Installation, Operating and Maintenance Instructions for KTM "AC" Type Dust Collector

The "AC" unit is completely pre-assembled at our Brampton facility. Simply stand the unit up in the required location.

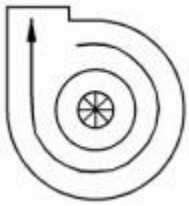
For arrangement 2 "AC" dust collectors, connect the discharge sleeve to the opening on the bottom of the unit with the included gear clamp.

Install the collector drum below the discharge sleeve. Bolt the two small angle iron cleats to the floor, so that they correspond with the similar angles on the bottom sides of the drum. Place the lid on the drum and slide the nylon sleeve and quick release clamp over the top of the drum. Tighten the clamp in position.

Arrangement 1 "AC" dust collectors have a built-in dust drawer.

Connect the ducting to the unit inlet.

A licensed electrician is required to connect the motor, switch and electrical supply line. Run the fan and check to ensure the rotation turns toward the outlet. The unit is fitted with a sound attenuation device (silencer) and you will need to undo the four quick release catches on the bottom edge of the box and lift the box off the fan and motor. The fan direction can now be observed. You may also view the rotation of the motor's rear cooling fan. When it is running in the proper direction (see diagram), place the sound box back over the fan and clamp the catches back into position.



Connect the single-phase plug from the solenoid switch to your power supply.

Connect a compressed air supply to the coupling on the side of the "AC" unit. This air should be clean and dry, and the system requires 80 to 100 P.S.I.

With the fan running, the sequential controller will automatically be switched on and the solenoid valve should pulse a jet of compressed air back through the filters. This pulse is easily recognized as it feels and sounds like a mini explosion within the unit. We have set the sequential controller to run for one minute and then pulse. Time between pulses can be adjusted from one to five minutes.

Measure the amps on the fan motor. They should not exceed the full load running

amps. If the amps are exceeded contact Kraemer immediately as the motor will overload. We would then need to increase the resistance on the system.

The unit is now ready for operation.

Operating Instructions

Before starting the fan motor, the access door must be closed and the connected ducting must be fixed in position on the dust collector inlet.

Start the fan/motor using the switch provided and plug the electrical power cord to the power source.

Ensure that the compressor is running and connected to the compressed air coupling on the "AC" unit.

The unit is now operational.

The cleaning pulse will work approximately every one to five minutes during the day depending on how much work is taking place.

The sequential controller activates the cleaning pulse by sending an electrical signal to the solenoid which opens the diaphragm valve and allows the compressed air in the storage tank to pulse through the filter cartridges, reversing the flow for a fraction of a second. The pulse dislodges particles of dust in the pleats of the cartridge. Pulsing is done continuously while the fan is running.

The dust drum or drawer should be checked periodically and emptied if necessary. Simply turn the unit off, and with no suction the lid can be lifted off the drum using the flex coupling for movement. Turn the drum 3 inches to release from the cleats. Slide the drum out and empty. To replace the drum, reverse the procedure. To remove the dust drawer, undo the two wing nuts on the front and slide it out to empty. To replace the drawer, reverse the procedure.

Maintenance Suggestions

The dust drum or drawer should be checked and emptied on a regular basis. The frequency of this step will depend on the shifts and the volume of dust.

The condition of the filter cartridges should be checked regularly. To do this, open the access panel on the front of the housing. Because the compressed air is continuously cleaning the filter cartridges, they should be fairly clean. Check for tears or holes in the pleats and also for dust plugs between the pleats. If the cartridges are dirty, remove them and clean with compressed air. When necessary, or if damaged, they can be replaced.

To remove the cartridges, once the access door/panel has been opened, remove the two bolts located at each side of the dust collector at the bottom of the filter holding frame. These bolts hold the filter frame at the correct height against the angle iron stops. Now loosen the four nuts on the bottom of the threaded rods. These nuts are located below the retaining rings under the filter cartridges. Once they have been loosened, the cartridges and rings will drop down slightly allowing the cartridges to slide off the retaining rings and be removed via the access door/panel.

To replace the cartridges, simply reverse the procedure, ensuring that the cartridges are seated properly on the rings and that the sealing gaskets on top of the filters fit snugly against the bottom of the hole sheet. As the four nuts on the rods are tightened, the seals are squeezed. When the two bolt holes on the sides line up, the tension is correct.

Replace the door/panel and check the door seals to ensure an airtight fit.

Lubrication Requirements	
Usage / Conditions	
1 *	*One or two shifts per day*
2 *	*Normal 24 hour continuous use*
3 *	*24 Hour continuous use in dirty or moist locations*
4 *	*High vibration or shaft end hot*
5 *	*Seasonal (used only for part of the year)*

HP Range	Usage / Conditions	Relube Interval
Fractional to 7.5	*1 **	*5 years*
Fractional to 7.5	*2 **	*2 years*
Fractional to 7.5	*3 **	*6 months*
Fractional to 7.5	*4 **	*6 months*
Fractional to 7.5	*5 **	*start of season*
10 to 40	*1 **	*3 years*
10 to 40	*2 **	*1 year*
10 to 40	*3 **	*6 months*
10 to 40	*4 **	*6 months*
10 to 40	*5 **	*start of season*
50 to 200	*1 **	*1 year*
50 to 200	*2 **	*9 months*
50 to 200	*3 **	*3 months*
50 to 200	*4 **	*3 months*
50 to 200	*5 **	*start of season*

Type of Equipment	Type of Grease	Generic
Eberle Motors	*Beacon 325*	*Lithium Complex*
Hyundai Motors	*Beacon 325*	*Lithium Complex*

Leeson Motors	*Shell Dolium*	*Polyurea*
VP Motors	*Beacon 325*	*Lithium Complex*
Weg Motors	*Beacon 325*	*Lithium Complex*
Other Motors	*See Manufacturer*	*See Manufacturer*
Pillow Blocks	*Alvania Grease 2*	*Lithium*
Gearboxes	*Castrol Hypoy C*	*Gear Oil SAE 80W-90*
**** Use of any non-compatible (Aluminum, Barium, Sodium or Bentone) grease will void warranty ****		

If you have any questions, please call us at 1-800-443-6443.