Object Naming Conventions

The communicated points for the Symbio™ controllers are generally named according to their function. While many of the points are read-only, others include both read and write capability. The established naming convention helps to identify the capabilities of each point. For most points, the suffix identifies the capability according to the following definition. While there are some exceptions, the majority of the points have been defined according to these guidelines.

Suffix	Description
Status	Points with the Status suffix are defined as read-only. The status point reports the value being used by the controller.
Local	Points with the Local suffix are defined as read-only. The local point reports values associated with controller sensors, both wired and wireless. The local value may or may not be actively used by the controller, depending on the presence or absence of a communicated value (BAS). When both a local and communicated value exist, the communicated value is used.
Active	Points with the Active suffix are defined as read-only. Points designated as active are normally the result of the arbitration between a communicated value (BAS) and at least one value local to the equipment, such as a sensor or default setpoint. The active point reports the value being input to the controller.
Setpoint	Points with the Setpoint suffix are defined as either read-only or read/write. For BACnet®, the binary input, analog input and multi-state input points are all read-only. These setpoints report the value currently in use by the controller. The analog value, binary value and multi-state value points are all read/write. These points are provided for use by the building automation system (BAS). When used, these points are written internally to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquish default value/state. Refer to the Appendix for additional information.
Input	Points with the Input suffix are defined as read-only. These points normally reflect the status of a sensor input, either hardwired or communicating wirelessly (Air-Fi®). However, the input point reflects the arbitrated result of the controller sensor input and a communicated value, if present. When both a controller sensor and communicated value exist, the controller will use and report the communicated value.
Arbitrator	Points with the “Arbitrator” suffix are to be used as read-only. The arbitrator prioritizes inputs from communicating points, hardwired points and stored defaults points. The priority array of the arbitration point displays each of the values provided, including the active status, indicating which of the input sources is being used. Refer to the Appendix for additional information.
BAS	Points with the BAS suffix are defined as read/write. These points are provided for use by the building automation system (BAS). When used, these points are written to arbitration logic. This defines the interaction with hardwired points, editable software configuration points and the relinquished default value/state. Refer to the Appendix for additional information.
Command	Points with the Command suffix are defined as read/write. These points are written to change the default behavior of the controller. Once written, these point values may be persisted.
Request	Points with the Request suffix are defined as read/write. These points are written to request a change the operating behavior of the controller.

Object Data Points and Diagnostic Data Points

The following tables are sorted as follows:

- Tables are listed by input/output type and sorted by object identifier. These tables provide the user with the unit's type for each object type.
- Tables are sorted by object identifier and provide a complete list of object names, types, and descriptions.

Note: Not all points are available to the user. The available data points are defined during self-configuration and are dependent on the type of equipment.

Register Type	Register Value	Byte Order	Invalid Values
Analog	Float, 32-bit	High Word/High Byte First	NaN
Binary	Int, 16-bit, unsigned	High Byte First	0xFFFF
Multi-state	Int, 16-bit, unsigned	High Byte First	0xFFFF

BACnet Object Identifier	Modbus Register	Object Name	Description	Units	Configuration Dependency
AI- 10100	30011	Active Cool/Heat Setpoint Temperature	Indicates the value of the active Cool/Heat Setpoint actively being used by the chiller.	Temperature	Standard
AI- 10101	30013	External Chilled Water Setpoint	Indicates the External Chilled Water Setpoint value actively being used by the chiller.	Temperature	External Setpoint
AI- 10102	30015	Front Panel Chilled Water Setpoint	Indicates the value of Front Panel Chilled Water setpoint. Depending on the setpoint Source setting and BAS communication status, it may be used to define the currently active setpoint.	Temperature	Standard
AI- 10103	30017	Active Demand Limit Setpoint	Indicates the demand limit setpoint value actively being used by the chiller.	Percentage	Standard
AI- 10104	30019	External Demand Limit Setpoint	Indicates the Status of the External Demand Limit Setpoint.	Percentage	External Setpoint
AI- 10105	30021	Front Panel Demand Limit Setpoint	Indicates the Local setting for the Unit's Demand Limit setpoint in % of rated current.	Percentage	Standard
AI- 10106	30023	Evaporator Entering Water Temperature	Indicates the current temperature of the water entering the evaporator.	Temperature	Standard
AI- 10107	30025	Evaporator Leaving Water Temperature	Indicates the current temperature of the water leaving the evaporator.	Temperature	Standard
AI- 10108	30027	Outdoor Air Temperature	Indicates the current temperature of the outdoor air.	Temperature	Standard
AI- 10109	30029	Number of Circuits	Indicates the number of refrigeration circuits in the chiller.	None	Standard
AI- 10110	30031	Unit Source ID	Indicates the last diagnostic of the chiller Separately, individual diagnostics are reported with dedicated points, variables, registers.	None	Standard
AI- 10111	30033	Number of Compressors Circuit 1	Indicates the number of compressors on circuit 1 of the chiller.	None	Standard
AI- 10112	30035	Number of Compressors Circuit 2	Indicates the number of compressors on circuit 2 of the chiller.	None	Standard
AI- 10113	30037	Actual Running Capacity	Indicates the measurement of the power being consumed by the chiller.	Percentage	Standard
AI- 10114	30039	Air Flow Percentage Circuit 1	Indicates the approximate air flow percentage of circuit 1.	Percentage	Standard
AI- 10115	30041	Evaporator Refrigerant Pressure Circuit 1	Indicates the current absolute pressure of the refrigerant in the evaporator on circuit 1.	Pressure, Fluidic	Standard
AI- 10116	30043	Condenser Refrigerant Pressure Circuit 1	Indicates the current absolute pressure of the refrigerant in the condenser on circuit 1.	Pressure, Fluidic	Standard
AI- 10117	30045	Differential Refrigerant Pressure Circuit 1	Indicates the pressure difference between the suction and discharge lines on circuit 1.	Pressure, Fluidic	Standard
AI- 10118	30047	Evaporator Saturated Refrigerant Temperature Circuit 1	Indicates the saturated refrigerant temperature of the evaporator on circuit 1.	Temperature	Standard
AI- 10119	30049	Condenser Saturated Refrigerant Temperature Circuit 1	Indicates the saturated refrigerant temperature of the condenser on circuit 1.	Temperature	Standard
AI- 10120	30051	Sub Cooled Liquid Temperature Circuit 1	Indicates the sub cooled liquid temperature on circuit 1.	Temperature	Standard
AI- 10121	30053	Refrigerant Discharge Temperature - Compressor 1A	Indicates the current temperature of the refrigerant being discharged from Compressor 1A.	Temperature	Standard
AI- 10122	30055	Oil Pressure - Compressor 1A	Indicates the oil absolute pressure on the Compressor 1A.	Pressure, Fluidic	Standard
AI- 10123	30057	Starts - Compressor 1A	Indicates the number of starts of Compressor 1A.	None	Standard
AI- 10124	30059	Run Time - Compressor 1A (in seconds)	Indicates the run time of Compressor 1A (in seconds).	None	Standard
AI- 10125	30061	Air Flow Percentage Circuit 2	Indicates the approximate air flow percentage of circuit 2.	Percentage	Standard
AI- 10126	30063	Evaporator Refrigerant Pressure Circuit 2	Indicates the current absolute pressure of the refrigerant in the evaporator on circuit 2.	Pressure, Fluidic	Standard

BACnet Object Identifier	Modbus Register	Object Name	Description	Units	Configuration Dependency
AI- 10127	30065	Condenser Refrigerant Pressure Circuit 2	Indicates the current absolute pressure of the refrigerant in the condenser on circuit 2.	Pressure, Fluidic	Standard
AI- 10128	30067	Differential Refrigerant Pressure Circuit 2	Indicates the pressure difference between the suction and discharge lines on circuit 2.	Pressure, Fluidic	Standard
AI- 10129	30069	Evaporator Saturated Refrigerant Temperature Circuit 2	Indicates the saturated refrigerant temperature of the evaporator on circuit 2.	Temperature	Standard
AI- 10130	30071	Condenser Saturated Refrigerant Temperature Circuit 2	Indicates the saturated refrigerant temperature of the condenser on circuit 2.	Temperature	Standard
AI- 10131	30073	Sub Cooled Liquid Temperature Circuit 2	Indicates the sub cooled liquid temperature on circuit 2.	Temperature	Standard
AI- 10132	30075	Refrigerant Discharge Temperature - Compressor 2A	Indicates the current temperature of the refrigerant being discharged from Compressor 2A.	Temperature	Standard
AI- 10133	30077	Oil Pressure - Compressor 2A	Indicates the oil absolute pressure on the Compressor 2A.	Pressure, Fluidic	Standard
AI- 10134	30079	Refrigerant Discharge Temperature - Compressor 1B	Indicates the current temperature of the refrigerant being discharged from Compressor 1B.	Temperature	Compressor 1B
AI- 10135	30081	Oil Pressure - Compressor 1B	Indicates the oil absolute pressure on the Compressor 1B.	Pressure, Fluidic	Compressor 1B
AI- 10136	30083	Starts - Compressor 1B	Indicates the number of starts of Compressor 1B.	None	Compressor 1B
AI- 10137	30085	Run Time - Compressor 1B (in seconds)	Indicates the run time of Compressor 1B (in seconds).	None	Compressor 1B
AI- 10138	30087	Starts - Compressor 2A	Indicates the number of starts of Compressor 2A.	None	Standard
AI- 10139	30089	Run Time - Compressor 2A (in seconds)	Indicates the run time of Compressor 2A (in seconds).	None	Standard
AI- 10140	30091	Refrigerant Discharge Temperature - Compressor 2B	Indicates the current temperature of the refrigerant being discharged from Compressor 2B.	Temperature	Compressor 2B
AI- 10141	30093	Oil Pressure - Compressor 2B	Indicates the oil absolute pressure on the Compressor 2B.	Pressure, Fluidic	Compressor 2B
AI- 10142	30095	Starts - Compressor 2B	Indicates the number of starts of Compressor 2B.	None	Compressor 2B
AI- 10143	30097	Run Time - Compressor 2B (in seconds)	Indicates the run time of Compressor 2B (in seconds).	None	Compressor 2B
AI- 10144	30099	Free Cooling Capacity Status	Indicates the % capacity of the free cooling being used.	Percentage	Free Cooling
AI- 10145	30101	Free Cooling Entering Water Temperature Active	Indicates the entering water temperature of the free cooling circuit.	Temperature	Free Cooling
AI- 10146	30103	Free Cooling Entering Glycol Temperature	Indicates the entering glycol water temperature of the free cooling circuit.	Temperature	Free Cooling, Glycol Free
AI- 10147	30105	Free Cooling Leaving Glycol Temperature	Indicates the leaving glycol water temperature of the free cooling circuit.	Temperature	Free Cooling, Glycol Free
AI- 10148	30107	Free Cooling Glycol Pressure	Indicates the glycol absolute pressure of the free cooling circuit.	Pressure, Fluidic	Free Cooling, Glycol Free
AI- 10149	30109	Drive Motor Average Current RLA Compressor 1A	Indicates the average current at AFD for Compressor 1A in terms of % RLA.	Percentage	Generic AFD
AI- 10150	30111	Drive Motor Average Current RLA Compressor 2A	Indicates the average current at AFD for Compressor 2A in terms of % RLA.	Percentage	Generic AFD
AI- 10151	30113	Heat Recovery Entering Water Temperature	Indicates the heat recovery entering water temperature.	Temperature	Heat Recovery
AI- 10152	30115	Heat Recovery Leaving Water Temperature	Indicates the heat recovery leaving water temperature.	Temperature	Heat Recovery
AI- 10153	30117	Evaporator Shell Refrigerant Pressure Circuit 1	Indicates the measurement of evaporator shell refrigerant absolute pressure in circuit 1.	Pressure, Fluidic	Evaporator Isolation Valves
AI- 10154	30119	Evaporator Shell Refrigerant Pressure Circuit 2	Indicates the measurement of evaporator shell refrigerant absolute pressure in circuit 2.	Pressure, Fluidic	Evaporator Isolation Valves
AI- 10155	30121	Phase AB Voltage - Compressor 1A	Indicates the measurement of voltage in Phase AB for Compressor 1A.	Voltage	Line Voltage Sensing
AI- 10156	30123	Phase AB Voltage - Compressor 1B	Indicates the measurement of voltage in Phase AB for Compressor 1B.	Voltage	Line Voltage Sensing

BACnet Object Identifier	Modbus Register	Object Name	Description	Units	Configuration Dependency
AI- 10157	30125	Phase AB Voltage - Compressor 2A	Indicates the measurement of voltage in Phase AB for Compressor 2A.	Voltage	Line Voltage Sensing
AI- 10158	30127	Phase AB Voltage - Compressor 2B	Indicates the measurement of voltage in Phase AB for Compressor 2B.	Voltage	Line Voltage Sensing
AI- 10159	30129	Oil Temperature - Compressor 1A	Indicates the measurement of oil temperature in Compressor 1A.	Temperature	Oil Cooler
AI- 10160	30131	Oil Temperature - Compressor 1B	Indicates the measurement of oil temperature in Compressor 1B.	Temperature	Oil Cooler
AI- 10161	30133	Oil Temperature - Compressor 2A	Indicates the measurement of oil temperature in Compressor 2A.	Temperature	Oil Cooler
AI- 10162	30135	Oil Temperature - Compressor 2B	Indicates the measurement of oil temperature in Compressor 2B.	Temperature	Oil Cooler
AI- 10163	30137	Oil Supply Temperature Circuit 1	Indicates the measurement of oil supply temperature in circuit 1.	Temperature	GP4 Compressor
AI- 10164	30139	Oil Supply Temperature Circuit 2	Indicates the measurement of oil supply temperature in circuit 2.	Temperature	GP4 Compressor
AI- 10165	30141	Unit Power Consumption	Indicates the measurement of the power being consumed by the chiller.	Power, Electrical	Energy Meter
AI- 10166	30143	Energy Consumption Lifetime	Indicates the total energy consumption of the chiller (for the lifetime of the chiller).	Power, Electrical	Energy Meter
AI- 10167	30145	Energy Consumption	Indicates the total energy consumption of the chiller (since last accumulation reset).	Power, Electrical	Energy Meter
AI- 10168	30147	Evaporator Differential Water Pressure	Indicates the differential water pressure of the evaporator.	Pressure, Fluidic	Variable Primary Flow
AI- 10169	30149	System Chilled Water Differential Water Pressure	Indicates the differential water pressure of the chilled water system.	Pressure, Fluidic	Variable Primary Flow
AI- 10170	30151	Evaporator Differential Water Pressure Setpoint Status	Indicates the status of differential water pressure setpoint of the evaporator.	Pressure, Fluidic	Variable Primary Flow
AI- 10171	30153	Line 1 Current - Compressor 1A	Indicates the measurement of Line 1 current for Compressor 1A in terms of Amps.	Current	Wye-Delta Starter
AI- 10172	30155	Line 2 Current - Compressor 1A	Indicates the measurement of Line 2 current for Compressor 1A in terms of Amps.	Current	Wye-Delta Starter
AI- 10173	30157	Line 3 Current - Compressor 1A	Indicates the measurement of Line 3 current for Compressor 1A in terms of Amps.	Current	Wye-Delta Starter
AI- 10174	30159	Line 1 Current RLA - Compressor 1A	Indicates the measurement of Line 1 current for Compressor 1A in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10175	30161	Line 2 Current RLA - Compressor 1A	Indicates the measurement of Line 2 current for Compressor 1A in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10176	30163	Line 3 Current RLA - Compressor 1A	Indicates the measurement of Line 3 current for Compressor 1A in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10177	30165	Line 1 Current - Compressor 1B	Indicates the measurement of Line 1 current for Compressor 1B in terms of Amps.	Current	Wye-Delta Starter
AI- 10178	30167	Line 2 Current - Compressor 1B	Indicates the measurement of Line 2 current for Compressor 1B in terms of Amps.	Current	Wye-Delta Starter
AI- 10179	30169	Line 3 Current - Compressor 1B	Indicates the measurement of Line 3 current for Compressor 1B in terms of Amps.	Current	Wye-Delta Starter
AI- 10180	30171	Line 1 Current RLA - Compressor 1B	Indicates the measurement of Line 1 current for Compressor 1B in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10181	30173	Line 2 Current RLA - Compressor 1B	Indicates the measurement of Line 2 current for Compressor 1B in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10182	30175	Line 3 Current RLA - Compressor 1B	Indicates the measurement of Line 3 current for Compressor 1B in terms of % RLA.	Percentage	Wye-Delta Starter

BACnet Object Identifier	Modbus Register	Object Name	Description	Units	Configuration Dependency
AI- 10183	30177	Line 1 Current - Compressor 2A	Indicates the measurement of Line 1 current for Compressor 2A in terms of Amps.	Current	Wye-Delta Starter
AI- 10184	30179	Line 2 Current - Compressor 2A	Indicates the measurement of Line 2 current for Compressor 2A in terms of Amps.	Current	Wye-Delta Starter
AI- 10185	30181	Line 3 Current - Compressor 2A	Indicates the measurement of Line 3 current for Compressor 2A in terms of Amps.	Current	Wye-Delta Starter
AI- 10186	30183	Line 1 Current RLA - Compressor 2A	Indicates the measurement of Line 1 current for Compressor 2A in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10187	30185	Line 2 Current RLA - Compressor 2A	Indicates the measurement of Line 2 current for Compressor 2A in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10188	30187	Line 3 Current RLA - Compressor 2A	Indicates the measurement of Line 3 current for Compressor 2A in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10189	30189	Line 1 Current - Compressor 2B	Indicates the measurement of Line 1 current for Compressor 2B in terms of Amps.	Current	Wye-Delta Starter
AI- 10190	30191	Line 2 Current - Compressor 2B	Indicates the measurement of Line 2 current for Compressor 2B in terms of Amps.	Current	Wye-Delta Starter
AI- 10191	30193	Line 3 Current - Compressor 2B	Indicates the measurement of Line 3 current for Compressor 2B in terms of Amps.	Current	Wye-Delta Starter
AI- 10192	30195	Line 1 Current RLA - Compressor 2B	Indicates the measurement of Line 1 current for Compressor 2B in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10193	30197	Line 2 Current RLA - Compressor 2B	Indicates the measurement of Line 2 current for Compressor 2B in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10194	30199	Line 3 Current RLA - Compressor 2B	Indicates the measurement of Line 3 current for Compressor 2B in terms of % RLA.	Percentage	Wye-Delta Starter
AI- 10195	30201	Drive Motor Current U Compressor 1A	Indicates the measurement of Line 1 current at AFD for Compressor 1A in terms of Amps.	Current	TR200 Modbus AFD
AI- 10196	30203	Drive Motor Current V Compressor 1A	Indicates the measurement of Line 2 current at AFD for Compressor 1A in terms of Amps.	Current	TR200 Modbus AFD
AI- 10197	30205	Drive Motor Current W Compressor 1A	Indicates the measurement of Line 3 current at AFD for Compressor 1A in terms of Amps.	Current	TR200 Modbus AFD
AI- 10198	30207	Drive Motor Current U RLA Compressor 1A	Indicates the measurement of Line 1 current at AFD for Compressor 1A in terms of % RLA.	Percentage	TR200 Modbus AFD
AI- 10199	30209	Drive Motor Current V RLA Compressor 1A	Indicates the measurement of Line 2 current at AFD for Compressor 1A in terms of % RLA.	Percentage	TR200 Modbus AFD
AI- 10200	30211	Drive Motor Current W RLA Compressor 1A	Indicates the measurement of Line 3 current at AFD for Compressor 1A in terms of % RLA.	Percentage	TR200 Modbus AFD
AI- 10201	30213	Drive Motor Average Voltage Compressor 1A	Indicates the average voltage line to line at AFD for Compressor 1A.	Voltage	TR200 Modbus AFD
AI- 10202	30215	Drive Motor Average Voltage Compressor 2A	Indicates the average voltage line to line at AFD for Compressor 2A.	Voltage	TR200 Modbus AFD
AI- 10203	30217	Drive Motor Current U Compressor 2A	Indicates the measurement of Line 1 current at AFD for Compressor 2A in terms of Amps.	Current	TR200 Modbus AFD
AI- 10204	30219	Drive Motor Current V Compressor 2A	Indicates the measurement of Line 2 current at AFD for Compressor 2A in terms of Amps.	Current	TR200 Modbus AFD
AI- 10205	30221	Drive Motor Current W Compressor 2A	Indicates the measurement of Line 3 current at AFD for Compressor 2A in terms of Amps.	Current	TR200 Modbus AFD
AI- 10206	30223	Drive Motor Current U RLA Compressor 2A	Indicates the measurement of Line 1 current at AFD for Compressor 2A in terms of % RLA.	Percentage	TR200 Modbus AFD

BACnet Object Identifier	Modbus Register	Object Name	Description	Units	Configuration Dependency
AI- 10207	30225	Drive Motor Current V RLA Compressor 2A	Indicates the measurement of Line 2 current at AFD for Compressor 2A in terms of % RLA.	Percentage	TR200 Modbus AFD
AI- 10208	30227	Drive Motor Current W RLA Compressor 2A	Indicates the measurement of Line 3 current at AFD for Compressor 2A in terms of % RLA.	Percentage	TR200 Modbus AFD
AI- 10209	30229	Drive Motor Average Current RLA Compressor 1B	Indicates the average voltage line to line at AFD for Compressor 1B.	Percentage	Generic AFD
AI- 10210	30231	Drive Motor Average Current RLA Compressor 2B	Indicates the average voltage line to line at AFD for Compressor 2B.	Percentage	Generic AFD
AI- 10211	30233	Demand Limit Setpoint Status	Indicates the status of demand limit setpoint value actively being used by the chiller.	Percentage	Ice Building
AI- 10212	30235	Chiller Design Capacity	Indicates the design capacity of chiller.	Power, Cooling	Standard
AI- 10213	30237	Chilled Water Setpoint Status	Indicates the status of chilled water setpoint value actively being used by the chiller.	Temperature	Standard
AI- 10214	30239	Evaporator Approach Temperature Circuit 1	Indicates the approach temperature of the evaporator of circuit 1.	Temperature	Standard
AI- 10215	30241	Evaporator Approach Temperature Circuit 2	Indicates the approach temperature of the evaporator of circuit 2.	Temperature	Standard
AI- 10216	30243	Unit Load Command	Indicates the total unit load command in percentage %.	Percentage	Standard
AI- 10217	30245	Chilled Water Pump 1 Run Hours	Indicates the run time of chilled water pump 1.	None	Single Pump
AI- 10218	30247	Chilled Water Pump 2 Run Hours	Indicates the run time of chilled water pump 2.	None	Dual Pump
AI- 10219	30249	Active Chilled Water Pump Service Interval Setpoint	Indicates the Active Chilled Water Pump Service Interval Hours.	None	Single Pump
AI- 10220	30251	Evaporator Refrigerant Gauge Pressure Circuit 1	Evaporator Refrigerant Gauge Pressure Ckt1	Pressure, Fluidic	Standard
AI- 10221	30253	Condenser Refrigerant Gauge Pressure Circuit 1	Condenser Refrigerant Gauge Pressure Ckt1	Pressure, Fluidic	Standard
AI- 10222	30255	Evaporator Refrigerant Gauge Pressure Circuit 2	Evaporator Refrigerant Gauge Pressure Ckt2	Pressure, Fluidic	Standard
AI- 10223	30257	Condenser Refrigerant Gauge Pressure Circuit 2	Condenser Refrigerant Gauge Pressure Ckt2	Pressure, Fluidic	Standard
AI- 10224	30259	Oil Gauge Pressure - Compressor 1A	Oil Gauge Pressure Cprsr1A	Pressure, Fluidic	Standard
AI- 10225	30261	Oil Gauge Pressure - Compressor 2A	Oil Gauge Pressure Cprsr2A	Pressure, Fluidic	Standard
AI- 10226	30263	Oil Gauge Pressure - Compressor 1B	Oil Gauge Pressure Cprsr1B	Pressure, Fluidic	Compressor 1B
AI- 10227	30265	Oil Gauge Pressure - Compressor 2B	Oil Gauge Pressure Cprsr2B	Pressure, Fluidic	Compressor 2B
AI- 10228	30267	Free Cooling Glycol Gauge Pressure	Free Cooling Glycol Gauge Pressure	Pressure, Fluidic	Free Cooling, Glycol Free
AI- 10229	30269	Evaporator Shell Refrigerant Gauge Pressure Circuit 1	Evaporator Shell Refrigerant Gauge Pressure Ckt1	Pressure, Fluidic	Isolation Valves
AI- 10230	30271	Evaporator Shell Refrigerant Gauge Pressure Circuit 2	Evaporator Shell Refrigerant Gauge Pressure Ckt2	Pressure, Fluidic	Isolation Valves
AI- 10231	30273	Active Heat Recovery Setpoint	Active Heat Recovery Setpoint	Temperature	Total Heat Recovery
AI- 10232	30275	Active Rapid Start Target Load Command	Active Rapid Start Target Load Command	Percentage	Standard
AI- 10233	30277	Free Cooling Valve Position Status	Free Cooling Valve Percent Open	Percentage	Free Cooling
AI- 10234	30279	Free Cooling Bypass Valve Position Status	Free Cooling Bypass Valve Percent Open	Percentage	Free Cooling
AI- 10235	30281	Free Cooling Target Offset	Free Cooling Target Offset	Temperature, Delta	Free Cooling
AI- 10236	30283	Free Cooling Pump Override Time Remaining	Free Cooling Pump Override Time Remaining	None	Free Cooling, Glycol Free

BACnet Object Identifier	Modbus Register	Object Name	Description	Units	Configuration Dependency
AV-10100	40011	Chilled Water Setpoint	The value is normally provided by the BAS to send the Chilled Water Setpoint. The value is subject to arbitration logic in the controller, in which case it may or may not be used for control purposes.	Temperature	Standard
AV-10101	40013	Demand Limit Setpoint	The value is normally provided by the BAS to send the Demand Limit Setpoint. The value is subject to arbitration logic in the controller, in which case it may or may not be used for control purposes.	Percentage	Standard
AV-10102	40015	Heat Recovery Leaving Water Temperature Setpoint BAS	The value is normally provided by the BAS to send the Heat Recovery Leaving Water Temperature Setpoint. The value is subject to arbitration logic in the controller, in which case it may or may not be used for control purposes.	Temperature	Total Heat Recovery
AV-10103	40017	Evaporator Water Pump Speed Setpoint	BAS Evaporator Water Pump Speed Setpoint	Percentage	Variable Speed Pump
AV-10104	40019	Rapid Start Target Load Command BAS	BAS Rapid Start Target Load Command	Percentage	Standard

BACnet Object Identifier	Modbus Register	Object Name	Description	Object States	Configuration Dependency
BI-10101	33011	Run Enable	Indicates that chiller is available to run or is currently running.	0 = Run Not Enabled 1 = Run Enabled	Standard
BI-10102	33012	Local Setpoint Control	Indicates the which setpoint is used for control purposes, Remote (BAS) or Local.	0 = Remote control 1 = Local control	Standard
BI-10103	33013	Limit Mode Relay Status	Indicates the status of the chiller limit relay.	0 = Off 1 = On	Standard
BI-10104	33014	Chiller Running State	Indicates whether the chiller is on (currently doing either cooling) or is considered off (not currently doing cooling).	0 = Off 1 = On	Standard
BI-10105	33015	Maximum Capacity	Indicates the status of the maximum capacity relay.	0 = Off 1 = On	Standard
BI-10106	33016	Manual Override Exists	Indicated a manual override is present.	0 = Off 1 = On	Standard
BI-10107	33017	Emergency Stop	Indicates the status of the emergency stop function of the chiller.	0 = Auto 1 = Emergency Stop-Manual Reset Required	Standard
BI-10108	33018	Evaporator Water Flow Status	Indicates the flow of water through evaporator.	0 = No Flow 1 = Flow	Standard
BI-10109	33019	Front Panel Auto Stop	Indicates the auto/stop status of the Front Panel.	0 = Stop 1 = Auto	Standard
BI-10110	33020	Diagnostic Present	Indicates whether diagnostic present.	0 = Normal 1 = In Alarm	Standard
BI-10111	33021	Diagnostic Shutdown Present	Indicates chiller is shut down due to diagnostics.	0 = Normal 1 = In Alarm	Standard
BI-10112	33022	Diagnostic: Manual Reset Required	Indicates when a diagnostic exists that requires manual reset.	0 = Normal 1 = In Alarm	Standard
BI-10113	33023	Diagnostic: Local Manual Reset Required	Indicates when a diagnostic exists that requires manual reset (local only).	0 = Normal 1 = In Alarm	Standard
BI-10114	33024	Diagnostic Present: Information	Indicates whether diagnostic present with Information Category.	0 = Normal 1 = In Alarm	Standard
BI-10115	33025	Diagnostic Present: Advisory	Indicates whether diagnostic present with Warning Category.	0 = Normal 1 = In Alarm	Standard
BI-10116	33026	Diagnostic Present: Critical	Indicates whether diagnostic present with Critical Category.	0 = Normal 1 = In Alarm	Standard
BI-10117	33027	Diagnostic Present: Service Required	Indicates whether diagnostic present with Service Required Category.	0 = Normal 1 = In Alarm	Standard
BI-10118	33028	Compressor 1A Running Status	Indicates running state of Compressor 1A.	0 = Off 1 = Running	Standard
BI-10119	33029	Compressor 1BRunning Status	Indicates running state of Compressor 1B.	0 = Off 1 = Running	Compressor 1B
BI-10120	33030	Compressor 2A Running Status	Indicates running state of Compressor 2A.	0 = Off 1 = Running	Standard
BI-10121	33031	Compressor 2B Running Status	Indicates running state of Compressor 2B.	0 = Off 1 = Running	Compressor 2B
BI-10122	33032	External Auto Stop Status	Indicates the status of the externally-wired auto/stop input.	0 = Stop 1 = Auto	Standard

BACnet Object Identifier	Modbus Register	Object Name	Description	Object States	Configuration Dependency
BI-10123	33033	Free Cooling Active	Indicated the free cooling mode is active.	0 = Normal 1 = Active	Free cooling
BI-10124	33034	Evaporator Water Pump Request	Indicates a request from the chiller to turn on the Evaporator Water Pump.	0 = Off 1 = On	Standard
BI-10125	33035	Heat Recovery Control Active Status	Indicates the active control state of Heat Recovery.	0 = Normal 1 = Active	Total Heat Recovery
BI-10126	33036	Heat Recovery Ckt1 Active Status	Indicates the active state of Heat Recovery circuit 1.	0 = Normal 1 = Active	Total Heat Recovery
BI-10127	33037	Heat Recovery Ckt2 Active Status	Indicates the active state of Heat Recovery circuit 2.	0 = Normal 1 = Active	Total Heat Recovery
BI-10128	33038	Alarm - Latching Unit	Indicates whether latching alarm is present.	0 = Normal 1 = In Alarm	Standard
BI-10129	33039	Alarm - NonLatching Unit	Indicates whether non-latching alarm is present.	0 = Normal 1 = In Alarm	Standard
BI-10130	33040	Alarm - Ckt 1	Indicates whether latching and/or non-latching alarm present on circuit 1.	0 = Normal 1 = In Alarm	Standard
BI-10131	33041	Alarm - Ckt 2	Indicates whether latching and/or non-latching alarm present on circuit 2.	0 = Normal 1 = In Alarm	Standard
BI-10132	33042	Alarm - General Latching Unit	Indicates whether latching alarm is present so that it disable the total capacity of the unit.	0 = Normal 1 = In Alarm	Standard
BI-10133	33043	Alarm - General Non Latching Unit	Indicates whether at least one non-latching alarm is present so that it disable the total capacity of the unit.	0 = Normal 1 = In Alarm	Standard
BI-10134	33044	Alarm - General Latching Ckt1	Indicates whether latching alarm is present so that it disable the total capacity of the circuit 1.	0 = Normal 1 = In Alarm	Standard
BI-10135	33045	Alarm - General Latching Ckt2	Indicates whether latching alarm is present so that it disable the total capacity of the circuit 2.	0 = Normal 1 = In Alarm	Standard
BI-10136	33046	Alarm - General Non Latching Ckt1	Indicates whether at least one non-latching alarm is present so that it disable the total capacity of the circuit 1.	0 = Normal 1 = In Alarm	Standard
BI-10137	33047	Alarm - General Non Latching Ckt2	Indicates whether at least one non-latching alarm is present so that it disable the total capacity of the circuit 2.	0 = Normal 1 = In Alarm	Standard
BI-10138	33048	Noise Reduction Request Active	Indicates whether Noise Reduction active.	0 = Off 1 = On	Standard
BI-10139	33049	Heat Recovery Water Flow Status	Indicates the flow of water through heat recovery.	0 = No 1 = Flow	Heat Recovery
BI-10140	33050	Heat Recovery Water Pump Command	Indicates the status of heat recovery pump command.	0 = Off 1 = On	Heat Recovery
BI-10141	33051	Circuit 1 Running Status	Indicates running state of circuit 1.	0 = Off 1 = Running	Standard
BI-10142	33052	Circuit 2 Running Status	Indicates running state of circuit 2.	0 = Off 1 = Running	Standard
BI-10143	33053	Emergency Stop Input Status	Indicates the status of the emergency stop function of the chiller.	0 = Inactive 1 = Active	Standard
BI-10144	33054	Evaporator Water Pump Status	Evaporator Water Pump effective run command status	0 = Off 1 = On	Standard
BI-10145	33055	Active Heat Recovery Command	Active Heat Recovery Command	0 = Off 1 = On	Total Heat Recovery

BACnet Object Identifier	Modbus Register	Object Name	Description	Object States	Configuration Dependency
BI-10146	33056	Active Rapid Start Request	Active Rapid Start Request	0 = Off 1 = On	Standard
BI-10147	33057	Fan 1 circuit 1 running state	Fan 5M40-111 running state	0 = Off 1 = On	Modbus Fans
BI-10148	33058	Fan 2 circuit 1 running state	Fan 5M40-112 running state	0 = Off 1 = On	Modbus Fans
BI-10149	33059	Fan 3 circuit 1 running state	Fan 5M40-113 running state	0 = Off 1 = On	Modbus Fans
BI-10150	33060	Fan 4 circuit 1 running state	Fan 5M40-114 running state	0 = Off 1 = On	Modbus Fans
BI-10151	33061	Fan 5 circuit 1 running state	Fan 5M40-115 running state	0 = Off 1 = On	Modbus Fans
BI-10152	33062	Fan 6 circuit 1 running state	Fan 5M40-116 running state	0 = Off 1 = On	Modbus Fans
BI-10153	33063	Fan 7 circuit 1 running state	Fan 5M40-117 running state	0 = Off 1 = On	Modbus Fans
BI-10154	33064	Fan 8 circuit 1 running state	Fan 5M40-118 running state	0 = Off 1 = On	Modbus Fans
BI-10155	33065	Fan 9 circuit 1 running state	Fan 5M40-119 running state	0 = Off 1 = On	Modbus Fans
BI-10156	33066	Fan 10 circuit 1 running state	Fan 5M40-120 running state	0 = Off 1 = On	Modbus Fans
BI-10157	33067	Fan 11 circuit 1 running state	Fan 5M40-121 running state	0 = Off 1 = On	Modbus Fans
BI-10158	33068	Fan 12 circuit 1 running state	Fan 5M40-1221 running state	0 = Off 1 = On	Modbus Fans
BI-10159	33069	Fan 13 circuit 1 running state	Fan 5M40-123 running state	0 = Off 1 = On	Modbus Fans
BI-10160	33070	Fan 14 circuit 1 running state	Fan 5M40-124 running state	0 = Off 1 = On	Modbus Fans
BI-10161	33071	Fan 15 circuit 1 running state	Fan 5M40-1251 running state	0 = Off 1 = On	Modbus Fans
BI-10162	33072	Fan 16 circuit 1 running state	Fan 5M40-126 running state	0 = Off 1 = On	Modbus Fans
BI-10163	33073	Fan 1 circuit 2 running state	Fan 5M40-211 running state	0 = Off 1 = On	Modbus Fans
BI-10164	33074	Fan 2 circuit 2 running state	Fan 5M40-212 running state	0 = Off 1 = On	Modbus Fans
BI-10165	33075	Fan 3 circuit 2 running state	Fan 5M40-213 running state	0 = Off 1 = On	Modbus Fans
BI-10166	33076	Fan 4 circuit 2 running state	Fan 5M40-214 running state	0 = Off 1 = On	Modbus Fans
BI-10167	33077	Fan 5 circuit 2 running state	Fan 5M40-215 running state	0 = Off 1 = On	Modbus Fans
BI-10168	33078	Fan 6 circuit 2 running state	Fan 5M40-216 running state	0 = Off 1 = On	Modbus Fans

BACnet Object Identifier	Modbus Register	Object Name	Description	Object States	Configuration Dependency
BI-10169	33079	Fan 7 circuit 2 running state	Fan 5M40-217 running state	0 = Off 1 = On	Modbus Fans
BI-10170	33080	Fan 8 circuit 2 running state	Fan 5M40-218 running state	0 = Off 1 = On	Modbus Fans
BI-10171	33081	Fan 9 circuit 2 running state	Fan 5M40-219 running state	0 = Off 1 = On	Modbus Fans
BI-10172	33082	Fan 10 circuit 2 running state	Fan 5M40-220 running state	0 = Off 1 = On	Modbus Fans
BI-10173	33083	Fan 11 circuit 2 running state	Fan 5M40-221 running state	0 = Off 1 = On	Modbus Fans
BI-10174	33084	Fan 12 circuit 2 running state	Fan 5M40-222 running state	0 = Off 1 = On	Modbus Fans
BI-10175	33085	Fan 13 circuit 2 running state	Fan 5M40-223 running state	0 = Off 1 = On	Modbus Fans
BI-10176	33086	Fan 14 circuit 2 running state	Fan 5M40-224 running state	0 = Off 1 = On	Modbus Fans
BI-10177	33087	Fan 15 circuit 2 running state	Fan 5M40-225 running state	0 = Off 1 = On	Modbus Fans
BI-10178	33088	Fan 16 circuit 2 running state	Fan 5M40-226 running state	0 = Off 1 = On	Modbus Fans
BI-10179	33089	Fan 1 circuit 1 fault	Fan 5M40-111 fault	0 = Off 1 = On	Modbus Fans
BI-10180	33090	Fan 2 circuit 1 fault	Fan 5M40-112 fault	0 = Off 1 = On	Modbus Fans
BI-10181	33091	Fan 3 circuit 1 fault	Fan 5M40-113 fault	0 = Off 1 = On	Modbus Fans
BI-10182	33092	Fan 4 circuit 1 fault	Fan 5M40-114 fault	0 = Off 1 = On	Modbus Fans
BI-10183	33093	Fan 5 circuit 1 fault	Fan 5M40-115 fault	0 = Off 1 = On	Modbus Fans
BI-10184	33094	Fan 6 circuit 1 fault	Fan 5M40-116 fault	0 = Off 1 = On	Modbus Fans
BI-10185	33095	Fan 7 circuit 1 fault	Fan 5M40-117 fault	0 = Off 1 = On	Modbus Fans
BI-10186	33096	Fan 8 circuit 1 fault	Fan 5M40-118 fault	0 = Off 1 = On	Modbus Fans
BI-10187	33097	Fan 9 circuit 1 fault	Fan 5M40-119 fault	0 = Off 1 = On	Modbus Fans
BI-10188	33098	Fan 10 circuit 1 fault	Fan 5M40-120 fault	0 = Off 1 = On	Modbus Fans
BI-10189	33099	Fan 11 circuit 1 fault	Fan 5M40-1211 fault	0 = Off 1 = On	Modbus Fans
BI-10190	33100	Fan 12 circuit 1 fault	Fan 5M40-122 fault	0 = Off 1 = On	Modbus Fans
BI-10191	33101	Fan 13 circuit 1 fault	Fan 5M40-123 fault	0 = Off 1 = On	Modbus Fans

BACnet Object Identifier	Modbus Register	Object Name	Description	Object States	Configuration Dependency
BI-10192	33102	Fan 14 circuit 1 fault	Fan 5M40-124 fault	0 = Off 1 = On	Modbus Fans
BI-10193	33103	Fan 15 circuit 1 fault	Fan 5M40-125 fault	0 = Off 1 = On	Modbus Fans
BI-10194	33104	Fan 16 circuit 1 fault	Fan 5M40-126 fault	0 = Off 1 = On	Modbus Fans
BI-10195	33105	Fan 1 circuit 2 fault	Fan 5M40-211 fault	0 = Off 1 = On	Modbus Fans
BI-10196	33106	Fan 2 circuit 2 fault	Fan 5M40-212 fault	0 = Off 1 = On	Modbus Fans
BI-10197	33107	Fan 3 circuit 2 fault	Fan 5M40-213 fault	0 = Off 1 = On	Modbus Fans
BI-10198	33108	Fan 4 circuit 2 fault	Fan 5M40-214 fault	0 = Off 1 = On	Modbus Fans
BI-10199	33109	Fan 5 circuit 2 fault	Fan 5M40-215 fault	0 = Off 1 = On	Modbus Fans
BI-10200	33110	Fan 6 circuit 2 fault	Fan 5M40-216 fault	0 = Off 1 = On	Modbus Fans
BI-10201	33111	Fan 7 circuit 2 fault	Fan 5M40-217 fault	0 = Off 1 = On	Modbus Fans
BI-10202	33112	Fan 8 circuit 2 fault	Fan 5M40-218 fault	0 = Off 1 = On	Modbus Fans
BI-10203	33113	Fan 9 circuit 2 fault	Fan 5M40-219 fault	0 = Off 1 = On	Modbus Fans
BI-10204	33114	Fan 10 circuit 2 fault	Fan 5M40-220 fault	0 = Off 1 = On	Modbus Fans
BI-10205	33115	Fan 11 circuit 2 fault	Fan 5M40-221 fault	0 = Off 1 = On	Modbus Fans
BI-10206	33116	Fan 12 circuit 2 fault	Fan 5M40-222 fault	0 = Off 1 = On	Modbus Fans
BI-10207	33117	Fan 13 circuit 2 fault	Fan 5M40-223 fault	0 = Off 1 = On	Modbus Fans
BI-10208	33118	Fan 14 circuit 2 fault	Fan 5M40-224 fault	0 = Off 1 = On	Modbus Fans
BI-10209	33119	Fan 15 circuit 2 fault	Fan 5M40-225 fault	0 = Off 1 = On	Modbus Fans
BI-10210	33120	Fan 16 circuit 2 fault	Fan 5M40-226 fault	0 = Off 1 = On	Modbus Fans
BI-10211	33121	Free Cooling Pump Command Status	Free Cooling Pump Command	0 = Off 1 = On	Free Cooling Glycol Free
BI-10212	33122	Free Cooling Front Panel Command Status	Front Panel Free Cooling Command	0 = Off 1 = On	Free cooling
BI-10213	33123	Free Cooling Glycol Flow Status	Free Cooling Glycol Flow Status	0 = Off 1 = On	Free Cooling Glycol Free

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11000	34001	Comm Loss: %RLA Indication Output(Vdc)	0 = Normal 1 = In Alarm
BI-11001	34002	Comm Loss: AFD Fault Input 1A	0 = Normal 1 = In Alarm
BI-11002	34003	Comm Loss: AFD Fault Input 1B	0 = Normal 1 = In Alarm
BI-11003	34004	Comm Loss: AFD Fault Input 2A	0 = Normal 1 = In Alarm
BI-11004	34005	Comm Loss: AFD Fault Input 2B	0 = Normal 1 = In Alarm
BI-11005	34006	Comm Loss: AFD Run Command - 1A	0 = Normal 1 = In Alarm
BI-11006	34007	Comm Loss: AFD Run Command - 2A	0 = Normal 1 = In Alarm
BI-11007	34008	Comm Loss: AFD Speed Command 1A	0 = Normal 1 = In Alarm
BI-11008	34009	Comm Loss: AFD Speed Command 1B	0 = Normal 1 = In Alarm
BI-11009	34010	Comm Loss: AFD Speed Command 2A	0 = Normal 1 = In Alarm
BI-11010	34011	Comm Loss: AFD Speed Command 2B	0 = Normal 1 = In Alarm
BI-11011	34012	Comm Loss: Auxiliary Setpoint Command	0 = Normal 1 = In Alarm
BI-11012	34013	Comm Loss: Chiller Bypass Valve Output	0 = Normal 1 = In Alarm
BI-11013	34014	Comm Loss: Cond Fan Enbl Shared Ckt 1&2	0 = Normal 1 = In Alarm
BI-11014	34015	Comm Loss: Cond Rfgt Tank Valve Ckt1	0 = Normal 1 = In Alarm
BI-11015	34016	Comm Loss: Cond Rfgt Tank Valve Ckt2	0 = Normal 1 = In Alarm
BI-11016	34017	Comm Loss: Condenser Fan Enable - Ckt1	0 = Normal 1 = In Alarm
BI-11017	34018	Comm Loss: Condenser Fan Enable - Ckt2	0 = Normal 1 = In Alarm
BI-11018	34019	Comm Loss: Condenser Rfgt Pressure - Ckt1	0 = Normal 1 = In Alarm
BI-11019	34020	Comm Loss: Condenser Rfgt Pressure - Ckt2	0 = Normal 1 = In Alarm
BI-11020	34021	Comm Loss: Cprsr Disch Rfgt Temp - 1A	0 = Normal 1 = In Alarm
BI-11021	34022	Comm Loss: Cprsr Disch Rfgt Temp - 1B	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11022	34023	Comm Loss: Cprsr Disch Rfgt Temp - 2A	0 = Normal 1 = In Alarm
BI-11023	34024	Comm Loss: Cprsr Disch Rfgt Temp - 2B	0 = Normal 1 = In Alarm
BI-11024	34025	Comm Loss: Economizer Disch Press - 1A	0 = Normal 1 = In Alarm
BI-11025	34026	Comm Loss: Economizer Disch Press - 1B	0 = Normal 1 = In Alarm
BI-11026	34027	Comm Loss: Economizer Disch Press - 2A	0 = Normal 1 = In Alarm
BI-11027	34028	Comm Loss: Economizer Disch Press - 2B	0 = Normal 1 = In Alarm
BI-11028	34029	Comm Loss: Economizer Disch Temp - 1A	0 = Normal 1 = In Alarm
BI-11029	34030	Comm Loss: Economizer Disch Temp - 1B	0 = Normal 1 = In Alarm
BI-11030	34031	Comm Loss: Economizer Disch Temp - 2A	0 = Normal 1 = In Alarm
BI-11031	34032	Comm Loss: Economizer Disch Temp - 2B	0 = Normal 1 = In Alarm
BI-11032	34033	Comm Loss: Economizer Valve - 1A	0 = Normal 1 = In Alarm
BI-11033	34034	Comm Loss: Economizer Valve - 1B	0 = Normal 1 = In Alarm
BI-11034	34035	Comm Loss: Economizer Valve - 2A	0 = Normal 1 = In Alarm
BI-11035	34036	Comm Loss: Economizer Valve - 2B	0 = Normal 1 = In Alarm
BI-11036	34037	Comm Loss: Electronic Expansion Valve - Ckt1	0 = Normal 1 = In Alarm
BI-11037	34038	Comm Loss: Electronic Expansion Valve - Ckt2	0 = Normal 1 = In Alarm
BI-11038	34039	Comm Loss: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
BI-11039	34040	Comm Loss: Energy Meter	0 = Normal 1 = In Alarm
BI-11040	34041	Comm Loss: Energy Meter Pulse Input	0 = Normal 1 = In Alarm
BI-11041	34042	Comm Loss: Evap Entering Water Pressure	0 = Normal 1 = In Alarm
BI-11042	34043	Comm Loss: Evap Entering Water Temp	0 = Normal 1 = In Alarm
BI-11043	34044	Comm Loss: Evap Iso Valve Close Switch - Ckt1	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11044	34045	Comm Loss: Evap Iso Valve Close Switch - Ckt2	0 = Normal 1 = In Alarm
BI-11045	34046	Comm Loss: Evap Iso Valve Open Switch - Ckt1	0 = Normal 1 = In Alarm
BI-11046	34047	Comm Loss: Evap Iso Valve Open Switch - Ckt2	0 = Normal 1 = In Alarm
BI-11047	34048	Comm Loss: Evap Isolation Valve Relay - Ckt1	0 = Normal 1 = In Alarm
BI-11048	34049	Comm Loss: Evap Isolation Valve Relay - Ckt2	0 = Normal 1 = In Alarm
BI-11049	34050	Comm Loss: Evap Leaving Water Pressure	0 = Normal 1 = In Alarm
BI-11050	34051	Comm Loss: Evap Leaving Water Temp	0 = Normal 1 = In Alarm
BI-11051	34052	Comm Loss: Evap Pump Inv1 Fault Input	0 = Normal 1 = In Alarm
BI-11052	34053	Comm Loss: Evap Pump Inv1 Run Command	0 = Normal 1 = In Alarm
BI-11053	34054	Comm Loss: Evap Rfgt Pool Temp - Ckt1	0 = Normal 1 = In Alarm
BI-11054	34055	Comm Loss: Evap Rfgt Pool Temp - Ckt2	0 = Normal 1 = In Alarm
BI-11055	34056	Comm Loss: Evap Shell Rfgt Pressure - Ckt1	0 = Normal 1 = In Alarm
BI-11056	34057	Comm Loss: Evap Shell Rfgt Pressure - Ckt2	0 = Normal 1 = In Alarm
BI-11057	34058	Comm Loss: Evap Water Pump Inv Freq Input	0 = Normal 1 = In Alarm
BI-11058	34059	Comm Loss: Evap Water Pump Inverter Speed	0 = Normal 1 = In Alarm
BI-11059	34060	Comm Loss: Evaporator Pump 1 Fault Input	0 = Normal 1 = In Alarm
BI-11060	34061	Comm Loss: Evaporator Pump 2 Fault Input	0 = Normal 1 = In Alarm
BI-11061	34062	Comm Loss: Evaporator Water Flow Switch	0 = Normal 1 = In Alarm
BI-11062	34063	Comm Loss: Evaporator Water Pump 1 Relay	0 = Normal 1 = In Alarm
BI-11063	34064	Comm Loss: Evaporator Water Pump 2 Relay	0 = Normal 1 = In Alarm
BI-11064	34065	Comm Loss: Evaporator Water Pump Relay	0 = Normal 1 = In Alarm
BI-11065	34066	Comm Loss: Ext Chilled Water Setpoint	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11066	34067	Comm Loss: Ext Demand Limit Setpoint	0 = Normal 1 = In Alarm
BI-11067	34068	Comm Loss: Ext Noise Reduction Request	0 = Normal 1 = In Alarm
BI-11068	34069	Comm Loss: External Auto/Stop	0 = Normal 1 = In Alarm
BI-11069	34070	Comm Loss: External Ckt Lockout - Ckt1	0 = Normal 1 = In Alarm
BI-11070	34071	Comm Loss: External Ckt Lockout - Ckt2	0 = Normal 1 = In Alarm
BI-11071	34072	Comm Loss: External Heat Recovery Ckt Lockout	0 = Normal 1 = In Alarm
BI-11072	34073	Comm Loss: External Heat Recovery Command	0 = Normal 1 = In Alarm
BI-11073	34074	Comm Loss: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
BI-11074	34075	Comm Loss: External Ice Building Command	0 = Normal 1 = In Alarm
BI-11075	34076	Comm Loss: Fan Board 1 Relay 1 - Ckt1	0 = Normal 1 = In Alarm
BI-11076	34077	Comm Loss: Fan Board 1 Relay 1 - Ckt2	0 = Normal 1 = In Alarm
BI-11077	34078	Comm Loss: Fan Board 1 Relay 2 - Ckt1	0 = Normal 1 = In Alarm
BI-11078	34079	Comm Loss: Fan Board 1 Relay 2 - Ckt2	0 = Normal 1 = In Alarm
BI-11079	34080	Comm Loss: Fan Board 1 Relay 3 - Ckt1	0 = Normal 1 = In Alarm
BI-11080	34081	Comm Loss: Fan Board 1 Relay 3 - Ckt2	0 = Normal 1 = In Alarm
BI-11081	34082	Comm Loss: Fan Board 1 Relay 4 - Ckt1	0 = Normal 1 = In Alarm
BI-11082	34083	Comm Loss: Fan Board 1 Relay 4 - Ckt2	0 = Normal 1 = In Alarm
BI-11083	34084	Comm Loss: Fan Board 2 Relay 1 - Ckt1	0 = Normal 1 = In Alarm
BI-11084	34085	Comm Loss: Fan Board 2 Relay 1 - Ckt2	0 = Normal 1 = In Alarm
BI-11085	34086	Comm Loss: Fan Board 2 Relay 2 - Ckt1	0 = Normal 1 = In Alarm
BI-11086	34087	Comm Loss: Fan Board 2 Relay 2 - Ckt2	0 = Normal 1 = In Alarm
BI-11087	34088	Comm Loss: Fan Board 2 Relay 3 - Ckt1	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11088	34089	Comm Loss: Fan Board 2 Relay 3 - Ckt2	0 = Normal 1 = In Alarm
BI-11089	34090	Comm Loss: Fan Board 2 Relay 4 - Ckt1	0 = Normal 1 = In Alarm
BI-11090	34091	Comm Loss: Fan Board 2 Relay 4 - Ckt2	0 = Normal 1 = In Alarm
BI-11091	34092	Comm Loss: Fan Inv Spd Cmd, Shrd Ckt1&2	0 = Normal 1 = In Alarm
BI-11092	34093	Comm Loss: Fan Inverter Fault - Ckt1	0 = Normal 1 = In Alarm
BI-11093	34094	Comm Loss: Fan Inverter Fault - Ckt2	0 = Normal 1 = In Alarm
BI-11094	34095	Comm Loss: Fan Inverter Speed Command - Ckt1	0 = Normal 1 = In Alarm
BI-11095	34096	Comm Loss: Fan Inverter Speed Command - Ckt2	0 = Normal 1 = In Alarm
BI-11096	34097	Comm Loss: Free Cooling Bypass Valve	0 = Normal 1 = In Alarm
BI-11097	34098	Comm Loss: Free Cooling Entering Glycol Temperature	0 = Normal 1 = In Alarm
BI-11098	34099	Comm Loss: Free Cooling Entering Water Temperature	0 = Normal 1 = In Alarm
BI-11099	34100	Comm Loss: Free Cooling Glycol Flow Switch	0 = Normal 1 = In Alarm
BI-11100	34101	Comm Loss: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
BI-11101	34102	Comm Loss: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm
BI-11102	34103	Comm Loss: Free Cooling Leaving Glycol Temperature	0 = Normal 1 = In Alarm
BI-11103	34104	Comm Loss: Free Cooling Pump	0 = Normal 1 = In Alarm
BI-11104	34105	Comm Loss: Free Cooling Valve	0 = Normal 1 = In Alarm
BI-11105	34106	Comm Loss: Heat Recovery Mode Valve Command – Ckt1	0 = Normal 1 = In Alarm
BI-11106	34107	Comm Loss: Heat Recovery Mode Valve Command – Ckt2	0 = Normal 1 = In Alarm
BI-11107	34108	Comm Loss: Heat Recovery Water Flow Cmd - Ckt1	0 = Normal 1 = In Alarm
BI-11108	34109	Comm Loss: Heat Recovery Water Flow Cmd - Ckt2	0 = Normal 1 = In Alarm
BI-11109	34110	Comm Loss: Heat Recovery Water Flow Switch	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11110	34111	Comm Loss: High Pressure Cutout Sw - 1A	0 = Normal 1 = In Alarm
BI-11111	34112	Comm Loss: High Pressure Cutout Sw - 1B	0 = Normal 1 = In Alarm
BI-11112	34113	Comm Loss: High Pressure Cutout Sw - 2A	0 = Normal 1 = In Alarm
BI-11113	34114	Comm Loss: High Pressure Cutout Sw - 2B	0 = Normal 1 = In Alarm
BI-11114	34115	Comm Loss: High Pressure Cutout Switch - Ckt1	0 = Normal 1 = In Alarm
BI-11115	34116	Comm Loss: High Pressure Cutout Switch - Ckt2	0 = Normal 1 = In Alarm
BI-11116	34117	Comm Loss: Hot Gas Bypass Valve Ckt1	0 = Normal 1 = In Alarm
BI-11117	34118	Comm Loss: Hot Gas Bypass Valve Ckt2	0 = Normal 1 = In Alarm
BI-11118	34119	Comm Loss: HR Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11119	34120	Comm Loss: HR Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11120	34121	Comm Loss: External Rapid Start Command	0 = Normal 1 = In Alarm
BI-11121	34122	Comm Loss: Liquid Line Pressure - Ckt1	0 = Normal 1 = In Alarm
BI-11122	34123	Comm Loss: Liquid Line Pressure - Ckt2	0 = Normal 1 = In Alarm
BI-11123	34124	Comm Loss: Liquid Line Temperature - Ckt1	0 = Normal 1 = In Alarm
BI-11124	34125	Comm Loss: Liquid Line Temperature - Ckt2	0 = Normal 1 = In Alarm
BI-11125	34126	Comm Loss: Local BAS Interface	0 = Normal 1 = In Alarm
BI-11126	34127	Comm Loss: Mains Voltage Detection	0 = Normal 1 = In Alarm
BI-11127	34128	Comm Loss: Motor RLA Input - 1A	0 = Normal 1 = In Alarm
BI-11128	34129	Comm Loss: Motor RLA Input - 1B	0 = Normal 1 = In Alarm
BI-11129	34130	Comm Loss: Motor RLA Input - 2A	0 = Normal 1 = In Alarm
BI-11130	34131	Comm Loss: Motor RLA Input - 2B	0 = Normal 1 = In Alarm
BI-11131	34132	Comm Loss: Motor Winding Tstat Cprsr1A	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11132	34133	Comm Loss: Motor Winding Tstat Cprsr2A	0 = Normal 1 = In Alarm
BI-11133	34134	Comm Loss: Off-cycle Freeze Prot Relay	0 = Normal 1 = In Alarm
BI-11134	34135	Comm Loss: Oil Loss Level Sensor Input - Ckt1	0 = Normal 1 = In Alarm
BI-11135	34136	Comm Loss: Oil Loss Level Sensor Input - Ckt2	0 = Normal 1 = In Alarm
BI-11136	34137	Comm Loss: Oil Pressure - 1A	0 = Normal 1 = In Alarm
BI-11137	34138	Comm Loss: Oil Pressure - 1B	0 = Normal 1 = In Alarm
BI-11138	34139	Comm Loss: Oil Pressure - 2A	0 = Normal 1 = In Alarm
BI-11139	34140	Comm Loss: Oil Pressure - 2B	0 = Normal 1 = In Alarm
BI-11140	34141	Comm Loss: Oil Return Purge Valve Ckt1	0 = Normal 1 = In Alarm
BI-11141	34142	Comm Loss: Oil Return Purge Valve Ckt2	0 = Normal 1 = In Alarm
BI-11142	34143	Comm Loss: Oil Return Solenoid Valve - 1A	0 = Normal 1 = In Alarm
BI-11143	34144	Comm Loss: Oil Return Solenoid Valve - 1B	0 = Normal 1 = In Alarm
BI-11144	34145	Comm Loss: Oil Return Solenoid Valve - 2A	0 = Normal 1 = In Alarm
BI-11145	34146	Comm Loss: Oil Return Solenoid Valve - 2B	0 = Normal 1 = In Alarm
BI-11146	34147	Comm Loss: Oil Supply Temperature - Ckt1	0 = Normal 1 = In Alarm
BI-11147	34148	Comm Loss: Oil Supply Temperature - Ckt2	0 = Normal 1 = In Alarm
BI-11148	34149	Comm Loss: Oil Temperature - 1A	0 = Normal 1 = In Alarm
BI-11149	34150	Comm Loss: Oil Temperature - 1B	0 = Normal 1 = In Alarm
BI-11150	34151	Comm Loss: Oil Temperature - 2A	0 = Normal 1 = In Alarm
BI-11151	34152	Comm Loss: Oil Temperature - 2B	0 = Normal 1 = In Alarm
BI-11152	34153	Comm Loss: Outdoor Air Temperature	0 = Normal 1 = In Alarm
BI-11153	34154	Comm Loss: Programmable Relay Board 1	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11154	34155	Comm Loss: Programmable Relay Board 2	0 = Normal 1 = In Alarm
BI-11155	34156	Comm Loss: Slide Valve Load - 1A	0 = Normal 1 = In Alarm
BI-11156	34157	Comm Loss: Slide Valve Load - 1B	0 = Normal 1 = In Alarm
BI-11157	34158	Comm Loss: Slide Valve Load - 2A	0 = Normal 1 = In Alarm
BI-11158	34159	Comm Loss: Slide Valve Load - 2B	0 = Normal 1 = In Alarm
BI-11159	34160	Comm Loss: Slide Valve Unload - 1A	0 = Normal 1 = In Alarm
BI-11160	34161	Comm Loss: Slide Valve Unload - 1B	0 = Normal 1 = In Alarm
BI-11161	34162	Comm Loss: Slide Valve Unload - 2A	0 = Normal 1 = In Alarm
BI-11162	34163	Comm Loss: Slide Valve Unload - 2B	0 = Normal 1 = In Alarm
BI-11163	34164	Comm Loss: Starter 1A	0 = Normal 1 = In Alarm
BI-11164	34165	Comm Loss: Starter 1B	0 = Normal 1 = In Alarm
BI-11165	34166	Comm Loss: Starter 2A	0 = Normal 1 = In Alarm
BI-11166	34167	Comm Loss: Starter 2B	0 = Normal 1 = In Alarm
BI-11167	34168	Comm Loss: Step Load - 1A	0 = Normal 1 = In Alarm
BI-11168	34169	Comm Loss: Step Load - 1B	0 = Normal 1 = In Alarm
BI-11169	34170	Comm Loss: Step Load - 2A	0 = Normal 1 = In Alarm
BI-11170	34171	Comm Loss: Step Load - 2B	0 = Normal 1 = In Alarm
BI-11171	34172	Comm Loss: Suction Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
BI-11172	34173	Comm Loss: Suction Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
BI-11173	34174	Comm Loss: Suction Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
BI-11174	34175	Comm Loss: Suction Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
BI-11175	34176	Comm Loss: Suction Rfgt Pressure - Ckt1	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11176	34177	Comm Loss: Suction Rfgt Pressure - Ckt2	0 = Normal 1 = In Alarm
BI-11177	34178	Comm Loss: Var Vi Valve – Cprsr1A	0 = Normal 1 = In Alarm
BI-11178	34179	Comm Loss: Var Vi Valve – Cprsr2A	0 = Normal 1 = In Alarm
BI-11179	34180	Comm Loss: Water System Diff Pressure	0 = Normal 1 = In Alarm
BI-11180	34181	Comm Loss: Winding Temp 1, Cprsr1A	0 = Normal 1 = In Alarm
BI-11181	34182	Comm Loss: Winding Temp 1, Cprsr2A	0 = Normal 1 = In Alarm
BI-11182	34183	Comm Loss: Winding Temp 2, Cprsr1A	0 = Normal 1 = In Alarm
BI-11183	34184	Comm Loss: Winding Temp 2, Cprsr2A	0 = Normal 1 = In Alarm
BI-11184	34185	Diagnostic: AFD %RLA Feedback - 1A	0 = Normal 1 = In Alarm
BI-11185	34186	Diagnostic: AFD %RLA Feedback - 1B	0 = Normal 1 = In Alarm
BI-11186	34187	Diagnostic: AFD %RLA Feedback - 2A	0 = Normal 1 = In Alarm
BI-11187	34188	Diagnostic: AFD %RLA Feedback - 2B	0 = Normal 1 = In Alarm
BI-11188	34189	Diagnostic: AFD Bump Complete - 1A	0 = Normal 1 = In Alarm
BI-11189	34190	Diagnostic: AFD Bump Complete - 2A	0 = Normal 1 = In Alarm
BI-11190	34191	Diagnostic: AFD Bump Current High - 1A	0 = Normal 1 = In Alarm
BI-11191	34192	Diagnostic: AFD Bump Current High - 2A	0 = Normal 1 = In Alarm
BI-11192	34193	Diagnostic: AFD Comm Loss – 1A	0 = Normal 1 = In Alarm
BI-11193	34194	Diagnostic: AFD Comm Loss – 1B	0 = Normal 1 = In Alarm
BI-11194	34195	Diagnostic: AFD Comm Loss – 2A	0 = Normal 1 = In Alarm
BI-11195	34196	Diagnostic: AFD Comm Loss – 2B	0 = Normal 1 = In Alarm
BI-11196	34197	Diagnostic: AFD Failure to Arm or Start - 1A	0 = Normal 1 = In Alarm
BI-11197	34198	Diagnostic: AFD Failure to Arm or Start - 1B	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11198	34199	Diagnostic: AFD Failure to Arm or Start - 2A	0 = Normal 1 = In Alarm
BI-11199	34200	Diagnostic: AFD Failure to Arm or Start - 2B	0 = Normal 1 = In Alarm
BI-11200	34201	Diagnostic: AFD Fault - 1A	0 = Normal 1 = In Alarm
BI-11201	34202	Diagnostic: AFD Fault - 1B	0 = Normal 1 = In Alarm
BI-11202	34203	Diagnostic: AFD Fault - 2A	0 = Normal 1 = In Alarm
BI-11203	34204	Diagnostic: AFD Fault - 2B	0 = Normal 1 = In Alarm
BI-11204	34205	Diagnostic: AFD Fault Mains - 1A	0 = Normal 1 = In Alarm
BI-11205	34206	Diagnostic: AFD Fault Mains - 1B	0 = Normal 1 = In Alarm
BI-11206	34207	Diagnostic: AFD Fault Mains - 2A	0 = Normal 1 = In Alarm
BI-11207	34208	Diagnostic: AFD Fault Mains - 2B	0 = Normal 1 = In Alarm
BI-11208	34209	Diagnostic: AFD Harmonic Filter Over Temperature - 1A	0 = Normal 1 = In Alarm
BI-11209	34210	Diagnostic: AFD Harmonic Filter Over Temperature - 2A	0 = Normal 1 = In Alarm
BI-11210	34211	Diagnostic: AFD High Pressure Cutout - 1A	0 = Normal 1 = In Alarm
BI-11211	34212	Diagnostic: AFD High Pressure Cutout - 2A	0 = Normal 1 = In Alarm
BI-11212	34213	Diagnostic: AFD Interrupt Failure - 1A	0 = Normal 1 = In Alarm
BI-11213	34214	Diagnostic: AFD Interrupt Failure - 1B	0 = Normal 1 = In Alarm
BI-11214	34215	Diagnostic: AFD Interrupt Failure - 2A	0 = Normal 1 = In Alarm
BI-11215	34216	Diagnostic: AFD Interrupt Failure - 2B	0 = Normal 1 = In Alarm
BI-11216	34217	Diagnostic: AFD Motor Current Overload - 1A	0 = Normal 1 = In Alarm
BI-11217	34218	Diagnostic: AFD Motor Current Overload - 1B	0 = Normal 1 = In Alarm
BI-11218	34219	Diagnostic: AFD Motor Current Overload - 2A	0 = Normal 1 = In Alarm
BI-11219	34220	Diagnostic: AFD Motor Current Overload - 2B	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11220	34221	Diagnostic: AFD Motor Fault - 1A	0 = Normal 1 = In Alarm
BI-11221	34222	Diagnostic: AFD Motor Fault - 2A	0 = Normal 1 = In Alarm
BI-11222	34223	Diagnostic: AFD Motor Speed Too High - 1A	0 = Normal 1 = In Alarm
BI-11223	34224	Diagnostic: AFD Motor Speed Too High - 2A	0 = Normal 1 = In Alarm
BI-11224	34225	Diagnostic: AFD Motor Speed Too Low - 1A	0 = Normal 1 = In Alarm
BI-11225	34226	Diagnostic: AFD Motor Speed Too Low - 2A	0 = Normal 1 = In Alarm
BI-11226	34227	Diagnostic: AFD Pump Out Speed Low - 1A	0 = Normal 1 = In Alarm
BI-11227	34228	Diagnostic: AFD Pump Out Speed Low - 2A	0 = Normal 1 = In Alarm
BI-11228	34229	Diagnostic: AFD Unexpected Shutdown - 1A	0 = Normal 1 = In Alarm
BI-11229	34230	Diagnostic: AFD Unexpected Shutdown - 2A	0 = Normal 1 = In Alarm
BI-11230	34231	Diagnostic: AFD Unhandled Fault - 1A	0 = Normal 1 = In Alarm
BI-11231	34232	Diagnostic: AFD Unhandled Fault - 2A	0 = Normal 1 = In Alarm
BI-11232	34233	Diagnostic: BAS Communication Lost	0 = Normal 1 = In Alarm
BI-11233	34234	Diagnostic: BAS Failed to Establish Communication	0 = Normal 1 = In Alarm
BI-11234	34235	Diagnostic: Check Clock	0 = Normal 1 = In Alarm
BI-11235	34236	Diagnostic: Chiller Service Recommended	0 = Normal 1 = In Alarm
BI-11236	34237	Diagnostic: Compressor Speed Too High - Thrust Load - Cprs1A	0 = Normal 1 = In Alarm
BI-11237	34238	Diagnostic: Compressor Speed Too High - Thrust Load - Cprs1B	0 = Normal 1 = In Alarm
BI-11238	34239	Diagnostic: Compressor Speed Too High - Thrust Load - Cprs2A	0 = Normal 1 = In Alarm
BI-11239	34240	Diagnostic: Compressor Speed Too High - Thrust Load - Cprs2B	0 = Normal 1 = In Alarm
BI-11240	34241	Diagnostic: Compressor Speed Too Low - Discharge Temperature - 1A	0 = Normal 1 = In Alarm
BI-11241	34242	Diagnostic: Compressor Speed Too Low - Discharge Temperature - 1B	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11242	34243	Diagnostic: Compressor Speed Too Low - Discharge Temperature - 2A	0 = Normal 1 = In Alarm
BI-11243	34244	Diagnostic: Compressor Speed Too Low - Discharge Temperature - 2B	0 = Normal 1 = In Alarm
BI-11244	34245	Diagnostic: Compressor Speed Too Low - Oil Viscosity - 1A	0 = Normal 1 = In Alarm
BI-11245	34246	Diagnostic: Compressor Speed Too Low - Oil Viscosity - 1B	0 = Normal 1 = In Alarm
BI-11246	34247	Diagnostic: Compressor Speed Too Low - Oil Viscosity - 2A	0 = Normal 1 = In Alarm
BI-11247	34248	Diagnostic: Compressor Speed Too Low - Oil Viscosity - 2B	0 = Normal 1 = In Alarm
BI-11248	34249	Diagnostic: Condenser Rfgt Pressure Sensor - Ckt1	0 = Normal 1 = In Alarm
BI-11249	34250	Diagnostic: Condenser Rfgt Pressure Sensor - Ckt2	0 = Normal 1 = In Alarm
BI-11250	34251	Diagnostic: Cprsr Did Not Accel: Shutdown - 1A	0 = Normal 1 = In Alarm
BI-11251	34252	Diagnostic: Cprsr Did Not Accel: Shutdown - 1B	0 = Normal 1 = In Alarm
BI-11252	34253	Diagnostic: Cprsr Did Not Accel: Shutdown - 2A	0 = Normal 1 = In Alarm
BI-11253	34254	Diagnostic: Cprsr Did Not Accel: Shutdown - 2B	0 = Normal 1 = In Alarm
BI-11254	34255	Diagnostic: Cprsr Did Not Accel: Transition - 1A	0 = Normal 1 = In Alarm
BI-11255	34256	Diagnostic: Cprsr Did Not Accel: Transition - 1B	0 = Normal 1 = In Alarm
BI-11256	34257	Diagnostic: Cprsr Did Not Accel: Transition - 2A	0 = Normal 1 = In Alarm
BI-11257	34258	Diagnostic: Cprsr Did Not Accel: Transition - 2B	0 = Normal 1 = In Alarm
BI-11258	34259	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 1A	0 = Normal 1 = In Alarm
BI-11259	34260	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 1B	0 = Normal 1 = In Alarm
BI-11260	34261	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 2A	0 = Normal 1 = In Alarm
BI-11261	34262	Diagnostic: Cprsr Disch Rfgt Temp Sensor - 2B	0 = Normal 1 = In Alarm
BI-11262	34263	Diagnostic: Economizer Disch Press Sensor - 1A	0 = Normal 1 = In Alarm
BI-11263	34264	Diagnostic: Economizer Disch Press Sensor - 1B	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11264	34265	Diagnostic: Economizer Disch Press Sensor - 2A	0 = Normal 1 = In Alarm
BI-11265	34266	Diagnostic: Economizer Disch Press Sensor - 2B	0 = Normal 1 = In Alarm
BI-11266	34267	Diagnostic: Economizer Disch Temp Sensor - 1A	0 = Normal 1 = In Alarm
BI-11267	34268	Diagnostic: Economizer Disch Temp Sensor - 1B	0 = Normal 1 = In Alarm
BI-11268	34269	Diagnostic: Economizer Disch Temp Sensor - 2A	0 = Normal 1 = In Alarm
BI-11269	34270	Diagnostic: Economizer Disch Temp Sensor - 2B	0 = Normal 1 = In Alarm
BI-11270	34271	Diagnostic: Emergency Stop Feedback Input	0 = Normal 1 = In Alarm
BI-11271	34272	Diagnostic: Energy Meter Write Command Failure	0 = Normal 1 = In Alarm
BI-11272	34273	Diagnostic: Evap Iso Valve Illegal Switch State - Ckt1	0 = Normal 1 = In Alarm
BI-11273	34274	Diagnostic: Evap Iso Valve Illegal Switch State - Ckt2	0 = Normal 1 = In Alarm
BI-11274	34275	Diagnostic: Evap Isolation Valve Closed Switch Failure - Ckt1	0 = Normal 1 = In Alarm
BI-11275	34276	Diagnostic: Evap Isolation Valve Closed Switch Failure - Ckt2	0 = Normal 1 = In Alarm
BI-11276	34277	Diagnostic: Evap Isolation Valve Failed To Close - Ckt1	0 = Normal 1 = In Alarm
BI-11277	34278	Diagnostic: Evap Isolation Valve Failed To Close - Ckt2	0 = Normal 1 = In Alarm
BI-11278	34279	Diagnostic: Evap Isolation Valve Failed To Open - Ckt1	0 = Normal 1 = In Alarm
BI-11279	34280	Diagnostic: Evap Isolation Valve Failed To Open - Ckt2	0 = Normal 1 = In Alarm
BI-11280	34281	Diagnostic: Evap Isolation Valve Open Switch Failure - Ckt1	0 = Normal 1 = In Alarm
BI-11281	34282	Diagnostic: Evap Isolation Valve Open Switch Failure - Ckt2	0 = Normal 1 = In Alarm
BI-11282	34283	Diagnostic: Evap Pump 1 Starts Run time Written	0 = Normal 1 = In Alarm
BI-11283	34284	Diagnostic: Evap Pump 2 Starts Run time Written	0 = Normal 1 = In Alarm
BI-11284	34285	Diagnostic: Evap Rfgt Pool Temp Sensor - Ckt1	0 = Normal 1 = In Alarm
BI-11285	34286	Diagnostic: Evap Rfgt Pool Temp Sensor - Ckt2	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11286	34287	Diagnostic: Evap Rfgt Pool Temp Sensor Error - Ckt1	0 = Normal 1 = In Alarm
BI-11287	34288	Diagnostic: Evap Rfgt Pool Temp Sensor Error - Ckt2	0 = Normal 1 = In Alarm
BI-11288	34289	Diagnostic: Evap Water Pump 1 Svc Recommended	0 = Normal 1 = In Alarm
BI-11289	34290	Diagnostic: Evap Water Pump 2 Svc Recommended	0 = Normal 1 = In Alarm
BI-11290	34291	Diagnostic: Evaporator Approach Error - Ckt1	0 = Normal 1 = In Alarm
BI-11291	34292	Diagnostic: Evaporator Approach Error - Ckt2	0 = Normal 1 = In Alarm
BI-11292	34293	Diagnostic: Evaporator Entering Water Pressure	0 = Normal 1 = In Alarm
BI-11293	34294	Diagnostic: Evaporator Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11294	34295	Diagnostic: Evaporator Leaving Water Pressure	0 = Normal 1 = In Alarm
BI-11295	34296	Diagnostic: Evaporator Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11296	34297	Diagnostic: Evaporator Pump 1 Fault	0 = Normal 1 = In Alarm
BI-11297	34298	Diagnostic: Evaporator Pump 2 Fault	0 = Normal 1 = In Alarm
BI-11298	34299	Diagnostic: Evaporator Shell Rfgt Pressure Sensor - Ckt1	0 = Normal 1 = In Alarm
BI-11299	34300	Diagnostic: Evaporator Shell Rfgt Pressure Sensor - Ckt2	0 = Normal 1 = In Alarm
BI-11300	34301	Diagnostic: Evaporator Water Flow Lost	0 = Normal 1 = In Alarm
BI-11301	34302	Diagnostic: Evaporator Water Flow Lost - Pump1	0 = Normal 1 = In Alarm
BI-11302	34303	Diagnostic: Evaporator Water Flow Lost - Pump2	0 = Normal 1 = In Alarm
BI-11303	34304	Diagnostic: Evaporator Water Flow Overdue	0 = Normal 1 = In Alarm
BI-11304	34305	Diagnostic: Evaporator Water Flow Overdue - Pump1	0 = Normal 1 = In Alarm
BI-11305	34306	Diagnostic: Evaporator Water Flow Overdue - Pump2	0 = Normal 1 = In Alarm
BI-11306	34307	Diagnostic: Excessive Condenser Pressure - Ckt1	0 = Normal 1 = In Alarm
BI-11307	34308	Diagnostic: Excessive Condenser Pressure - Ckt2	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11308	34309	Diagnostic: External Chilled Water Setpoint	0 = Normal 1 = In Alarm
BI-11309	34310	Diagnostic: External Demand Limit Setpoint	0 = Normal 1 = In Alarm
BI-11310	34311	Diagnostic: External Heat Recovery Setpoint	0 = Normal 1 = In Alarm
BI-11311	34312	Diagnostic: EXV Pressure Equalization Failed - Ckt1	0 = Normal 1 = In Alarm
BI-11312	34313	Diagnostic: EXV Pressure Equalization Failed - Ckt2	0 = Normal 1 = In Alarm
BI-11313	34314	Diagnostic: Fan Inverter Fault - Ckt1	0 = Normal 1 = In Alarm
BI-11314	34315	Diagnostic: Fan Inverter Fault - Ckt2	0 = Normal 1 = In Alarm
BI-11315	34316	Diagnostic: Free Cooling Entering Glycol Temperature	0 = Normal 1 = In Alarm
BI-11316	34317	Diagnostic: Free Cooling Entering Water Temperature	0 = Normal 1 = In Alarm
BI-11317	34318	Diagnostic: Free Cooling Glycol Flow Lost	0 = Normal 1 = In Alarm
BI-11318	34319	Diagnostic: Free Cooling Glycol Flow Overdue	0 = Normal 1 = In Alarm
BI-11319	34320	Diagnostic: Free Cooling Glycol Pressure	0 = Normal 1 = In Alarm
BI-11320	34321	Diagnostic: Free Cooling Glycol Pump Fault	0 = Normal 1 = In Alarm
BI-11321	34322	Diagnostic: Free Cooling Glycol Temperature Equalization Overdue	0 = Normal 1 = In Alarm
BI-11322	34323	Diagnostic: Free Cooling Leaving Glycol Temperature	0 = Normal 1 = In Alarm
BI-11323	34324	Diagnostic: Heat Recovery Entering Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11324	34325	Diagnostic: Heat Recovery Leaving Water Temp Sensor	0 = Normal 1 = In Alarm
BI-11325	34326	Diagnostic: Heat Recovery Water Flow Lost	0 = Normal 1 = In Alarm
BI-11326	34327	Diagnostic: Heat Recovery Water Flow Overdue	0 = Normal 1 = In Alarm
BI-11327	34328	Diagnostic: High Cprsr Rfgt Discharge Temp - 1A	0 = Normal 1 = In Alarm
BI-11328	34329	Diagnostic: High Cprsr Rfgt Discharge Temp - 1B	0 = Normal 1 = In Alarm
BI-11329	34330	Diagnostic: High Cprsr Rfgt Discharge Temp - 2A	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11330	34331	Diagnostic: High Cprsr Rfgt Discharge Temp - 2B	0 = Normal 1 = In Alarm
BI-11331	34332	Diagnostic: High Differential Refrigerant Pressure	0 = Normal 1 = In Alarm
BI-11332	34333	Diagnostic: High Differential Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
BI-11333	34334	Diagnostic: High Differential Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
BI-11334	34335	Diagnostic: High Differential Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
BI-11335	34336	Diagnostic: High Differential Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
BI-11336	34337	Diagnostic: High Evap Shell Rfgt Pressure - Ckt1	0 = Normal 1 = In Alarm
BI-11337	34338	Diagnostic: High Evap Shell Rfgt Pressure - Ckt2	0 = Normal 1 = In Alarm
BI-11338	34339	Diagnostic: High Evaporator Refrigerant Pressure	0 = Normal 1 = In Alarm
BI-11339	34340	Diagnostic: High Evaporator Water Temperature	0 = Normal 1 = In Alarm
BI-11340	34341	Diagnostic: High Motor Winding Temperature - 1A - Ckt1	0 = Normal 1 = In Alarm
BI-11341	34342	Diagnostic: High Motor Winding Temperature - 1A - Ckt2	0 = Normal 1 = In Alarm
BI-11342	34343	Diagnostic: High Motor Winding Temperature - 2A - Ckt1	0 = Normal 1 = In Alarm
BI-11343	34344	Diagnostic: High Motor Winding Temperature - 2A - Ckt2	0 = Normal 1 = In Alarm
BI-11344	34345	Diagnostic: High Oil Temperature - 1A	0 = Normal 1 = In Alarm
BI-11345	34346	Diagnostic: High Oil Temperature - 1B	0 = Normal 1 = In Alarm
BI-11346	34347	Diagnostic: High Oil Temperature - 2A	0 = Normal 1 = In Alarm
BI-11347	34348	Diagnostic: High Oil Temperature - 2B	0 = Normal 1 = In Alarm
BI-11348	34349	Diagnostic: High Pressure Cutout - 1A	0 = Normal 1 = In Alarm
BI-11349	34350	Diagnostic: High Pressure Cutout - 1B	0 = Normal 1 = In Alarm
BI-11350	34351	Diagnostic: High Pressure Cutout - 2A	0 = Normal 1 = In Alarm
BI-11351	34352	Diagnostic: High Pressure Cutout - 2B	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11352	34353	Diagnostic: High Pressure Cutout - Ckt1	0 = Normal 1 = In Alarm
BI-11353	34354	Diagnostic: High Pressure Cutout - Ckt2	0 = Normal 1 = In Alarm
BI-11354	34355	Diagnostic: High Refrigerant Pressure Ratio	0 = Normal 1 = In Alarm
BI-11355	34356	Diagnostic: High Refrigerant Pressure Ratio - 1A	0 = Normal 1 = In Alarm
BI-11356	34357	Diagnostic: High Refrigerant Pressure Ratio - 1B	0 = Normal 1 = In Alarm
BI-11357	34358	Diagnostic: High Refrigerant Pressure Ratio - 2A	0 = Normal 1 = In Alarm
BI-11358	34359	Diagnostic: High Refrigerant Pressure Ratio - 2B	0 = Normal 1 = In Alarm
BI-11359	34360	Diagnostic: Inverted Evaporator Water Temperature	0 = Normal 1 = In Alarm
BI-11360	34361	Diagnostic: LCI-C Software Mismatch: Use BAS Tool	0 = Normal 1 = In Alarm
BI-11361	34362	Diagnostic: Liquid Line Pressure Sensor - Ckt1	0 = Normal 1 = In Alarm
BI-11362	34363	Diagnostic: Liquid Line Pressure Sensor - Ckt2	0 = Normal 1 = In Alarm
BI-11363	34364	Diagnostic: Liquid Line Temp Sensor - Ckt1	0 = Normal 1 = In Alarm
BI-11364	34365	Diagnostic: Liquid Line Temp Sensor - Ckt2	0 = Normal 1 = In Alarm
BI-11365	34366	Diagnostic: Loss of Oil at Compressor (Running) - Ckt1	0 = Normal 1 = In Alarm
BI-11366	34367	Diagnostic: Loss of Oil at Compressor (Running) - Ckt2	0 = Normal 1 = In Alarm
BI-11367	34368	Diagnostic: Loss of Oil at Compressor (Stopped) - Ckt1	0 = Normal 1 = In Alarm
BI-11368	34369	Diagnostic: Loss of Oil at Compressor (Stopped) - Ckt2	0 = Normal 1 = In Alarm
BI-11369	34370	Diagnostic: Loss of Oil for Compressor (Running) - Ckt1	0 = Normal 1 = In Alarm
BI-11370	34371	Diagnostic: Loss of Oil for Compressor (Running) - Ckt2	0 = Normal 1 = In Alarm
BI-11371	34372	Diagnostic: Loss of Oil for Compressor (Stopped) - Ckt1	0 = Normal 1 = In Alarm
BI-11372	34373	Diagnostic: Loss of Oil for Compressor (Stopped) - Ckt2	0 = Normal 1 = In Alarm
BI-11373	34374	Diagnostic: Low Differential Rfgt Pressure - 1A	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11374	34375	Diagnostic: Low Differential Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
BI-11375	34376	Diagnostic: Low Differential Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
BI-11376	34377	Diagnostic: Low Differential Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
BI-11377	34378	Diagnostic: Low Discharge Superheat - 1A	0 = Normal 1 = In Alarm
BI-11378	34379	Diagnostic: Low Discharge Superheat - 1B	0 = Normal 1 = In Alarm
BI-11379	34380	Diagnostic: Low Discharge Superheat - 2A	0 = Normal 1 = In Alarm
BI-11380	34381	Diagnostic: Low Discharge Superheat - 2B	0 = Normal 1 = In Alarm
BI-11381	34382	Diagnostic: Low Evaporator Rfgt Temp Ckt 1: Unit Off	0 = Normal 1 = In Alarm
BI-11382	34383	Diagnostic: Low Evaporator Rfgt Temp Ckt 2: Unit Off	0 = Normal 1 = In Alarm
BI-11383	34384	Diagnostic: Low Evaporator Water Temp (Unit Off)	0 = Normal 1 = In Alarm
BI-11384	34385	Diagnostic: Low Evaporator Water Temp (Unit On)	0 = Normal 1 = In Alarm
BI-11385	34386	Diagnostic: Low Glycol Pressure Free Cooling	0 = Normal 1 = In Alarm
BI-11386	34387	Diagnostic: Low Glycol Temp Free Cooling	0 = Normal 1 = In Alarm
BI-11387	34388	Diagnostic: Low Oil Flow - 1A	0 = Normal 1 = In Alarm
BI-11388	34389	Diagnostic: Low Oil Flow - 1B	0 = Normal 1 = In Alarm
BI-11389	34390	Diagnostic: Low Oil Flow - 2A	0 = Normal 1 = In Alarm
BI-11390	34391	Diagnostic: Low Oil Flow - 2B	0 = Normal 1 = In Alarm
BI-11391	34392	Diagnostic: Low Refrigerant Temperature - Ckt1	0 = Normal 1 = In Alarm
BI-11392	34393	Diagnostic: Low Refrigerant Temperature - Ckt2	0 = Normal 1 = In Alarm
BI-11393	34394	Diagnostic: Low Suction Refrigerant Pressure - Ckt1	0 = Normal 1 = In Alarm
BI-11394	34395	Diagnostic: Low Suction Refrigerant Pressure - Ckt2	0 = Normal 1 = In Alarm
BI-11395	34396	Diagnostic: Main Power Loss	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11396	34397	Diagnostic: Mfr Maintenance Recommended - 1A	0 = Normal 1 = In Alarm
BI-11397	34398	Diagnostic: Mfr Maintenance Recommended - 1B	0 = Normal 1 = In Alarm
BI-11398	34399	Diagnostic: Mfr Maintenance Recommended - 2A	0 = Normal 1 = In Alarm
BI-11399	34400	Diagnostic: Mfr Maintenance Recommended - 2B	0 = Normal 1 = In Alarm
BI-11400	34401	Diagnostic: Momentary Power Loss - Ckt1	0 = Normal 1 = In Alarm
BI-11401	34402	Diagnostic: Momentary Power Loss - Ckt2	0 = Normal 1 = In Alarm
BI-11402	34403	Diagnostic: Motor Current Overload - 1A	0 = Normal 1 = In Alarm
BI-11403	34404	Diagnostic: Motor Current Overload - 1B	0 = Normal 1 = In Alarm
BI-11404	34405	Diagnostic: Motor Current Overload - 2A	0 = Normal 1 = In Alarm
BI-11405	34406	Diagnostic: Motor Current Overload - 2B	0 = Normal 1 = In Alarm
BI-11406	34407	Diagnostic: Motor Winding Temp Sensor - Cprsr1A	0 = Normal 1 = In Alarm
BI-11407	34408	Diagnostic: Motor Winding Temp Sensor - Cprsr2A	0 = Normal 1 = In Alarm
BI-11408	34409	Diagnostic: MP: Invalid Configuration	0 = Normal 1 = In Alarm
BI-11409	34410	Diagnostic: MP: Non-Volatile Block Test Error	0 = Normal 1 = In Alarm
BI-11410	34411	Diagnostic: MP: Reset Has Occurred	0 = Normal 1 = In Alarm
BI-11411	34412	Diagnostic: No Differential Rfgt Pressure - 1A	0 = Normal 1 = In Alarm
BI-11412	34413	Diagnostic: No Differential Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
BI-11413	34414	Diagnostic: No Differential Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
BI-11414	34415	Diagnostic: No Differential Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
BI-11415	34416	Diagnostic: Oil Analysis Recommended - Ckt1	0 = Normal 1 = In Alarm
BI-11416	34417	Diagnostic: Oil Analysis Recommended - Ckt2	0 = Normal 1 = In Alarm
BI-11417	34418	Diagnostic: Oil Filter Change Recommended - Cprsr1A	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11418	34419	Diagnostic: Oil Filter Change Recommended - Cprsr2A	0 = Normal 1 = In Alarm
BI-11419	34420	Diagnostic: Oil Flow Protection Fault - 1A	0 = Normal 1 = In Alarm
BI-11420	34421	Diagnostic: Oil Flow Protection Fault - 1B	0 = Normal 1 = In Alarm
BI-11421	34422	Diagnostic: Oil Flow Protection Fault - 2A	0 = Normal 1 = In Alarm
BI-11422	34423	Diagnostic: Oil Flow Protection Fault - 2B	0 = Normal 1 = In Alarm
BI-11423	34424	Diagnostic: Oil Pressure Sensor - 1A	0 = Normal 1 = In Alarm
BI-11424	34425	Diagnostic: Oil Pressure Sensor - 1B	0 = Normal 1 = In Alarm
BI-11425	34426	Diagnostic: Oil Pressure Sensor - 2A	0 = Normal 1 = In Alarm
BI-11426	34427	Diagnostic: Oil Pressure Sensor - 2B	0 = Normal 1 = In Alarm
BI-11427	34428	Diagnostic: Oil Supply Temperature Sensor - Ckt1	0 = Normal 1 = In Alarm
BI-11428	34429	Diagnostic: Oil Supply Temperature Sensor - Ckt2	0 = Normal 1 = In Alarm
BI-11429	34430	Diagnostic: Oil Temperature Sensor - 1A	0 = Normal 1 = In Alarm
BI-11430	34431	Diagnostic: Oil Temperature Sensor - 1B	0 = Normal 1 = In Alarm
BI-11431	34432	Diagnostic: Oil Temperature Sensor - 2A	0 = Normal 1 = In Alarm
BI-11432	34433	Diagnostic: Oil Temperature Sensor - 2B	0 = Normal 1 = In Alarm
BI-11433	34434	Diagnostic: Outdoor Air Temperature Sensor	0 = Normal 1 = In Alarm
BI-11434	34435	Diagnostic: Over Voltage	0 = Normal 1 = In Alarm
BI-11435	34436	Diagnostic: Phase Loss - 1A	0 = Normal 1 = In Alarm
BI-11436	34437	Diagnostic: Phase Loss - 1B	0 = Normal 1 = In Alarm
BI-11437	34438	Diagnostic: Phase Loss - 2A	0 = Normal 1 = In Alarm
BI-11438	34439	Diagnostic: Phase Loss - 2B	0 = Normal 1 = In Alarm
BI-11439	34440	Diagnostic: Phase Reversal - 1A	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11440	34441	Diagnostic: Phase Reversal - 1B	0 = Normal 1 = In Alarm
BI-11441	34442	Diagnostic: Phase Reversal - 2A	0 = Normal 1 = In Alarm
BI-11442	34443	Diagnostic: Phase Reversal - 2B	0 = Normal 1 = In Alarm
BI-11443	34444	Diagnostic: Power Loss - 1A	0 = Normal 1 = In Alarm
BI-11444	34445	Diagnostic: Power Loss - 1B	0 = Normal 1 = In Alarm
BI-11445	34446	Diagnostic: Power Loss - 2A	0 = Normal 1 = In Alarm
BI-11446	34447	Diagnostic: Power Loss - 2B	0 = Normal 1 = In Alarm
BI-11447	34448	Diagnostic: Pumpdown Terminated By Time - Ckt1	0 = Normal 1 = In Alarm
BI-11448	34449	Diagnostic: Pumpdown Terminated By Time - Ckt2	0 = Normal 1 = In Alarm
BI-11449	34450	Diagnostic: Restart Inhibit Invoked - 1A	0 = Normal 1 = In Alarm
BI-11450	34451	Diagnostic: Restart Inhibit Invoked - 1B	0 = Normal 1 = In Alarm
BI-11451	34452	Diagnostic: Restart Inhibit Invoked - 2A	0 = Normal 1 = In Alarm
BI-11452	34453	Diagnostic: Restart Inhibit Invoked - 2B	0 = Normal 1 = In Alarm
BI-11453	34454	Diagnostic: Severe Current Imbalance - 1A	0 = Normal 1 = In Alarm
BI-11454	34455	Diagnostic: Severe Current Imbalance - 1B	0 = Normal 1 = In Alarm
BI-11455	34456	Diagnostic: Severe Current Imbalance - 2A	0 = Normal 1 = In Alarm
BI-11456	34457	Diagnostic: Severe Current Imbalance - 2B	0 = Normal 1 = In Alarm
BI-11457	34458	Diagnostic: Software Error 1001: Call Trane Service	0 = Normal 1 = In Alarm
BI-11458	34459	Diagnostic: Software Error 1002: Call Trane Service	0 = Normal 1 = In Alarm
BI-11459	34460	Diagnostic: Software Error 1003: Call Trane Service	0 = Normal 1 = In Alarm
BI-11460	34461	Diagnostic: Starter Comm Loss: Main Processor - 1A	0 = Normal 1 = In Alarm
BI-11461	34462	Diagnostic: Starter Comm Loss: Main Processor - 1B	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11462	34463	Diagnostic: Starter Comm Loss: Main Processor - 2A	0 = Normal 1 = In Alarm
BI-11463	34464	Diagnostic: Starter Comm Loss: Main Processor - 2B	0 = Normal 1 = In Alarm
BI-11464	34465	Diagnostic: Starter Contactor Interrupt Failure - 1A	0 = Normal 1 = In Alarm
BI-11465	34466	Diagnostic: Starter Contactor Interrupt Failure - 1B	0 = Normal 1 = In Alarm
BI-11466	34467	Diagnostic: Starter Contactor Interrupt Failure - 2A	0 = Normal 1 = In Alarm
BI-11467	34468	Diagnostic: Starter Contactor Interrupt Failure - 2B	0 = Normal 1 = In Alarm
BI-11468	34469	Diagnostic: Starter Did Not Fully Accelerate - Ckt1	0 = Normal 1 = In Alarm
BI-11469	34470	Diagnostic: Starter Did Not Fully Accelerate - Ckt2	0 = Normal 1 = In Alarm
BI-11470	34471	Diagnostic: Starter Did Not Transition - 1A	0 = Normal 1 = In Alarm
BI-11471	34472	Diagnostic: Starter Did Not Transition - 1B	0 = Normal 1 = In Alarm
BI-11472	34473	Diagnostic: Starter Did Not Transition - 2A	0 = Normal 1 = In Alarm
BI-11473	34474	Diagnostic: Starter Did Not Transition - 2B	0 = Normal 1 = In Alarm
BI-11474	34475	Diagnostic: Starter Dry Run Test - 1A	0 = Normal 1 = In Alarm
BI-11475	34476	Diagnostic: Starter Dry Run Test - 1B	0 = Normal 1 = In Alarm
BI-11476	34477	Diagnostic: Starter Dry Run Test - 2A	0 = Normal 1 = In Alarm
BI-11477	34478	Diagnostic: Starter Dry Run Test - 2B	0 = Normal 1 = In Alarm
BI-11478	34479	Diagnostic: Starter Failed to Arm/Start - 1A	0 = Normal 1 = In Alarm
BI-11479	34480	Diagnostic: Starter Failed to Arm/Start - 1B	0 = Normal 1 = In Alarm
BI-11480	34481	Diagnostic: Starter Failed to Arm/Start - 2A	0 = Normal 1 = In Alarm
BI-11481	34482	Diagnostic: Starter Failed to Arm/Start - 2B	0 = Normal 1 = In Alarm
BI-11482	34483	Diagnostic: Starter Fault Type I - 1A	0 = Normal 1 = In Alarm
BI-11483	34484	Diagnostic: Starter Fault Type I - 1B	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11484	34485	Diagnostic: Starter Fault Type I - 2A	0 = Normal 1 = In Alarm
BI-11485	34486	Diagnostic: Starter Fault Type I - 2B	0 = Normal 1 = In Alarm
BI-11486	34487	Diagnostic: Starter Fault Type II - 1A	0 = Normal 1 = In Alarm
BI-11487	34488	Diagnostic: Starter Fault Type II - 1B	0 = Normal 1 = In Alarm
BI-11488	34489	Diagnostic: Starter Fault Type II - 2A	0 = Normal 1 = In Alarm
BI-11489	34490	Diagnostic: Starter Fault Type II - 2B	0 = Normal 1 = In Alarm
BI-11490	34491	Diagnostic: Starter Fault Type III - 1A	0 = Normal 1 = In Alarm
BI-11491	34492	Diagnostic: Starter Fault Type III - 1B	0 = Normal 1 = In Alarm
BI-11492	34493	Diagnostic: Starter Fault Type III - 2A	0 = Normal 1 = In Alarm
BI-11493	34494	Diagnostic: Starter Fault Type III - 2B	0 = Normal 1 = In Alarm
BI-11494	34495	Diagnostic: Starter Module Memory Error Type 1 - 1A	0 = Normal 1 = In Alarm
BI-11495	34496	Diagnostic: Starter Module Memory Error Type 1 - 1B	0 = Normal 1 = In Alarm
BI-11496	34497	Diagnostic: Starter Module Memory Error Type 1 - 2A	0 = Normal 1 = In Alarm
BI-11497	34498	Diagnostic: Starter Module Memory Error Type 1 - 2B	0 = Normal 1 = In Alarm
BI-11498	34499	Diagnostic: Starter Module Memory Error Type 2 - 1A	0 = Normal 1 = In Alarm
BI-11499	34500	Diagnostic: Starter Module Memory Error Type 2 - 1B	0 = Normal 1 = In Alarm
BI-11500	34501	Diagnostic: Starter Module Memory Error Type 2 - 2A	0 = Normal 1 = In Alarm
BI-11501	34502	Diagnostic: Starter Module Memory Error Type 2 - 2B	0 = Normal 1 = In Alarm
BI-11502	34503	Diagnostic: Starts/Hours Modified 1A	0 = Normal 1 = In Alarm
BI-11503	34504	Diagnostic: Starts/Hours Modified 1B	0 = Normal 1 = In Alarm
BI-11504	34505	Diagnostic: Starts/Hours Modified 2A	0 = Normal 1 = In Alarm
BI-11505	34506	Diagnostic: Starts/Hours Modified 2B	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11506	34507	Diagnostic: Suction Pressure Transducer - Ckt1	0 = Normal 1 = In Alarm
BI-11507	34508	Diagnostic: Suction Pressure Transducer - Ckt2	0 = Normal 1 = In Alarm
BI-11508	34509	Diagnostic: Suction Refrigerant Pressure Sensor - 1A	0 = Normal 1 = In Alarm
BI-11509	34510	Diagnostic: Suction Refrigerant Pressure Sensor - 1B	0 = Normal 1 = In Alarm
BI-11510	34511	Diagnostic: Suction Refrigerant Pressure Sensor - 2A	0 = Normal 1 = In Alarm
BI-11511	34512	Diagnostic: Suction Refrigerant Pressure Sensor - 2B	0 = Normal 1 = In Alarm
BI-11512	34513	Diagnostic: Transition Complete Input Opened - 1A	0 = Normal 1 = In Alarm
BI-11513	34514	Diagnostic: Transition Complete Input Opened - 1B	0 = Normal 1 = In Alarm
BI-11514	34515	Diagnostic: Transition Complete Input Opened - 2A	0 = Normal 1 = In Alarm
BI-11515	34516	Diagnostic: Transition Complete Input Opened - 2B	0 = Normal 1 = In Alarm
BI-11516	34517	Diagnostic: Transition Complete Input Shorted - 1A	0 = Normal 1 = In Alarm
BI-11517	34518	Diagnostic: Transition Complete Input Shorted - 1B	0 = Normal 1 = In Alarm
BI-11518	34519	Diagnostic: Transition Complete Input Shorted - 2A	0 = Normal 1 = In Alarm
BI-11519	34520	Diagnostic: Transition Complete Input Shorted - 2B	0 = Normal 1 = In Alarm
BI-11520	34521	Diagnostic: Under Voltage	0 = Normal 1 = In Alarm
BI-11521	34522	Diagnostic: Unexpected Starter Shutdown - 1A	0 = Normal 1 = In Alarm
BI-11522	34523	Diagnostic: Unexpected Starter Shutdown - 1B	0 = Normal 1 = In Alarm
BI-11523	34524	Diagnostic: Unexpected Starter Shutdown - 2A	0 = Normal 1 = In Alarm
BI-11524	34525	Diagnostic: Unexpected Starter Shutdown - 2B	0 = Normal 1 = In Alarm
BI-11525	34526	Diagnostic: Very Low Discharge Superheat - 1A	0 = Normal 1 = In Alarm
BI-11526	34527	Diagnostic: Very Low Discharge Superheat - 2A	0 = Normal 1 = In Alarm
BI-11527	34528	Diagnostic: Very Low Evap Rfgt Pressure - 1A	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Object States
BI-11528	34529	Diagnostic: Very Low Evap Rfgt Pressure - 1B	0 = Normal 1 = In Alarm
BI-11529	34530	Diagnostic: Very Low Evap Rfgt Pressure - 2A	0 = Normal 1 = In Alarm
BI-11530	34531	Diagnostic: Very Low Evap Rfgt Pressure - 2B	0 = Normal 1 = In Alarm
BI-11531	34532	Diagnostic: Water System Differential Pressure	0 = Normal 1 = In Alarm
BI-11532	34533	Comm Loss: Fan Control Module	0 = Normal 1 = In Alarm
BI-11533	34534	Comm Loss: Condenser Fan Circuit 1	0 = Normal 1 = In Alarm
BI-11534	34535	Comm Loss: Condenser Fan Shared Circuit	0 = Normal 1 = In Alarm
BI-11535	34536	Comm Loss: Condenser Fan Circuit 2	0 = Normal 1 = In Alarm
BI-11536	34537	Diagnostic: Drive 1A configuration may be not complete	0 = Normal 1 = In Alarm
BI-11537	34538	Diagnostic: Drive 1B configuration may be not complete	0 = Normal 1 = In Alarm
BI-11538	34539	Diagnostic: Drive 2A configuration may be not complete	0 = Normal 1 = In Alarm
BI-11539	34540	Diagnostic: Drive 2B configuration may be not complete	0 = Normal 1 = In Alarm
BI-11540	34541	Comm Loss: Refrigerant Leak Detector	0 = Normal 1 = In Alarm
BI-11541	34542	Diagnostic: Refrigerant Leakage Detected	0 = Normal 1 = In Alarm
BI-11542	34543	Comm Loss: Evap Water Pump Inlet Pressure	0 = Normal 1 = In Alarm
BI-11543	34544	Diagnostic: Low Evaporator Water Pressure	0 = Normal 1 = In Alarm
BI-11544	34545	Diagnostic: Evaporator Water Pump Inlet Pressure Transducer	0 = Normal 1 = In Alarm

BACnet Object Identifier	Modbus Register	Object Name	Description	Object States	Configuration Dependency
BV-10100	43011	Chiller Auto Stop Command BAS	Normally used by the BMS to command the chiller to start running if operating conditions are satisfied, or to stop the chiller from running.	0 = Stop 1 = Auto	Standard
BV-10101	43012	Reset Diagnostic	Normally used by the BMS to initiate a request to reset any controller diagnostics.	0 = Normal 1 = Reset	Standard
BV-10102	43013	Noise Reduction Request BAS	Normally used by the BMS to command the chiller to enter a mode of operation where the noise of the unit is reduced.	0 = Normal 1 = Locked Out	Standard
BV-10103	43014	Circuit 1 Lockout BAS	Normally used by the BMS to lockout the Circuit-1 Compressor.	0 = Normal 1 = Locked Out	Standard
BV-10104	43015	Circuit 2 Lockout BAS	Normally used by the BMS to lockout the Circuit-2 Compressor.	0 = Normal 1 = Locked Out	Standard
BV-10105	43016	Compressor 1A Lockout BAS	Normally used by the BMS to lockout the Compressor 1A.	0 = Normal 1 = Locked Out	Standard
BV-10106	43017	Compressor 1B Lockout BAS	Normally used by the BMS to lockout the Compressor 1B.	0 = Normal 1 = Locked Out	Compressor 1B
BV-10107	43018	Compressor 2A Lockout BAS	Normally used by the BMS to lockout the Compressor 2A.	0 = Normal 1 = Locked Out	Standard
BV-10108	43019	Compressor 2B Lockout BAS	Normally used by the BMS to lockout the Compressor 2B.	0 = Normal 1 = Locked Out	Compressor 2B
BV-10109	43020	Free Cooling Auto Stop Command BAS	Normally used the BMS to command the chiller to allow free cooling mode if conditions are satisfied, or to stop the free cooling mode from operating.	0 = Stop 1 = Auto	Free Cooling
BV-10110	43021	Energy Consumption Reset	Normally used by the BMS to reset the energy consumption accumulated total.	0 = Accumulating 1 = Reset	Energy Meter
BV-10111	43022	Heat Recovery Enable BAS	Normally used by the BMS to command the heat recovery to start running if operating conditions are satisfied, or to stop the heat recovery from running.	0 = Off 1 = On	Heat Recovery
BV-10112	43023	Heat Recovery Lockout Circuit 1 BAS	Normally used by the BMS to lockout the heat recovery Circuit 1.	0 = Normal 1 = Locked Out	Heat Recovery
BV-10113	43024	Heat Recovery Lockout Circuit 2 BAS	Normally used by the BMS to lockout the heat recovery Circuit 2.	0 = Normal 1 = Locked Out	Heat Recovery
BV-10114	43025	Evaporator Water Pump Request BAS	BAS Evaporator Water Pump Auto On Request	0 = Auto 1 = On	Standard
BV-10115	43026	Rapid Start Request BAS	BAS Rapid Start Request	0 = Off 1 = On	Standard
BV-10116	43027	Free Cooling Compressor Lockout	BAS Free Cooling Compressor Lockout	0 = Normal 1 = Locked Out	Free Cooling

BACnet Object Identifier	Modbus Register	Object Name	Description	Object States	Configuration Dependency
MI-10100	32011	Running Mode	Indicates the running state of the chiller.	1 = Chiller Off 2 = Chiller In Start Mode 3 = Chiller In Run Mode 4 = Chiller In Pre- Shutdown Mode 5 = Chiller In Service Mode	Standard
MI-10101	32012	Operating Mode	Indicates the operating mode of the chiller.	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard
MI-10102	32013	Front Panel Chiller Mode Command	Indicates the Chiller Mode Command in Front Panel.	1 = Cool 2 = Heat 3 = Ice Making 4 = Free Cooling	Standard
MI-10103	32014	Refrigerant Type	Indicates the chiller refrigerant type.	5 = R-134a 13 = R-513A 16 = R-1234ze(E)	Standard
MI-10104	32015	Cooling Type	Indicates the cooling Type of chiller.	2 = Air Cooled	Standard
MI-10105	32016	Model Information [GEN2]	Indicates the model information of chiller.	5 = RTAF	Standard
MI-10106	32017	Manufacture Location	Indicates the location that the chiller was manufactured.	3 = Pueblo 4 = Charmes	Standard
MI-10107	32018	Chiller Setpoint Source	Indicates the selected setpoint source for control purpose.	1 = BAS 2 = External 3 = Front Panel	Standard

BACnet Object Identifier	Modbus Register	Object Name	Description	Object States	Configuration Dependency
MV-10100	42011	Chiller Mode Command BAS	Normally used by the BMS to command the chiller Mode.	1 = Cool 2 = Heat 3= Ice Making 4= Free Cooling	Standard

Diagnostic Code (decimal)	Diagnostic Name
1001	MP: Invalid Configuration
1003	Check Clock
1005	MP: Non-Volatile Block Test Error
1006	MP: Reset Has Occurred
21001	Comm Loss: Outdoor Air Temperature
21002	Outdoor Air Temp Sensor
21003	Software Error 1001: Call Trane Service
21004	Software Error 1002: Call Trane Service
21005	Software Error 1003: Call Trane Service
21010	Main Power Loss
21011	Comm Loss: Mains Voltage Detection
41001	Comm Loss: Condenser Rfgt Pressure
41002	Comm Loss: Suction Pressure Transducer
41003	Comm Loss: Subcooled Liquid Temp
41004	Pumpdown Terminated By Time
41005	Condenser Rfgt Pressure Transducer
41006	Suction Pressure Transducer
41007	Comm Loss: Subcooled Liquid Pressure
41008	Comm Loss: Evap Shell Rfgt Pressure
41009	Evaporator Shell Rfgt Pressure Sensor
41012	Comm Loss: Oil Loss Level Sensor Input
41013	Comm Loss: External Ckt Lockout
41015	Subcooled Liquid Pressure Sensor
41016	Subcooled Liquid Temperature Sensor
41018	Evaporator Refrigerant Pool Temperature Sensor
41019	Comm Loss: Evaporator Refrigerant Pool Temperature
41020	Evaporator Isolation Valve Failed To Open
41021	Evaporator Isolation Valve Failed To Close
41022	Evaporator Isolation Valve Open Switch Failure
41023	Evaporator Isolation Valve Closed Switch Failure
41024	Evaporator Isolation Valve Illegal Switch State
41025	Comm Loss: Evaporator Isolation Valve Relay
41026	Comm Loss: Evaporator Isolation Valve Close Switch
41027	Comm Loss: Evaporator Isolation Valve Open Switch
41028	Evaporator Refrigerant Pool Temperature Sensor Error

Diagnostic Code (decimal)	Diagnostic Name
41029	Comm Loss: Cond Rfgt Tank Valve
41030	Comm Loss: Oil Return Purge Valve Ckt1
41031	Oil Supply Temperature Sensor
41032	Comm Loss: Oil Supply Temperature
42001	Comm Loss: Condenser Rfgt Pressure
42002	Comm Loss: Suction Pressure Transducer
42003	Comm Loss: Subcooled Liquid Temp
42004	Pumpdown Terminated By Time
42005	Condenser Rfgt Pressure Transducer
42006	Suction Pressure Transducer
42007	Comm Loss: Subcooled Liquid Pressure
42008	Comm Loss: Evap Shell Rfgt Pressure
42009	Evaporator Shell Rfgt Pressure Sensor
42012	Comm Loss: Oil Loss Level Sensor Input
42013	Comm Loss: External Ckt Lockout
42015	Subcooled Liquid Pressure Sensor
42016	Subcooled Liquid Temperature Sensor
42018	Evaporator Refrigerant Pool Temperature Sensor
42019	Comm Loss: Evaporator Refrigerant Pool Temperature
42020	Evaporator Isolation Valve Failed To Open
42021	Evaporator Isolation Valve Failed To Close
42022	Evaporator Isolation Valve Open Switch Failure
42023	Evaporator Isolation Valve Closed Switch Failure
42024	Evaporator Isolation Valve Illegal Switch State
42025	Comm Loss: Evaporator Isolation Valve Relay
42026	Comm Loss: Evaporator Isolation Valve Close Switch
42027	Comm Loss: Evaporator Isolation Valve Open Switch
42028	Evaporator Refrigerant Pool Temperature Sensor Error
42029	Comm Loss: Cond Rfgt Tank Valve
42030	Comm Loss: Oil Return Purge Valve Ckt2
42031	Oil Supply Temperature Sensor
42032	Comm Loss: Oil Supply Temperature
61001	Comm Loss: Evaporator Water Pump Relay
61002	Comm Loss: Evaporator Water Flow Switch
61003	Comm Loss: Off-cycle Freeze Protection Relay

Diagnostic Code (decimal)	Diagnostic Name
81001	Comm Loss: External Auto/Stop
81002	Comm Loss: Emergency Stop
81003	Emergency Stop diag
81005	External Chilled/Hot Water Setpoint
81006	Comm Loss: Ext Chilled/Hot Wtr Setpoint
81007	Comm Loss: Programmable Relay Board 1
81008	External Demand Limit Setpoint Diag
81009	Comm Loss: Ext Demand Limit Setpoint
81012	Comm Loss: Chiller % Capacity Output
81014	Comm Loss: Ext Noise Reduction Request
81015	Comm Loss: Auxiliary Setpoint Command
81016	Comm Loss: Programmable Relay Board 2
81017	Comm Loss: External Heat Recovery Ckt Lockout
101001	Low Refrigerant Temperature
101002	Low Suction Refrigerant Pressure
101005	Low Evaporator Temp: Unit Off
101006	Evaporator Approach Error
101007	High Evap Shell Rfgt Pressure
101008	Loss of Oil at Compressor Stopped
101009	Loss of Oil at Compressor Running
102001	Low Refrigerant Temperature
102002	Low Suction Refrigerant Pressure
102003	High Differential Refrigerant Pressure
102004	High Refrigerant Pressure Ratio
102005	Low Evaporator Temp: Unit Off
102006	Evaporator Approach Error
102007	High Evap Shell Rfgt Pressure
102008	Loss of Oil at Compressor Stopped
102009	Loss of Oil at Compressor Running
111001	High Evaporator Pressure
111002	High Evaporator Water Temperature
111003	Evaporator Water Flow Overdue
111004	Evaporator Water Flow Lost
141003	High Pressure Cutout
141004	Comm Loss: High Pressure Cutout Switch

Diagnostic Code (decimal)	Diagnostic Name
141005	Excessive Condenser Pressure
142003	High Pressure Cutout
142004	Comm Loss: High Pressure Cutout Switch
142005	Excessive Condenser Pressure
171001	Comm Loss: External Ice Building Command
171002	Comm Loss: Ice Building Status Relay
201001	Comm Loss: Local BAS Interface
201002	BAS Failed to Establish Communication
201003	BAS Communication Lost
201004	LCI-C Software Mismatch: Use BAS Tool
231001	Comm Loss: Evap Entering Water Temp
231002	Evaporator Entering Water Temp Sensor
231003	Comm Loss: Evap Leaving Water Temp
231004	Evaporator Leaving Water Temp Sensor
231005	Low Evap Water Temp: Unit On
231006	Low Evap Water Temp: Unit Off
231008	Evaporator Water Flow (Entering Water Temp)
231009	Comm Loss: Evap Entering Water Pressure
231010	Evaporator Entering Water Pressure
231011	Comm Loss: Evap Leaving Water Pressure
231012	Evaporator Leaving Water Pressure
231013	Comm Loss: Water System Diff Pressure
231014	Water System Differential Pressure
231015	Comm Loss: Evap Water Pump Inverter Speed
231016	Comm Loss: Chiller Bypass Valve Output
251001	Comm Loss: Fan Inverter Fault
251002	Comm Loss: Fan Inverter Speed Command
251003	Fan Inverter Fault
251004	Comm Loss: Condenser Fan Enable
251008	Comm Loss: Fan Inverter Speed Command Shared Ckt 1 and 2
251009	Comm Loss: Condenser Fan Enable Shared Circuit 1 and 2
251010	Comm Loss: Fan Board 1 Relay 1
251011	Comm Loss: Fan Board 1 Relay 2
251012	Comm Loss: Fan Board 1 Relay 3
251013	Comm Loss: Fan Board 1 Relay 4

Diagnostic Code (decimal)	Diagnostic Name
251014	Comm Loss: Fan Board 2 Relay 1
251015	Comm Loss: Fan Board 2 Relay 2
251016	Comm Loss: Fan Board 2 Relay 3
251017	Comm Loss: Fan Board 2 Relay 4
252001	Comm Loss: Fan Inverter Fault
252002	Comm Loss: Fan Inverter Speed Command
252003	Fan Inverter Fault
252004	Comm Loss: Condenser Fan Enable
252010	Comm Loss: Fan Board 1 Relay 1
252011	Comm Loss: Fan Board 1 Relay 2
252012	Comm Loss: Fan Board 1 Relay 3
252013	Comm Loss: Fan Board 1 Relay 4
252014	Comm Loss: Fan Board 2 Relay 1
252015	Comm Loss: Fan Board 2 Relay 2
252016	Comm Loss: Fan Board 2 Relay 3
252017	Comm Loss: Fan Board 2 Relay 4
291001	Comm Loss: Electronic Expansion Valve
292001	Comm Loss: Electronic Expansion Valve
331001	Oil Analysis Recommended
331002	Oil Filter Change Recommended
331003	Chiller Service Recommended
331004	Evap Water Pump 1 Svc Recommended
331005	Evap Water Pump 2 Svc Recommended
331006	Mfr Maintenance Recommended Cprsr1A
331007	Mfr Maintenance Recommended Cprsr1B
332001	Oil Analysis Recommended
332002	Oil Filter Change Recommended
332006	Mfr Maintenance Recommended Cprsr2A
332007	Mfr Maintenance Recommended Cprsr2B
341003	Starts/Hours Modified
341004	Comm Loss: Step Load
341005	Comm Loss: Slide Valve Load
341006	Comm Loss: Slide Valve Unload
341015	Comm Loss: Suction Pressure Transducer
341016	Suction Refrigerant Pressure Sensor

Diagnostic Code (decimal)	Diagnostic Name
341017	Comm Loss: Economizer Valve
341018	Comm Loss: Economizer Disch Temp
341019	Economizer Disch Temp Sensor
341020	Comm Loss: Economizer Disch Press
341021	Economizer Disch Press Sensor
341022	Comm Loss: Variable Vi Valve
342003	Starts/Hours Modified
342004	Comm Loss: Step Load
342005	Comm Loss: Slide Valve Load
342006	Comm Loss: Slide Valve Unload
342015	Comm Loss: Suction Pressure Transducer
342016	Suction Refrigerant Pressure Sensor
342017	Comm Loss: Economizer Valve
342018	Comm Loss: Economizer Disch Temp
342019	Economizer Disch Temp Sensor
342020	Comm Loss: Economizer Disch Press
342021	Economizer Disch Press Sensor
351003	Starts/Hours Modified
351004	Comm Loss: Step Load
351005	Comm Loss: Slide Valve Load
351006	Comm Loss: Slide Valve Unload
351015	Comm Loss: Suction Pressure Transducer
351016	Suction Refrigerant Pressure Sensor
351017	Comm Loss: Economizer Valve
351018	Comm Loss: Economizer Disch Temp
351019	Economizer Disch Temp Sensor
351020	Comm Loss: Economizer Disch Press
351021	Economizer Disch Press Sensor
351022	Comm Loss: Variable Vi Valve
352003	Starts/Hours Modified
352004	Comm Loss: Step Load
352005	Comm Loss: Slide Valve Load
352006	Comm Loss: Slide Valve Unload
352015	Comm Loss: Suction Pressure Transducer
352016	Suction Refrigerant Pressure Sensor

Diagnostic Code (decimal)	Diagnostic Name
352017	Comm Loss: Economizer Valve
352018	Comm Loss: Economizer Disch Temp
352019	Economizer Disch Temp Sensor
352020	Comm Loss: Economizer Disch Press
352021	Economizer Disch Press Sensor
361001	No Differential Refrigerant Pressure
361002	Low Differential Refrigerant Pressure
361003	Oil Pressure System Fault
361004	Low Oil Flow
361005	High Oil Temperature
361006	Comm Loss: Cprsr Discharge Rfgt Temp
361007	Compressor Discharge Rfgt Temperature Sensor
361008	Comm Loss: Oil Pressure
361009	Oil Pressure Transducer
361011	Low Discharge Superheat
361012	Very Low Evap Rfgt Press
361015	Loss of Oil at Compressor Stopped
361016	Loss of Oil at Compressor Running
361017	High Cprsr Rfgt Discharge Temperature
361018	Compressor Oil Temperature Sensor
361019	Comm Loss: Compressor Oil Temperature Sensor
361020	Comm Loss: Oil Return Solenoid Valve
361021	Comm Loss: High Pressure Switch
361022	High Pressure Cutout
361023	High Differential Rfgt Pressure
361024	High Refrigerant Pressure Ratio
361025	Very Low Discharge Superheat
361026	Compressor Speed Too Low - Discharge Temperature
361027	Compressor Speed Too Low - Oil Viscosity
362001	No Differential Refrigerant Pressure
362002	Low Differential Rfgt Pressure
362003	Oil Pressure System Fault
362004	Low Oil Flow
362005	High Oil Temperature
362006	Comm Loss: Cprsr Discharge Rfgt Temp

Diagnostic Code (decimal)	Diagnostic Name
362007	Compressor Discharge Rfgt Temperature Sensor
362008	Comm Loss: Oil Pressure
362009	Oil Pressure Transducer
362011	Low Discharge Superheat
362012	Very Low Evap Rfgt Press
362017	High Cprsr Rfgt Discharge Temperature
362018	Compressor Oil Temperature Sensor
362019	Comm Loss: Compressor Oil Temperature Sensor
362020	Comm Loss: Oil Return Solenoid Valve
362021	Comm Loss: High Pressure Switch
362022	High Pressure Cutout
362023	High Differential Rfgt Pressure
362024	High Refrigerant Pressure Ratio
362026	Compressor Speed Too Low - Discharge Temperature
362027	Compressor Speed Too Low - Oil Viscosity
371001	No Differential Refrigerant Pressure
371002	Low Differential Refrigerant Pressure
371003	Oil Pressure System Fault
371004	Low Oil Flow
371005	High Oil Temperature
371006	Comm Loss: Cprsr Discharge Rfgt Temp
371007	Compressor Discharge Rfgt Temperature Sensor
371008	Comm Loss: Oil Pressure
371009	Oil Pressure Transducer
371011	Low Discharge Superheat
371012	Very Low Evap Rfgt Press
371015	Loss of Oil at Compressor Stopped
371016	Loss of Oil at Compressor Running
371017	High Cprsr Rfgt Discharge Temperature
371018	Compressor Oil Temperature Sensor
371019	Comm Loss: Compressor Oil Temperature Sensor
371020	Comm Loss: Oil Return Solenoid Valve
371021	Comm Loss: High Pressure Switch
371022	High Pressure Cutout
371023	High Differential Rfgt Pressure

Diagnostic Code (decimal)	Diagnostic Name
371024	High Refrigerant Pressure Ratio
371025	Very Low Discharge Superheat
371026	Compressor Speed Too Low - Discharge Temperature
371027	Compressor Speed Too Low - Oil Viscosity
372001	No Differential Refrigerant Pressure
372002	Low Differential Rfgt Pressure
372003	Oil Pressure System Fault
372004	Low Oil Flow
372005	High Oil Temperature
372006	Comm Loss: Cprsr Discharge Rfgt Temp
372007	Compressor Discharge Rfgt Temperature Sensor
372008	Comm Loss: Oil Pressure
372009	Oil Pressure Transducer
372011	Low Discharge Superheat
372012	Very Low Evap Rfgt Press
372017	High Cprsr Rfgt Discharge Temperature
372018	Compressor Oil Temperature Sensor
372019	Comm Loss: Compressor Oil Temperature Sensor
372020	Comm Loss: Oil Return Solenoid Valve
372021	Comm Loss: High Pressure Switch
372022	High Pressure Cutout
372023	High Differential Rfgt Pressure
372024	High Refrigerant Pressure Ratio
372026	Compressor Speed Too Low - Discharge Temperature
372027	Compressor Speed Too Low - Oil Viscosity
381001	Restart Inhibit Invoked Compressor 1A
381002	Comm Loss: Motor Winding Thermostat
381003	High Motor Winding Temp
381160	High Motor Winding Temp 1
381163	Comm Loss: Winding Temp 1
381164	Comm Loss: Winding Temp 2
381174	Winding Temp 1 Sensor
382001	Restart Inhibit Invoked Compressor 1B
391001	Restart Inhibit Invoked Compressor 2A
391002	Comm Loss: Motor Winding Thermostat

Diagnostic Code (decimal)	Diagnostic Name
391003	High Motor Winding Temp
391160	High Motor Winding Temp 1
391163	Comm Loss: Winding Temp 1
391164	Comm Loss: Winding Temp 2
391174	Winding Temp 1 Sensor
392001	Restart Inhibit Invoked Compressor 2B
401001	Starter Failed to Arm/Start
401002	Comm Loss: Starter
401003	AFD Comm Loss
401005	Unexpected Starter Shutdown
401007	AFD Interrupt Failure
401009	Starter Did Not Transition
401010	Starter Comm Loss: Main Processor
401011	Starter Fault Type I
401012	Starter Fault Type II
401013	Starter Fault Type III
401014	Transition Complete Input Shorted
401015	Phase Loss
401016	Phase Reversal
401017	Severe Current Imbalance
401018	Power Loss
401019	Momentary Power Loss
401020	Motor Current Overload
401021	Compressor Did Not Accelerate: Shutdown
401022	Compressor Did Not Accel Transition
401023	Transition Complete Input Opened
401024	Starter Module Memory Error Type 1
401025	Starter Module Memory Error Type 2
401026	Starter Dry Run Test
401027	Under Voltage
401028	Over Voltage
401030	Starter Did Not Fully Accelerate
401032	Starter Contactor Interrupt Failure
401083	Comm Loss: AFD Run Command
401086	Comm Loss: Energy Meter Pulse Input

Diagnostic Code (decimal)	Diagnostic Name
401087	Comm Loss: Speed Command
401088	AFD Fault
401089	AFD Current Overload
401090	Comm Loss: Motor RLA Input
401091	Motor 1A RLA Input
401092	Comm Loss: AFD Fault Input
401093	AFD Motor Fault
401095	AFD High Pressure Cutout
401097	AFD Bump Complete
401098	AFD Bump Current High
401099	AFD Pump Out Speed Low
401100	AFD Unhandled Fault
401101	AFD Harmonic Filter Over Temperature
401102	AFD Failure to Arm or Start
401103	AFD Unexpected Shutdown
401105	AFD Motor Speed Too Low
401106	AFD Motor Speed Too High
401107	AFD Fault Mains
402001	Starter Failed to Arm/Start
402002	Comm Loss: Starter
402003	AFD Comm Loss
402005	Unexpected Starter Shutdown
402007	AFD Interrupt Failure
402009	Starter Did Not Transition
402010	Starter Comm Loss: Main Processor
402011	Starter Fault Type I
402012	Starter Fault Type II
402013	Starter Fault Type III
402014	Transition Complete Input Shorted
402015	Phase Loss
402016	Phase Reversal
402017	Severe Current Imbalance
402018	Power Loss
402020	Motor Current Overload
402021	Compressor Did Not Accelerate: Shutdown

Diagnostic Code (decimal)	Diagnostic Name
402022	Compressor Did Not Accel Transition
402023	Transition Complete Input Opened
402024	Starter Module Memory Error Type 1
402025	Starter Module Memory Error Type 2
402026	Starter Dry Run Test
402032	Starter Contactor Interrupt Failure
402087	Comm Loss: Speed Command
402088	AFD Fault
402089	AFD Motor Current Overload
402090	Comm Loss: Motor RLA Input
402091	Motor 1A RLA Input
402092	Comm Loss: AFD Fault Input
402102	AFD Failure to Arm or Start
402107	AFD Fault Mains
411001	Starter Failed to Arm/Start
411002	Comm Loss: Starter
411003	AFD Comm Loss
411005	Unexpected Starter Shutdown
411007	AFD Interrupt Failure
411009	Starter Did Not Transition
411010	Starter Comm Loss: Main Processor
411011	Starter Fault Type I
411012	Starter Fault Type II
411013	Starter Fault Type III
411014	Transition Complete Input Shorted
411015	Phase Loss
411016	Phase Reversal
411017	Severe Current Imbalance
411018	Power Loss
411019	Momentary Power Loss
411020	Motor Current Overload
411021	Compressor Did Not Accelerate: Shutdown
411022	Compressor Did Not Accel: Transition
411023	Transition Complete Input Opened
411024	Starter Module Memory Error Type 1

Diagnostic Code (decimal)	Diagnostic Name
411025	Starter Module Memory Error Type 2
411026	Starter Dry Run Test
411030	Starter Did Not Fully Accelerate
411032	Starter Contactor Interrupt Failure
411083	Comm Loss: AFD Run Command
411087	Comm Loss: Speed Command
411088	AFD Fault
411089	AFD Current Overload
411090	Comm Loss: Motor RLA Input
411091	Motor 2A RLA Input
411092	Comm Loss: AFD Fault Input
411093	AFD Motor Fault
411095	AFD High Pressure Cutout
411097	AFD Bump Complete
411098	AFD Bump Current High
411099	AFD Pump Out Speed Low
411100	AFD Unhandled Fault
411101	AFD Harmonic Filter Over Temperature
411102	AFD Failure to Arm or Start
411103	AFD Unexpected Shutdown
411105	AFD Motor Speed Too Low
411106	AFD Motor Speed Too High
411107	AFD Fault Mains
412001	Starter Failed to Arm/Start
412002	Comm Loss: Starter
412003	AFD Comm Loss
412005	Unexpected Starter Shutdown
412007	AFD Interrupt Failure
412009	Starter Did Not Transition
412010	Starter Comm Loss: Main Processor
412011	Starter Fault Type I
412012	Starter Fault Type II
412013	Starter Fault Type III
412014	Transition Complete Input Shorted
412015	Phase Loss

Diagnostic Code (decimal)	Diagnostic Name
412016	Phase Reversal
412017	Severe Current Imbalance
412018	Power Loss
412020	Motor Current Overload
412021	Compressor Did Not Accelerate: Shutdown
412022	Compressor Did Not Accel Transition
412023	Transition Complete Input Opened
412024	Starter Module Memory Error Type 1
412025	Starter Module Memory Error Type 2
412026	Starter Dry Run Test
412032	Starter Contactor Interrupt Failure
412087	Comm Loss: Speed Command
412088	AFD Fault
412089	AFD Motor Current Overload
412090	Comm Loss: Motor RLA Input
412091	Motor 2B RLA Input
412092	Comm Loss: AFD Fault Input
412102	AFD Failure to Arm or Start
412107	AFD Fault Mains
441001	Evap Pump 1 Output Comm Loss
441002	Evap Pump 2 Output Comm Loss
441003	Flow Loss Evap Pump 1
441004	Flow Loss Evap Pump 2
441005	Flow Overdue Evap Pump 1
441006	Flow Overdue Evap Pump 2
441007	Evap Pump 1 Fault
441008	Evap Pump 2 Fault
441009	Comm Loss: Evaporator Pump 1 Fault Input
441010	Comm Loss: Evaporator Pump 2 Fault Input
441023	Evap Pump Inverter 1 Run Command Comm Loss
441024	Evap Pump Inverter 1 Frequency Feedback Comm Loss
441025	Evap Pump Inverter 1 Fault Input Comm Loss
441026	Evap Pump 1 Starts Run time Written
441027	Evap Pump 2 Starts Run time Written
451001	EXV Pressure Equalization Failed

Diagnostic Code (decimal)	Diagnostic Name
452001	EXV Pressure Equalization Failed
481001	Comm Loss: Heat Recovery Entering Water Temperature
481002	Heat Recovery Entering Water Temperature Sensor
481003	Comm Loss: Heat Recovery Leaving Water Temperature
481004	Heat Recovery Leaving Water Temperature Sensor
481005	Comm Loss: Heat Recovery Water Flow Switch
481006	Comm Loss: External Heat Recovery Command
481007	Comm Loss: External Heat Recovery Setpoint
481008	External Heat Recovery Setpoint
481009	Comm Loss: Heat Recovery Water Flow Cmd
481010	Comm Loss: Heat Recovery Water Pump Relay
481011	Comm Loss: Heat Recovery Mode Valve Command Ckt1
481012	Comm Loss: Heat Recovery Mode Valve Command Ckt2
481013	Heat Recovery Water Flow Lost
481014	Heat Recovery Water Flow Overdue
491001	Comm Loss: FC Entering Water Temp
491002	FC Entering Water Temp Out of Range
491003	Comm Loss: Free Cooling Valve
491004	Comm Loss: Free Cooling Bypass Valve
491005	Comm Loss: FC Entering Glycol Temp
491006	Free Cooling Entering Glycol Temperature Diag
491007	Comm Loss: FC Leaving Glycol Temp
491008	Free Cooling Leaving Glycol Temperature Diag
491009	Comm Loss: Free Cooling Pump
491010	Low Glycol Temperature
491011	Free Cooling Glycol Temperature Equalization Overdue
491012	Free Cooling Glycol Flow Overdue
491013	Comm Loss: Free Cooling Glycol Flow Switch
491015	Comm Loss: Free Cooling Glycol Pressure
491016	Free Cooling Glycol Pressure Diagnostic
491017	Low Glycol Pressure Free Cooling
491018	Comm Loss: Free Cooling Glycol Pump Fault
491019	Free Cooling Pump Glycol Fault
491020	Free Cooling Glycol Flow Lost