



Report #: Sadashiva Srinivasa 3.577255764

Job Number -

Job #: 631779

Customer Ord.: -

Serial number G21G02495 Uni. RTAG

Building name	Innopolis	Customer company	Innopolis
Building addr.	Shameerphet	Customer Nr	NA
Building city	Hyderabad	Job completed?	Yes
Building #	XXX	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
Sadashiva Srinivasa	6/3/2022	9:00	11:00	18:00	19:30	0:30	10:00	140	No
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Subtotal e totale ore				Sadashiva Srinivasa		10:00	10:00		
				-					
				-					

Unit starts & Unit run hour

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

Conclusions:

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

Suggested repair / upgrading

Visited site, checked chiller physical condition, installation and level found acceptable. Checked chiller electrical connection found ok. Fixed flow switch and done the cabling. Checked electrical panel and done the panel cleaning. Power up the chiller, checked phase sequence and volts found ok. Checked and found motor megger value acceptable. Afeter establishing water through evaporator done the refrigerant charge as per name plate. Then Started chiller, checked all parameter readings found Satisfactory.


Sadashiva Srinivasa

6/3/2022


Mr Akhil Murthy/ Position 1



TRACER™ TU



Friday, June 03, 2022 04:59:13 PM
IST

Chiller Service Report

Prepared for: **Innopolis**

Technician:	Sadashiva
Chiller Name:	RTAG
Model Number:	RTAG4006CA0H0CSNSFFNL1STXXEB0XPRY0T2ANIXN
Serial Number:	G21G02495
Job Name:	Innopolis
Work Order Number:	
Location:	Hyderabad
Sales Office Name:	
Sales Order Number:	63I779AA
Sales Office Address:	
Sales Office Phone Number:	
Customer Name:	
Customer Address:	
Customer Phone Number:	



Notes:

Chiller Status

Chiller Modes

Top Level Mode	Running - Limit	Sub Level Mode 4
Sub Level Mode 1	Maximum Capacity	Sub Level Mode 5
Sub Level Mode 2	Demand Limit	Sub Level Mode 6
Sub Level Mode 3	Chilled Water Control	

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	Running	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	Running	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 3 Cprsr2B

Diagnostic Modes

Chiller Mode at Time of Last Diagnostic

Chiller Sub Mode 1 at Time of Last Diag

Chiller Sub Mode 2 at Time of Last Diag

Chiller Sub Mode 3 at Time of Last Diag

Chiller Sub Mode 4 at Time of Last Diag

Chiller Sub Mode 5 at Time of Last Diag

Chiller Sub Mode 6 at Time of Last Diag

Top Level Mode at Last Diagnostic Ckt1

Submode 1 at Last Diagnostic Ckt1

Submode 2 at Last Diagnostic Ckt1

Submode 3 at Last Diagnostic Ckt1

Chiller

Active Chilled Water Setpoint

44 °F

Active Chilled Water Setpoint Source

Front Panel

Active Demand Limit Setpoint

120 %

Active Demand Limit Setpoint Source

Front Panel

Actual Degrees of Chilled Water Reset

0 °F

Actual Evap Pool Temp Correction Ckt1

-0.7 °F

Actual Evap Pool Temp Correction Ckt2

-0.4 °F

Arbitrated Chilled Water Setpoint

44 °F

BAS Interface

Not Installed

Chilled Water Softload Target

44 °F

Chiller Last Service

08/06/2021 05:52:28 AM

Chiller Load Command

90.5 %

Chiller Running Time

01:55 Hr:Min

Chiller Service Time Remaining

5998 Hr

Cooling Low Ambient Lockout

Disable

Cooling Low Ambient Lockout Temperature

14 °F

Cooling Modulation Command

1.3

Cooling Staging Accumulator

120.6

Demand Limit Softloading Target

120 %

Desired Degrees of Reset

0 °F

Evaporator Water Flow Status

Flow

Evap Water Pump 1 Last Service

08/06/2021 05:45:18 AM**Evaporator Circuit 1**

Calculated Chiller Capacity Ckt1

201 tons

Evaporator Approach Temperature Ckt1

-0.5 °F

Evaporator Refrigerant Pool Temp Ckt1

50.9 °F

Evaporator Refrigerant Pressure Ckt1

44.8 psig

Evaporator Saturated Rfgt Temp Ckt1

49.4 °F

Evap Water Freeze Avoid Request Relay

Open

External Circuit Lockout Status Ckt1

EXV Command (%) Ckt1

48.3 %

EXV Command (steps) Ckt1

3073 steps

EXV Flow Coefficient Ckt1

45 %

EXV Flow Command Ckt1

1.19**Evaporator Circuit 2**

Calculated Chiller Capacity Ckt2

180 tons

Evaporator Approach Temperature Ckt2

5.3 °F

Evaporator Refrigerant Pool Temp Ckt2

45.3 °F

Evaporator Refrigerant Pressure Ckt2

38.6 psig

Evaporator Saturated Rfgt Temp Ckt2

43.5 °F

Evap Water Freeze Avoid Request Relay

Open

External Circuit Lockout Status Ckt2

Sub Level Mode 6 Cprsr2B

Submode 4 at Last Diagnostic Ckt1

Submode 5 at Last Diagnostic Ckt1

Submode 6 at Last Diagnostic Ckt1

Top Level Mode at Last Diagnostic Ckt2

Submode 1 at Last Diagnostic Ckt2

Submode 2 at Last Diagnostic Ckt2

Submode 3 at Last Diagnostic Ckt2

Submode 4 at Last Diagnostic Ckt2

Submode 5 at Last Diagnostic Ckt2

Submode 6 at Last Diagnostic Ckt2

Evap Water Pump 1 Service Time Remaining

19997 Hr

Evaporator Entering Water Temperature

63.1 °F

Evaporator Leaving Water Temperature

48.8 °F

Evaporator Pump Command: Unit Off

Off

Evaporator Pump Command: Unit On

False

Evaporator Pump Off Delay Timer

00:00 Min:Sec

Evaporator Water Pump Command Pump 1

On

Evaporator Water Pump Command

On

Evaporator Water Pump Running Time Pump 1

02:39 Hr:Min

Front Panel Chilled Water Setpoint

44 °F

Front Panel Demand Limit Setpoint

120 %

Leaving Water Temp Lead Filter Multiplier

1.5

Low Evaporator Water Temp Cutout

36 °F

Max Restart Time Remaining

0

Maximum Capacity Relay

Active

Outdoor Air Temperature

100.9 °F

Power Up Delay Inhibit:

00:00 Min:Sec

Setpoint Source

Front Panel

Unit Running Status

On

Unit Running Powered Indicator

On

Variable Flow Filtered Result

14.4 °F

EXV Maximum Steps Ckt1

6361 steps

EXV Percent Open Ckt1

48.4 %

EXV Position Steps Ckt1

3077 steps

Front Panel Circuit Lockout Ckt1

Not Locked Out

LERTC Integral Ckt1

0.0

Oil Return Solenoid Valve Cprsr1A

Open

Oil Return Solenoid Valve Cprsr1B

Open

Running Indicator Ckt1

On

Running Powered Indicator Ckt1

On

Service Pumpdown Status Ckt1

Inactive

EXV Maximum Steps Ckt2

6361 steps

EXV Percent Open Ckt2

45 %

EXV Position Steps Ckt2

2861 steps

Front Panel Circuit Lockout Ckt2

Not Locked Out

LERTC Integral Ckt2

0.0

Oil Return Solenoid Valve Cprsr2A

Open

Oil Return Solenoid Valve Cprsr2B

Open

EXV Command (%) Ckt2	44.9 %	Running Indicator Ckt2	On
EXV Command (steps) Ckt2	2857 steps	Running Powered Indicator Ckt2	On
EXV Flow Coefficient Ckt2	41.5 %	Service Pumpdown Status Ckt2	Inactive
EXV Flow Command Ckt2	1.06		
Condenser Circuit 1			
Air Flow Ckt1	100 %	Condenser Saturated Rfgt Temp Ckt1	143.6 °F
Cond Liquid Line Rfgt Saturated Temp Ckt1	137.7 °F	Condenser Subcooling Feedback Flow Fraction Ckt1	0.11
Condenser Liquid Line Rfgt Pressure Ckt1	222.3 psig	Condenser Temperature Target Ckt1	91.6 °F
Cond Liquid Line Rfgt Subcooling Ckt1	20.3 °F	Differential Refrigerant Pressure Ckt1	195.87 PSID
Condenser Liquid Line Rfgt Temp Ckt1	117.3 °F	Fan Control Air Flow Goal Ckt1	100 %
Condenser Fan Board 1 Relay 1 Ckt1	On	Fan Control Feedforward Flow Estimate Ckt1	100 %
Condenser Fan Board 1 Relay 2 Ckt1	On	HPC Limit Boundary	283.8 psig
Condenser Fan Board 1 Relay 3 Ckt1	On	Predicted Condensing Temp Ckt1	143.4 °F
Condenser Fan Board 1 Relay 4 Ckt1	On	Shared Condenser Fan Relay 1	On
Condenser Refrigerant Pressure Ckt1	240.7 psig	Shared Condenser Fan Relay 2	On
Condenser Circuit 2			
Air Flow Ckt2	100 %	Condenser Saturated Rfgt Temp Ckt2	137.7 °F
Cond Liquid Line Rfgt Saturated Temp Ckt2	132.2 °F	Condenser Subcooling Feedback Flow Fraction Ckt2	0.1
Condenser Liquid Line Rfgt Pressure Ckt2	205 psig	Condenser Temperature Target Ckt2	94.6 °F
Cond Liquid Line Rfgt Subcooling Ckt2	15.9 °F	Differential Refrigerant Pressure Ckt2	183.84 PSID
Condenser Liquid Line Rfgt Temp Ckt2	116.2 °F	Fan Control Air Flow Goal Ckt2	100 %
Condenser Fan Board 1 Relay 1 Ckt2	On	Fan Control Feedforward Flow Estimate Ckt2	100 %
Condenser Fan Board 1 Relay 2 Ckt2	On	HPC Limit Boundary	283.8 psig
Condenser Fan Board 1 Relay 3 Ckt2	On	Predicted Condensing Temp Ckt2	137.9 °F
Condenser Fan Board 1 Relay 4 Ckt2	On	Shared Condenser Fan Relay 1	On
Condenser Refrigerant Pressure Ckt2	222.4 psig	Shared Condenser Fan Relay 2	On
Motor 1A			
Average Line Current % RLA Starter 1A	95 %RLA	Motor Current L2 Starter 1A	200 A
Current Limit Setpoint Cprsr1A	120 %RLA	Motor Current L3 % RLA Starter 1A	93.5 %RLA
Motor Current L1 % RLA Starter 1A	92.4 %RLA	Motor Current L3 Starter 1A	189 A
Motor Current L1 Starter 1A	188 A	Restart Inhibit Time Cprsr1A	00:00 Min:Sec
Motor Current L2 % RLA Starter 1A	99.5 %RLA		
Motor 1B			
Average Line Current % RLA Starter 1B	94.2 %RLA	Motor Current L2 Starter 1B	199 A
Current Limit Setpoint Cprsr1B	120 %RLA	Motor Current L3 % RLA Starter 1B	94.3 %RLA
Motor Current L1 % RLA Starter 1B	90.4 %RLA	Motor Current L3 Starter 1B	191 A
Motor Current L1 Starter 1B	183 A	Restart Inhibit Time Cprsr1B	00:00 Min:Sec
Motor Current L2 % RLA Starter 1B	98.2 %RLA		
Motor 2A			
Average Line Current % RLA Starter 2A	88.4 %RLA	Motor Current L2 Starter 2A	187 A
Current Limit Setpoint Cprsr2A	120 %RLA	Motor Current L3 % RLA Starter 2A	87.7 %RLA
Motor Current L1 % RLA Starter 2A	86.2 %RLA	Motor Current L3 Starter 2A	177 A
Motor Current L1 Starter 2A	174 A	Restart Inhibit Time Cprsr2A	00:00 Min:Sec
Motor Current L2 % RLA Starter 2A	92 %RLA		
Motor 2B			
Average Line Current % RLA Starter 2B	87.5 %RLA	Motor Current L2 Starter 2B	184 A
Current Limit Setpoint Cprsr2B	120 %RLA	Motor Current L3 % RLA Starter 2B	87.7 %RLA
Motor Current L1 % RLA Starter 2B	84 %RLA	Motor Current L3 Starter 2B	178 A
Motor Current L1 Starter 2B	171 A	Restart Inhibit Time Cprsr2B	00:00 Min:Sec
Motor Current L2 % RLA Starter 2B	91 %RLA		
Compressor 1A			
Cool Down Time Cprsr1A	00:00 Min:Sec	Oil Pressure Cprsr1A	228 psig
Differential Refrigerant Pressure Ckt1	195.87 PSID	Running Status Cprsr1A	On
Differential Rfgt Pressure Cprsr1A	195.87 PSID	Running Time Cprsr1A	01:24 Hr:Min
Discharge Superheat Cprsr1A	23.8 °F	Service Pumpdown Status Cprsr1A	Not Available
Discharge Temperature Cprsr1A	167.4 °F	Service Time Remaining % Cprsr1A	100 %
Last Service Cprsr1A	08/06/2021 05:52:38 AM	Starts Cprsr1A	3

Mass Flow Cprsr1A	346.52	Suction Refrigerant Pressure Cprsr1A	44.8 psig
Oil Loss Level Sensor Ckt1	Wet	Tons Cprsr1A	101 tons
Compressor 1B			
Cool Down Time Cprsr1B	00:00 Min:Sec	Running Status Cprsr1B	On
Differential Rfght Pressure Cprsr1B	195.87 PSID	Running Time Cprsr1B	01:24 Hr:Min
Discharge Superheat Cprsr1B	24.7 °F	Service Pumpdown Status Cprsr1B	Not Available
Discharge Temperature Cprsr1B	168.2 °F	Service Time Remaining % Cprsr1B	100 %
Last Service Cprsr1B	08/06/2021 05:58:18 AM	Starts Cprsr1B	3
Mass Flow Cprsr1B	342.15	Suction Refrigerant Pressure Cprsr1B	44.8 psig
Oil Pressure Cprsr1B	227.4 psig	Tons Cprsr1B	100 tons

Compressor 2A

Cool Down Time Cprsr2A	00:00 Min:Sec	Oil Pressure Cprsr2A	209.8 psig
Differential Refrigerant Pressure Ckt2	183.84 PSID	Running Status Cprsr2A	On
Differential Rfght Pressure Cprsr2A	183.84 PSID	Running Time Cprsr2A	00:58 Hr:Min
Discharge Superheat Cprsr2A	23.2 °F	Service Pumpdown Status Cprsr2A	Not Available
Discharge Temperature Cprsr2A	161 °F	Service Time Remaining % Cprsr2A	100 %
Last Service Cprsr2A	08/06/2021 06:02:38 AM	Starts Cprsr2A	3
Mass Flow Cprsr2A	312.7	Suction Refrigerant Pressure Cprsr2A	38.6 psig
Oil Loss Level Sensor Ckt2	Wet	Tons Cprsr2A	91 tons

Compressor 2B

Cool Down Time Cprsr2B	00:00 Min:Sec	Running Status Cprsr2B	On
Differential Rfght Pressure Cprsr2B	183.84 PSID	Running Time Cprsr2B	00:57 Hr:Min
Discharge Superheat Cprsr2B	23.3 °F	Service Pumpdown Status Cprsr2B	Not Available
Discharge Temperature Cprsr2B	161 °F	Service Time Remaining % Cprsr2B	100 %
Last Service Cprsr2B	08/06/2021 06:06:28 AM	Starts Cprsr2B	3
Mass Flow Cprsr2B	307.43	Suction Refrigerant Pressure Cprsr2B	38.6 psig
Oil Pressure Cprsr2B	208.8 psig	Tons Cprsr2B	89 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	90 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	5.4 °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 Ckt2	8 °F	Stage Off Control Level	-65 %
Evap Water Pump Service Enable	Enable	Stage On Control Level	65 %
Front Panel Chilled Water Setpoint	44 °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		

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 Rfght 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	-0.6 °F
Current Limit Ti	30 s	Saved Evap Pool Temp Correction Ckt2	-0.1 °F
Damping Coefficient	10 %	User Cmd Min Capacity Cprsr1A	Enable
Evap Pump 1 Run time Setpoint	02:39 Hr:Min	User Cmd Min Capacity Cprsr1B	Enable
Evap Pump 1 Starts Count Setpoint	41	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	01:24 Hr:Min	Set Cprsr2A Run Time	00:58 Hr:Min
Set Cprsr1A Starts	3	Set Cprsr2A Starts	3
Set Cprsr1B Run Time	01:24 Hr:Min	Set Cprsr2B Run Time	00:57 Hr:Min
Set Cprsr1B Starts	3	Set Cprsr2B Starts	3

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
6/3/2022	2:40 AM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
6/3/2022	2:40 AM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
6/3/2022	2:40 AM	Historic	Starter Comm Loss: Main Processor - 2B	Compressor 2B	Immediate Shutdown	Latching
6/3/2022	2:40 AM	Historic	Starter Comm Loss: Main Processor - 2A	Compressor 2A	Immediate Shutdown	Latching
6/3/2022	2:40 AM	Historic	Starter Comm Loss: Main Processor - 1B	Compressor 1B	Immediate Shutdown	Latching
6/3/2022	2:40 AM	Historic	Starter Comm Loss: Main Processor - 1A	Compressor 1A	Immediate Shutdown	Latching
6/3/2022	2:40 AM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
6/3/2022	2:33 AM	Historic	Starter Comm Loss: Main Processor - 1B	Compressor 1B	Immediate Shutdown	Latching
6/3/2022	2:19 AM	Historic	Starter Comm Loss: Main Processor - 1A	Compressor 1A	Immediate Shutdown	Latching
6/3/2022	2:19 AM	Historic	Starter Comm Loss: Main Processor - 2B	Compressor 2B	Immediate Shutdown	Latching
6/3/2022	2:19 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
6/3/2022	1:57 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
6/3/2022	12:45 PM	Historic	Starter Comm Loss: Main Processor - 1A	Compressor 1A	Immediate Shutdown	Latching
6/3/2022	12:45 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
6/3/2022	12:45 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
6/3/2022	12:45 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
6/2/2022	5:41 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
6/2/2022	5:41 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
6/2/2022	5:41 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
6/2/2022	5:41 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
6/2/2022	5:41 PM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
6/2/2022	5:41 PM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
6/2/2022	5:41 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
6/2/2022	5:41 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
6/2/2022	5:41 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
6/2/2022	5:41 PM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
5/31/2022	7:41 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/31/2022	7:41 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/31/2022	7:41 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/31/2022	7:41 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/31/2022	7:41 PM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/31/2022	7:41 PM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
5/31/2022	7:41 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/31/2022	7:41 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/31/2022	7:41 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/31/2022	7:40 PM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
5/27/2022	4:07 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/27/2022	4:07 AM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/27/2022	4:07 AM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/27/2022	4:07 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/27/2022	4:07 AM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/27/2022	4:07 AM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
5/27/2022	4:07 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/27/2022	4:07 AM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/27/2022	4:07 AM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/27/2022	4:06 AM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
5/27/2022	3:44 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/27/2022	3:44 AM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/27/2022	3:44 AM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/27/2022	3:44 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/27/2022	3:44 AM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/27/2022	3:44 AM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
5/27/2022	3:44 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/27/2022	3:44 AM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/27/2022	3:44 AM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/27/2022	3:44 AM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
5/23/2022	2:17 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/23/2022	2:17 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/23/2022	2:17 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/23/2022	2:17 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/23/2022	2:17 PM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/23/2022	2:17 PM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
5/23/2022	2:17 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching

5/23/2022	2:17 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/23/2022	2:17 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/23/2022	2:16 PM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
5/23/2022	2:11 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/23/2022	2:11 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/23/2022	2:11 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/23/2022	2:11 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/23/2022	2:11 PM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/23/2022	2:11 PM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
5/23/2022	2:11 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/23/2022	2:11 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/23/2022	2:11 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/23/2022	2:10 PM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
5/21/2022	11:39 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/21/2022	11:39 AM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/21/2022	11:39 AM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/21/2022	11:39 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/21/2022	11:39 AM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/21/2022	11:39 AM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
5/21/2022	11:39 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/21/2022	11:39 AM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/21/2022	11:39 AM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/21/2022	11:39 AM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
5/21/2022	10:01 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/21/2022	10:01 AM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/21/2022	10:01 AM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/21/2022	10:01 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/21/2022	10:01 AM	Historic	Low Evaporator Rfgt Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/21/2022	10:01 AM	Historic	Low Evaporator Rfgt Temp Ckt 1: Unit Off	Chiller	Warning	Nonlatching
5/21/2022	10:01 AM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/21/2022	10:01 AM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/21/2022	10:01 AM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/21/2022	10:01 AM	Historic	MP: Reset Has Occurred	Platform	Warning	Nonlatching
5/8/2022	8:10 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching
5/8/2022	8:10 PM	Historic	Comm Loss: Electronic Expansion Valve	Circuit 2	Normal Shutdown	Latching
5/8/2022	8:10 PM	Historic	Comm Loss: Liquid Line Temperature	Circuit 2	Normal Shutdown	Latching
5/8/2022	8:10 PM	Historic	Comm Loss: Starter 2B	Compressor 2B	Immediate Shutdown	Latching

Tracer TU Configuration

Version Version - 11.4.40

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 06/03/2022 04:58:55 AM

Protocol

Protocol Not Installed

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	631779AA
Hardware Serial Number	1212600039	Unit Model Number	RTAG4006CA 0H0CSNSFFN L1STXXEB0 XPRY0T2ANI XN
Hardware Part Number	X13651144-01	Unit Serial Number	G21G02495

UC800

Unit Model (MODL)	RTAG	Starter Type Compressor 1A/2A	Wye-Delta Closed Transition
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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 (EVL T)	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	Not Installed
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		

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
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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