



Technologies India Private Limited
(Formerly known as Ingersoll-Rand Climate Solutions Pvt.Ltd)
302, CSR Estate, Plot No.8
Sector - 1, Huda Techno Enclave
Madhapur, Hyderabad - 500081
Telangana, India

To,

03rd June 22

GVRC Innopolis
Lalgadimalakpet, Village,
Shameerpet Mandal Shameerpet,
Hyderabad 500078

HANDING OVER CERTIFICATE

MODEL	RTAG
ORDER REF	63I779
S.NO.	G21G02495

Thank you for choosing TRANE equipment.

The above equipment has been started and commissioned as per TRANE factory specifications and procedures for this type of chillers on **03th June 2022**

The Pre-commissioning checklist and the chiller service report as downloaded from chiller CH530 are enclosed. The unit is operating satisfactorily as per design specifications.

Ensure that the unit operates within the voltage parameters and maintain design water pressure drop across chiller for efficient and trouble-free operation. The warranty of the equipment will expire on **22nd Feb 2023**

We are confident that our equipment will give you many years of satisfactory service and once again thank you for choosing TRANE.

Thanking you and assuring you of our quality service always.

For **TRANE Technologies India Pvt Ltd**

Authorized signatory



REGD. OFFICE: 8 FLOOR, TOWER D, IBC KNOWLEDGE PARK, NO. 411, BANNERGHATTA MAIN ROAD, BENGALURU - 560029, KARNATAKA, INDIA

TEL: +91.80.6747.6000, FAX: +91.80.2728.7482

CIN: U24233KA1996PTC093425

ALL AGREEMENTS CONTINGENT UPON STRIKES, ACCIDENT AND OTHER CONDITIONS BEYOND OUR CONTROL

ALL CONTRACTS ARE SUBJECT TO APPROVAL BY AN OFFICER OF THE COMPANY, QUOTATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

INWARD	
Inward No: 9678	Dr: 6/8/22
MRN No: 9678	Dr: 6/8/22
Received By: [Signature]	Sign: [Signature]
Genome Valley Research Center Pvt. Ltd.	



Technologies India Private Limited
(Formerly known as Ingersoll-Rand Climate Solutions Pvt.Ltd)
302, CSR Estate, Plot No.8
Sector - 1, Huda Techno Enclave
Madhapur, Hyderabad - 500081
Telangana, India

To,

03rd June 22

GVRC Innopolis
Lalgadimalakpet, Village,
Shameerpet Mandal Shameerpet,
Hyderabad 500078

HANDING OVER CERTIFICATE

MODEL	RTAG
ORDER REF	631779
S.NO.	G21G02496

Thank you for choosing TRANE equipment.

The above equipment has been started and commissioned as per TRANE factory specifications and procedures for this type of chillers on **05th March 2022**

The Pre-commissioning checklist and the chiller service report as downloaded from chiller CH530 are enclosed. The unit is operating satisfactorily as per design specifications.

Ensure that the unit operates within the voltage parameters and maintain design water pressure drop across chiller for efficient and trouble-free operation. The warranty of the equipment will expire on **22nd Feb 2023**

We are confident that our equipment will give you many years of satisfactory service and once again thank you for choosing TRANE.

Thanking you and assuring you of our quality service always.

For **TRANE Technologies India Pvt Ltd**

Authorized signatory.



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INWARD	
Inward No: 678	Date: 6/8/22
MRN No:	Dt:
Received By: [Signature]	Sign: [Signature]
Genome Valley Research Center Pvt. Ltd.	

GV RESEARCH CENTER PVT. LTD

5-4-187/5&4, II floor, MG Road,
Secunderabad - 500 003.
Phone: +91-40-6635551
accounts@modiproperties.com

WORK ORDER

Requisition No.: 163798
Date of WO: 03/09/2020

M/s. Trane Technologies India Ltd,
302, CSR Estates, Plot No.8, Sector -1
Huda Techno Enclave, Madhapur,
Hyderabad - 500 081.
GST: 36AACC59663E1Z4.

Dear Sir,

Sub: Towards Custom Clearance, Transportation, Unloading & Positioning, Installation, Supervision & Commissioning of 2# Air Cooled Screw Chillers of Trane chillers.

Your Ref: Proposal date 28th May 2021 (Trane Ref No: TTipl/GVR/Rev 04).
Your E-mail Date 08th June 2021 & 13th June 2021 on final prices.

Our Ref: LOI Confirmation Reference E-mail Dated: 09th June 2021.

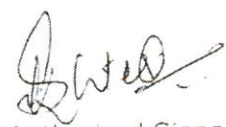
With reference to the proposal & subsequent discussion with you we are pleased to release this Work Order as per mentioned below:

SI No.	Description	Unit/Qty	Rate (INR)	Amount (INR)
1	Customs Clearance, Transportation to Site for 2# 400TR Air Cooled Screw Chillers. Make: TRANE. (HSN: 995463).	2 nos.	97,560	1,95,120
2	Unloading, Positioning, Installation & Commissioning of 2# 400 TR Air Cooled Screw Chillers at Terrace floor. Make: TRANE. (HSN: 995463).	1 LOT	1,95,120	1,95,120
	Sub Total			390,240
	GST @ 18%			70,243
	Total			4,60,483

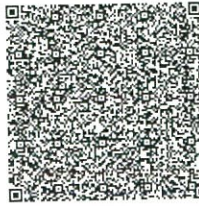
Total: Rs.4,60,483/- (Four Lakhs Sixty Thousand Four Hundred & Eighty Three Only).

Payment Terms: - 100% against prorata completion of works.

For M/s. GV Research Centers Pvt. Ltd.,


Authorized Signatory

INWARD	
Inward No: 9678	Dt: 6/8/21
MRN No:	Dt:
Received By: 	Sign: 
Genome Valley Research Center Pvt. Ltd.	



Ack No.: 112213418330359
Ack Date: 2022-06-25 11:37:00
IRN No.:
a79586954981cf1447fc1c596fa6bc5ec1
786621d47904c169a7750ffa5262d8

Trane Technologies India Private Limited
(Formerly Ingersoll-Rand Climate Solutions Pvt. LTD.)
Survey No. 157,158,159, Kompalli Village
Quthbullapur Mandal, Ranga Reddy Dist,
Secundarabad, TS - 500 014
500014
India
Tel: 9000455099
Email:

PAN No: AACCS9663E
GST No: 36AACCS9663E1Z4
CIN No: U24233KA1996PTC093425
TAN No: MUMS21233C

Invoice: TS-PJ-22231214
Invoice Date: 25-JUN-22

Bill To: Customer Number 952341
GV RESARCH CENTER PVT LTD
5-4-187/3&4, SOHAM MANSION, 2ND
FLOOR, M.
UNDERABAD TS (State Code:36) 500003
India

Ship To: Customer Number 952341
GV RESARCH CENTER PVT LTD
Innopolis, Sy. No. 542, Plot No. 3,
Genome Valley
Kolthur, MEDCHEL-MALKJAGIRI District
KOLTHUR TS (State Code:36) 500078
India

GST No. 36AAHCG4562D1ZP
PAN No. AAHCG4562D

GST No.
PAN No.

Freight Terms

Shipment Date

Payment Terms
Payment Due Dt

PP PER CONTRACT
25-JUL-22

Country Of
Dispatch
Place of Supply

Remittance Instructions
Name & Address of the Bank: Citibank N.A. (Mumbai) 293,
Dr. D.N. Road, Bombay Mutual Building, Fort Mumbai
400001
Bank A/C. No. 0007337019, MICR No. 400 037 002
IFS Code CITI0100000
MUMBAI MH 400001 India

PO Number 163798 DT: 03.09.2020

Line Num	Item/ Customer Part Number	Description/ Serial No	HSN/ SAC Code- Desc.	Order Qty	Ship Qty	UOM	Unit Price (INR)	Amount (INR)	Disc %	Other Charges (INR)	Taxable Amt. (INR)	Tax Name	Tax Amount (INR)
1		Unloading, Positioning, Installation & Commissioning of 2#400 TR Air Cooled Chillers	99546 3 - 99546 3	1	1	EA	195,120.00	195,120.00		0.00	195,120.00	CGST@9% SGST@9%	17,560.80 17,560.80

Special Instructions : Unloading, Positioning, Installation & Commissioning of
2#400 TR Air Cooled Chillers @ Terrace floor

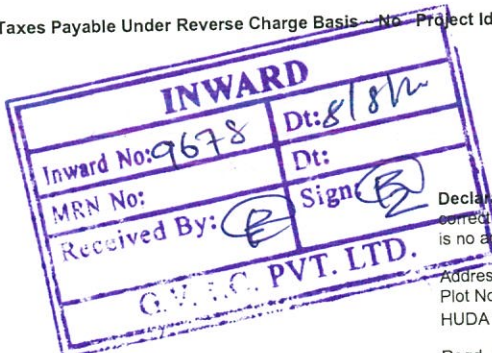
Less Discount 0.00
P & F charges 0.00
Freight 0.00
Insurance
Total Assessable Value 195,120.00
CGST@9% 17560.80
SGST@9% 17560.80

Total items Qty 1.00
No. of Pkgs 0.00

Comments :

Total 230,241.60
Less Advance 0.00
Please Pay(INR) 230,241.60
Advance Cash Receipt Number
Advance Cash Receipt Date

Taxes Payable Under Reverse Charge Basis - No - Project Id: IN-75274



Declaration: Certified that all particulars given above are true and correct amount indicated represents amount actually charged and there is no additional consideration flowing directly or indirectly from buyer

Address for Communication: 302, CSR Estate
Plot No.8, Sector - 1
HUDA Techno Enclave, Madhapur, Hyderabad - 500081

Regd. Office : 8th Floor, Tower D, IBC Knowledge Park, No. 4/1,
Bannerghatta Main Road, Bangalore - 560029

Trane Technologies India Private Limited
Signature valid
Digitally signed by DS TRANE TECHNOLOGIES INDIA PRIVATE LIMITED
Date: 2022.06.27 12:21:16 IST
Authorised Signatory

TRANE
TECHNOLOGIES™



Ack No.: 112213418330359
Ack Date: 2022-06-25 21:37:00
IRN No.:
a79586954981cf1447fc1c596fa6bc5ec1
786621d47904c169a7750ffa5262d8

Trane Technologies India Private Limited
(Formerly Ingersoll-Rand Climate Solutions Pvt. LTD.)
Survey No. 157,158,159, Kompalli Village
Quthbullapur Mandal, Ranga Reddy Dist,
Secundarabad, TS - 500 014
500014
India
Tel: 9000455099
Email:

PAN No: AACCS9663E
GST No: 36AACCS9663E1Z4
CIN No: U24233KA1996PTC093425
TAN No: MUMS21233C

Invoice: TS-PJ-22231214
Invoice Date: 25-JUN-22

Terms and Conditions:

1. Payment should be made by cross and order cheques in favor of the Company or by online transfer to the above mentioned remittance account.
2. Interest @ 18% p.a. will be charged if the payment is not made within the due date as mentioned on the Invoice.
3. Goods are forwarded on account and risks of the buyers.
4. We reserve the rights to ourselves to demand the payment of this bill at any time before the due date.
5. If you find any discrepancy in our supply against this bill such as shortage, rejection etc., it should be intimated to us within seven days from date of receipt of materials at your end.
6. Risks and rewards relating to this sale passes as per the Terms of Delivery printed on the invoice.
7. The courts in Bangalore shall have exclusive jurisdiction over the interpretation on the terms of this invoice.
8. **General Terms and Conditions:** Refer https://www.trane.com/content/dam/Trane/Commercial/ap/india/Trane%20Technologies_India_TC_IRL_TERMS_OF_SALE.pdf for general terms and conditions of sale applicable. It is hereby deemed that you have gone through the terms and conditions of sale provided in the link above and acknowledge the same without any other right or demur.
9. **Indemnity and Liability:** Notwithstanding anything to the contrary in the Purchase Order, the agreement or the invoice the maximum liability for direct damages of the Company, its servants or agents, shall under no circumstances exceed an amount equal to this invoice Price. The Company shall not in any case be liable for loss of profit or special, punitive, exemplary, indirect or consequential losses whatsoever.



Declaration: Certified that all particulars given above are true and correct amount indicated represents amount actually charged and there is no additional consideration flowing directly or indirectly from buyer

Address for Communication: 302, CSR Estate
Plot No.8, Sector - 1
HUDA Techno Enclave, Madhapur, Hyderabad - 500081

Regd. Office : 8th Floor, Tower D, IBC Knowledge Park, No. 4/1,
Bannerghatta Main Road, Bangalore - 560029

Trane Technologies India Private Limited
Signature valid
Digitally signed by DS TRANE TECHNOLOGIES INDIA PRIVATE LIMITED
Date: 2022.06.27 12:21:16 IST
Authorised Signatory

TRANE
TECHNOLOGIES™

Trane Technologies India Private Limited
302, CSR Estate, Plot No.8, Sector - 1
HUDA Techno Enclave, Madhapur
Hyderabad, Telangana 500081
Ph. +91 40 6826 6600
www.trane.com



Report #: Bhanu Jogi 3.570062586

Job Number -

Job #: 12345

Customer Ord.: -

Serial number G21G02496 Uni. RTAG 400

Building name	SYNGENE INNOPOLIS	Customer company	SYNGENE INNOPOLIS
Building addr.	lthuru 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)	High
	-	Fall	High
		Confined spaces	High
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	15:00	16:30	0:15	7:15	95	No
	05-03-22	9:00	10:30	19:30	21:00	0:15	11:45	95	No
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Subtotal e totale ore		Bhanu Jogi		19:00		19:00			

Unit starts & Unit run hour

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

Conclusions:

Installation is only partly acceptable, unit can be started, but Customer have to perform the modifications described in "Installation Remarks"

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.

05-03-22
Bhanu Jogi

05-03-22

INWARD	
Inward No: 9678	Dt: 6/8/22
MRN No:	Dt:
Received By: [Signature]	Sign: [Signature]
No 4/1, Bannerghatta Main Road Bangalore - 560029. Tel: +91 80 6747 6000, Fax: +91 222 8315302, 28315703	
Genome Valley Research Center Pvt. Ltd.	

REGD. OFFICE: IBC Knowledge Park, 8th Floor, Tower D, No 4/1, Bannerghatta Main Road Bangalore - 560029.



Job Number -

Job #: 12345

Customer Ord.: -

Serial number G21G02496 Uni. RTAG 400

Building name	SYNGENE INNOPOLIS	Customer company	SYNGENE INNOPOLIS
Building #	XXXX	Customer Nr	NA

[illegible]

INWARD	
Inward No: 9678	Dt: 6/8/12
MRN No:	Dt:
Received By: R	Sign: R

o 4/1, Bannerghatta Main Road Bangalore - 560029.
 +91 90 6747 6000, Fax: +91 22 28315302 / 28315703

Genome Valley Research Center Pvt. Ltd.

REGD. OFFICE: IBC Knowledge Park, 8th Floor, Tower D, No 4/1, Bannerghatta Main Road Bangalore - 560029.
Tel. +91 80 6747 6000, Fax +91 22 28315302 / 28315700

TRANE



TRACER™



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
NL1STXXEB0XPRY0T2AN IXN
Serial Number: G21G02496
Job Name: Syngene Innopolis
Work Order Number:
Location: Turkapally
Sales Office Name:
Sales Order Number: 631779BA
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

Chiller Service Report

INWARD	
Inward No: 9675	Dt: 6/8/22
MRN No:	Dt:
Received By: [Signature]	Sign: [Signature]
Genome Valley Research Center Pvt. Ltd.	

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

Chiller Service Report

INWARD	
Inward No: 9678	Dt: 6/8/22
MRN No:	Dt:
Received By: 	Sign: 
Genome Valley Research Center Pvt. Ltd.	

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

Submode 4 at Last Diagnostic Ckt2

Submode 5 at Last Diagnostic Ckt2

Submode 6 at Last Diagnostic Ckt2

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 Rfght 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	%	Oil Return Solenoid Valve Cprsr1C	On	

Inward No: 9678		Dt: 6/8/21	
MRN No:		Dt:	
Received By: [Signature]		Sign: [Signature]	
Genome Valley Research Center Pvt. Ltd.			

Chiller Service Report

Page 3

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

Chiller Service Report

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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 Rfgrt 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	Inward No. 1878	6/8/21	-65 %

Setpoint Source	
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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	

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Circuit 1

Reset Service Time Cprsr1A

No

Reset Service Time Cprsr1B

No

Circuit 2

Reset Service Time Cprsr2A

No

Reset Service Time Cprsr2B

No

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

Condenser Fan Enable, Fixed Speed Board 1, Circuit 2

Condenser Fan Enable, Fixed Speed Board 2, Circuit 1

Condenser Fan Enable, Fixed Speed Board 2, Circuit 2

Condenser Fan Enable, Shared Fan Deck

Discharge Refrigerant Pressure Transducer, Circuit 1

Discharge Refrigerant Pressure Transducer, Circuit 2

Discharge Temperature Sensor, Compressor 1A

Discharge Temperature Sensor, Compressor 1B

Discharge Temperature Sensor, Compressor 2A

Discharge Temperature Sensor, Compressor 2B

Electronic Expansion Valve, Circuit 1

Electronic Expansion Valve, Circuit 2

Evaporator Entering Water Temperature Sensor

Evaporator Leaving Water Temperature Sensor

Evaporator Refrigerant Pool Temperature Sensor, Circuit 1

Evaporator Refrigerant Pool Temperature Sensor, Circuit 2

Evaporator Water Flow Proving and Noise Setback Inputs

Evaporator Water Pump Relays

External Auto/Stop and Emergency Stop Feedback Inputs

Female Step and Oil Return Line Relays, Compressors 1A and 1B

Female Step and Oil Return Line Relays, Compressors 2A and 2B

High Pressure Cutout Inputs, Compressors 1A and 1B

High Pressure Cutout Inputs, Compressors 2A and 2B

Liquid Line Temperature, Circuit 1

Liquid Line Temperature, Circuit 2

Liquid Pressure Transducer, Circuit 1

Liquid Pressure Transducer, Circuit 2

Male Unload and Load Outputs, Compressor 1A

Male Unload and Load Outputs, Compressor 1B

Male Unload and Load Outputs, Compressor 2A

Male Unload and Load Outputs, Compressor 2B

Oil Loss Level Sensor Inputs, Circuits 1 and 2

Oil Pressure Transducer, Compressor 1A

Oil Pressure Transducer, Compressor 1B

Oil Pressure Transducer, Compressor 2A

Oil Pressure Transducer, Compressor 2B

Operating Status Programmable Relays

Outdoor Air Temperature Sensor

Starter Module, Compressor 1A

Starter Module, Compressor 1B

Starter Module, Compressor 2A

Starter Module, Compressor 2B

Suction Refrigerant Pressure Transducer, Compressor 1A

Suction Refrigerant Pressure Transducer, Compressor 1B

Suction Refrigerant Pressure Transducer, Compressor 2A

Suction Refrigerant Pressure Transducer, Compressor 2B

Alarms and Events

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

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			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	

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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

Chiller Service Report



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

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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

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

Chiller Configuration

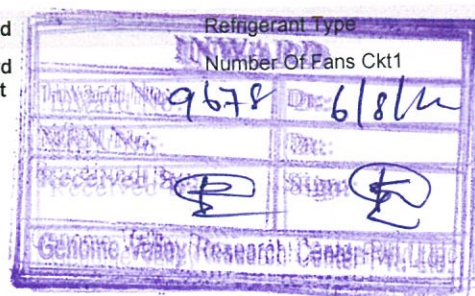
Controller

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	631779BA
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

Chiller Service Report



Evaporator Application (EVLТ)	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
------------------------	---------	---------------------	-----

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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Genome Valley Research Center Pvt. Ltd.	

Trane Technologies India Private Limited
302, CSR Estate, Plot No.8, Sector - 1
HUDA Techno Enclave, Madhapur
Hyderabad, Telangana 500081
Ph. +91 40 6826 6600
www.trane.com



Report #: Sadashiva Srinivasa 3.577255764
Job Number -
Job #: 631779
Customer Ord.: -
Serial number G21G02495 Uni. RTAG

Building name	Innopolis	Customer company	Innopolis
Building addr.	Shameerpet	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

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Genome Valley Research Center Pvt. Ltd.	

APPROVED BY
25 JUL 2022
V. Hamesh Ragdy PROJECT MANAGER

TRANE



Chiller Service Report

Technician:	Sadashiva
Chiller Name:	RTAG
Model Number:	RTAG4006CA0H0CSNSFFNL1STXXXEB0XPRY0T2ANIXN
Serial Number:	G21G02495
Job Name:	Innapolis
Work Order Number:	
Location:	Hyderabad
Sales Office Name:	
Sales Order Number:	631779AA
Sales Office Address:	
Sales Office Phone Number:	
Customer Name:	
Customer Address:	
Customer Phone Number:	

Chiller Status

Chiller Modes

Running - Limit	Sub Level Mode 4
Maximum Capacity	Sub Level Mode 5
Demand Limit	Sub Level Mode 6
Chilled Water Control	

Circuit 1 Modes

Running Sub Level Mode 4 Ckt1
Sub Level Mode 5 Ckt1
Sub Level Mode 6 Ckt1

Circuit 2 Modes

Running	Sub Level Mode 4 Ckt2
	Sub Level Mode 5 Ckt2
	Sub Level Mode 6 Ckt2

Compressor 1A Mode

Running

- Sub Level Mode 4 Cprsr1A
- Sub Level Mode 5 Cprsr1A
- Sub Level Mode 6 Cprsr1A

Compressor 1B Mode

Running Sub Level Mode 4 Cprsr1B
Sub Level Mode 5 Cprsr1B
Sub Level Mode 6 Cprsr1B

Compressor 2A Mode

Running Sub Level Mode 4 Cprsr2A
Sub Level Mode 5 Cprsr2A
Sub Level Mode 6 Cprsr2A

Compressor 2B Mode

Running Sub Level Mode 4 Cprsr2B
Sub Level Mode 4 Cprsr2B

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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

Active Chilled Water Setpoint Source

Active Demand Limit Setpoint

Active Demand Limit Setpoint Source

Actual Degrees of Chilled Water Reset

Actual Evap Pool Temp Correction Ckt1

Actual Evap Pool Temp Correction Ckt2

Arbitrated Chilled Water Setpoint

BAS Interface

Chilled Water Softload Target

Chiller Last Service

Chiller Load Command

Chiller Running Time

Chiller Service Time Remaining

Cooling Low Ambient Lockout

Cooling Low Ambient Lockout Temperature

Cooling Modulation Command

Cooling Staging Accumulator

Demand Limit Softloading Target

Desired Degrees of Reset

Evaporator Water Flow Status

Evap Water Pump 1 Last Service

Evaporator Circuit 1

Calculated Chiller Capacity Ckt1

Evaporator Approach Temperature Ckt1

Evaporator Refrigerant Pool Temp Ckt1

Evaporator Refrigerant Pressure Ckt1

Evaporator Saturated Rfqt Temp Ckt1

Evap Water Freeze Avoid Request Relay

External Circuit Lockout Status Ckt1

EXV Command (%) Ckt1

EXV Command (steps) Ckt1

EXV Flow Coefficient Ckt1

EXV Flow Command Ckt1

Evaporator Circuit 2

Calculated Chiller Capacity Ckt2

Evaporator Approach Temperature Ckt2

Evaporator Refrigerant Pool Temp Ckt2

Evaporator Refrigerant Pressure Ckt2

Evaporator Saturated Rfqt Temp Ckt2

Evap Water Freeze Avoid Request Relay

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

44 °F

Front Panel

120 %

Front Panel

0 °F

-0.7 °F

-0.4 °F

44 °F

Not Installed

44 °F

08/06/2021 05:52:28 AM

90.5 %

01:55 Hr:Min

5998 Hr

Disable

14 °F

1.3

120.6

120 %

0 °F

Flow

08/06/2021 05:45:18 AM

201 tons

-0.5 °F

50.9 °F

44.8 psig

49.4 °F

Open

48.3 %

3073 steps

45 %

1.19

180 tons

5.3 °F

45.3 °F

38.6 psig

43.5 °F

Open

Evap Water Pump 1 Service Time Remaining

Evaporator Entering Water Temperature

Evaporator Leaving Water Temperature

Evaporator Pump Command: Unit Off

Evaporator Pump Command: Unit On

Evaporator Pump Off Delay Timer

Evaporator Water Pump Command Pump 1

Evaporator Water Pump Command

Evaporator Water Pump Running Time Pump 1

Front Panel Chilled Water Setpoint

Front Panel Demand Limit Setpoint

Leaving Water Temp Lead Filter Multiplier

Low Evaporator Water Temp Cutout

Max Restart Time Remaining

Maximum Capacity Relay

Outdoor Air Temperature

Power Up Delay Inhibit:

Setpoint Source

Unit Running Status

Unit Running Powered Indicator

Variable Flow Filtered Result

19997 Hr

63.1 °F

48.8 °F

Off

False

00:00 Min:Sec

On

On

02:39 Hr:Min

44 °F

120 %

1.5

36 °F

0

Active

100.9 °F

00:00 Min:Sec

Front Panel

On

On

14.4 °F

6361 steps

48.4 %

3077 steps

Not Locked Out

0.0

Open

Open

On

On

Inactive

6361 steps

45 %

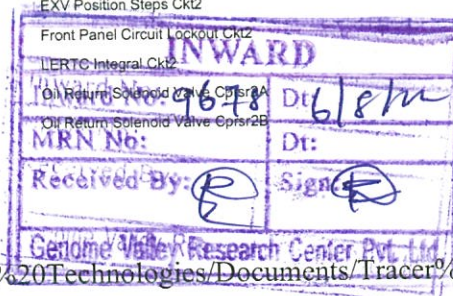
2861 steps

Not Locked Out

0.0

Open

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	

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Chiller Service Report

Page 4 of 8

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

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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
Circuit 2			
Reset Service Time Cprsr2A	No	Reset Service Time Cprsr2B	No
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	
		Suction Refrigerant Pressure Transducer, Compressor 2B	

INWARD	
Laward No: 2678	Dt: 6/8/22
MRN No:	Dt:
Received By: [Signature]	Sign: [Signature]
6/3/2022	
Genome Valley Research Center Pvt. Ltd.	

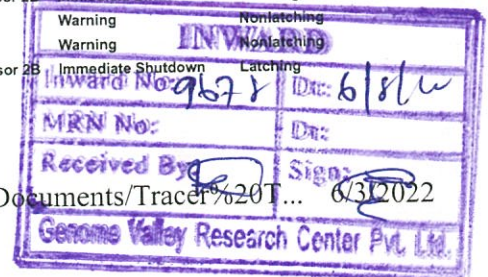
High Pressure Cutout Inputs, Compressors 1A and 1B

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
6/2/2022	5:41 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	7:41 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
5/27/2022	3:44 AM	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 Rfght Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/23/2022	2:11 PM	Historic	Low Evaporator Rfght 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 Rfght Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/21/2022	11:39 AM	Historic	Low Evaporator Rfght 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 Rfght Temp Ckt 2: Unit Off	Chiller	Warning	Nonlatching
5/21/2022	10:01 AM	Historic	Low Evaporator Rfght 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
5/21/2022	10:01 AM	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 0H0CSNFFN L1STXXXEB0 XPRY0T2ANI XN
Hardware Part Number	X13651144-01	Unit Serial Number	G21G02495
UC800			
Unit Model (MODL)	RTAG	Starter Type Compressor 1A/2A	

INWARD	
Inward No: 9678	Dt: 6/8/22
MRN No:	Dt:
Received By: [Signature]	Sign: [Signature]

Wya-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 (EVLTY)	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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