



Confidential Service Bulletin

CVHE-SB-47

Library	Service Literature
Product Section	Refrigeration
Product	Centrifugal Liquid Chillers
Model	CVHE/F/G
Literature Type	Service Bulletin
Sequence	47
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Subject: UCP2 CVHE/F/G Extended Storage Requirements (Unit Is Installed With All Electrical)

Introduction:

The purpose of this bulletin is to provide information on extended storage requirements for UCP2 centrifugal chillers to be removed from service for an undetermined length of time.

Important!

To prevent injury or death, please follow the warnings provided throughout this manual regarding hazardous voltage and refrigerant removal.

Discussion:

⚠ WARNING

USE CARE WHEN SERVICING SYSTEM WITH POWER ON. Failure to do so could result in injury or death due to electrical shock or contact with moving parts.

The following steps are necessary in order to properly prepare a unit for storage.

1. Remove all liquid refrigerant if the unit is charged.

⚠ WARNING

TO AVOID INJURY OR DEATH DUE TO INHALATION OF, OR SKIN EXPOSURE TO REFRIGERANT, CLOSELY FOLLOW ALL SAFETY PROCEDURES DESCRIBED IN THE MATERIAL SAFETY DATA SHEET. Failure to do so may expose operating and/or servicing personnel to liquid and/or vaporous refrigerant.

Since the Trane Company has a policy of continuous product improvement, it reserves the right to change specifications and design without notice. The installation and servicing of the equipment referred to in this booklet should be done by qualified, experienced technicians.

2. After the liquid refrigerant is removed, using a recovery/recycle unit or vacuum pump, pull a vacuum to remove remaining refrigerant vapor from the unit.

3. After all traces of refrigerant are out of the unit, a positive nitrogen charge should be put into the unit (6 to 8 PSIG). This positive pressure must be checked monthly to insure no noncondensibles get into the unit. Use a pressure gage on the evaporator shell to verify that the 6 to 8 PSIG dry nitrogen holding charge is still in the chiller. If this charge has escaped, contact a qualified service organization and the Trane sales engineer that handled the order.

4. The refrigerant charge should be stored in proper refrigerant containers. Due to possible leakage, do not store in used drums.

▲ WARNING

USE CARE WHEN MEASUREMENTS, ADJUSTMENTS OR OTHER SERVICE-RELATED OPERATIONS ARE PERFORMED WITH POWER ON. Failure to do so could result in death due to electrical shock or contact with moving parts.

5. Maintain control power to the control panel. This will maintain oil temperature in the oil sump and the capability of the control panel to present report information. The Chiller, Refrigerant and Compressor Reports should be viewed once a week for normal readings. Any abnormal observation must be reported to the Trane Sales Engineer that handled the order.

6. Remove the factory installed jumper or the field installed wiring on terminals J5-1 and J5-2 on the 1U1 Chiller Module in the unit control panel. This will prevent unwanted chiller operation.

7. Set the purge operating mode to OFF on UCP2 chillers.

8. The oil can be left in the unit.

9. The water side should not cause a problem if shut down and drained. There may be slight scaling inside the tubes, but not enough to cause a problem. Customer should inspect and clean tubes before the unit is returned to service.

Important

Do not use untreated or improperly treated water, or equipment damage may occur.

Important

Scale deposits are best removed by chemical means. Be sure to consult any qualified chemical house in the area (i.e., one familiar with the local water supply's chemical mineral content) for a recommended cleaning solution suitable for the job.

10. Motor bearings: If the motor sits for a long time the bearings could take a set and cause bearing problems/replacement later. Once every six months the chiller oil pump must be started and the compressor motor bump started to rotate the shaft. Contact a qualified service organization to perform this task. If the compressor motor cannot be bump started, then the shaft must be rotated manually by a qualified service organization.

11. Obtain an oil analysis initially after 6 months of storage, and once each succeeding year. If no oil breakdown is evident do not change the oil. If breakdown is evident, the oil must be replaced.

12. If the unit is stored for more than five years, and the storage is expected to be indefinite, the unit should be examined for leaks every five years from the initial storage date.

13. When the unit is to be returned to service, the services of a qualified service organization should be obtained to conduct all activities associated with the startup of a new chiller.

Units Affected:

All electrical installed UCP2 CVHE/F/G centrifugal units.

Material Authorization:

No material authorized.

Labor and Travel Authorization

No labor or travel authorized.

Expiration Date:

No expiration date for this service bulletin.