

USERGUIDE

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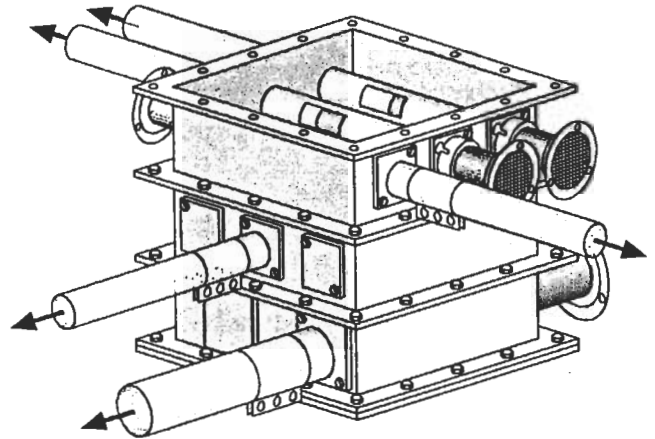
Distribution Box

Distribution Box

Installation, Operation and Maintenance Instructions

Installation

1. Before installing distribution box, be certain bottom cover plate is securely fastened and gasket is in place. If box assembly consists of multiple sections be certain adjacent sections are securely bolted together and gaskets are in place. Tube mounting flange must also be securely fastened to prevent material leakage and any tube opening that is not fitted with a tube must be covered with a cover plate and gasket.
2. Orient and bolt distribution box assembly beneath slide gate of storage silo or surge bin, being certain to use gasket between mounting flanges.
3. Loosen thumbscrews holding adjustable air tubes and push each tube into box up to the welded stop on the tube and lightly retighten thumbscrews.
4. Install each material conveying line up to respective feed tube stub on distribution box. (Material line must be same O. D. size as distribution box feed tube.) Connect conveying line to feed tube stub with appropriately sized Conair 'O' ring coupling or compression type coupling. NOTE: Feed tube stubs on distribution box are aluminum and sized by their O. D., so when connecting EMT (Electrical Metal Tubing) – sized by its I. D. – to feed stubs, a special Conair 'O' ring adaptor will be required.
5. All material conveying lines must be securely supported separately. Avoid putting a strain on the distribution box.
6. Feed tubes may be oriented in either direction and multiple section boxes may have individual sections oriented in any direction with respect to each other. (See figure)



Operating Instructions

Feed Tube Adjustments

To obtain the maximum conveying rate with a vacuum loader, it is necessary to set the ratio of material to conveying air. This is especially true when long conveying distances or high vertical lifts are involved. If too much material is drawn into the tube, surging will occur and the average flow rate will decrease.

*Above views illustrate a typically stacked module, showing the flexibility to install a variety of outlet sizes (blocking unused ports) and sending material in any desired direction. **Note:** when placed against a wall, a minimum of 24" clearance must be allowed to interchange feed tubes.*

The effect of too much material is aggravated by high vertical runs in the conveying line. When the vacuum is shut off, the material in transit falls to the bottom of the column and jams in the elbow, causing surging and/or poor flow at the beginning of the next cycle.

To adjust material to air ratio:

1. Start with adjustable air inlet tube pushed completely into distribution box.
2. With vacuum loader operating, gradually withdraw air inlet tube until a smooth material flow occurs. This flow should occur after the material / air stream reaches operating velocity. Ignore any slight surging at beginning of conveying cycle.
3. Note the distance that the air inlet tube is withdrawn (the position of smooth flow).
4. Close air inlet tube completely by pushing all the way in. Allow loader to complete one operating cycle in order to purge all material from conveying line.
5. Withdraw air inlet tube to previously noted position, and then push in about 1/8 inch.
6. Operate vacuum loader for two or three cycles to be certain that surging is not developing. If surging occurs, push air inlet tube in another 1/8" and check again. Very slight surging during first few seconds on the cycle is normal.
7. Once the desired setting for the adjustable air inlet tube has been established, tighten the thumbscrew. Do not overtighten.
8. If the distribution box has multiple outlets, adjust each one independently. If a single outlet serves more than one loader, adjust setting using loader that is located furthest from the distribution box.
9. If the distance between vacuum loader and distribution box changes or the material being conveyed changes, the setting of the air inlet tube should be changed. Repeat steps 1 through 8.

Maintenance

1. The Conair distribution box requires very little attention; however, filters on the air inlet tubes should be checked periodically. To clean filters turn off the vacuum loader, close the slide gate and simply remove the entire air inlet tube from the box and clean. Dirty filters can significantly hamper vacuum loader performance. Do not operate vacuum loaders without filters on air inlet tubes.
2. Bottom cover plate of distribution box may be removed for inspection or to clean inside of box. Be sure to always close the slide gate above distribution box before removing bottom cover plate or tubes.

Conair has made the largest investment in customer support in the plastics industry. Our service experts are available to help with any problem you might have installing and operating your equipment. Your Conair sales representative also can help analyze the nature of your problem, assuring that it did not result from misapplication or improper use.

WE'RE HERE TO HELP

To contact Customer Service personnel, call:



HOW TO CONTACT CUSTOMER SERVICE

From outside the United States, call: 814-437-6861

You can commission Conair service personnel to provide on-site service by contacting the Customer Service Department. Standard rates include an on-site hourly rate, with a one-day minimum plus expenses.

If you do have a problem, please complete the following checklist before calling Conair:

- Make sure you have all model, serial and parts list numbers for your particular equipment. Service personnel will need this information to assist you.
- Make sure power is supplied to the equipment.
- Make sure that all connectors and wires within and between loading control and related components have been installed correctly.
- Check the troubleshooting guide of this manual for a solution.
- Thoroughly examine the instruction manual(s) for associated equipment, especially controls. Each manual may have its own troubleshooting guide to help you.
- Check that the equipment has been operated as described in this manual.
- Check accompanying schematic drawings for information on special considerations.

BEFORE YOU CALL ...

Additional manuals and prints for your Conair equipment may be ordered through the Customer Service or Parts Departments for a nominal fee.

EQUIPMENT GUARANTEE

Conair guarantees the machinery and equipment on this order, for a period as defined in the quotation from date of shipment, against defects in material and workmanship under the normal use and service for which it was recommended (except for parts that are typically replaced after normal usage, such as filters, liner plates, etc.). Conair's guarantee is limited to replacing, at our option, the part or parts determined by us to be defective after examination. The customer assumes the cost of transportation of the part or parts to and from the factory.

PERFORMANCE WARRANTY

Conair warrants that this equipment will perform at or above the ratings stated in specific quotations covering the equipment or as detailed in engineering specifications, provided the equipment is applied, installed, operated and maintained in the recommended manner as outlined in our quotation or specifications.

Should performance not meet warranted levels, Conair at its discretion will exercise one of the following options:

- Inspect the equipment and perform alterations or adjustments to satisfy performance claims. (Charges for such inspections and corrections will be waived unless failure to meet warranty is due to misapplication, improper installation, poor maintenance practices or improper operation.)
- Replace the original equipment with other Conair equipment that will meet original performance claims at no extra cost to the customer.
- Refund the invoiced cost to the customer. Credit is subject to prior notice by the customer at which time a Return Goods Authorization Number (RGA) will be issued by Conair's Service Department. Returned equipment must be well crated and in proper operating condition, including all parts. Returns must be prepaid.

Purchaser must notify Conair in writing of any claim and provide a customer receipt and other evidence that a claim is being made.

WARRANTY LIMITATIONS

Except for the Equipment Guarantee and Performance Warranty stated above, Conair disclaims all other warranties with respect to the equipment, express or implied, arising by operation of law, course of dealing, usage of trade or otherwise, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.