

DUSTKOP

DUST COLLECTORS ®

MAINTENANCE INSTRUCTIONS FOR ALL OF THE FOLLOWING MODELS

FILTER UNITS STARTING WITH:

FT24, FT24S

FT25, FT25S, FT125, FT125S

FT40, FT40S, FT140, FT140S

FT64, FT64S, FT164, FT164S

FT88, FT88S, FT188, FT188S

LUBRICATION

Follow instructions on the motor manufacturer's tag attached to motor. Put the motor of this DUSTKOP on your regular motor maintenance schedule.

Every 6 months lubricate shaker connecting linkage with light oil. The shaker flange bearings should be lubricated every 3 years.

FILTER TUBE SHAKING

1. The collected dust that accumulates on the inside surface of the filter tubes must be shaken off periodically. The amount of dust that is collected determines the frequency of shaking. Generally, a shaking period of 15-30 seconds at the end of each shift is sufficient to recondition the filter tubes.
2. DO NOT shake filter tubes while the dust collection fan is operating! This will reduce filter performance by plugging up the filter tubes and cause fine dust to leak through the filter fabric.
3. DO NOT operate the shaker continuously! Excessive shaking will drastically reduce the life of the shaker drive linkage and the filter tubes.
4. When shaking the filter tubes no longer restores adequate suction, the filter tubes should be replaced with new ones. See "Filter Tube Replacement".
5. Powered shaking can either be controlled manually through a "jog button" or automatically by means of an SST-1 or SST-3 solid state shaker control.
6. The dust collection drum(s) or hopper should be checked regularly to establish a pattern that will provide for it being emptied when it becomes approximately 2/3 full of collected material. Allowing the dust collection drum(s) or hopper to overfill can result in a plugged hopper and/or filter tubes, which can seriously reduce the unit's air handling capacity (CFM) and filtration efficiency.

FILTER TUBE SHAKING, cont.

7. Collected dust should be disposed of properly, especially in cases where the dust being collected is rated as being either hazardous or toxic. In such case, established governmental disposal regulations must be strictly obeyed.

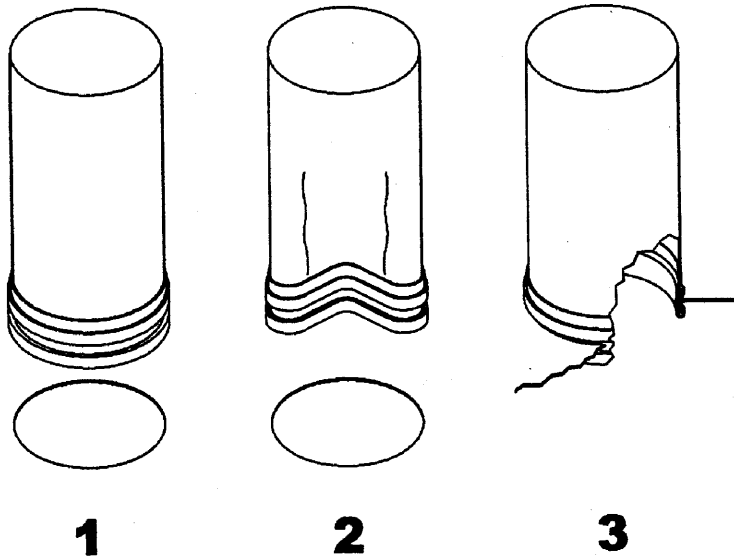
FILTER OPERATION and MAINTENANCE

1. Make absolutely certain that all electrical power to the filter unit is disconnected before servicing or replacing filter components, especially when the fan motor and/or shaker are involved.
2. In order for your DUSTKOP filter to operate at its maximum possible efficiency, its duct system should be designed in accordance with good dust collection practices to ensure proper airflow. The Industrial Ventilation Manual of the Conference of Governmental Industrial Hygienists, or other recognized reference material, is recommended as a guide to proper duct system design.
3. The dust collector electrical system, including wiring, controllers, overload protection, and disconnect must be installed in accordance with the National Electrical Code, Articles #310 and #430, or as specified by local code.
4. In order for the DUSTKOP to function properly, the fan must be checked visually to ensure rotation is in the proper direction as shown by the arrows on the fan housing. Rotation can be checked by viewing the fan wheel, the cooling fan on the back of the motor, or the motor shaft behind the fan housing. Reverse rotation will not reverse airflow direction, but will greatly reduce air volume, suction (S.P.), dust capture, and separation efficiency.
5. It is EXTREMELY IMPORTANT that an airtight seal be maintained at all times on the dust storage container. On "D1", "D2", 1RC, and RCS units, this means that an airtight seal between the drum cover(s) and drum(s), and hose connections be maintained. On hopper models, the slide gate must be tightly closed. On "pull-through" models, failure to maintain the airtight seal in any of the above mentioned cases will provide an air entry in this part of the system that will deplete the required exhaust air volume (CFM) for the dust collection system. Consequently, dust may not be properly collected at the various collection points or may even build up in the ductwork.
6. Employees should be warned not to throw lit cigarettes or any burning or glowing objects into the dust collection hood.

FILTER TUBE REPLACEMENT

1. Shake filters and allow dust to settle.
2. Disconnect all electrical power to the dust collector.
3. Follow all local safety codes and/or OSHA standards for breathing apparatus, if required.
4. Remove access panel, to gain access to the filter tubes, if so equipped.
5. Remove existing filter tubes, being careful not to stir up any more dust than necessary. Clean out baghouse, as required.
6. Install new filter tubes, as illustrated in the three step procedure located on the following page. Make sure filter tubes are straight, not twisted, and properly connected to the shaker linkage. Make sure filter tube snap ring cuff is seated properly in the bagplate.
7. Reconnect all electrical power to the dust collector.
8. Dispose of dirty filter tubes, following all local, state, and federal regulations.

FILTER TUBE REPLACEMENT, cont.



TROUBLESHOOTING

PROBLEM: Inadequate Airflow and Suction

POSSIBLE CAUSE

Fan running backwards

Drum cover(s) not clamped or sealed properly to drums(s). Hopper slide gate not closed. (Pull-Through models only)

Filters plugged

Ductwork or cyclone plugged

System design/duct sizes

SOLUTION

See No. 4, "Filter Operation". Have electrician reverse motor direction.

Clamp drum cover(s) on drum properly. Obtain a good 55-gallon drum with a uniform rim (not bent or dented). Tightly close slide gate on hopper.

Review your filter shaking procedures. See "Filter Tube Shaking" instructions. See "Problem: High Filter Resistance".

Visually check ductwork and cyclone interior, and clean as required.

Contact nearest Aget representative.

PROBLEM: Electrical Overload

POSSIBLE CAUSE

Branch circuit fuses incorrect size

Motor starter heater elements incorrect size

Motor starter, disconnect, or wiring undersized
Loose connection

SOLUTION

Size fuses for branch circuit protection per National Electrical Code 430-52 and Table 430-152.

Size heater elements according to motor nameplate full load amps, per National Electrical Code 430-32.

Size according to National Electrical Code Article 430.

Check all connection points.

PROBLEM: Excessive Dust Bleed-Through

POSSIBLE CAUSE

Air-to-filter ratio too high (CFM/Sq.Ft.)
Incorrect filter media

SOLUTION

Add more filter
Contact nearest Aget representative.

TROUBLESHOOTING, cont.

POSSIBLE CAUSE

Shaker operating while dust collection fan is running
Ruptured filter tube, or improperly installed filter tube cuff in bagplate

SOLUTION

Shaker should only be operating when dust collection fan is off.
Replace ruptured filter tube. Reposition filter tube cuff in bagplate

PROBLEM: High Filter Resistance

POSSIBLE CAUSE

Filter tubes plugged

Shaker operating while fan is running

Shaker control not operating

Not shaking filter tubes often enough, or long enough

Air-to-filter ratio too high (CFM/Sq.Ft.)
Dust bin or drum(s) overfilled and backed up into filter tubes

Incorrect filter media

SOLUTION

Shake filter tubes. If airflow is not restored, filter replacement may be necessary. See "Filter Tube Shaking".
Operate shaker only when fan is stopped.
Review wiring diagram and troubleshooting sheet shipped with control.
Increase shaking frequency and, only if necessary, increase shaking time. Time should rarely exceed 30 seconds.
Add more filter area.
Empty dust bin or drum(s). Clean dust out of filter tubes where it has backed up into them.
Contact your Agnet representative.

STATEMENT OF WARRANTY

We guarantee equipment produced by **AGET MANUFACTURING COMPANY** for a period of one year from the date of shipment against defects in workmanship and materials. All necessary replacements or repairs are F.O.B. Adrian, Michigan, and are subject to our inspection.

All electrical motors furnished with our equipment are warranted by the motor manufacturer and the motor industry's policy on repair or replacement must be followed in the event of a failure. The user must take the motor to the nearest authorized repair or service station with the request, preferably in writing, that the motor is for warranty inspection and giving the source of the motor (us) and the date of its acquisition.

From code numbers on the motor, the service shop can determine whether or not it is still within the warranty period. If found to be defective, it will either be repaired or replaced.

Contact us first before taking any action on a defective motor, as stated on the red tag attached to it. We can then advise the location of the nearest motor service authorized by the motor manufacturer to handle claims under warranty.

This warranty is in lieu of any other warranty, spoken or implied.

AGET Manufacturing Company

1408 East Church Street

P.O. Box 248

Adrian, Michigan 49221

Phone: 517/263-5781

Fax: 517/263-7154

