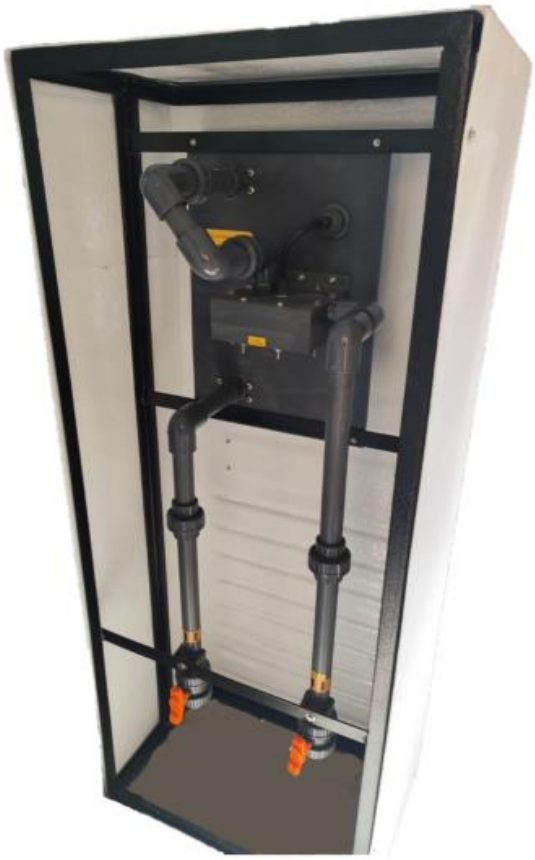
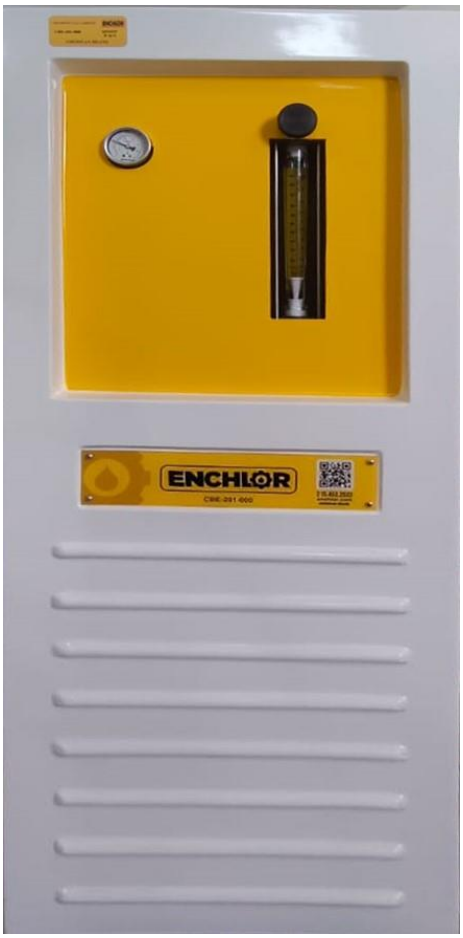
Floor Cabinets

For Gas Feeders and Instruments

Operation and Maintenance Manual





Series CBE-201-000
Floor CabinetsOperation Manual

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I. INTRODUCTION

Enchlor Inc. has been manufacturing highest quality gas chlorination equipment since 1978. Our gas chlorination equipment is manufactured using highest quality materials for both chemical resistance and physical durability.

Enchlor floor cabinets provide a convenient and aesthetic free-standing mounting for gas chlorination feed rate indication and control equipment. The floor cabinets are durable free standing fiberglass housings used to mount flow meters, rate valves, vacuum gauges, vacuum switches, etc. Floor cabinets are available in a range of sizes and with a variety of options. Consult with your local sales representative for details.

. Figures shown in this manual are representative examples only and are not meant to be a complete list of all options. A typical set of equipment includes flow meter, manual control valve, inlet and outlet vacuum gauges and differential pressure regulator.

The cabinets have a removable front cover shell and front panel (See Figure 2) for easy access to internalcomponents.

II. SPECIFICATIONS

Detailed specifications depend on the configuration being ordered and many configurations are available.Consult the factory or your local sales representative for detailed specifications.

III. INSTALLATION

A. Mounting

The floor cabinet should be mounted to allow easy access for inspection, maintenance, ventilation,and general operation. The cabinet is not suitable for outdoor installation. Each floor cabinet mustbe anchored using four bolts with washers.

B. Gas Chemical Connections

For inlet and outlet gas connections, refer to Figure 1. The connections are at the lower backopening of the floor cabinet assembly.

C. Operation

Refer to Figure 1 for this discussion.

Manual Control Operation:

1. Make sure the valves open in and out .
2. Use themanual rate control valve above the flow meter tube to adjust chlorine gas feed rate.

IV. MAINTENANCE

Maintenance of the internal equipment is done by removing the front cover shell. See Figure 2. Refer to individual instruction manuals for detailed maintenance instructions. It is recommended to perform preventative maintenance and cleaning every 12 months or sooner as neededbased on experience at each side.

Use mild soap and water solution to clean the outside of the cabinet. Do not use solvents or abrasivesbecause this could result in damaging the cabinet. Do not allow liquids to come into pipe or flowmeter tube this could cause damage to the equipment.

FIGURE 1: Front

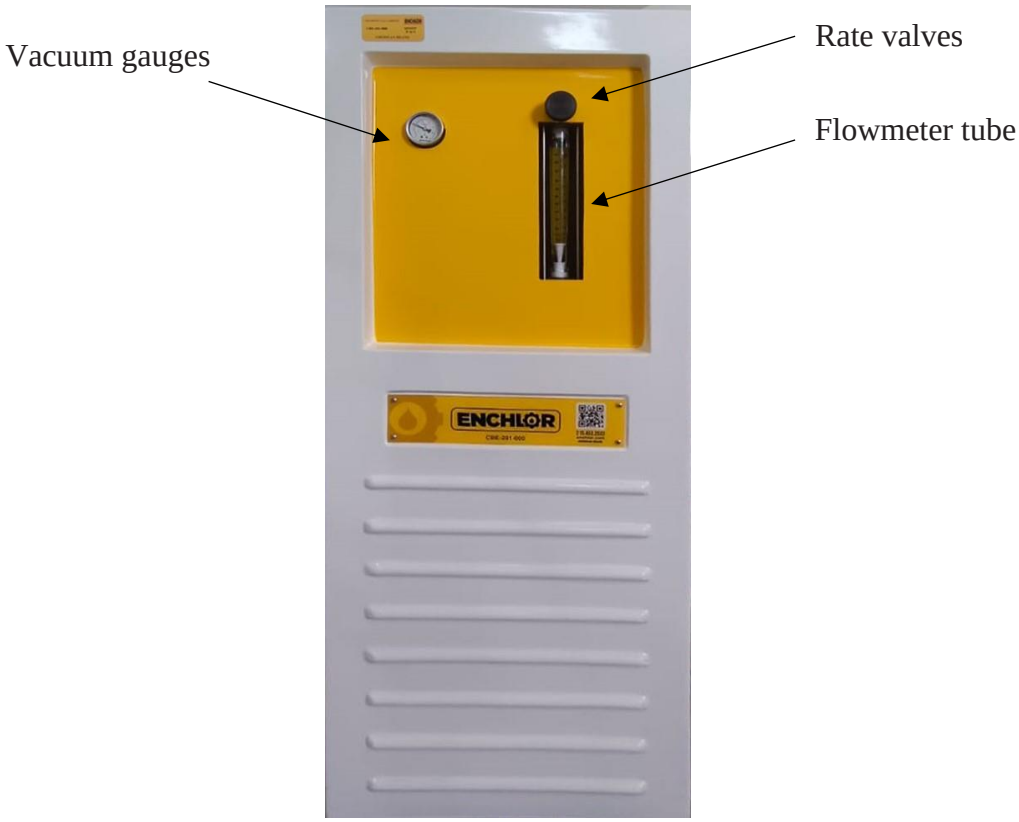
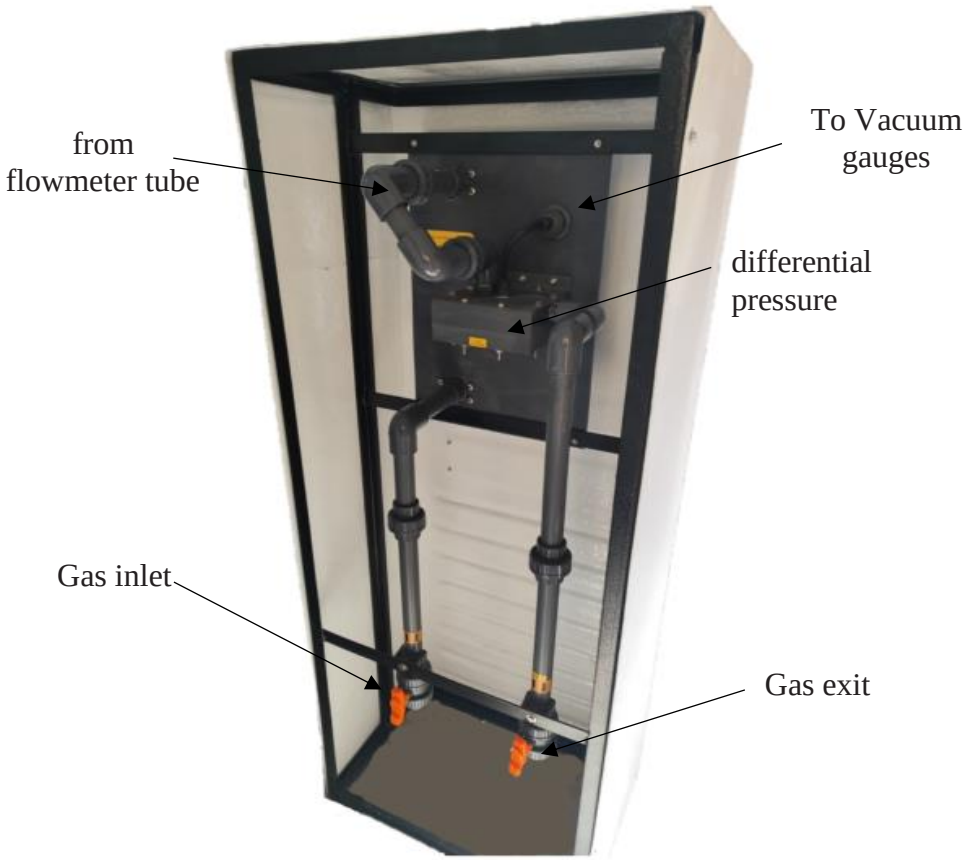


FIGURE 1-1 : Back



ENGINEERING REFINEMENTS: These instructions generally describe the installation, operation, and maintenance of this equipment. Enchlor reserves the right to make engineering refinements that have not been described herein. Questions that cannot be answered specifically by these instructions shouldbe directed to your local sales representatives or Enchlor Co .

A. **Vacuum Gauge Maintenance:** All vacuum gauges will be equipped with liquid filled diaphragm protectors. If the gauges are not working then either the mechanism of the gauge is damaged or the liquid filled diaphragm protector has been damaged. Damaged gauges typically will require replace-ment and cannot be serviced.

B. **Flow Meter Maintenance:** The flow meter is accessed by removing the front cover shell and frontpanel. Refer to the appropriate parts diagram and consider the following instructions.

NOTE: Carefully follow shutdown procedures before performing this repair.

1. Rate Valve
   a. Fully unscrew and remove the rate valve from the meter assembly.
   b. Inspect and clean the two Rate Valve O-Rings and replace them if necessary.
   c. Clean out any visible debris or corrosion found in the meter or on the rate valve.
2. Meter Tube Assembly
   a. Carefully remove the protective covers.
   b. While carefully preventing the flow tube from falling, unscrew the meter inlet plug to allowthe meter tube to be removed.
   c. Inspect and clean the top and bottom o-rings or gaskets. Replace them if necessary.
   d. Clean the tube, float and stops carefully before reassembly.

C. **Differential Pressure Regulator Maintenance:** The differential pressure regulator is mounted in the rear of the floor cabinet assembly. Refer to the appropriate parts diagram and consider thefollowing instructions.

1. Disassemble the bodies of the differential pressure regulator.
2. Inspect and clean the diaphragm. Replace it if necessary.
3. Clean out any visible debris or corrosion found.
4. Replace any items found to be damaged or corroded.