



# Start-Up, Operation and Maintenance Instructions

19EB

Carrier Corporation • Syracuse, N.Y. 13201

## Hermetic Centrifugal Liquid Chillers

### A SAFETY GUIDE

Centrifugal liquid chillers provide safe and reliable service when operated within design specifications. When operating this equipment, use good judgment and safety precautions to avoid damage to equipment and property or injury to personnel.

Be sure you understand and follow the procedures and safety precautions contained in the machine instructions as well as those listed in this guide.

#### ▲ DANGER

DO NOT USE OXYGEN to purge lines or to pressurize a machine for any purpose. Oxygen gas reacts violently with oil, grease and other common substances.

NEVER EXCEED specified test pressures. VERIFY the allowable test pressure by checking the instruction literature and the design pressures on the equipment nameplate.

DO NOT VALVE OFF any safety device.

BE SURE that all pressure relief devices are properly installed and functioning before operating any machine.

#### ▲ WARNING

DO NOT USE eyebolts or eyebolt holes to rig machine sections or the entire assembly.

DO NOT work on high voltage equipment unless you are a qualified electrician.

DO NOT WORK ON electrical components, including control panels, switches, starters or oil heater until you are sure ALL POWER IS OFF and no residual voltage can leak from capacitors or solid-state components.

LOCK OPEN AND TAG electrical circuits during servicing. IF WORK IS INTERRUPTED, confirm that all circuits are de-energized before resuming work.

DO NOT siphon refrigerant by mouth.

AVOID SPILLING liquid refrigerant on skin or getting it into the eyes. USE SAFETY GOGGLES. Wash any spills from the skin with soap and water. If any enters the eyes, IMMEDIATELY FLUSH EYES with water and consult a physician.

NEVER APPLY an open flame or live steam to a refrigerant cylinder. Dangerous overpressure can result. When necessary to heat refrigerant, use only warm (110 F/43 C) water.

DO NOT REUSE disposable (nonreturnable) cylinders nor attempt to refill them. It is DANGEROUS AND ILLEGAL. When cylinder is emptied, bleed off remaining gas pressure, loosen the collar and unscrew and discard the valve stem. DO NOT INCINERATE.

CHECK THE REFRIGERANT TYPE before charging machine. High-pressure refrigerant in a low-pressure machine can cause vessels to rupture if the relief devices cannot handle the refrigerant volume.

DO NOT ATTEMPT TO REMOVE fittings, covers, etc. while machine is under pressure or while machine is running. Be sure pressure is at zero psig before breaking any refrigerant connection.

CAREFULLY INSPECT all relief valves, rupture discs and other relief devices AT LEAST ONCE A YEAR. If machine operates in a corrosive atmosphere, inspect the devices at more frequent intervals.

DO NOT ATTEMPT TO REPAIR OR RECONDITION any relief valve when corrosion or build-up of foreign material (rust, dirt, scale, etc.) is found within the valve body or mechanism. Replace the valve.

DO NOT VENT refrigerant relief valves within a building; vent to outside. The accumulation of refrigerant in an enclosed space can displace oxygen and cause asphyxiation.

DO NOT install relief valves in series or backwards.

USE CARE when working near or in line with a compressed spring. Sudden release of the spring can cause it and objects in its path to act as projectiles.

#### ▲ CAUTION

DO NOT STEP on refrigerant lines. Broken lines can whip about and cause personal injury.

DO NOT climb over a machine. Use platform, catwalk or staging. Follow safe practices when using ladders.

USE MECHANICAL EQUIPMENT (crane, hoist, etc.) to lift or move inspection covers or other heavy components. Even if components are light, use such equipment when there is a risk of slipping or losing your balance.

DO NOT WELD OR FLAME CUT any refrigerant line or vessel until all refrigerant has been removed from the vessel.

BE AWARE that certain automatic start arrangements CAN ENGAGE THE STARTER. Open the disconnect ahead of the starter in addition to shutting off the machine or pump.

USE only repair or replacement parts that meet the code requirements of the original equipment.

DO NOT VENT OR DRAIN water boxes containing industrial brines, liquid, gases or semi-solids without permission of your Process Control Group.

DO NOT LOOSEN water box cover bolts until the water box has been completely drained.

DOUBLE-CHECK that coupling nut wrenches, dial indicators or other items have been removed before rotating any shafts.

DO NOT LOOSEN a packing gland nut before checking that the nut has a positive thread engagement.

PERIODICALLY INSPECT all valves, fittings and piping for corrosion, rust, leaks or damage.

PROVIDE A DRAIN connection in the vent line near each pressure relief device to prevent a build-up of condensate or rain water.

# Carrier Chiller Troubleshooting Manual

**John Schaub**

## **Carrier Chiller Troubleshooting Manual:**

**ASHRAE Handbook** ,1996    ASHRAE Handbook American Society of Heating, Refrigerating and Air-Conditioning Engineers,1992    *Thomas Regional Industrial Buying Guide* ,2003    *Commerce Business Daily* ,1998-03    **The Yearbook** ,1992    **ASHRAE Journal** ,1989    **Thomas Register of American Manufacturers and Thomas Register Catalog File** ,1997 Vols for 1970 71 includes manufacturers catalogs    **Carrier Air Conditioning Co** Carrier Corporation. Machinery and Systems Division. Carrier Air Conditioning Co,1960    **Carrier System Design Manual** ,1973    **Service Manual and Parts Catalog for Refrigeration & Air Conditioning Equipment** Carrier Corporation,1943    **Carrier System Design Manual** Carrier Corporation. Carrier Air Conditioning Company,1972    **Air conditioning and Refrigeration Repair Made Easy** Hooman Gohari,2009-10-19 This comprehensive book has been developed to quickly train an average person for the vast commercial and residential refrigeration and air conditioning market within a short period of time It provides all the technical knowledge needed to start a successful refrigeration and air conditioning business anywhere in the world    **Carrier Centrifugal Refrigeration Operating Instructions** ... Carrier Corporation,1930\*

**Drake's Refrigeration Service Manual** Harold Phillips Manly,1959    **Air Conditioning and Refrigeration Troubleshooting Handbook** Billy C. Langley,2003 An overview of the servicing and troubleshooting of cooling equipment provides detailed explanations of the purpose of each cooling system component covering the common problems encountered during troubleshooting Includes troubleshooting charts numerous diagrams and suggested procedures for repairs

Troubleshooting ,1992    **Average Joe's RV Refrigerator** D. Roger,Onna Lee Ford,2010-01-15 Anybody from the RV owner to the service technician can comprehend and determine troubles with an RV refrigerator In this practical manual the authors provide profound discussions in troubleshooting True to its name Average Joe's RV Refrigerator Troubleshooting Repair Guide aims to help any person in making minor repairs by himself herself It also supplies information that helps one know whether or not his her service tech is qualified to make an educated analysis of the problems and is able to do the repairs successfully with the least amount of cost available to the consumer Geared to assist any individual anytime anywhere Average Joe's RV Refrigerator Troubleshooting Repair Guide is a handy book that will be of use for both personal and business needs Book Review Average Joe's RV Refrigerator Troubleshooting and Repair Guide made me feel confident that I an average Joanne could pull out my own RV refrigerator and know what I was looking at what to check first depending on the problem and where to proceed from there Without the guide I'd never know where to start There are a lot of photos and the troubleshooting charts are easy to read with a column for symptoms possible problem areas and causes and remedies They identify specific problems for which I need to call on a repair specialist but I was surprised to see that many of the remedies are simple enough that I would not be afraid to tackle them myself This guide will help anyone assess problems with their RV refrigerator and try first to fix it yourself thereby saving on costly repair bills frugal rv travel    Life of an

Hvac/R Technician John Schaub,2005-05-12 TheLife of an HVAC R Technician contains a detailed explanation of troubleshooting techniques and answers to many question of how and why systems have failed This book will save you precious time money and accelerate your learning curve dramatically It will include everything from techniques and stories to safety tips and unit sizing Remarkably detailed this service manual is especially helpful for first time service technicians just beginning in an expanding field of refrigeration 12 year lead technician Scott Pointon Schaub s 60 years in the business expands on the decades of changes from belt driven compressors to the age of computerization Dick Weirauch 45 Year service veteran of United Refrigeration It is about time that someone came out with a handbook that the any service mechanic can easily carry and use on an everyday basis Charles Gardener 30 year HVAC R service veteran *Drake's refrigeration service manual: an instruction and reference book covering maintenance, trouble shooting and repair; domestic and commercial systems* b H P. Manly,1954

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