

Operations & Maintenance Manual

SPH Mini

IMPORTANT:

Save shipping box and foam for future service. Shipping without proper foam will cause damage to unit.

LIST OF COMPONENTS

Dust Collector/Purifier
Open lid of Dust Collector, you will find power cord.

UNIT INSPECTION

Upon receipt, inspect unit for either visible or concealed damage. Damage should be immediately reported to the transport company.
If you suspect concealed damages inside the box indicate so, on the transport companies' shipping documents.

SAFETY PRECAUTIONS

Carefully read instructions in this manual before operation (keep manual as it contains information for proper operation and maintenance). Keep all fastening hardware tight to ensure that the unit is in safe working condition. Familiarise yourself with the way in which the special filter is removed, installed, and serviced. Filter must be in place whenever this machine is in operation. Use only on grounded electrical circuit; do not use two-wire electrical prong adapters to defeat the three-pronged plug on the end of the cord. **Do not substitute any other filter for the one supplied, as it will alter the design characteristics. UNPLUG UNIT FROM ITS POWER SUPPLY PRIOR TO SERVICING UNIT!**

OPERATING INSTRUCTIONS

- Connect 1-1/2" dia. hose to inlet on top of unit
- Connect the other end of the hose to your dust source.
- Plug-in the power cord to both Dust Collector / Purifier Control Panel and 115-volt wall outlet
- Switch toggle to "ON" position.
- OPTIONAL: Switch toggle to "REMOTE" position and use in conjunction with any Quatro Remote control. See the last page for Quatro Remote Options.

EQUIPMENT MAINTENANCE

Filter Bag (PN: F144 5Pack p/n: AG140): The system is designed to capture 99% of debris. When you notice a significant drop in suction, it is time to change the filter bag. Do not try to clean filter bag as this will result in tear. To replace Filter Bag, unhinge top cap of unit and remove cap. Slide the bag inlet off the inlet pipe. Remove the Cylindrical Filter, and vacuum out any dust at the base prior to re-installing, ensuring longer motor life. Re-Insert Cylindrical Filter and re-install new filter bag into the Cylinder. Replace top Cap of unit and fasten to bottom casing.

WARNING: DO NOT OPERATE UNIT UNLESS FILTER IS IN PLACE, AS MOTOR MAY BURN-OUT.

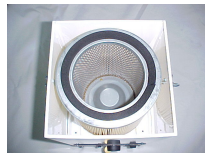
Cylinder Filter (PN: F180): Upon installing new bag, if you notice a decrease in suction, it may be time to change CYLINDER filter. (Typically once every 4 years if using Filter Bag, & once every year if NOT using Filter Bag).



F144 Filter Bag



F144 Filter Inside
F180 Cylinder



F180 Cylinder
Inside Unit

To replace Filters:

- Remove Cover
- Remove F144 Filter Bag
- F180 Cylinder can be removed as well

3) High Speed Turbine Maintenance (Graphite Motor Brushes) (PN: AB112, 2/pkg): Open motor side door by unscrewing 6 screws.

MOTOR DOES NOT NEED TO BE REMOVED TO REPLACE GRAPHITE RODS.

- 1) Using a phillips screwdriver, unscrew the 2 screws holding down each of 2 gold colored rod casings
- 2) Lift gold colored tab and lift/pull out each rod 3) Replace each rod onto turbine motor, screwing down the phillips screws over tab.
- 4) After rods have been installed, run motor at 50% power for 30 minutes to reduce/eliminate sparking.

4) High Speed Turbine Replacement (PN: AB001): Open motor side door by unscrewing 6 screws. **Remove Control Panel by unscrewing (2) nuts on blower side and (1) nut on Filter side (DO NOT need to unwire panel, only loosen to move out of the way, so Turbine will pass).** Unscrew (3) nuts (using 1/4" socket) that hold down the turbine. Turbine, along with holding bracket will lift up and off. Unwire 3 wires and replace with new blower. Fasten using same (3) nuts.

TROUBLESHOOTING GUIDE

Symptoms	Possible Cause	Suggested Solution
Unit will not start	<ul style="list-style-type: none"> • Faulty power supply • Circuit breaker popped • Motor Brush Spent • Motor burnt 	<ul style="list-style-type: none"> • Check breaker box • RESET circuit breaker on unit panel • Replace Motor Brush • Replace motor
Excessive noise	<ul style="list-style-type: none"> • Turbine impellar contacting housing 	<ul style="list-style-type: none"> • Replace motor
Insufficient airflow	<ul style="list-style-type: none"> • Obstruction in system • Clogged filter 	<ul style="list-style-type: none"> • Remove obstruction • Replace filter
Motor shuts off	<ul style="list-style-type: none"> • Motor shut down on thermal cutout • Graphite brushes are consumed • Motor is burnt 	<ul style="list-style-type: none"> • Check for obstruction/clogged filters • Replace brushes (PN: AG112, 2/pkg) • Replace motor
Excessive airflow	<ul style="list-style-type: none"> • Filter not in place 	<ul style="list-style-type: none"> • Install filter
Suction varies from workstation to workstation	<ul style="list-style-type: none"> • Hose lengths between stations vary 	<ul style="list-style-type: none"> • Adjust damper or blast gate at each station equalizing suction

SPARE PARTS

Qty	Description	Part	Qty	Description	Part
1	Filter Bag,5/pkg	AG140	1	120v Replacement Turbine	AB001
1	CYLINDER Filter	F180	1	230v Replacement Turbine	AB002
1	ON-OFF Switch	E110	1	Graphite Motor Brushes (2 pack)	AB112
1	ON-OFF-REMOTE Switch	E035	4	Turbine Isolator (Single)	H700

REMOTE ON-OFF OPTIONS

ON-OFF Control

Your unit is furnished with a REMOTE PLUG. You have the option of Starting-Stopping your unit at the panel, or purchase one of the Remote ON-OFF accessories below:



Single Station,
Hand Remote ON-OFF Switch
PN: AA011



2-Station,
Hand Remote ON-OFF Switch
PN: AA012



Single Station, FLAT
FOOT-Pedal, ON-OFF Switch
PN: AA114



Single Station, 2" HIGH
FOOT-Pedal, ON-OFF Switch
PN: AA113