

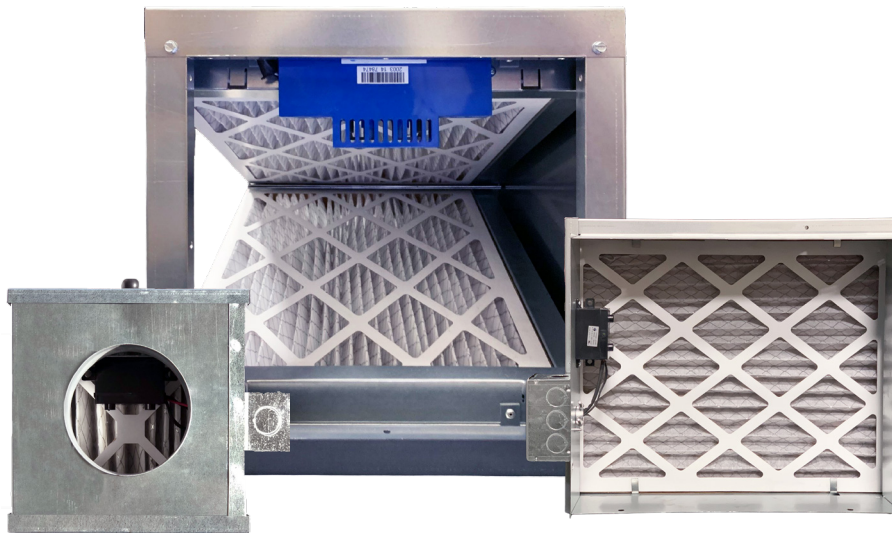


ADVANCING
VENTILATION®

BreatheClean Filter Box

Featuring NPBI® Technology

Installation, Operation, and Maintenance Manual



READ AND SAVE THESE INSTRUCTIONS

The purpose of this manual is to aid in the proper installation and operation of fans and equipment manufactured by Soler & Palau USA. These instructions are intended to supplement good general practices and are not intended to cover detailed instruction procedures, because of the wide variety and types of fans and equipment manufactured by Soler & Palau USA.

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INSTALLATION INSTRUCTIONS

WARNING

DO NOT INSTALL, USE OR OPERATE THIS EQUIPMENT UNTIL THIS MANUAL HAS BEEN READ AND UNDERSTOOD. READ AND SAVE THESE INSTRUCTIONS FOR FUTURE USE.

It is the responsibility of the purchaser to assure that the installation and maintenance of this equipment is handled by qualified personnel experienced in such work and equipment.

Contact your local representative should you need further information.

SHIPMENT AND RECEIVING

Prior to shipment, all products have been thoroughly inspected and tested.

All equipment shipped from Soler & Palau USA is skidded, crated or boxed to full comply. Inspect all shipments carefully for damage. **THE RECEIVER MUST NOTE ANY DAMAGE ON THE CARRIER'S BILL OF LADING AND FILE A CLAIM IMMEDIATELY WITH THE FREIGHT COMPANY, IN THE CASE OF ANY DAMAGE.** Keep a record of all equipment received, including inspection details and date of receipt, because of the possibility of partial shipments.

If you receive damaged goods, contact your S&P representative for repair or replacement service.

STORAGE:

If products are stored for any length of time, they should be stored in a clean, dry location to prevent rust and corrosion. Outdoor storage is not recommended. When outdoor storage is necessary, they should be protected from the elements as best as possible. Cover the filter box and keep the filters dry and clean.

INSTALLATION

1. **WARNING!** Do not install or operate this fan in an environment or atmosphere where combustible or flammable materials, gasses or fumes are present, unless it was specifically designed and manufactured for use in that environment. Explosion or fire can result. Explosive, corrosive, high temperature, etc. conditions may require special construction, inspection and maintenance. It is necessary to observe the fan manufacturer's recommendations and limitation concerning the type of material to be handled by the fan and its application in special conditions.
2. **CAUTION!** All electrical work must be done in accordance with local and/or national electrical codes as applicable. If you are unfamiliar with methods of installing electrical wiring, secure the services of a qualified electrician.
3. **DANGER!** Make sure power is turned off and locked in the **OFF** position at the service entrance before installing, wiring or servicing.
4. **CAUTION!** Before wiring the ion unit, check the supply voltag. High or low voltage can damage the unit and void the unit warranty.
5. **WARNING!** Be sure to keep all wiring clear of rotating or moving parts.

Please reference this chart for any specific instructions in regards to particular filter boxes:

Part ID	ION unit
BREATHCLEAN4	FC-3T-BAS
BREATHCLEAN5	FC-3T-BAS
BREATHCLEAN6	FC-3T-BAS
BREATHCLEAN1500S	FC-3T-BAS
BREATHCLEAN2200S	FC-3T-BAS
BREATHCLEAN2900S	FC24-AC
BREATHCLEAN4000S	FC24-AC
BREATHCLEAN5800S	FC24-AC
BREATHCLEAN450B	FC-3T-BAS
BREATHCLEAN1350B	FC-3T-BAS
BREATHCLEAN2050B	FC-3T-BAS
BREATHCLEAN3400B	FC24-AC
BREATHCLEAN4450B	FC24-AC

* Ion Units are not sold seperately.

FC-3T-BAS

Wiring:

1. Confirm the power is off prior to wiring. Follow all national electrical and building codes.
2. The FC-3T-BAS models come with a manufacturer mounted transformer (APV-12-24). Use this diagram to wire 120V/240V to the ION Unit:
3. Connect the orange wires to the Building Automation System wires or terminals (if present). If no BAS system is present, then insulate ends of wires.



Maintenance:

CAUTION: MAKE SURE POWER IS DISCONNECTED BEFORE SERVICING

The FC-3T-BAS requires very little maintenance. Over time particles will accumulate on the ion emitters and they will need to be cleaned periodically. In most applications annual cleaning will suffice.

1. Turn power to the FC-3 off
2. Gently brush the ion emitters with a nylon brush (toothbrush will work)
3. Restore power to the FC-3

FC24-AC

Wiring:

1. Confirm the power is off prior to wiring. Follow all national electrical and building codes.
2. S&P recommends the FC24-AC be powered constantly and not switched with the system or blower.
3. The FC24-AC will self-adjust to voltages from 24VAC to 240VAC. Output and performance will not be effected by the choice of input voltage. Connect the power wires as follows:
 - Black 24 -240VAC
 - White Neutral or L2
 - Green Ground
4. Wire in BAS terminals (optional). The FC24-AC is equipped with a set of dry contacts that are normally open and close when the FC24-AC is on and has no faults. The contacts are rated up to 250VAC and 1A.

5. Operation:

CAUTION: NEVER TOUCH BRUSHES WHILE OPERATING, SHOCK MAY OCCUR

Maintenance:

The FC24-AC comes with a preset cleaning cycle designed to clean the brushes every three days. While no maintenance is required on these units, if you want to change the cycle frequency, press the cleaning cycle button once. While cleaning is in progress press and hold the cleaning cycle button for 5 seconds. The LED will start flashing. Pressing the cleaning cycle button again will change the days between cleaning. The number of flashes indicates the cleaning interval in days (3 flashes=3 days, 5 flashes=5 days).

Filter Maintenance:

Of course there are many factors that can affect your filter's lifespan, so it is up to the user to check the filters frequently. There is not a strict guideline as to when they should be changed, but if your filter shows only a subtle layer of dirt under which the filter's material is still visible, your filter is in fine working order. Once it gets much beyond that point, it is ready to be changed out. If there is a visible coating of dirt covering most of your filter's surface that is adequately thick to obscure the filter material itself, that's a sign your filter has been used too long.

WARRANTY

S&P USA - S&P Canada warrant that the BreatheClean Filter Box will be free from defective materials and workmanship for the period of (5) years from the date of original purchase. This warranty does not include filters, and the ION Unit is warrantied for one year. In the event that we find any part is defective the product will be repaired or, in the Company's discretion, replaced without charge provided that the product has been installed in accordance with the enclosed instructions and all applicable EPA Standards and state and local building codes.

IF CLAIMING UNDER WARRANTY: Please return the complete product, freight paid, to your local authorized distributor. All returns must be accompanied by a valid Bill Of Sale. All returns must be clearly marked "Warranty Claim," with an accompanying description stating the nature of the fault.

THE FOLLOWING WARRANTIES DO NOT APPLY: Damages from shipping, either concealed or visible. Claim must be filed with the carrier. Damages resulting from improper wiring or installation Damages caused by acts of nature, or resulting from improper consumer procedures such as: Improper Maintenance; Misuse; Negligence; Alteration; Abuse; Abnormal Use; or Accident or Incorrect Electrical Voltage and Current. Removal or alteration to the S&P USA - S&P Canada data plate label.

WARRANTY VALIDATION: The end user must keep a copy of the Bill of Sale to verify purchase date.

THE ABOVE (5) YEAR WARRANTY FOR CONSTRUCTION OF FILTER BOX AND (1) YEAR FOR ION UNIT, FILTER IS EXCLUDED FROM WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, WRITTEN OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE. IN NO EVENT SHALL SOLER & PALAU USA - SOLER & PALAU CANADA BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING LOSS OF PROPERTY,

REVENUES, LOST PROFITS, COSTS OF REMOVAL, INSTALLATION OR REINSTALLATION. Any associated equipment, cost of capital, cost of substitute equipment, facilities or services, down time costs, or claims of customers of the purchaser for such damages. Soler & Palau USA neither assumes nor authorizes any persons to assume for it any other liability in connection with the sale of its fan products and parts. Some states do not allow the exclusion or limitation of incidental or consequential damages, so all of the above limitations or exclusions may not apply to you.

REPLACEMENT FILTERS

Reference the chart below to locate the correct product ID replacement filters and quantity for your BreathClean Filter Box

Models	MERV 13 Filter	Quantity Required
BREATHECLEAN1500S	2300.1417213	1
BREATHECLEAN2200S	2300.1721213	1
BREATHECLEAN2900S	2300.1922213	1
BREATHECLEAN4000S	2300.2227213	1
BREATHECLEAN5800S	2300.2632213	1
BREATHECLEAN450B	2300.1114213	1
BREATHECLEAN1350B	2300.1520213	2
BREATHECLEAN2050B	2300.1620213	2
BREATHECLEAN3400B	2300.2025213	2
BREATHECLEAN4450B	2300.2025213	3
BREATHECLEAN2350B	2300.2025213	2
BREATHECLEAN3550B	2300.2025213	3
BREATHECLEAN4	M13F8X8X2	1
BREATHECLEAN5	M13F8X8X2	1
BREATHECLEAN6	M13F8X8X2	1



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