



Report #: Bhanu Jogi 3.577488944

Job Number -

Job #: 12345

Customer Ord.: -

Serial number G21G02496 Uni. RTAG

Building name	SYNGENE INNOPOLIS			Customer company	SYNGENE INNOPOLIS		
Building addr.	Kolthur Village, Shameerpet Mandal, Medchal Dist			Customer Nr	NA		
Building city	Shameerpet			Job completed?	Yes		
Building #	XXXX			Must produce a quotation?	No		
Risk Evaluation	Extra PPE required (specify which ones)			Ergonomic (lifting, position, constrains)	Average		
	-			Fall	Average		
				Confined spaces	Average		
Reason of call				Start the unit			
Unit & plant status on tech arrival				Unit Stopped			
Unit & plant status on tech leaving				Unit Running			

Job description

First Start-Up according to the manufacturer's instructions. The detailed description of activities and related results are described in annex, where you can find the technical advice provided by Trane, which you must follow carefully for a safe, reliable and profitable use of your machine.

Technician name	Date	Trav. Start	Job start	Job end	Travel end	Pause	Job & travel	Travel mil.	Overnight
Bhanu Jogi	27-02-22	9:00	10:30	19:30	21:00	0:15	11:45	95	No
	05-03-22	9:00	10:30	15:00	16:30	0:15	7:15	95	No
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Subtotal e totale ore				Bhanu Jogi		19:00	19:00		
				-					
				-					

Unit starts & Unit run hour

Starts	Cmpr A	Cmpr B	Cmpr C	Cmpr D	Cmpr E	Cmpr F
Hours	-	-	-	-	-	-

Conclusions:

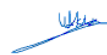
Installation is acceptable, unit can be started without any reserve.

Suggested repair / upgrading

Reported to the site, we did the pre-commissioning activity. Fixing the Evaporator water flow switch and laying of flow switch control cable. Power ON the Chiller, after oil heating. Charged the Refrigerant as per name plate. Started the Chiller and observed the parameters found working in normal. Please maintain water quality as per standards


Bhanu Jogi

05-03-22


Mr. Akhil MEP



TRACER™ TU



Saturday, March 05, 2022
06:54:25 PM IST

Chiller Service Report

Prepared for: Syngene Innopolis

Technician: Bhanu Chandra
Chiller Name: RTAG 400
Model Number: RTAG4006CA0H0CSNSFF
NL1STXXXEB0XPRY0T2AN IXN
Serial Number: G21G02496
Job Name: Syngene Innopolis
Work Order Number:
Location: Turkapally
Sales Office Name:
Sales Order Number: 63I779BA
Sales Office Address:
Sales Office Phone Number:
Customer Name:
Customer Address:
Customer Phone Number:



Notes:

Chiller Status

Chiller Modes

Top Level Mode	Running	Sub Level Mode 4
Sub Level Mode 1	Chilled Water Control	Sub Level Mode 5
Sub Level Mode 2		Sub Level Mode 6
Sub Level Mode 3		

Circuit 1 Modes

Top Level Mode Ckt1	Running	Sub Level Mode 4 Ckt1
Sub Level Mode 1 Ckt1		Sub Level Mode 5 Ckt1
Sub Level Mode 2 Ckt1		Sub Level Mode 6 Ckt1
Sub Level Mode 3 Ckt1		

Circuit 2 Modes

Top Level Mode Ckt2	Running	Sub Level Mode 4 Ckt2
Sub Level Mode 1 Ckt2		Sub Level Mode 5 Ckt2
Sub Level Mode 2 Ckt2		Sub Level Mode 6 Ckt2
Sub Level Mode 3 Ckt2		

Compressor 1A Mode

Top Level Mode Cprsr1A	Auto	Sub Level Mode 4 Cprsr1A
Sub Level Mode 1 Cprsr1A		Sub Level Mode 5 Cprsr1A
Sub Level Mode 2 Cprsr1A		Sub Level Mode 6 Cprsr1A
Sub Level Mode 3 Cprsr1A		

Compressor 1B Mode

Top Level Mode Cprsr1B	Running	Sub Level Mode 4 Cprsr1B
Sub Level Mode 1 Cprsr1B		Sub Level Mode 5 Cprsr1B
Sub Level Mode 2 Cprsr1B		Sub Level Mode 6 Cprsr1B
Sub Level Mode 3 Cprsr1B		

Compressor 2A Mode

Top Level Mode Cprsr2A	Auto	Sub Level Mode 4 Cprsr2A
Sub Level Mode 1 Cprsr2A		Sub Level Mode 5 Cprsr2A
Sub Level Mode 2 Cprsr2A		Sub Level Mode 6 Cprsr2A
Sub Level Mode 3 Cprsr2A		

Compressor 2B Mode

Top Level Mode Cprsr2B	Running	Sub Level Mode 4 Cprsr2B
Sub Level Mode 1 Cprsr2B		Sub Level Mode 5 Cprsr2B
Sub Level Mode 2 Cprsr2B		Sub Level Mode 6 Cprsr2B
Sub Level Mode 3 Cprsr2B		

Diagnostic Modes

Chiller Mode at Time of Last Diagnostic	Submode 4 at Last Diagnostic Ckt1
Chiller Sub Mode 1 at Time of Last Diag	Submode 5 at Last Diagnostic Ckt1
Chiller Sub Mode 2 at Time of Last Diag	Submode 6 at Last Diagnostic Ckt1
Chiller Sub Mode 3 at Time of Last Diag	Top Level Mode at Last Diagnostic Ckt2
Chiller Sub Mode 4 at Time of Last Diag	Submode 1 at Last Diagnostic Ckt2
Chiller Sub Mode 5 at Time of Last Diag	Submode 2 at Last Diagnostic Ckt2
Chiller Sub Mode 6 at Time of Last	Submode 3 at Last Diagnostic Ckt2

Diag	
Top Level Mode at Last Diagnostic Ckt1	Submode 4 at Last Diagnostic Ckt2
Submode 1 at Last Diagnostic Ckt1	Submode 5 at Last Diagnostic Ckt2
Submode 2 at Last Diagnostic Ckt1	Submode 6 at Last Diagnostic Ckt2
Submode 3 at Last Diagnostic Ckt1	

Chiller

Active Chilled Water Setpoint	41	°F	Evap Water Pump 1 Service Time Remaining	19995	Hr
Active Chilled Water Setpoint Source	Front Panel		Evaporator Entering Water Temperature	49.7	°F
Active Demand Limit Setpoint	120	%	Evaporator Leaving Water Temperature	43.4	°F
Active Demand Limit Setpoint Source	Front Panel		Evaporator Pump Command: Unit Off	Off	
Actual Degrees of Chilled Water Reset	0	°F	Evaporator Pump Command: Unit On	False	
Actual Evap Pool Temp Correction Ckt1	-0.2	°F	Evaporator Pump Off Delay Timer	00:00	Min:Sec
Actual Evap Pool Temp Correction Ckt2	-0.2	°F	Evaporator Water Pump Command Pump 1	On	
Arbitrated Chilled Water Setpoint	41	°F	Evaporator Water Pump Command	On	
BAS Interface	Not Installed		Evaporator Water Pump Running Time Pump 1	04:04	Hr:Min
Chilled Water Softload Target	41.4	°F	Front Panel Chilled Water Setpoint	41	°F
Chiller Last Service	08/07/2021	12:29:54 AM	Front Panel Demand Limit Setpoint	120	%
Chiller Load Command	15.6	%	Leaving Water Temp Lead Filter Multiplier	1.5	
Chiller Running Time	02:09	Hr:Min	Low Evaporator Water Temp Cutout	36	°F
Chiller Service Time Remaining	5997	Hr	Max Restart Time Remaining	0	
Cooling Low Ambient Lockout	Disable		Maximum Capacity Relay	Inactive	
Cooling Low Ambient Lockout Temperature	14	°F	Outdoor Air Temperature	82.8	°F
Cooling Modulation Command	1.0		Power Up Delay Inhibit:	00:00	Min:Sec
Cooling Staging Accumulator	58.0		Setpoint Source	Front Panel	
Demand Limit Softloading Target	120	%	Unit Running Status	On	
Desired Degrees of Reset	0	°F	Unit Running Powered Indicator	On	
Evaporator Water Flow Status	Flow		Variable Flow Filtered Result	16.4	°F
Evap Water Pump 1 Last Service	08/07/2021	12:29:44 AM			

Evaporator Circuit 1

Calculated Chiller Capacity Ckt1	86	tons	EXV Maximum Steps Ckt1	6361	steps
Evaporator Approach Temperature Ckt1	0.9	°F	EXV Percent Open Ckt1	29.6	%
Evaporator Refrigerant Pool Temp Ckt1	43.9	°F	EXV Position Steps Ckt1	1881	steps
Evaporator Refrigerant Pressure Ckt1	37.507	psig	Front Panel Circuit Lockout Ckt1	Not Locked Out	
Evaporator Saturated Rfgt Temp Ckt1	42.5	°F	LERTC Integral Ckt1	0.0	
Evap Water Freeze Avoid Request Relay	Open		Oil Return Solenoid Valve Cprsr1A	Closed	
External Circuit Lockout Status Ckt1	-----		Oil Return Solenoid Valve Cprsr1B	Open	
EXV Command (%) Ckt1	29.6	%	Running Indicator Ckt1	On	

EXV Command (steps) Ckt1	1881	steps	Running Powered Indicator Ckt1	On
EXV Flow Coefficient Ckt1	26.2	%	Service Pumpdown Status Ckt1	Inactive
EXV Flow Command Ckt1	0.49			

Evaporator Circuit 2

Calculated Chiller Capacity Ckt2	61	tons	EXV Maximum Steps Ckt2	6361	steps
Evaporator Approach Temperature Ckt2	3.7	°F	EXV Percent Open Ckt2	21	%
Evaporator Refrigerant Pool Temp Ckt2	41.4	°F	EXV Position Steps Ckt2	1338	steps
Evaporator Refrigerant Pressure Ckt2	34.838	psig	Front Panel Circuit Lockout Ckt2	Not Locked Out	
Evaporator Saturated Rfgt Temp Ckt2	39.7	°F	LERTC Integral Ckt2	0.0	
Evap Water Freeze Avoid Request Relay	Open		Oil Return Solenoid Valve Cprsr2A	Closed	
External Circuit Lockout Status Ckt2	-----		Oil Return Solenoid Valve Cprsr2B	Open	
EXV Command (%) Ckt2	21	%	Running Indicator Ckt2	On	
EXV Command (steps) Ckt2	1338	steps	Running Powered Indicator Ckt2	On	
EXV Flow Coefficient Ckt2	18	%	Service Pumpdown Status Ckt2	Inactive	
EXV Flow Command Ckt2	0.35				

Condenser Circuit 1

Air Flow Ckt1	92.6	%	Condenser Saturated Rfgt Temp Ckt1	102.4	°F
Cond Liquid Line Rfgt Saturated Temp Ckt1	98.8	°F	Condenser Subcooling Feedback Flow Fraction Ckt1	0.19	
Condenser Liquid Line Rfgt Pressure Ckt1	121.817	psig	Condenser Temperature Target Ckt1	97	°F
Cond Liquid Line Rfgt Subcooling Ckt1	3.7	°F	Differential Refrigerant Pressure Ckt1	92.03	PSID
Condenser Liquid Line Rfgt Temp Ckt1	95.1	°F	Fan Control Air Flow Goal Ckt1	92.6	%
Condenser Fan Board 1 Relay 1 Ckt1	On		Fan Control Feedforward Flow Estimate Ckt1	60.8	%
Condenser Fan Board 1 Relay 2 Ckt1	On		HPC Limit Boundary	283.824	psig
Condenser Fan Board 1 Relay 3 Ckt1	On		Predicted Condensing Temp Ckt1	102.4	°F
Condenser Fan Board 1 Relay 4 Ckt1	On		Shared Condenser Fan Relay 1	On	
Condenser Refrigerant Pressure Ckt1	129.533	psig	Shared Condenser Fan Relay 2	Off	

Condenser Circuit 2

Air Flow Ckt2	92.6	%	Condenser Saturated Rfgt Temp Ckt2	101.4	°F
Cond Liquid Line Rfgt Saturated Temp Ckt2	99.9	°F	Condenser Subcooling Feedback Flow Fraction Ckt2	0.22	
Condenser Liquid Line Rfgt Pressure Ckt2	124.196	psig	Condenser Temperature Target Ckt2	95.2	°F
Cond Liquid Line Rfgt Subcooling Ckt2	9.5	°F	Differential Refrigerant Pressure Ckt2	92.53	PSID
Condenser Liquid Line Rfgt Temp Ckt2	90.4	°F	Fan Control Air Flow Goal Ckt2	92.6	%
Condenser Fan Board 1 Relay 1 Ckt2	On		Fan Control Feedforward Flow Estimate Ckt2	52.4	%
Condenser Fan Board 1 Relay 2 Ckt2	On		HPC Limit Boundary	283.824	psig

Condenser Fan Board 1 Relay 3 Ckt2	On	Predicted Condensing Temp Ckt2	101.5	°F
Condenser Fan Board 1 Relay 4 Ckt2	On	Shared Condenser Fan Relay 1	On	
Condenser Refrigerant Pressure Ckt2	127.372	psig	Shared Condenser Fan Relay 2	Off

Motor 1A

Average Line Current % RLA Starter 1A	0	%RLA	Motor Current L2 Starter 1A	0	A
Current Limit Setpoint Cprsr1A	120	%RLA	Motor Current L3 % RLA Starter 1A	0	%RLA
Motor Current L1 % RLA Starter 1A	0	%RLA	Motor Current L3 Starter 1A	0	A
Motor Current L1 Starter 1A	0	A	Motor Voltage AB Starter 1A	408	v
Motor Current L2 % RLA Starter 1A	0	%RLA	Restart Inhibit Time Cprsr1A	00:00	Min:Sec

Motor 1B

Average Line Current % RLA Starter 1B	57.9	%RLA	Motor Current L2 Starter 1B	117	A
Current Limit Setpoint Cprsr1B	120	%RLA	Motor Current L3 % RLA Starter 1B	57.1	%RLA
Motor Current L1 % RLA Starter 1B	57.8	%RLA	Motor Current L3 Starter 1B	118	A
Motor Current L1 Starter 1B	117	A	Motor Voltage AB Starter 1B	2	v
Motor Current L2 % RLA Starter 1B	59.7	%RLA	Restart Inhibit Time Cprsr1B	00:00	Min:Sec

Motor 2A

Average Line Current % RLA Starter 2A	0	%RLA	Motor Current L2 Starter 2A	0	A
Current Limit Setpoint Cprsr2A	120	%RLA	Motor Current L3 % RLA Starter 2A	0	%RLA
Motor Current L1 % RLA Starter 2A	0	%RLA	Motor Current L3 Starter 2A	0	A
Motor Current L1 Starter 2A	0	A	Restart Inhibit Time Cprsr2A	00:00	Min:Sec
Motor Current L2 % RLA Starter 2A	0	%RLA	Motor Voltage AB Starter 2A	405	v

Motor 2B

Average Line Current % RLA Starter 2B	46.2	%RLA	Motor Current L2 Starter 2B	95	A
Current Limit Setpoint Cprsr2B	120	%RLA	Motor Current L3 % RLA Starter 2B	46.2	%RLA
Motor Current L1 % RLA Starter 2B	46.1	%RLA	Motor Current L3 Starter 2B	94	A
Motor Current L1 Starter 2B	90	A	Restart Inhibit Time Cprsr2B	00:00	Min:Sec
Motor Current L2 % RLA Starter 2B	45.8	%RLA	Motor Voltage AB Starter 2B	2	v

Compressor 1A

Cool Down Time Cprsr1A	00:00	Min:Sec	Oil Pressure Cprsr1A	38.754	psig
Differential Refrigerant Pressure Ckt1	92.03	PSID	Running Status Cprsr1A	Off	
Differential Rfgr Pressure Cprsr1A	91.68	PSID	Running Time Cprsr1A	00:45	Hr:Min
Discharge Superheat Cprsr1A	-----		Service Pumpdown Status Cprsr1A	Not Available	
Discharge Temperature Cprsr1A	112.3	°F	Service Time Remaining % Cprsr1A	100	%
Last Service Cprsr1A	08/07/2021	12:30:14 AM	Starts Cprsr1A	4	
Mass Flow Cprsr1A	0		Suction Refrigerant Pressure Cprsr1A	38.145	psig
Oil Loss Level Sensor Ckt1	Wet		Tons Cprsr1A	0	tons

Compressor 1B

Cool Down Time Cprsr1B	00:00	Min:Sec	Running Status Cprsr1B	On	
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Differential Rfgt Pressure Cprsr1B	91.72	PSID	Running Time Cprsr1B	00:56	Hr:Min
Discharge Superheat Cprsr1B	16.9	°F	Service Pumpdown Status Cprsr1B	Not Available	
Discharge Temperature Cprsr1B	119.3	°F	Service Time Remaining % Cprsr1B	100	%
Last Service Cprsr1B	08/07/2021	12:36:25 AM	Starts Cprsr1B	4	
Mass Flow Cprsr1B	263.8		Suction Refrigerant Pressure Cprsr1B	37.81	psig
Oil Pressure Cprsr1B	121.687	psig	Tons Cprsr1B	86	tons

Compressor 2A

Cool Down Time Cprsr2A	00:00	Min:Sec	Oil Pressure Cprsr2A	35.447	psig
Differential Refrigerant Pressure Ckt2	92.53	PSID	Running Status Cprsr2A	Off	
Differential Rfgt Pressure Cprsr2A	92.35	PSID	Running Time Cprsr2A	01:00	Hr:Min
Discharge Superheat Cprsr2A	-----		Service Pumpdown Status Cprsr2A	Not Available	
Discharge Temperature Cprsr2A	106	°F	Service Time Remaining % Cprsr2A	100	%
Last Service Cprsr2A	08/07/2021	12:40:35 AM	Starts Cprsr2A	4	
Mass Flow Cprsr2A	0		Suction Refrigerant Pressure Cprsr2A	35.027	psig
Oil Loss Level Sensor Ckt2	Wet		Tons Cprsr2A	0	tons

Compressor 2B

Cool Down Time Cprsr2B	00:00	Min:Sec	Running Status Cprsr2B	On	
Differential Rfgt Pressure Cprsr2B	92.53	PSID	Running Time Cprsr2B	00:51	Hr:Min
Discharge Superheat Cprsr2B	21.5	°F	Service Pumpdown Status Cprsr2B	Not Available	
Discharge Temperature Cprsr2B	122.8	°F	Service Time Remaining % Cprsr2B	100	%
Last Service Cprsr2B	08/07/2021	12:45:15 AM	Starts Cprsr2B	4	
Mass Flow Cprsr2B	183.78		Suction Refrigerant Pressure Cprsr2B	34.838	psig
Oil Pressure Cprsr2B	119.308	psig	Tons Cprsr2B	61	tons

Chiller Setpoints

Chiller Setpoints

Capacity Control Softload Time	900	Sec	Hot Start Threshold Temperature	80	°F
Chilled Water Reset Type	Disable		Local Atmospheric Pressure	14.7	psia
Chiller Service Enable	Enable		Oil Return Limit Enable	Enable	
Chiller Service Interval Setpoint	6000	Hr	Oil Return Valve Minimum On/Off Time	600	Sec
Compressor Service Enable	Enable		Outdoor Air Maximum Reset	5	°F
Compressor Target Trip Setpoint	50	%	Outdoor Air Reset Ratio	10	%
Condenser Pressure Limit Setpoint	90	%	Outdoor Air Start Reset	90	°F
Cooling Design Delta Temp (Waterside)	10	°F	Power-Up Start Delay	0	Sec
Demand Limit Softload Time	600	Sec	Reset Chiller Service Time	No	
Demand Limit Startup Target	40	%	Reset Evap Water Pump 1 Service Time	No	
Differential to Start	4	°F	Return Water Maximum Reset	5	°F
Differential to Stop	1.8	°F	Return Water Reset Ratio	50	%
Evap Flow Overdue Wait Time	1200	Sec	Return Water Start Reset	10	°F
Evap Pool Temp Diagnostic Threshold Ckt1	8	°F	Setpoint Source	Front Panel	
Evap Pool Temp Diagnostic Threshold	8	°F	Stage Off Control Level	-65	%

Ckt2				
Evap Water Pump Service Enable	Enable		Stage On Control Level	65 %
Front Panel Chilled Water Setpoint	41	°F	Staging Sequence	Balanced
Front Panel Demand Limit Setpoint	120	%	Variable Evap Water Flow Compensation	Enable
Head Relief Relay Filter Time	600	Sec	Water Pump Service Interval Setpoint	20000 Hr

Feature Settings

Cooling Low Ambient Lockout	Disable		Low Evaporator Water Temp Cutout	36 °F
Cooling Low Ambient Lockout Temperature	14	°F	Low Refrigerant Temperature Cutout	32 °F
Evaporator Water Pump Off Delay	1	Min	Modulation Integral Time	60 s
High Evaporator Water Temp Cutout	105	°F	Modulation Proportional Gain	0.5
Limit Relay Filter Time	600	Sec	Under/Over Voltage Protection Enable	Enable

Level 4 Gains and Start Sequence

Air Coil Correction	11.88		Low Disch Superheat Trip Setpt Cprsr2B	10 °F
AI Condenser Fan Error Setpoint	2	°F	Low Rfgt Temp Limit Integral Time	30 Sec
AI Condenser Fan Manual Reset Ckt 1	No		Low Rfgt Temp Limit Proportional Gain	5
AI Condenser Fan Manual Reset Ckt 2	No		Low Temp Start Delay Time	120 Sec
Chilled Water Control Feedforward Gain	100		Machine Learning Enable	Disable
Condenser Subcooling Integral Time	240	Sec	Operational Pumpdown Enable	Enable
Condenser Subcooling Proportional Gain	0.05		Restart Inhibit Diagnostic	Disable
Condenser Subcooling Tracking Time	10	Sec	Restart Inhibit Free Starts	3
Control Staging Time	200	Sec	Restart Inhibit Start To Start Time	10 Min
Current Limit Kp	0.5		Saved Evap Pool Temp Correction Ckt1	0 °F
Current Limit Ti	30	s	Saved Evap Pool Temp Correction Ckt2	0 °F
Damping Coefficient	10	%	User Cmd Min Capacity Cprsr1A	Enable
Evap Pump 1 Run time Setpoint	04:04	Hr:Min	User Cmd Min Capacity Cprsr1B	Enable
Evap Pump 1 Starts Count Setpoint	17		User Cmd Min Capacity Cprsr2A	Enable
EXV Pre-Position Hold Time	10	Sec	User Cmd Min Capacity Cprsr2B	Enable
EXV Pre-Position Setpoint	90	%	User Cmd Min Capacity Delay Time Cprsr1A	180 Sec
Fan Control Diff Pressure Setpoint	60.19	PSID	User Cmd Min Capacity Delay Time Cprsr1B	180 Sec
Fan Control Feed Forward Gain	1		User Cmd Min Capacity Delay Time Cprsr2A	180 Sec
HPC Limit Integral Time	30	Sec	User Cmd Min Capacity Delay Time Cprsr2B	180 Sec
HPC Limit Proportional Gain	25		Low Evaporator Water Temperature Offset	4 °F
Low Disch Superheat Trip Setpt Cprsr1A	10	°F	Low Rfgt Temp Restart Inhibit Free Starts	3
Low Disch Superheat Trip Setpt Cprsr1B	10	°F	Low Rfgt Temp Restart Inhibit Start to Start Time	1 Hr
Low Disch Superheat Trip Setpt Cprsr2A	10	°F	Always Perform Op Pumpdown Setpoint	No

Circuit 1

Reset Service Time Cprsr1A	No	Reset Service Time Cprsr1B	No
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Circuit 2

Reset Service Time Cprsr2A	No	Reset Service Time Cprsr2B	No
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Level 4 Timers

Set Cprsr1A Run Time	00:45	Hr:Min	Set Cprsr2A Run Time	01:00	Hr:Min
Set Cprsr1A Starts	4		Set Cprsr2A Starts	4	
Set Cprsr1B Run Time	00:56	Hr:Min	Set Cprsr2B Run Time	00:51	Hr:Min
Set Cprsr1B Starts	4		Set Cprsr2B Starts	4	

Device List

Condenser Fan Enable, Fixed Speed Board 1, Circuit 1	Liquid Line Temperature, Circuit 1
Condenser Fan Enable, Fixed Speed Board 1, Circuit 2	Liquid Line Temperature, Circuit 2
Condenser Fan Enable, Fixed Speed Board 2, Circuit 1	Liquid Pressure Transducer, Circuit 1
Condenser Fan Enable, Fixed Speed Board 2, Circuit 2	Liquid Pressure Transducer, Circuit 2
Condenser Fan Enable, Shared Fan Deck	Male Unload and Load Outputs, Compressor 1A
Discharge Refrigerant Pressure Transducer, Circuit 1	Male Unload and Load Outputs, Compressor 1B
Discharge Refrigerant Pressure Transducer, Circuit 2	Male Unload and Load Outputs, Compressor 2A
Discharge Temperature Sensor, Compressor 1A	Male Unload and Load Outputs, Compressor 2B
Discharge Temperature Sensor, Compressor 1B	Oil Loss Level Sensor Inputs, Circuits 1 and 2
Discharge Temperature Sensor, Compressor 2A	Oil Pressure Transducer, Compressor 1A
Discharge Temperature Sensor, Compressor 2B	Oil Pressure Transducer, Compressor 1B
Electronic Expansion Valve, Circuit 1	Oil Pressure Transducer, Compressor 2A
Electronic Expansion Valve, Circuit 2	Oil Pressure Transducer, Compressor 2B
Evaporator Entering Water Temperature Sensor	Operating Status Programmable Relays
Evaporator Leaving Water Temperature Sensor	Outdoor Air Temperature Sensor
Evaporator Refrigerant Pool Temperature Sensor, Circuit 1	Starter Module, Compressor 1A
Evaporator Refrigerant Pool Temperature Sensor, Circuit 2	Starter Module, Compressor 1B
Evaporator Water Flow Proving and Noise Setback Inputs	Starter Module, Compressor 2A
Evaporator Water Pump Relays	Starter Module, Compressor 2B
External Auto/Stop and Emergency Stop Feedback Inputs	Suction Refrigerant Pressure Transducer, Compressor 1A
Female Step and Oil Return Line Relays, Compressors 1A and 1B	Suction Refrigerant Pressure Transducer, Compressor 1B
Female Step and Oil Return Line Relays, Compressors 2A and 2B	Suction Refrigerant Pressure Transducer, Compressor 2A
High Pressure Cutout Inputs, Compressors 1A and 1B	Suction Refrigerant Pressure Transducer, Compressor 2B
High Pressure Cutout Inputs, Compressors 2A and 2B	

Alarms and Events

Date	Time	Active / Historic	Description	Target	Severity	Persistence
3/5/2022	6:19 PM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
3/5/2022	6:19 PM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit	Chiller	Warning	Nonlatching

			Off			
3/5/2022	6:19 PM	Historic	Starter Comm Loss: Main Processor - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	6:19 PM	Historic	Starter Comm Loss: Main Processor - 2A	Compressor 2A	Immediate Shutdown	Latching
3/5/2022	6:19 PM	Historic	Starter Comm Loss: Main Processor - 1B	Compressor 1B	Immediate Shutdown	Latching
3/5/2022	6:19 PM	Historic	Starter Comm Loss: Main Processor - 1A	Compressor 1A	Immediate Shutdown	Latching
3/5/2022	6:19 PM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
3/5/2022	5:47 PM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
3/5/2022	5:47 PM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
3/5/2022	5:46 PM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
3/5/2022	2:08 PM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
3/5/2022	2:08 PM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
3/5/2022	2:08 PM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
3/5/2022	1:06 PM	Historic	Evaporator Water Flow Overdue	Chiller	Normal Shutdown	Nonlatching
3/5/2022	1:04 PM	Historic	Starter Comm Loss: Main Processor - 1B	Compressor 1B	Immediate Shutdown	Latching
3/5/2022	1:04 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	1:02 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	1:02 PM	Historic	Evaporator Water Flow Overdue	Chiller	Normal Shutdown	Nonlatching
3/5/2022	1:01 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	1:01 PM	Historic	Starter Comm Loss: Main Processor - 1A	Compressor 1A	Immediate Shutdown	Latching
3/5/2022	1:01 PM	Historic	Starter Comm Loss: Main Processor - 1B	Compressor 1B	Immediate Shutdown	Latching
3/5/2022	1:01 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
3/5/2022	1:01 PM	Historic	Comm Loss: Condenser Rfgt Pressure	Circuit 2	Immediate Shutdown	Latching
3/5/2022	1:01 PM	Historic	Comm Loss: Evap Rfgt Pool Temp	Circuit 2	Warning	Latching
3/5/2022	1:01 PM	Historic	Comm Loss: Liquid Line Pressure	Circuit 2	Normal Shutdown	Latching
3/5/2022	1:01 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
3/5/2022	1:01 PM	Historic	Comm Loss: Oil Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	1:01 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2B	Compressor 2B	Normal Shutdown	Latching
3/5/2022	1:01 PM	Historic	Comm Loss: Suction Rfgt Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	1:01 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2A	Compressor 2A	Normal Shutdown	Latching
3/5/2022	12:58 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:58 PM	Historic	Comm Loss: Condenser Rfgt Pressure	Circuit 2	Immediate Shutdown	Latching

3/5/2022	12:58 PM	Historic	Comm Loss: Evap Rfgt Pool Temp	Circuit 2	Warning	Latching
3/5/2022	12:58 PM	Historic	Comm Loss: Liquid Line Pressure	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:58 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:58 PM	Historic	Comm Loss: Oil Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:58 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2B	Compressor 2B	Normal Shutdown	Latching
3/5/2022	12:58 PM	Historic	Comm Loss: Suction Rfgt Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:58 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2A	Compressor 2A	Normal Shutdown	Latching
3/5/2022	12:57 PM	Historic	Starter Comm Loss: Main Processor - 2A	Compressor 2A	Immediate Shutdown	Latching
3/5/2022	12:57 PM	Historic	Starter Comm Loss: Main Processor - 1A	Compressor 1A	Immediate Shutdown	Latching
3/5/2022	12:57 PM	Historic	Starter Comm Loss: Main Processor - 1B	Compressor 1B	Immediate Shutdown	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Condenser Rfgt Pressure	Circuit 2	Immediate Shutdown	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Evap Rfgt Pool Temp	Circuit 2	Warning	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Liquid Line Pressure	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Oil Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2B	Compressor 2B	Normal Shutdown	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Suction Rfgt Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:57 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2A	Compressor 2A	Normal Shutdown	Latching
3/5/2022	12:10 PM	Historic	Evaporator Water Flow Overdue	Chiller	Normal Shutdown	Nonlatching
3/5/2022	12:05 PM	Historic	Very Low Evap Rfgt Pressure - 2B	Chiller	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Oil Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2B	Compressor 2B	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Suction Rfgt Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2A	Compressor 2A	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Condenser Rfgt Pressure	Circuit 2	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Evap Rfgt Pool Temp	Circuit 2	Warning	Latching

3/5/2022	12:05 PM	Historic	Comm Loss: Liquid Line Pressure	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Oil Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2B	Compressor 2B	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Suction Rfgt Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2A	Compressor 2A	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
3/5/2022	12:05 PM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
3/5/2022	12:05 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2B	Compressor 2B	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Oil Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Suction Rfgt Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2A	Compressor 2A	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Evap Rfgt Pool Temp	Circuit 2	Warning	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Liquid Line Pressure	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
3/5/2022	12:05 PM	Historic	Comm Loss: Condenser Rfgt Pressure	Circuit 2	Immediate Shutdown	Latching
3/5/2022	12:05 PM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
2/26/2022	1:12 PM	Historic	Evaporator Water Flow Overdue	Chiller	Normal Shutdown	Nonlatching
2/26/2022	7:34 AM	Historic	Starter Comm Loss: Main Processor - 1B	Compressor 1B	Immediate Shutdown	Latching
2/26/2022	7:34 AM	Historic	Starter Comm Loss: Main Processor - 1A	Compressor 1A	Immediate Shutdown	Latching
2/26/2022	7:34 AM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
2/26/2022	7:34 AM	Historic	Comm Loss: Condenser Rfgt Pressure	Circuit 2	Immediate Shutdown	Latching
2/26/2022	7:34 AM	Historic	Comm Loss: Evap Rfgt Pool Temp	Circuit 2	Warning	Latching
2/26/2022	7:34 AM	Historic	Comm Loss: Liquid Line Pressure	Circuit 2	Normal Shutdown	Latching
2/26/2022	7:34 AM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
2/26/2022	7:34 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
2/26/2022	7:34 AM	Historic	Comm Loss: Oil Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching

2/26/2022	7:34 AM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2B	Compressor 2B	Normal Shutdown	Latching
2/26/2022	7:34 AM	Historic	Comm Loss: Suction Rfgt Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
2/26/2022	7:34 AM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2A	Compressor 2A	Normal Shutdown	Latching
2/26/2022	7:33 AM	Historic	Evaporator Water Flow Overdue	Chiller	Normal Shutdown	Nonlatching
2/26/2022	7:29 AM	Historic	Very Low Evap Rfgt Pressure - 2B	Chiller	Immediate Shutdown	Latching
2/26/2022	7:29 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
2/26/2022	7:29 AM	Historic	Comm Loss: Oil Pressure - 2B	Compressor 2B	Immediate Shutdown	Latching
2/26/2022	7:29 AM	Historic	Comm Loss: Cprsr Disch Rfgt Temp - 2B	Compressor 2B	Normal Shutdown	Latching

Tracer TU Configuration

Version	Version - 11.4.40
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PC Environment

Operating System	Microsoft Windows 10 Enterprise
System Architecture	x64
Operating System Version	6.2

TU Display Units

Unit System	Inch-Pound
Pressure Units	psi

Date and Time

Time Format	12-Hour
Date Format	MMDDYYYY
Date Separator	Slash (/)
Date and Time	03/05/2022 06:54:51 PM

Protocol

Protocol	Not Installed
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Chiller Configuration Controller

Connected To	Local USB	Build Part Number	6200-0689-4.03
Firmware Version	4.03	Boot Part Number	6200-0446-1.00
Application Part Number	6200-0688-4.02	Unit Sales Order Number	63I779BA
Hardware Serial Number	1212600049	Unit Model Number	RTAG4006CA 0H0CSNSFFN L1STXXEB0 XPRY0T2ANI XN
Hardware Part Number	X13651144-01	Unit Serial Number	G21G02496

UC800

Unit Model (MODL)	RTAG	Starter Type Compressor 1A/2A	Wye-Delta Closed Transition
Efficiency Unit Type (UNTY)	High Efficiency	Condenser Fan Control Type	All Fixed Speed
Chiller Sound Package	Standard	Refrigerant Type	R134a
Unit Application (UAPP)	Standard Ambient	Number Of Fans Ckt1	9

Evaporator Application (EVLt)	Standard	Number Of Fans Ckt2	9
High Pressure Cutout Reference	2172	kPa	

Options

Freeze Protection	None	Evaporator Pump Control	Single Pump Fixed Speed
BAS Communication/Local Time of Day Schedule(COMM)	Not Installed	Free Cooling	No Free Cooling
Energy Meter	Not Installed	Line Voltage Sensing Option	Under/Over Voltage
External Circuit Lockout	Not Installed	Economizer	Not Installed
External Setpoint Package	Not Installed	Low Temp Startup with Valves	Not Installed
Generic Monitoring Package	Not Installed	Rapid Start	Disable
Heat Recovery	No Heat Recovery	Evaporator Oil Return Purge Solenoid Valve	Not Installed
Variable Primary Flow	No Variable Primary Flow		

Options Setup

EXV Selection Circuit 1	SEHI-400 (X13650736____, 130 or greater)	Programmable Status Relay 3 (J2-7,8,9)	Compressor Running
EXV Selection Circuit 2	SEHI-400 (X13650736____, 130 or greater)	Programmable Status Relay 4 (J2-10,11,12)	Latching Alarm
Programmable Status Relay 1 (J2-1,2,3)	Evaporator Freeze Avoidance Request	Evaporator Pump Fault Input	Not Installed
Programmable Status Relay 2 (J2-4,5,6)	Maximum Capacity	Nominal Line Voltage	400 Voltage

Design

Manufacturing Location	Taicang	Nominal Tons (NTON)	400
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Compressor 1A

Compressor 1A Nameplate Frequency, Volt	50Hz, 400V	Compressor 1A Contactor Integrity Test	Enable
Compressor 1A Frame Size	N6	Compressor 1A Phase Reversal Protection	Enable
Compressor 1A Rated Load Amps	203	Amps	Compressor 1A Current Imbalance Trip Point 30 %
Compressor 1A Current Transformer Meter Scale	275	Compressor 1A Current Imbalance Grace Period	90 Seconds

Compressor 2A

Compressor 2A Nameplate Frequency, Volt	50Hz, 400V	Compressor 2A Contactor Integrity Test	Enable
Compressor 2A Frame Size	N6	Compressor 2A Phase Reversal Protection	Enable
Compressor 2A Rated Load Amps	203	Amps	Compressor 2A Current Imbalance Trip Point 30 %
Compressor 2A Current Transformer Meter Scale	275	Compressor 2A Current Imbalance Grace Period	90 Seconds

Compressor 1B

Compressor 1B Nameplate Frequency, Volt	50Hz, 400V	Compressor 1B Contactor Integrity Test	Enable
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Compressor 1B Frame Size	N6		Compressor 1B Phase Reversal Protection	Enable	
Compressor 1B Rated Load Amps	203	Amps	Compressor 1B Current Imbalance Trip Point	30	%
Compressor 1B Current Transformer Meter Scale	275		Compressor 1B Current Imbalance Grace Period	90	Seconds

Compressor 2B

Compressor 2B Nameplate Frequency, Volt	50Hz, 400V		Compressor 2B Contactor Integrity Test	Enable	
Compressor 2B Frame Size	N6		Compressor 2B Phase Reversal Protection	Enable	
Compressor 2B Rated Load Amps	203	Amps	Compressor 2B Current Imbalance Trip Point	30	%
Compressor 2B Current Transformer Meter Scale	275		Compressor 2B Current Imbalance Grace Period	90	Seconds

Signed: _____

Date: _____

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