



**LABCONCO CORPORATION,** 8811 PROSPECT, KANSAS CITY, MO. 64132, 816—363-6330

INSTRUCTION MANUAL  
LABCONCO DRYING TRAIN  
MODEL NOS. 50064 & 50064-01

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NOTE: PRODUCT DESIGNS ARE SUBJECT TO CHANGE WITHOUT NOTICE



**LABCONCO CORPORATION**, 8811 PROSPECT, KANSAS CITY, MO. 64132, 816—363-6330

Dear Customer:

This letter is to insure that you get the best performance from your new Labconco product. We want to be sure you are satisfied. If damage has occurred in shipping, the customer must file a claim with the carrier IMMEDIATELY! DO NOT return any items to Labconco Corporation without written authorization from the factory. Your local laboratory apparatus dealer can assist you, and should be contacted if problems occur. If satisfaction is not obtained, contact Labconco Corporation.

We know that even the best products require service from time to time. So if this is ever true of your Labconco product, call the service department of the dealer from whom you purchased the unit. He is trained to make whatever might be wrong with your unit right. If you need additional help, call us at (816) 363-6330 and ask for our Service Manager. We will make sure that you get all the help you need.

We suggest you keep this letter with your instruction manual. It's nice to know you are protected, even though you may never need it.

Sincerely,

LABCONCO CORPORATION

Enclosure

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## I. Introduction

### A. General Description

The LABCONCO Drying Train Model Nos. 50064 and 50064-01 provide a means for introducing both positive and negative pressure systems in the LABCONCO Controlled Atmosphere Glove Box. This system is rated at 1.1 CFM and can be used with non-corrosive gases only. The LABCONCO Drying Train comes complete with diaphragm pump and motor assembly, two Drierite columns and 10 feet of Tygon tubing. In addition, the unit is rated for a dewpoint of -100°F which is approximately 1 part per million. The following instructions outline features, installation and maintenance of your Drying Train. This manual should be kept handy so that questions of use or service can be answered.

### B. Labeled Diagram of Unit

(See Page 2) Refer to this diagram for installation and operation.

## II. Installation

### A. Parts Included

Polyvinyl Flex Tubing

Drierite Column

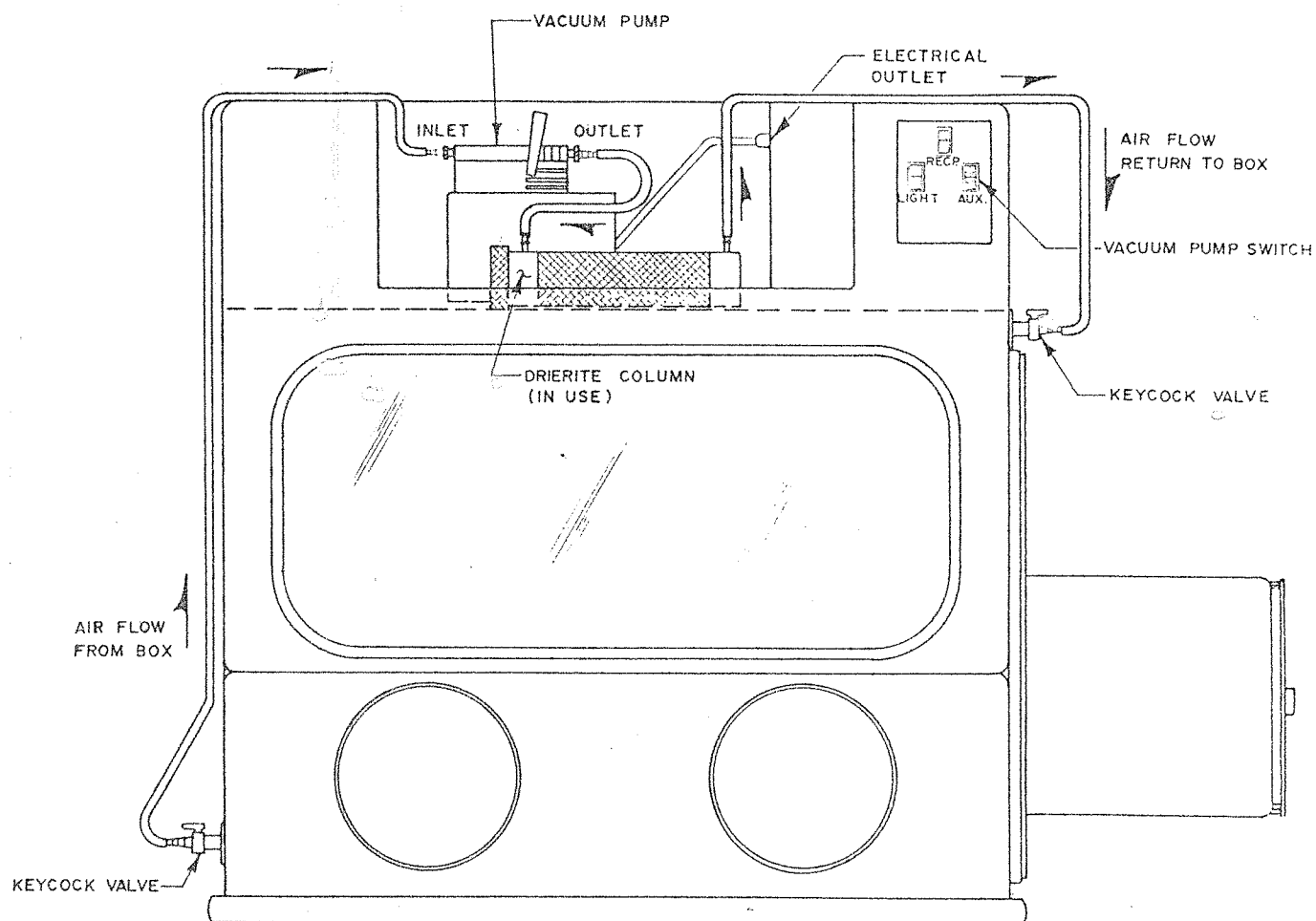
Diaphragm Pump

### B. Installation Factors

1. Set unit in left hand corner of your LABCONCO Controlled Atmosphere Box's upper accessory chamber (See Illustration).
2. Place one drying unit to the right of the pump and connect tubing between exhaust side of pump and Drierite column. Connect the inlet side of the pump to one of the valves on the longer left side of Glove Box. Connect the exhaust side of Drierite column to the valve on the upper right side of box. After connecting tubing, make sure both valves are in the open position.
3. Plug power cord into receptacle found on the plate on the right hand side of the accessory chamber. Lower right hand switch (marked "Aux.") with pilot light will now operate vacuum pump.

### C. Start-Up and Check Out

Once unit is installed the auxillary switch should be turned on to assure proper operation of pump and tubing.



DRYING TRAIN INSTALLATION

### III. Normal Operation

- A. For maximum pump life, we recommend operating in a clean, well vented area where ambient temperatures do not exceed 100°F. (lower if operating continuously).
- B. When this unit is running, use caution as pressure may build up in box through heat generated by the pump expanding the gas or gases used.
- C. This pump is for use with non-corrosive gases only.

### IV. Maintenance

- A. Under normal operation conditions, the vacuum pump should require no maintenance, and should provide many years of uninterrupted service in your LABCONCO Glove Box.
- B. Manufacturer's instructions on the Drierite columns are packaged with the columns. These instructions give suggested uses, specifications and regeneration information for the columns. Attach this sheet to this instruction manual for future reference.
- C. Make sure all hoses are in good condition. They should be replaced if they become stiff or start to crack.

### REPLACEMENT PARTS LIST

LABCONCO DRYING TRAIN  
MODEL NOS. 50064 & 50064-01

| CATALOG NUMBER | DESCRIPTION                |
|----------------|----------------------------|
| 15316          | Tubing, polyvinyl flex     |
| 19252          | Drierite Column            |
| 50199          | Pump, diaphragm, 115 Volts |
| 50200          | Pump, diaphragm, 230 Volts |

NOTE: When ordering replacement parts specify the LABCONCO catalog model number.