

## CERTIFICATION OF WORK PREVENTIVE MAINTENANCE

(To be completed by the Contractor and saved in the Contractor's CMMS)

FACID/Building: \_\_\_\_\_ Date of Visit: \_\_\_\_\_

Contractor Personnel on Site:

1. _____	3. _____
2. _____	4. _____

### **Work Performed:**

**Preventive Maintenance** - Services Completed (Annual, Quarterly, Monthly, equipment identification, etc.)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

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## CERTIFICATION OF WORK

To be signed by the Contractor:

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signed: \_\_\_\_\_

To be signed by Facility Manager:

By signing the Certification of Work, the said government representative signature does not constitute acceptance of any work performed by the contractor, it only acknowledges that the contractor was on-site during the identified timeline:

Print Name/Rank: \_\_\_\_\_ Date: \_\_\_\_\_

Signed: \_\_\_\_\_

E-Mail: \_\_\_\_\_

**PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST**  
**AIR COOLED CHILLER, PACKAGE UNIT**

**SITE AND BLDG #:** VA 049

**LOCATION/RM #:** Roof    **WO#** 12117    **ASSET #** 2316

**MECHANIC  
SIGNATURE:** Randy H.

**DATE:** 5.11.2020

**START TIME:** 9 am

**FINISH TIME:** 5 pm

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
<b>SPECIAL INSTRUCTIONS</b>				
1	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	✓		
2	No intentional venting of refrigerants is permitted. During the servicing, maintenance, and repair of refrigeration equipment, the refrigerant must be recovered.	✓		
3	Whenever refrigerant is added or removed from equipment, record the quantities on the appropriate forms. Forms to be maintained by technician in universal waste binder.	✓	✓	
4	Recover, recycle, or reclaim the refrigerant as appropriate.	✓	✓	<u>Didn't remove any</u>
5	If disposal of the equipment item is required, follow regulations concerning removal of refrigerants and disposal of the item.	✓		
6	If materials containing refrigerants are discarded, comply with EPA regulations as applicable.	✓		
7	Refrigerant oils to be treated as hazardous waste.	✓		
8	Closely follow all safety procedures described in the Safety Data Sheet (SDS) for the refrigerant and all labels on refrigerant containers.	✓		
9	Remove access covers prior to accomplishing check points.	✓		
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
<b>CONDENSER</b>				
1	Remove debris from air screen and clean underneath unit.	✓		
2	Pressure wash coil with proper cleaning solution.	✓		
3	Straighten fin tubes with fin comb.	✓		
4	Check electrical wiring and tighten loose connections. Check fused disconnect switches for condition and operation, contactors	✓		
5	Check mounting for tightness.	✓		
6	Check for corrosion. Clean and treat with inhibitor as needed.	✓		
7	Check fan or blower for bent or damaged blades and imbalance.	✓		

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
8	Lubricate shaft and motor bearings on fans and remove old or excess lubricant, if applicable.	✓		Utilized lithium grease/mobil 1 grease
9	Inspect pulleys, belts, couplings, etc.; adjust tension and tighten mountings as necessary. Change badly worn belts. Multi-belt drives should be replaced with matched sets.	✓		Tightened fan blade
<b>EVAPORATOR</b>				
1	Inspect evaporator for any obvious deficiencies.	✓		
2	Inspect plumbing, valves and flanges for leaks and correct as needed.	✓		
<b>COMPRESSOR(S)</b>				
1	Lubricate drive coupling, if applicable.		✓	(N/A)
2	Lubricate motor bearings (non-hermetic), if applicable.		✓	(Hermetic)
3	Check bearings for vibrations or unusual noises.	✓		(circuit #2 - Right side) O.L on start up.
4	Leak test unit with soap test or electronic device.	✓		Soap Bubbles
5	Check compressor oil level., if applicable.	✓		visible in sight glass
6	Run machine; check action of controls, relays, switches, etc. to see that: a. Compressor(s) run at proper settings. b. Suction and discharge pressures are proper.	✓		
7	Check vibration eliminators. Replace as necessary.	✓		None cracked
8	Document AMP draw on compressors	✓		L1 O.L (73) L2 55 (flux) L3 62.3
9	Check safety controls for high pressure cut off.	✓		
<b>CONTROLS</b>				
1	Record chilled water supply and return temps and Humidity .	✓		(S) 39° (R) 41° (H) 52 in bldg.

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

FOUND: Right side- Compressor #2 Over limit on Start up. Drops in Amps while running then Amps raise while shutting off.  
Usually only happens when Compressor is nearing replacement.

# Before

SHIP WITH ITEMS  
LOCATED IN THIS  
COMPARTMENT



Before

Before









FOR OUTDOOR USE

SERIAL NUMBER

U10C14744

MODEL NUMBER

00AM 070A 2002 AXD2 A1A1 A1AX XA1A 1AXX XXXX XA1A 3X1D XXX

RATED  
VOLTAGE/HZ/PH  
**208/60/3**

VOLT UTILIZATION  
RANGE

**107-229**

RLA LRA  
COMPR MTR 1A **405**  
COMPR MTR 1B **37**  
COMPR MTR 1C **405**

QTY HP EA  
FIXED SPEED FAN MOTORS **1.27**

QTY HP EA  
2 SPEED FAN MOTORS **0.27**

VFD QTY HP EA  
CONTROLLED FAN MOTORS **2**

\* PUMP MOTORS QTY HP EA  
\* EXCLUSIVELY INTERLOCKED

MIN CKT  
AMPACITY (A)  
**15**

MAX FUSE/  
BREAKER (A)  
**100**

MIN CKT  
AMPACITY (A)  
**15**

MAX FUSE/  
BREAKER (A)  
**100**

RLA LRA  
COMPR MTR 2A **87**  
COMPR MTR 2B **58**  
COMPR MTR 2C **405**

FLA EA  
VFD INPUT AMPS  
**7.3**

FLA EA  
VFD INPUT AMPS  
**7.3**

MTR VOLT  
VFD INPUT AMPS  
**7.3**

RATED  
VOLTAGE/HZ/PH  
**115/60/1**

VOLT UTILIZATION  
RANGE

**108-126**

CKT 3 FREEZE  
PROTECTION  
HEATERS

CKT 4 BUFFER  
TANK HEATER

REFRIGERANT **FACTORY** CHARGED

TYPE/ NUMBER **410A** OIL CHARGE

CKT 1 (LBS) **40** CKT 1 (GAL)

CKT 2 (LBS) **40** CKT 2 (GAL)

CKT 3 (LBS) **40** CKT 3 (GAL)

CKT 4 (LBS) **40** CKT 4 (GAL)

DESIGN PRESSURES (PSI)

HIGH SIDE **600** LOW SIDE **238**

INSTALLATION, OPERATION  
& MAINTENANCE MANUAL

**CE-SU/129-EN**

WIRING DIAGRAM BOOK  
**572053259100**

5,056,594 5,067,560 5,123,256 5,138,844 5,231,846 5,276,630 5,419,146 5,632,154 5,809,794 5,950,443 6,049,299  
6,085,532 6,266,964 6,276,152 6,666,042 6,917,857 7,020,156 7,088,346 7,158,121 7,202,858 7,385,593

X39003199010C

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS/

CORRESPONDING FOREIGN PATENTS OWNED BY TRANE.

TRANE



SA8373

**LISTED**

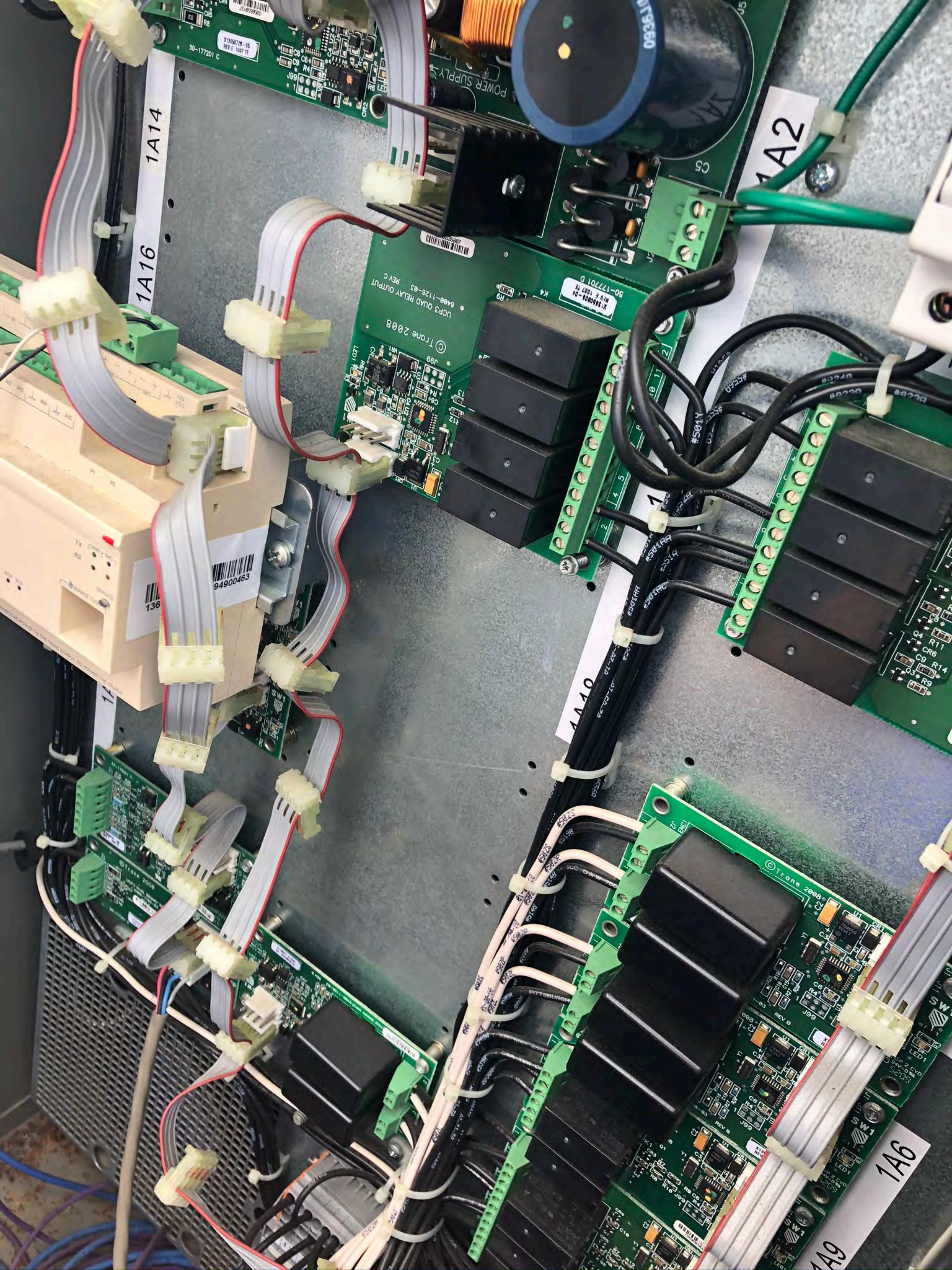
LIQUID CHILLER  
SELF-CONTAINED UNIT  
85RO

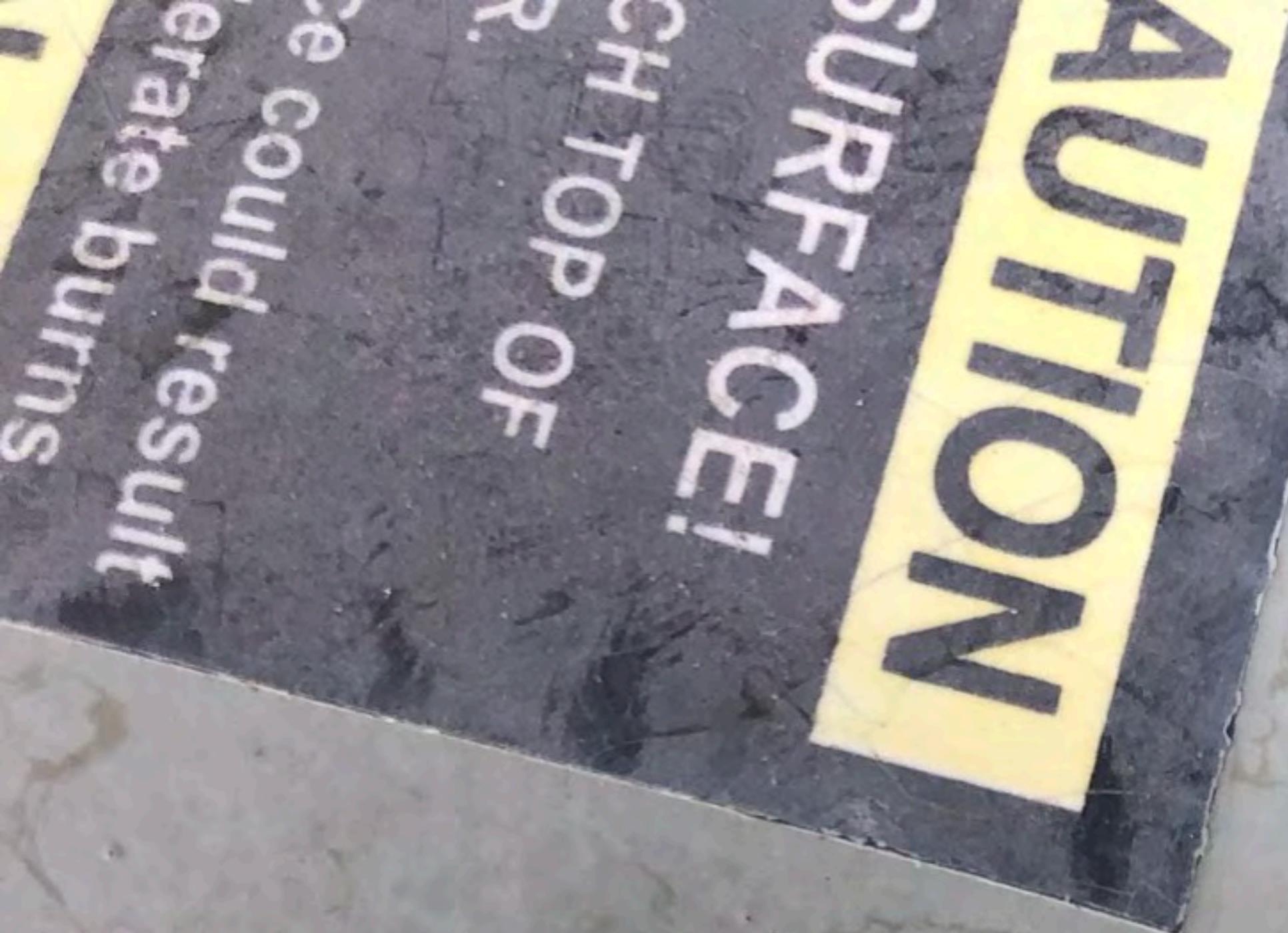
X39551090-01

Unit Model Number Complies  
With Efficiency Requirements of  
ASHRAE Standard 90.1 - 2001

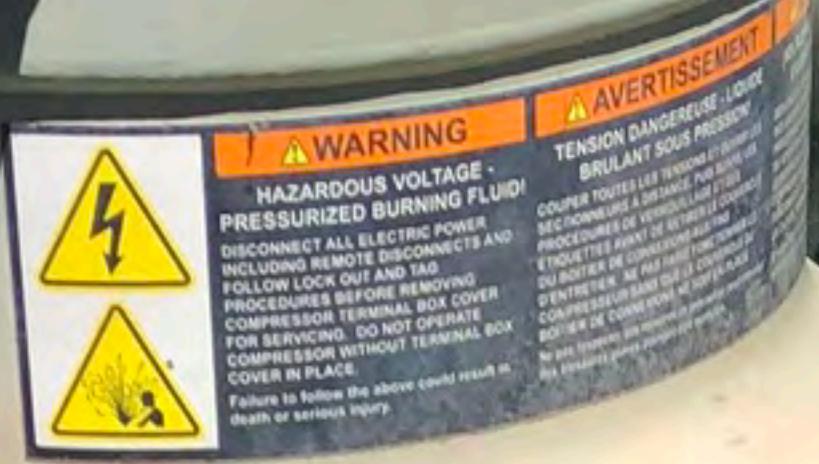
X39002008010A



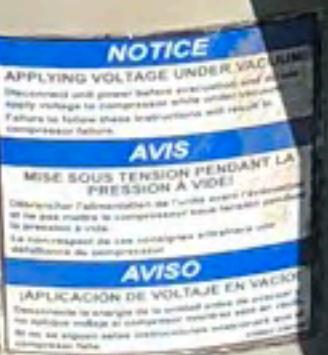




Circuit 2 (right side)  
Over amp on startup



INSTALLED 031  
RESTRICTOR  
X17311028010



CIRCUIT 2

After

Recommend insulation repair





After

After



Before

After

MISE SOUS T  
PRESS

Débrancher l'alimenta  
et ne pas mettre le co  
la pression à vide.

Le non-respect de ces  
défaillance du compre

¡APLICACIÓN D

Desconecte la energía d  
no aplique voltaje al com  
Si no se siguen estas in  
compresor falle.

After

SHIP WITH ITEMS  
LOCATED IN THIS  
COMPARTMENT

# After

