



LABCONCO CORPORATION 8811 Prospect Ave, Kansas City, MO 64132  
(816) 333-8811, Fax (816) 363-0130, (800) 821-5525

## Gas and Vacuum Tubing Connection Kit for Automatic Pressure Controller, No. 5245200

### Operation

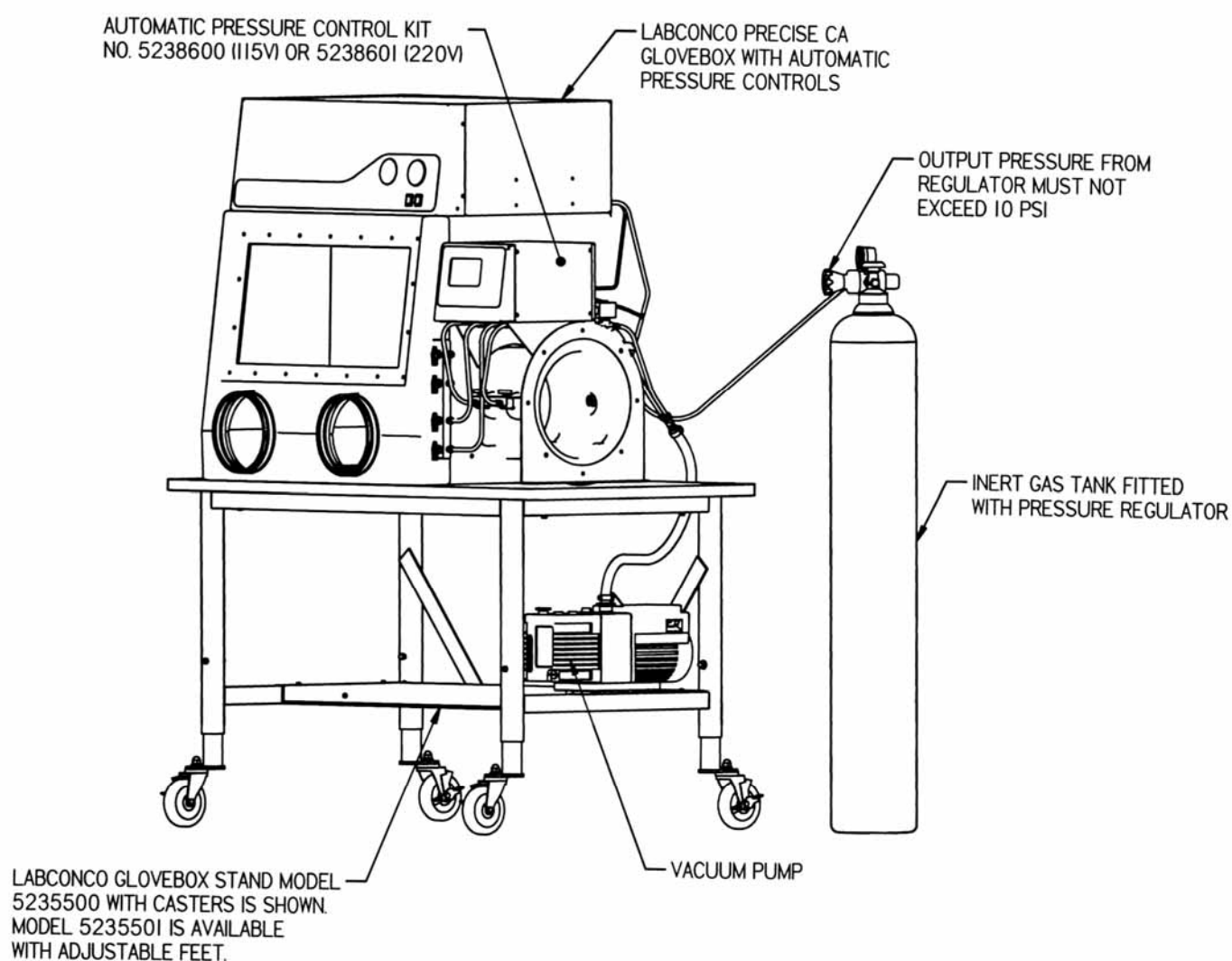
The Automatic Pressure Controller, Gas and Vacuum Tubing Connection Kit contains all the tubing and fittings necessary to connect a regulator on an inert gas supply tank, and a rotary vane vacuum pump to the Automatic Pressure Controller mounted on the Precise Controlled Atmosphere Glove Box. Follow the installation procedure below along with the pictorials to install all the connections. **Please be warned that a pressure regulator capable of less than 10 psi must be used; failure to use a suitable regulator will cause damage and potential injury.**

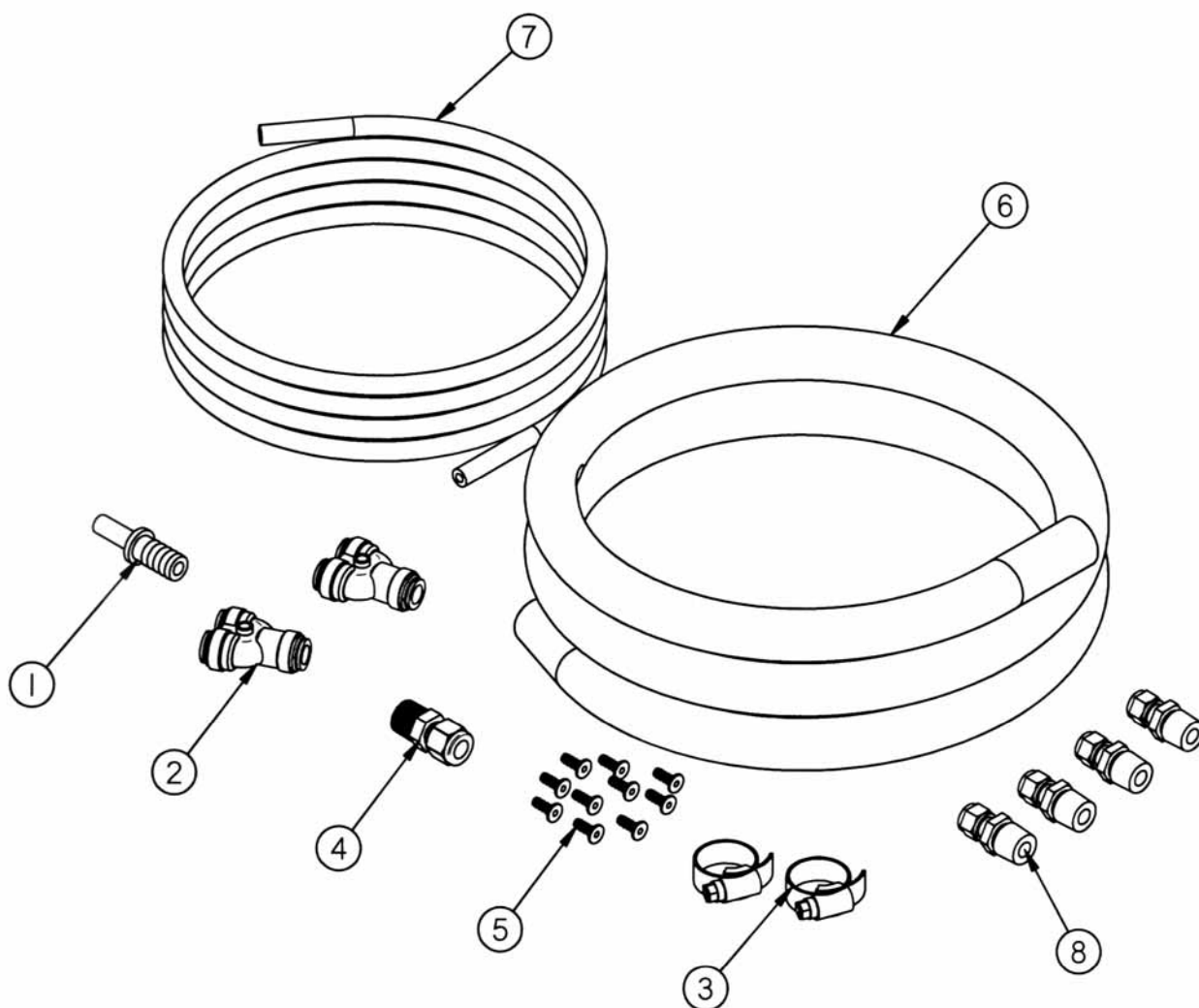
### Installation Procedure

1. Review the diagrams and parts list attached before beginning the installation.
2. Follow the separate instructions included with the Automatic Pressure Controller to connect the manual valves on the glove box main chamber and transfer chamber to the Automatic Pressure Controller. Additional views are included here for your convenience. **Note: Observe that the orientation of the electric solenoid valves on the Automatic Pressure Controller are positioned with the words "OUT" for vacuum and "IN" for inert gas. See the gas flow direction arrows on page 5 of this instruction sheet.**
3. Connect four (4) each 3/8" tube x 3/8" NPT male connectors, item 8, to the four (4) electrical solenoid valves on the Pressure Controller. Apply Teflon tape to the connector's threads to seal and then tighten to the solenoid valves.
4. Cut four (4) each 12" long sections from the 3/8" OD x 3/16" ID tubing, item 7, and place tube inserts, item 5, into both ends of the four 12" long sections.
5. Insert one end of the four tubing sections into each of the four solenoid valves on the Pressure Controller and tighten the compression nuts 1-1/4 turns beyond finger-tight.
6. Locate the two-way dividers, item 2, and insert the opposite ends of the tubing sections into the two dividers. **Be sure the two vacuum "OUT" lines and the two inert gas "IN" lines are connected to the same divider as illustrated in the diagram on page 5.**
7. Connect the 3/8" OD to 1/2" ID hose barb stem, item 1, to the opposite end of the two-way divider for the vacuum lines.
8. Connect the 1" OD x 1/2" ID vacuum tubing, item 6, to the 1/2" hose barb on the divider and secure with a hose clamp, item 3. Connect and secure with a hose clamp the other end of the 1" OD x 1/2" ID vacuum tube to a rotary vacuum pump (vacuum pump purchased separately). **If potential particulate contaminants need to be filtered before the vacuum pump, then purchase a 0.2 Micron Filter (#5240100) and place it before**

**the vacuum pump. Consult your Safety Officer for proper venting or filtering of vacuum pump exhaust.**

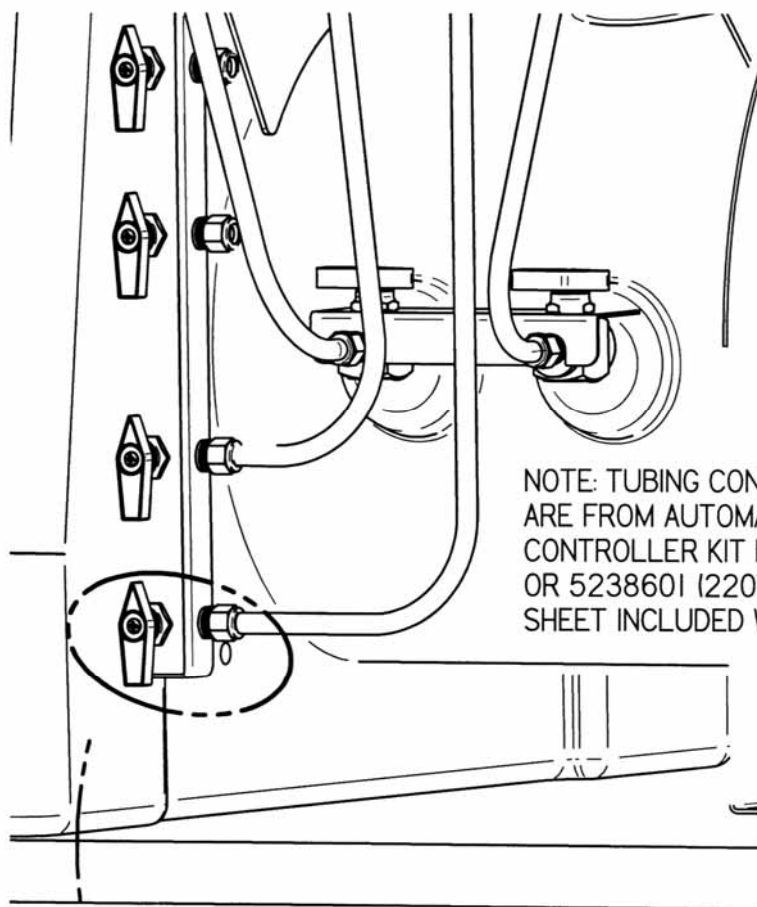
9. Connect the 3/8" tube x 1/4" NPT male connector, item 4, to the gas supply regulator. Apply Teflon tape to the connector's threads to seal and then tighten to the gas supply regulator as shown on page 5.
10. Place two tube inserts item 5, into the remaining 6' of the 3/8" OD x 3/16" ID tubing, item 7, and connect one end to the gas supply connector on the regulator. Connect the other end to the two way divider and attach to the inert gas "IN" lines and tighten the compression nut 1-1/4 turns beyond finger-tight.
11. Installation is complete.



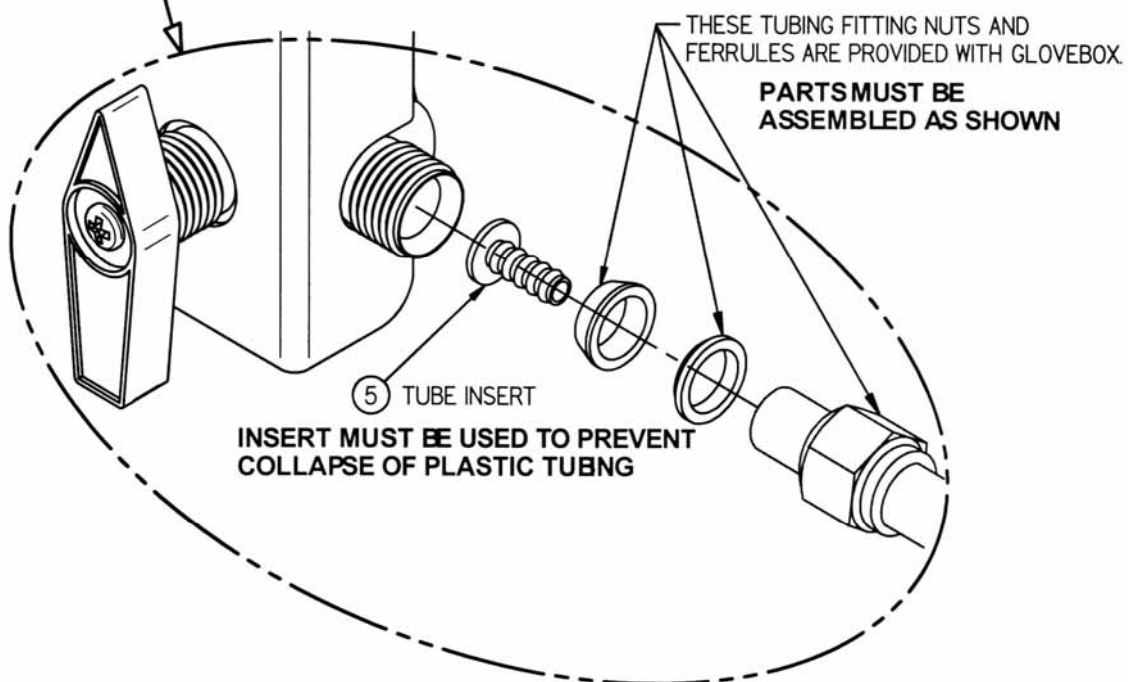


| 4                 | 8    | I410700  | CONNECTOR, MALE, BRASS 3/8 TUBE X 3/8 NPT   |
|-------------------|------|----------|---------------------------------------------|
| 10 FT             | 7    | I539500  | TUBING, CLEAR PVC - 3/8 OD X 3/16 ID        |
| 6 FT              | 6    | I550900  | TUBING, CLEAR PVC - 1.00 OD X .50 ID        |
| 10                | 5    | I409900  | INSERT, TUBE .375 TUBE OD X .188 ID         |
| 1                 | 4    | I410402  | CONNECTOR, MALE, BRASS - 3/8 TUBE X 1/4 NPT |
| 2                 | 3    | I488800  | CLAMP, HOSE                                 |
| 2                 | 2    | I544800  | TWO-WAY DIVIDER                             |
| 1                 | 1    | I548104  | STEM - 3/8 OD TUBE TO 1/2 ID HOSE           |
| QTY.              | ITEM | PART NO. | DESCRIPTION                                 |
| <b>PARTS LIST</b> |      |          |                                             |

## TUBING CONNECTIONS TO VALVES



NOTE: TUBING CONNECTIONS TO VALVES ARE FROM AUTOMATIC PRESSURE CONTROLLER KIT NO. 5238600 (115V) OR 5238601 (220V) SEE INSTRUCTION SHEET INCLUDED WITH KIT.



THESE TUBING FITTING NUTS AND FERRULES ARE PROVIDED WITH GLOVEBOX.

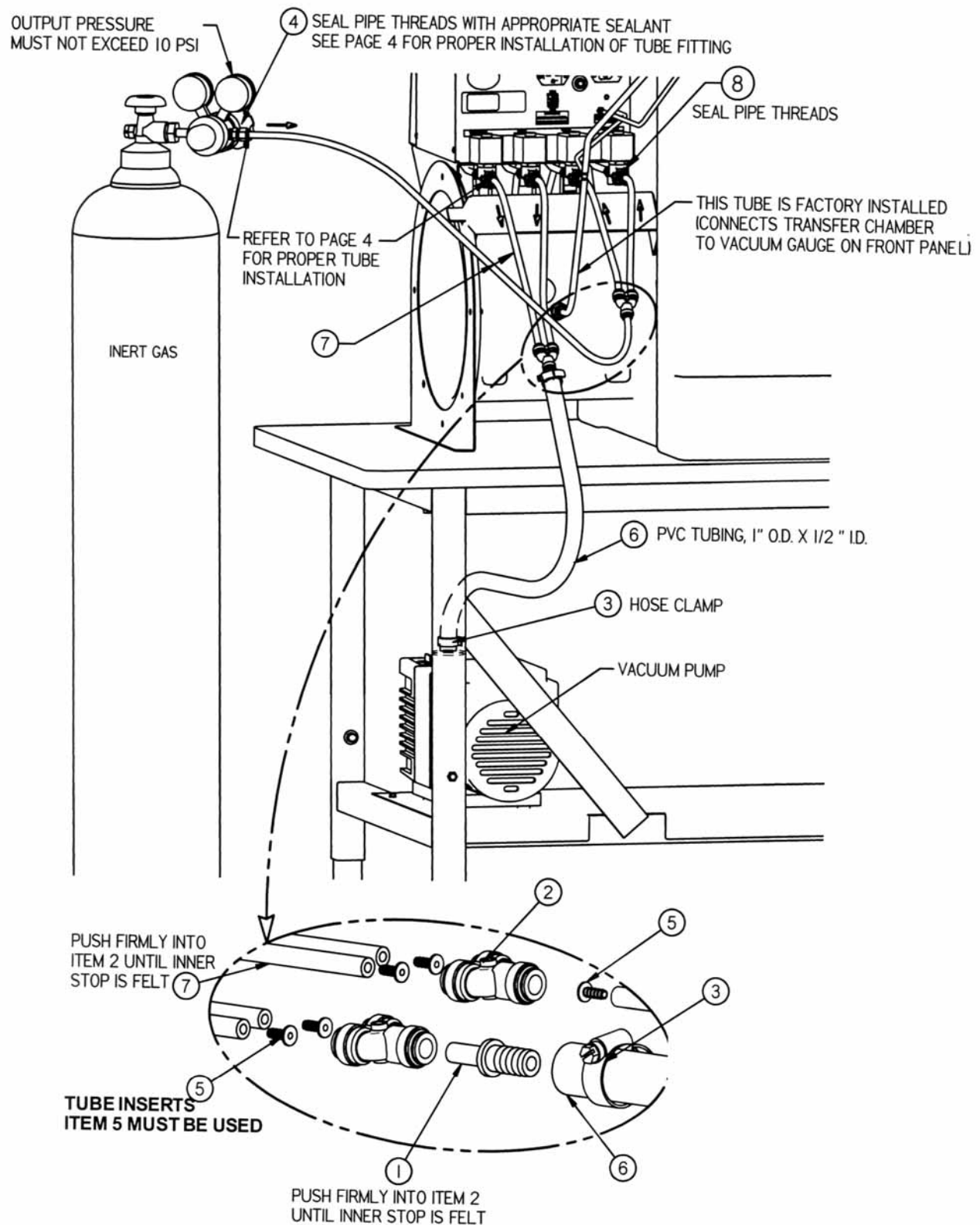
**PARTS MUST BE ASSEMBLED AS SHOWN**

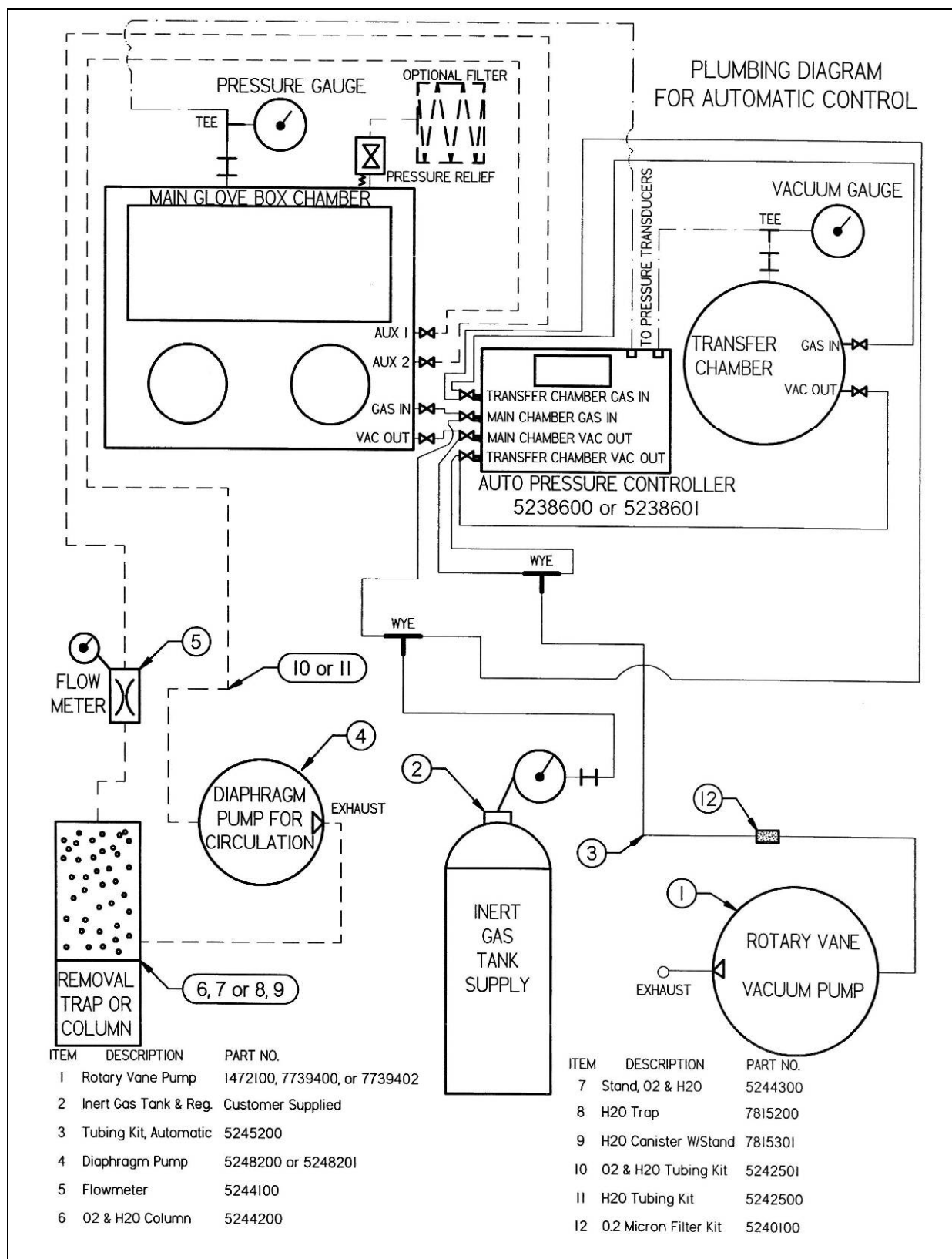
⑤ TUBE INSERT

**INSERT MUST BE USED TO PREVENT COLLAPSE OF PLASTIC TUBING**

ASSEMBLE PARTS ONTO TUBING AS SHOWN, INSERT INTO FITTING AND TIGHTEN NUT FINGER TIGHT, THEN TIGHTEN WITH A WRENCH ANOTHER 1-1/4 TURNS.

## TUBING CONNECTIONS TO GAS SUPPLY AND VACUUM PUMP





## Warranty

Labconco provides a warranty on all parts and factory workmanship. The warranty includes areas of defective material and workmanship, provided such defect results from normal and proper use of the equipment.

The warranty for all Labconco products will expire one year from date of installation or two years from date of shipment from Labconco, whichever is sooner, except the following;

- Purifier® Delta® Series Biological Safety Cabinets and PuriCare® Lab Animal Research Stations carry a three-year warranty from date of installation or four years from date of shipment from Labconco, whichever is sooner.
- SteamScrubber® & FlaskScrubber® Glassware Washers carry a two-year warranty from date of installation or three years from date of shipment from Labconco, whichever is sooner.
- Blood Drawing Chairs carry a ten year warranty.
- Carts carry a lifetime warranty.
- Glassware is not warranted from breakage when dropped or mishandled.

This limited warranty covers parts and labor, but not transportation and insurance charges. In the event of a warranty claim, contact Labconco Corporation or the dealer who sold you the product. If the cause is determined to be a manufacturing fault, the dealer or Labconco Corporation will repair or replace all defective parts to restore the unit to operation. Under no circumstances shall Labconco Corporation be liable for indirect, consequential, or special damages of any kind. This statement may be altered by a specific published amendment. No individual has authorization to alter the provisions of this warranty policy or its amendments. Lamps and filters are not covered by this warranty. Damage due to corrosion or accidental breakage is not covered.

## Returned or Damaged Goods

Do not return goods without the prior authorization from Labconco. Unauthorized returns will not be accepted. If your shipment was damaged in transit, you must file a claim directly with the freight carrier. Labconco Corporation and its dealers are not responsible for shipping damages.

The United States Interstate Commerce Commission rules require that claims be filed with the delivery carrier within fifteen (15) days of delivery.

## Limitation of Liability

The disposal and/or emission of substances used in connection with this equipment may be governed by various federal, state, or local regulations. All users of this equipment are required to become familiar with any regulations that apply in the user's area concerning the dumping of waste materials in or upon water, land, or air and to comply with such regulations. Labconco Corporation is held harmless with respect to user's compliance with such regulations.

## Contacting Labconco Corporation

If you have questions that are not addressed in this manual, or if you need technical assistance, contact Labconco's Customer Service Department or Labconco's Product Service Department at 1-800-821-5525 or 1-816-333-8811, between the hours of 7:00 a.m. and 6:00 p.m., Central Standard Time.