2160	Chilled Water Design Delta	R/W	chilled_design_delta
BAV	2161	Cooling Type	R/W	cooling_type
BBV	2162	Enable Fixed Head Pressure Control	R/W	fixed_disc_press_en
BAV	2163	C1 Liquid Line Pressure	R	c1_ll_pressure
BAV	2164	C2 Liquid Line Pressure	R	c2_ll_pressure
BAV	2165	Module Active OOR Alarms	R	mod_act_oor_alarms
BAV	2166	Module Active Comp Alarms	R	mod_act_comp_alarms
BAV	2167	Module Active Alarms	R	mod_act_mod_alarms
BBV	2168	Clear Fault History	R/W	clear_fault_history
BBV	2169	C1 RV Out	R	c1_rv_out
BBV	2170	C2 RV Out	R	c2_rv_out
BBV	2171	C1 Min Run Time	R	c1_min_runtime
BBV	2172	C2 Min Run Time	R	c2_min_runtime

All Points are Network Visible.

Object			Read/ Write	Reference Name
Type	ID	Name		
BBV	2173	C1 Comp-Off Delay	R	c1_minimum_off
BBV	2174	C2 Comp-Off Delay	R	c2_minimum_off
BAV	2175	Manual Mode Remaining Time	R	man_mode_remain_time
BBV	2176	Use Adaptive Head Pressure	R/W	use_adaptive_hp_cfg
BBV	2177	Fail to Run Enable	R/W	enable_ftr
BBV	2178	RDS Alarm	R	rds_alarm
EVT	2179	RDS Shutdown Alarm	R	rds_shutdown_alarm
BBV	2180	Manual C1 Hot Gas Solenoid	R/W	c1_man_hgs
BBV	2181	Manual C2 Hot Gas Solenoid	R/W	c2_man_hgs
BBV	2182	Manual C1 Reversing Valve	R/W	c1_man_rev_valve
BBV	2183	Manual C2 Reversing Valve	R/W	c2_man_rev_valve
BBV	2184	Manual C1 Refrigeration Isolation Solenoid	R/W	c1_man_ref_iso
BBV	2185	Manual C2 Refrigeration Isolation Solenoid	R/W	c2_man_ref_iso
EVT	2186	VFD 1 General Alarm	R	vfd1_genfault_alm
EVT	2187	VFD 2 General Alarm	R	vfd2_genfault_alm
EVT	2188	VFD 1 STO Alarm	R	vfd1_sto_alm
EVT	2189	VFD 2 STO Alarm	R	vfd2_sto_alm
BBV	2190	C1 Shutdown Status	R	c1_shutdown
BBV	2191	C2 Shutdown Status	R	c2_shutdown
BAV	2192	L3 LWT Output	R	loop3_leaving_temp
BAV	2193	L3 MWV Output	R	loop3_mwv_out
BAV	2194	L1 MWV 2 Status	R	loop1_mwv2_stat
BAV	2195	L3 MWV 1 Status	R	loop3_mwv1_stat
BAV	2196	L3 MWV 2 Status	R	loop3_mwv2_stat
BAV	2197	L2 Cond MWV 1 Status	R	loop2_cond_mwv1_stat
BBV	2198	C1 Status	R	compl_stat
BBV	2199	C2 Status	R	comp2_stat
BAV	2200	VFD Output	R/W	vfd_out
BAV	2201	Local CDMV Manual Voltage	R/W	loop3_man_percentage
BAV	2202	L2 Evap MWV Output	R	loop2_evap_mwv_out
BAV	2203	L2 Cond MWV Output	R	loop2_cond_mwv_out
BAV	2204	L2 Cond MWV 2 Status	R	loop2_cond_mwv2_stat
BAV	2205	L2 Evap MWV 1 Status	R	loop2_evap_mwv1_stat

All Points are Network Visible.

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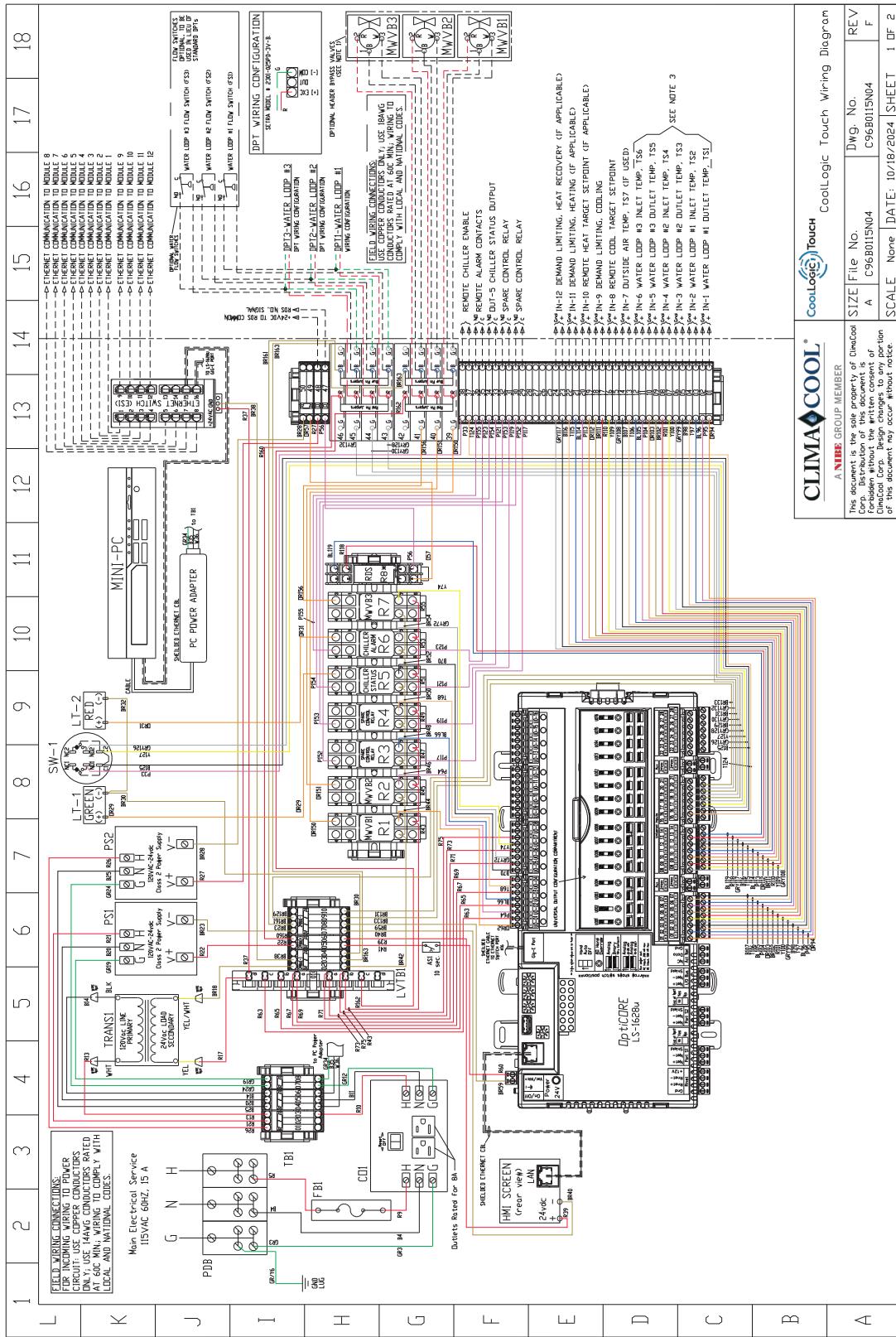
Object			Read/ Write	Reference Name
Type	ID	Name		
BAV	2206	L2 Evap MWV 2 Status	R	loop2_evap_mwv2_stat
BAV	2207	Cool Module Lead Lag Order	R/W	cool_mod_lead_lag_order
BAV	2208	Heat Module Lead Lag Order	R/W	heat_mod_lead_lag_order
BBV	2209	Lock L1 Open	R/W	lock_loop1_open
BBV	2210	Manual Mode	R/W	manual_mode
BBV	2211	C1 Runtime Reset	R	reset_c1_rtim
BBV	2212	C2 Runtime Reset	R	reset_c2_rtim
EVT	2213	Freeze Protection Alarm	R	freeze_protection_alarm
BBV	2214	Lock Isolation Valve Open	R/W	lock_isolation_valve
BAV	2215	3-Way Valve PID OUT	R	mixing_valve_pid_out
BBV	2216	UAF Max PID	R	uaf_max_pid
EVT	2217	2-Way Isolation Valve 1 Alarm	R	isolation_valve1_alarm
BAV	2218	3-Way Valve Output	R	mixing_valve_output
BAV	2219	Leaving Water Temp 1	R	lvg_water_1_temp
BAV	2220	Leaving Water Temp 2	R	lvg_water_2_temp
BAV	2221	ECM1 Manual Voltage	R/W	ecm1_man_volt
BBV	2222	3-Way Valve Manual	R/W	mixing_valve_manual
BAV	2223	3-Way Manual Position	R/W	mixing_valve_man_position
BAV	2224	ECM2 Manual Voltage	R/W	ecm2_man_volt
EVT	2225	2-Way Isolation Valve 2 Alarm	R	isolation_valve2_alarm
BBV	2226	3-Way Isolation Valve 1 Status	R	mixing_valve1_status
BBV	2227	3-Way Isolation Valve 2 Status	R	mixing_valve2_status
BAV	2228	Mixing Valve 1 Status	R	mixing_valve1_input
BAV	2229	Mixing Valve 2 Status	R	mixing_valve2_input
EVT	2230	LWT Sensor 1 OOR	R	leaving_water_temp1_oor
EVT	2231	LWT Sensor 2 OOR	R	leaving_water_temp2_oor
EVT	2232	3-Way Mixing Valve 1 Alarm	R	mixing_valve1_alarm

All Points are Network Visible.

Object			Read/ Write	Reference Name
Type	ID	Name		
EVT	2233	3 Way Mixing Valve 2 Alarm	R	mixing_valve2_alarm
EVT	2234	Isolation Valve 1 OOR	R	isolation_valve1_oor
EVT	2235	Isolation Valve 2 OOR	R	isolation_valve2_oor
EVT	2236	Mixing Valve 1 OOR	R	mixing_valve1_oor
EVT	2237	Mixing Valve 2 OOR	R	mixing_valve2_oor
BAV	2238	3-Way Motorized Water Valve Output	R	loop1_3way_mwv_out
BBV	2239	C1 Disable	R/W	c1_disable
BBV	2240	C2 Disable	R/W	c2_disable
BBV	2241	RDS Alarm - Bank	R/W	rds_alarm_bank
BAV	2242	EEV A C1 Superheat	R	exva_c1_sh
BAV	2243	EEV A C2 Superheat	R	exva_c2_sh
BAV	2244	EEV B C1 Superheat	R	exvb_c1_sh
BAV	2245	EEV B C2 Superheat	R	exvb_c2_sh
BBV	2246	Mod Flow Status 2	R	modflow2
EVT	2247	Mod Flow 2 Alarm	R	module_flow2_alarm
BAV	2248	EEVA C1 Valve position	R	exv_a_c1_val_pos
BAV	2249	EEVA C2 Valve position	R	exv_a_c2_val_pos
BAV	2250	EEVB C1 Valve position	R	exv_b_c1_val_pos
BAV	2251	EEVB C2 Valve position	R	exv_b_c2_val_pos
BAV	2252	EEVA C1 Pressure	R	eav_a_c1_pressure
BAV	2253	EEVA C1 Temp	R	eav_a_c1_temp
BAV	2254	EEVA C2 Pressure	R	eav_a_c2_pressure
BAV	2255	EEVA C2 Temp	R	eav_a_c2_temp
BAV	2256	EEVB C1 Pressure	R	eav_b_c1_pressure
BAV	2257	EEVB C1 Temp	R	eav_b_c1_temp
BAV	2258	EEVB C2 Pressure	R	eav_b_c2_pressure
BAV	2259	EEVB C2 Temp	R	eav_b_c2_temp
BAV	2260	Manual Module Mode	R/W	manual_sysmode

All Points are Network Visible.

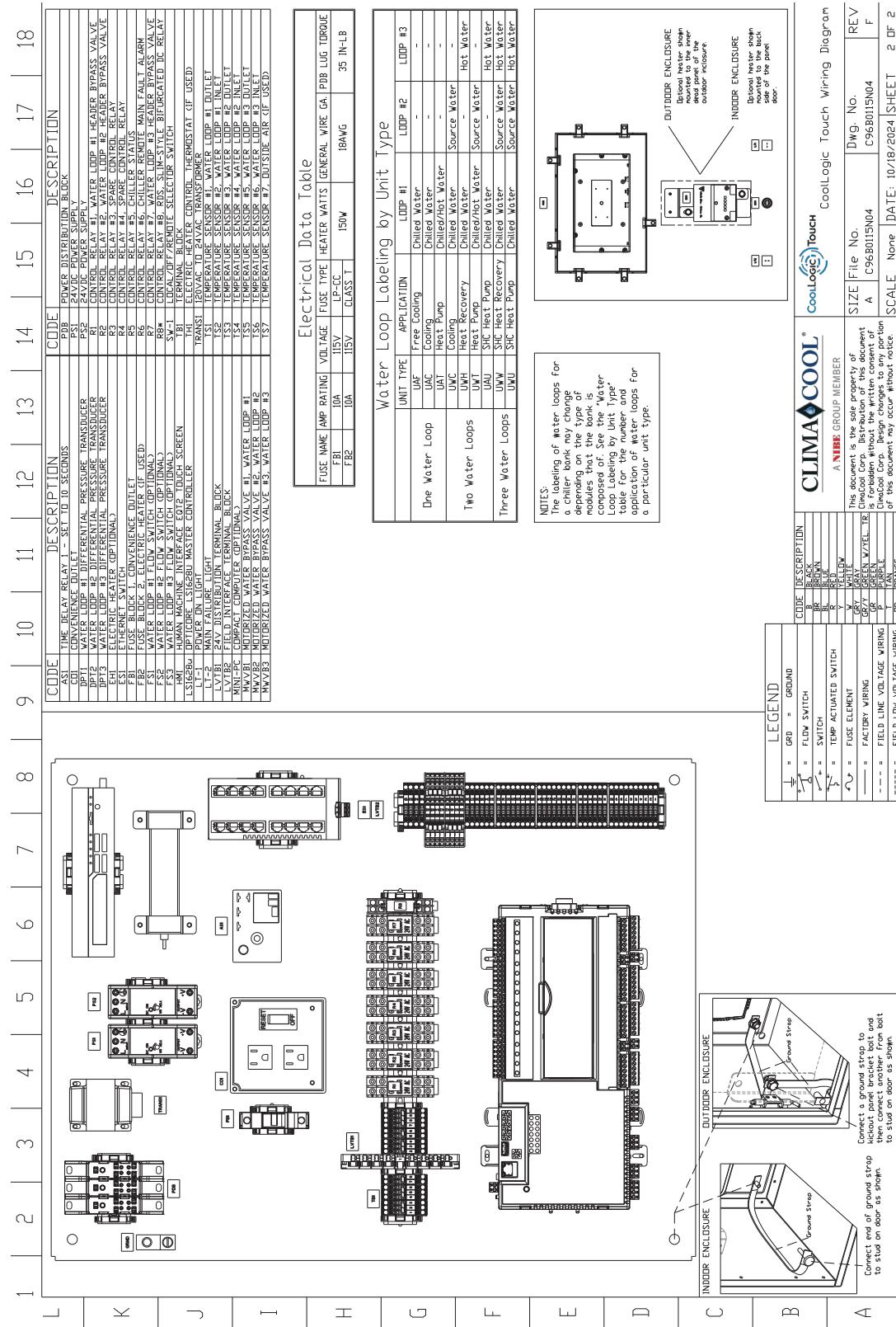
Wiring Diagram: Indoor/Outdoor Rated Panel



Wiring diagram continued on next page

Wiring Diagram: Indoor/Outdoor Rated Panel

Wiring diagram continued from previous page



Warranty



A **NIBE** GROUP MEMBER

CLIMACOOL[®] LIMITED EXPRESS WARRANTY/LIMITATION OF REMEDIES AND LIABILITY WITH EXTENDED COMPRESSOR WARRANTY

WARRANTY DISCLAIMER

It is expressly understood that unless a statement is specifically identified as a warranty, statements made by ClimaCool Corp., an Oklahoma corporation ("CC"), or its representatives, relating to CC's products, whether oral, written or contained in any quote, sales literature, catalog or any agreement, are not express warranties and do not form a part of the basis of the bargain, but are merely CC's opinion or commendation of CC's products. EXCEPT AS SPECIFICALLY SET FORTH HEREIN, THERE IS NO EXPRESS WARRANTY AS TO ANY OF CC'S PRODUCTS. CC MAKES NO WARRANTY AGAINST LATENT DEFECTS. CC MAKES NO WARRANTY OF MERCHANTABILITY OF THE GOODS OR OF THE FITNESS OF THE GOODS FOR ANY PARTICULAR PURPOSE.

GRANT OF LIMITED EXPRESS WARRANTY

CC warrants CC's products purchased and retained in the United States of America and Canada to be free from defects in material and workmanship under normal use and maintenance only as follows:

FOR MODULAR CHILLERS: (a) All modular chillers built or sold by CC for twelve (12) months from the date of unit start-up or eighteen (18) months from date of shipment (from CC's warehouse), whichever comes first; and (b) Any repair and replacement parts, which are not supplied under warranty, for ninety (90) days from date of shipment (from CC's warehouse) and (c) If such extended warranty is purchased, the compressors in all modular chillers built or sold by CC shall extend for sixty (60) months from the date of shipment (from CC's warehouse).

All parts must be returned to CC's warehouse in Oklahoma City, Oklahoma, freight prepaid, no later than sixty (60) days after the date of the failure of the part. If CC determines the part to be defective and within CC's Limited Express Warranty, CC shall, when such part has been either replaced or repaired, return such to a CC-recognized dealer, contractor or service organization, F.O.B. CC's warehouse, Oklahoma City, Oklahoma, freight prepaid. The warranty on any part repaired or replaced under warranty expires at the end of the original warranty period.

This warranty does not cover and does not apply to: (1) Fuses, refrigerant, fluids, oil; (2) Products relocated after initial installation; (3) Any portion or component of the system that is not supplied by CC, regardless of the cause of the failure of such portion or component; (4) Products on which the units identification tags or labels have been removed or defaced; (5) Products on which payment to CC is or has been in default; (6) Products which have defects or damage which result from improper installation, wiring, electrical imbalance characteristics or maintenance (including, without limitation, defects or damages caused by voltage surges, inadequate voltage conditions, phase imbalance, any form of electrical disturbances, inadequate or improper electrical circuit, insulation or protection, failure to perform common maintenance, etc.); or are caused by accident, misuse or abuse, fire, flood, alteration or misapplication of the product; (7) Products which have defects or damage which result from a contaminated or corrosive air or liquid supply, operation at abnormal temperatures, or unauthorized opening of refrigerant circuit; (8) Products subjected to corrosion or abrasion or chemicals; (9) Mold, fungus or bacteria damage; (10) Products manufactured or supplied by others; (11) Products which have been subjected to misuse, negligence or accidents; (12) Products which have been operated in a manner contrary to CC's printed instructions; (13) Products which have defects, damage or insufficient performance as a result of insufficient or incorrect system design or the improper application of CC's products; (14) Products which have defects or damages due to freezing of the water supply, an inadequate or interrupted water supply, corrosives or abrasives in the water supply, or improper or inadequate filtration or treatment of the water or air supply; (15) Products which are defects caused by overfilling, use of incorrect fuel, or improper burn or control adjustments; or (16) Products which have incomplete or inadequate combustion.

CC is not responsible for: (1) The costs of any fluids, refrigerant, materials or service incurred in removal of the defective part, or in obtaining and replacing the new or repaired part; or, (3) Transportation costs of the defective part from the installation site to CC or the return of any part not covered by CC's Limited Express Warranty.

LIMITATION: This Limited Express Warranty is given in lieu of all other warranties. If, notwithstanding the disclaimers contained herein, it is determined that other warranties exist, any such warranty, including without limitation, any express warranties or any implied warranties of fitness for any particular purpose and merchantability, shall be limited to the duration of the Limited Express Warranty.

LIMITATION OF REMEDIES

In the event of a breach of this Limited Express Warranty, CC will only be obligated at CC's option to repair the failed part or module or to furnish a new or rebuilt part or module in exchange for the part or module which has failed. If, after written notice to CC's Head Office in Oklahoma City, Oklahoma, of each defect, malfunction or other reason, a reasonable number of attempts by CC to correct the defect, malfunction or other failure and the remedy fails of its essential purpose, CC shall refund the purchase price paid to CC in exchange for the return of the sold goods(s). Said refund shall be the maximum liability of CC. **THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY AGAINST CC FOR BREACH OF CONTRACT, FOR THE BREACH OF ANY WARRANTY OR FOR CC'S OWN NEGLIGENCE OR IN STRICT LIABILITY.**

LIMITATION OF LIABILITY

CC shall have no liability for any damages if CC's performance is delayed for any reason or is prevented to any extent by any event such as, but not limited to any, war, civil unrest, government restrictions or restraints, strikes, or work stoppages, fire, flood, accident, alluviation, shortages of transportation, fuel, material or labor, acts of God or any other reason beyond the sole control of CC. CC EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL, OR INCIDENTAL DAMAGE IN CONTRACT, FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, OR IN TORT, WHETHER FOR CC'S OWN NEGLIGENCE OR AS STRICT LIABILITY.

OBTAINING WARRANTY PERFORMANCE

Normally, the contractor or service organization who installed the products will provide warranty performance for the owner. Should the installer be unavailable, contact any CC recognized contractor or service organization. If assistance is required in obtaining warranty performance, write:

ClimaCool Corp. • 15 South Virginia Ave. • Oklahoma City, Oklahoma 73106 • (405) 815-3000 • e-mail: customersupport@climacooldcorp.com

NOTE: Some states or Canadian provinces do not allow limitations on how long an implied warranty lasts, or the limitation or exclusion of consequential or incidental damages, so the foregoing exclusion and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and from Canadian province to Canadian province.

Please refer to the CC Installation, Operation and Maintenance Manual for operating and maintenance instructions.

Notes

Notes

Notes

Revision History

Date	Section	Description
06/12/25	Standard Features	Updated RDS field-installed input options
	Appendix A	Removed object 187 updated objects 1030–1053, added objects 1054–1066
	Appendix B	Updated name to BAS Points List Updated objects 2090, 2094, 2175, 2239–2241; added objects 2242–2260
01/27/25	All	Updated Name "CLT Bank Controller" to "CLT Control System", Updated references of Modular chiller systems, UW and UA Updated screen examples and names of some screens Updated requirements for Cat 5e to Shielded, twisted pair (or STP) Cat 6
	Configuration	Updated Rotary Switch position to accommodate shielded Cat 6 selection. Added and Updated System Setup menu options and descriptions.
	Bank Standard Alarm Function	Replaced "Non-Critical Alarms" and accompanying content with "Loop Definitions" and accompanying content. Updated term "unload" to "fault"
	Standard Features	Updated information for Refrigerant Detection feature
	Appendices	Combined references from Table 1 and Table 3 into Table 1. Replaced Table 2 with Module Physical Inputs and Outputs table, Removed Table 3
08/20/24	All	First published



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