



# REDI CONTROLS, INC.

Installation, Operation & Maintenance Manual

Literature File No. 1037-02-1

## Redi-Purge™ Emission Collection Canister



**ACTIVATED  
CARBON  
FILTER**  
for...



.....The Redi Controls  
**Redi-Purge™**  
High Efficiency Purge

Manufactured in accordance with  
ASHRAE Guidelines 3-1990 Sec. 4.7 and  
Standard 15-1992 Sec. 8.3, 8.7 and 10.4

**Revised Technically as of September 1, 1995**  
**This Copy was Printed as of June 11, 2010**

# 9 GENERAL INFORMATION 9

## 4 YOU ARE URGED TO READ THIS MANUAL COMPLETELY BEFORE INSTALLING AND/OR OPERATING THIS UNIT

### Upon Receiving Your Unit

Inspect the unit for possible damage caused during shipping. **Contact Equipment Servicing before attempting to use a damaged unit.** (800) 626-8640 or (317) 865-4130.

### Warnings and Cautions

**NOTE:** *Warnings and Cautions appear in highlighted boxes as illustrated below at appropriate points throughout this manual. Give special attention to these items.*

**Warnings:** are provided to alert you to potential hazards that could result in serious personal injury and damage to your equipment. Warnings may appear in this manual or on the equipment. Heed all Warnings.

**Cautions:** are designed to alert you to situations that may result in damage to your equipment.

Personal safety and the proper operation of your equipment require strict observance of these precautions.

## EQUIPMENT SHOULD BE INSTALLED AND OPERATED ONLY BY QUALIFIED PERSONNEL

**WARNING** Certain servicing procedures may expose you to harmful materials and dangerous conditions. To minimize the possibility of injury, follow the safety procedures and instructions described in this manual, on product labels and in material safety data sheets provided.

**NOTE:** *The manufacturer has a continuous equipment improvement policy and reserves the right to change specifications and design of its products without notice.*



# GENERAL OVERVIEW

For maximum efficiency, the **Redi-Purge™** Emission Collection Canister may be installed in the purge discharge circuit of a **REDI CONTROLS Redi-Purge™** High Efficiency Purge system. The canister is charged with high activation granulated carbon which effectively traps any refrigerant discharged from the purge. Proper application of a **Redi-Purge™** high efficiency purge unit and a **Redi-Purge™** canister will result in virtually zero refrigerant emissions.

The **Redi-Purge™** Emission Collection Canister is compatible with all refrigerants. When the activated carbon is saturated the canister must be disposed of per Federal Non-venting Guidelines.

The **Redi-Purge™** Emission Collection Canister should be replaced when accumulated Purge Pumpout Time equals 3000 minutes or after 3-years, whichever occurs first. For a replacement canister, contact your service representative or call Redi Controls at (800) 626-8640 or (317) 865-4130

**NOTE:** *The **Redi-Purge™** Emission Collection Canister is designed primarily for use with the **REDI CONTROLS Redi-Purge™** High Efficiency Purge system. It is also compatible for use with certain other OEM's purge units. For specific information relative to your proposed use, call one of **REDI CONTROLS'** service technicians.*

## BEFORE INSTALLING

Remove the Emission Collection Canister from the shipping container and inspect for damage. If any damage is found, report it to **REDI CONTROLS** immediately. Contact a **REDI CONTROLS** service technician before attempting to use a damaged unit.

### Specifications

The **Redi-Purge™ Canister Installation Kit** (required for initial installation) consists of:

- an activated carbon emission collection canister
- a ready to mount holding fixture

The **Redi-Purge™ Canister Replacement Kit** (a replacement canister only) includes:

- a regenerated collection canister
- return shipping package and instructions

Items to be supplied in the field include:

- 3/8" Flare nuts (3)
- 3/8" OD refrigeration-grade copper tubing  
(length dependent on location of canister)
- bolts (for use when canister is bolted to chiller)

# INSTALLATION

The **Redi-Purge™** Emission Collection Canister may be located anywhere near the purge unit. It should be as close as possible to the purge to minimize the length of interconnecting piping. The area where the Canister is located must be clean and dry. The Canister's holding fixture should be securely anchored.

**Caution:** If the Canister's holding fixture is to be welded to the condenser shell (not recommended) the refrigerant must be evacuated from the chiller. Never attempt to weld anything to any part of the chiller containing refrigerant without first removing the refrigerant charge and evacuating completely.

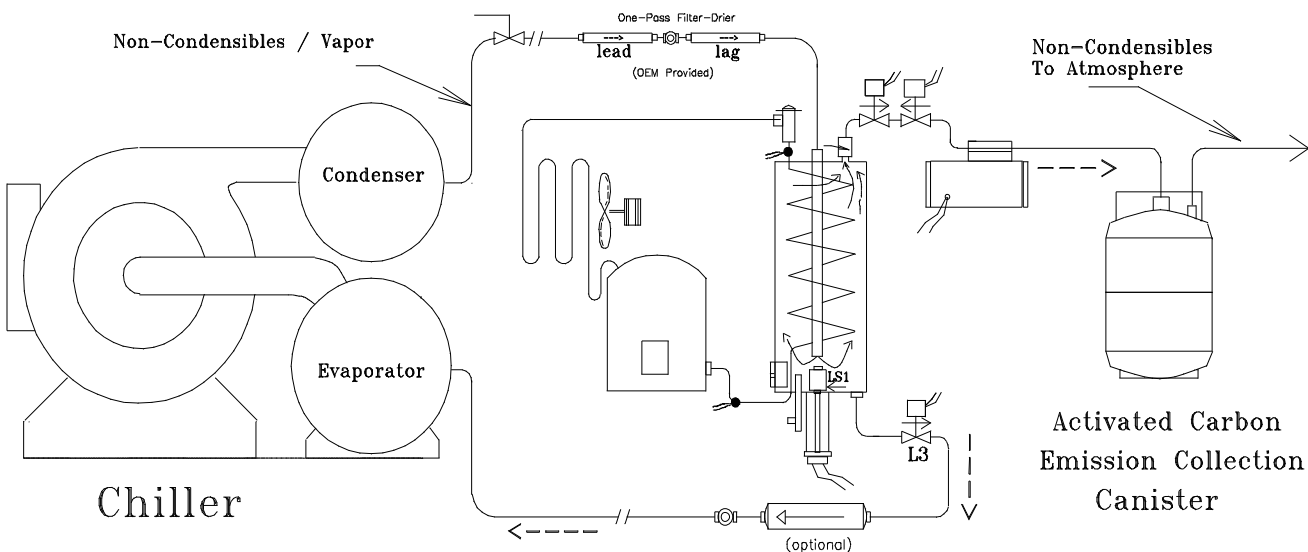
## Mounting the Canister

Mount the Canister in the holding fixture.

Using 3/8"-inch O.D. copper tube connect the purge pump-out compressor exhaust to the Canister inlet.

Using 3/8"-inch O.D. tube connect the Canister outlet to the chiller rupture disc vent line (see Figure 1).

**Figure 1 - Connection Schematic**



Verify there are no restrictions in the exhaust lines. It is not recommended that any valves be installed in the exhaust lines. But, if there is a valve, verify that it is fully open.

**Caution:** Before putting the Redi-Purge™ Emission Collection Canister into service for the first time, verify the refrigerant type indicated on the Canister is the same as the refrigerant in the chiller. **DO NOT CONTAMINATE THE CANISTER WITH THE WRONG REFRIGERANT!**

# SERVICING & REPLACEMENT OF CANISTER

Record the following information on the Emission Collection Canister label:

Date Canister was put into Service \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

As of the date this Canister was put into service,  
the Cumulative Purge Pumpout time (in minutes) \_\_\_\_\_  
as displayed by purge read out. (minutes)

Type of Refrigerant in Chiller \_\_\_\_\_

Useful saturation level of the activated carbon in the **Redi-Purge™** Emission Collection Canister is directly proportionate to the accumulated pumpout time as indicated by the microprocessor controlled display on the **Redi-Purge™** High Efficiency Purge unit. The Emission Collection Canister should be replaced when accumulated Purge Pumpout Time equals 3000 minutes or after 3-years, whichever occurs first.

For a replacement Canister, contact your service representative or call Redi Controls at (800) 626-8640 or (317) 865-4130. When a Canister becomes saturated with refrigerant, it must be disposed of per Federal Non-venting Guidelines. For information on Canister disposal, call (713) 947-3280.

Install replacement canister and update all label information per previous instructions.

Reconnect lines to the canister as per previous instructions.

Be sure both the inlet and outlet ports are capped off tightly before disposing of old canister.

**CAUTION: A Redi-Purge™ Emission Collection Canister should be replaced when accumulated Purge Pumpout Time equals 3000 minutes or after 3-years, whichever occurs first. When a Canister becomes saturated with refrigerant, it must be disposed of per Federal Non-venting Guidelines.**

## Maintenance

The **Redi-Purge™** Emission Collection Canister does not require maintenance other than scheduled replacement. Keep it clean, dry and in a corrosive free environment.

# REDI CONTROLS, INC.

## Equipment Warranty

Within one year after date of purchase REDI CONTROLS will repair any Redi Controls product being used by the original purchaser, which is defective due to faulty materials or workmanship. REDI CONTROLS has the right to repair or replace a defective part or replace the entire product.

To file a Warranty claim on any system or component, return the defective unit to the address below, or other location as REDI CONTROLS directs, freight prepaid.

**This Warranty does not apply to or cover:**

Damages beyond REDI CONTROLS' control.

Malfunctions that result from failure to properly install, operate or maintain a product in accordance with instructions provided by REDI CONTROLS.

Failures of equipment due to abuse, accident or negligence.

Damages from, or part failures due to equipment not being installed per REDI CONTROLS' instructions, per applicable codes or ordinances, or in accordance with good trade practices.

Labor or other charges incurred in removing or reinstalling any REDI CONTROLS product or part.

Damages resulting from use of a REDI CONTROLS product for any purpose other than for which it was designed and manufactured.

Any implied warranty of merchantability or fitness for any particular purpose, occurring after the Warranty Period.

Loss of use, loss of time, inconvenience, rental for substitute products, loss of business, loss of income, or any other consequential damages resulting from use or failure of any REDI CONTROLS product.

Inquiries to: REDI CONTROLS at 755 E. Main Street, Greenwood, Indiana, 46143

**REDI CONTROLS, INC.**  
**(317) 865-4130**