How to use your...

Cartridge Cleaning WorkStation™

Cartridge Cleaning WorkStation™
Item Code SCC550
Item Code SCC1000
Item Code SCC550-E2

Contents
- Cartridge Cleaning WorkStation
- Catch Pail
- HEPAR Filter – Standard for SCC1000 Model Only
- *System Support Series #7*

Additional Items Needed
- Large Plastic Bags
  (Drawstring, Large Tie Wraps or Large Rubber Bands)
- Rubber Hammer
- Air Distribution Manifold (SCOWS-ADM)-
  SCC550, SCC1000 & SCC550 -E2 Models only
- Blow-Gun Kit (SCC550BGKIT)

Resupply Items
- Cartridge Filter (SCC550CF)

Optional Items
- HEPAR Filter (SCC550HF)
- Power Ionizer AirGun™ w/ armored cable
  (See SSS™ 275 ***"Power Ionizer Airgun™"*** for detailed product code information.)
- Power Ionizer AirGun™ Power Supply
  (See SSS™ 275 ***"Power Ionizer Airgun™"*** for detailed product code information.)

Contact your SCC Sales Team for ordering information.

HOW TO REACH US

SCC Imaging Division
3010 Lee Avenue • PO Box 152 • Sanford, NC 27331
US/Can 800·488·2426 • US/Can Fax 800·488·2452
Int'l 919·774·3808 • Int'l Fax 919·774·1287
www.scc-inc.com

Static Control Components (Europe) Ltd.
Unit 30, Worton Grange,
Reading • Berkshire RG2 0TG • United Kingdom
Tel +44 (0) 118 923 8800 • Fax +44 (0) 118 923 8811
www.scceurope.co.uk

Version 1
January 2007

Static Control™
www.scceurope.co.uk www.scc-inc.com

SAFETY NOTICES
SCC CARTRIDGE CLEANING WORKSTATION™

Warning ! Suitable protective clothing is to be worn during all operations

Warning ! This Workstation is not to be installed in a potentially explosive atmosphere.

Warning ! This workstation should only be connected to a power supply protected by a RCD or equivalent.

Warning ! The Workstation is heavy! Shipping weight is 500 lbs or 227 kg. When moving the Workstation use integral wheels or mechanical handling equipment

Warning ! There may be a fire or explosion hazard. Smoking or Naked flames are prohibited in the vicinity of the Workstation. To prevent electro-static discharges, grounding or earthing points should be checked before use.

Warning ! Toners may require special precautions. Always comply with the Material Safety Data Sheet for the specific toner being processed.

Warning ! When purging filters always wear a protective face mask.

Warning ! Exceeding the input pneumatic pressure (100 psi or 6.9 bar) could cause serious injury and damage to the equipment. Before any operations ensure that input and operating pressures are correct.

Warning ! High pressure air can cause injury. Never direct air towards the body – especially the eyes. Before operating the Workstation ensure there are no pneumatic leaks.

Warning ! Lethal voltages can cause Death. Always ensure cables and equipment are undamaged before connecting to the mains. Only qualified electricians are permitted to access enclosures or junction boxes housing electrical equipment.

Warning ! Water on the electrical parts of the Workstation could result in an electric shock. Never apply water even during cleaning operations.

Warning ! Disposal of materials could cause environmental damage. Always dispose of materials in accordance with the environmental regulations.

Electrical Requirements

The Cartridge Cleaning WorkStation requires a dedicated electrical circuit that is not shared with any other electrical equipment.

SCC550 Model (1 hp (0.75kW) 60 Hz)
110 vAC 60 HZ 15 amp circuit minimum, 20 amp recommended, single phase.
Or 220 (4-wire) vAC 20 amp circuit, single phase.

SCC1000 Model (2 hp (1.49kW) 60 Hz)
220 (4-wire) vAC 20 amp circuit, single phase dedicated circuit.

SCC550-E2 (2 hp (1.49kW) 50Hz) - Europe Only
220 vAC 50 HZ 7.5 amp circuit, single phase.

Wiring Color Code:

SCC1000 Model:
- Red w/Black Stripe: Live (Hot) (240v)
- Green: Earth (Ground)
- White: Neutral/Common

SCC550E Model (European):
- Brown: Live (Hot)
- Blue: Neutral/Common
- Green w/Yellow Stripe: Earth (Ground)

The users premises should have an RCD (Residual Current Device) or equivalent fitted to the mains electrical circuit.

Compressed Air Requirements

Compressed air is required to purge your filters. The minimum requirement for this Unit is a 2.24kW (3hp) compressor rated at 70.8 litres/min (2.5 cfm) with output pressure at 6.9 Bar (100psi).

Only use the Air Distribution Manifold (SCCS-ADM) and/or equivalent recommended by SCC with required listed air compressor.

Compressed Air Distribution Requirements

The air distribution manifold is shown on page 3. Refer to SCC *System Series Series #7* (included) for more detailed information on compressed air.

Warranty Information

The WorkStation has a full one-year warranty on all parts and workmanship except for normal consumable parts such as filters and light bulbs. The warranty will be considered void if components have been modified. Damage from neglect will also void warranty.

Specifications and Ratings

Standard Filter
The cartridges filter 0.5 micron particulate at 99.99% efficiency and are rated for 2000 hours (1000 hours for 1.49kW (2hp) model) of operation. The net working air velocity of this unit is 167.6m/min (550 feet/min). With the standard filters installed, noise levels are 77.5 dB (without the HEPAR) and 89.5 dB while using compressed air (without the HEPAR).

HEPAR Filter
The HEPAR unit filters 0.3 micron particulate at 99.997% efficiency and is rated for 4000 hours (2000 hours for 1.49kW (2hp) model) of operation. The net working air velocity of this unit with a HEPAR filter is 137.2m/min (450 feet/min). The noise level is 62.6dB with HEPAR Filter installed.

Proper Filter Conditioning is Very Important

DO NOT purge your filters for the first 12 to 16 hours of run (operation) time. This conditions the filters by allowing sub-micron particles to embed in the filter surface, preventing toner bypass through the filters. If during this 12 to 16 hours of operation, the minihelic gauge reaches the red zone, push the pulse valves to clean the toner from the filters.

Once you have properly conditioned your standard cartridge filters as directly above, you should purge your filters 2 to 3 times per day. This is based on an 8 hour usage period.

Space Requirements

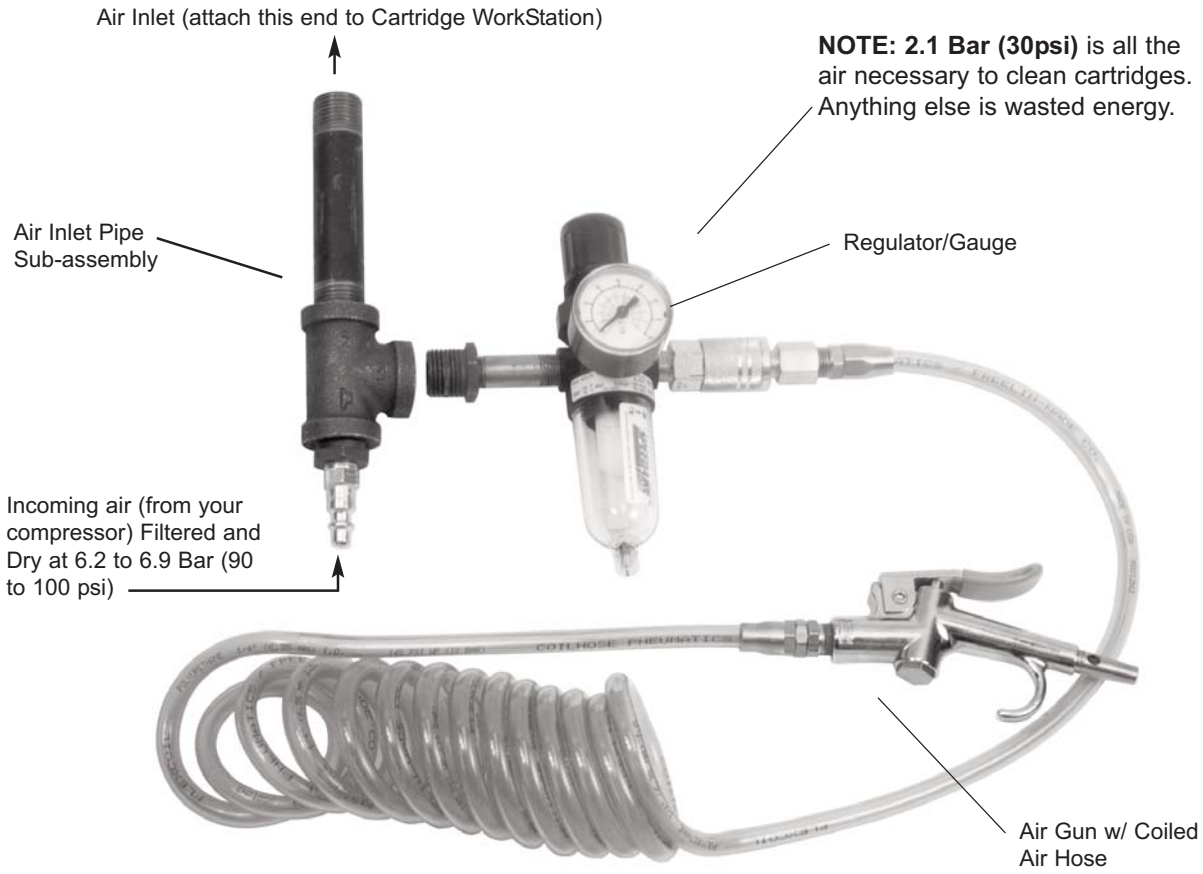
The Cartridge Cleaning Workstation unit is 1.63m (64") high, 1.22m (48") long, and 0.74m (29") wide. The unit is approximately 204kg (450 pounds). Shipping weight is over 227kg (500 pounds). The cartridge cleaning Workstation must NOT be installed in a potentially explosive atmosphere.

This unit should be transported and stored between 4°C and 55°C. Whilst in use, the ambient air temperature should remain between 5°C and 40°C.

Condensation must not be allowed to enter the machine. Only use inside.

Do not remove rear panel of Workstation. Internal components do not require maintenance.

Air Distribution Manifold (SCOWS-ADM) (not included with WorkStation)



Note: Use black iron fittings rated at 10.34 Bar (150 psi) or above with NPT pipe threads. Seal the joints with thread tape and or pipe dope. Set regulator at 2.1 Bar (30psi).

Optional Items: (See SSS™ 275 *"Power Ionizer Airgun™"* for detailed product code information.)

NOTE: 2.1 Bar (30psi) is all the air is all the air necessary to clean cartridges. Anything else is wasted energy. See Industry Alert #50 "Black-on-Black Print Defects Result in Unusable OPC Drums".

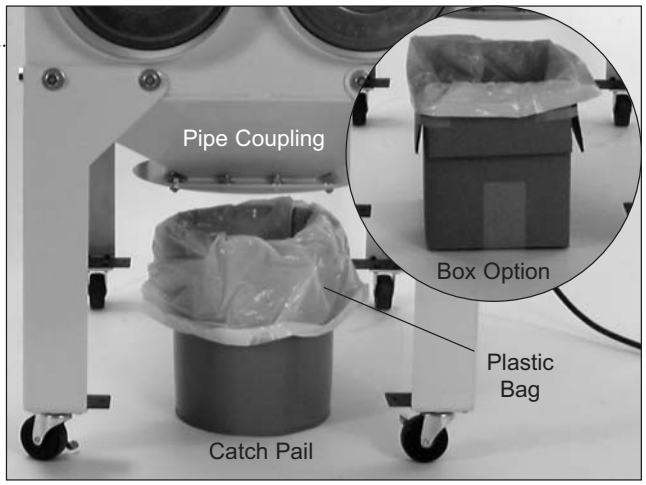
Machine Unpacking and Setup

1. Inspect the machine for shipping damage. Call the carrier to report any damage.

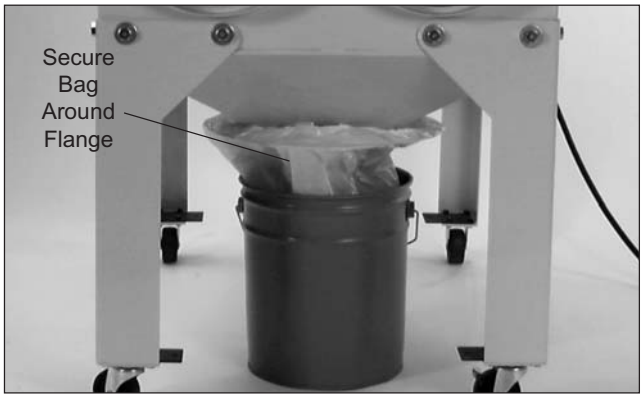
2. Remove the protective wrap from the machine and using a ramp, carefully roll the machine off of the pallet

3. Roll the the machine to it's operation location in the shop.

4. Place a good quality plastic bag in the toner catch pail (or box) and place under the manifold.



5. Pull the plastic bag up around the pipe coupling flange and tie to secure.

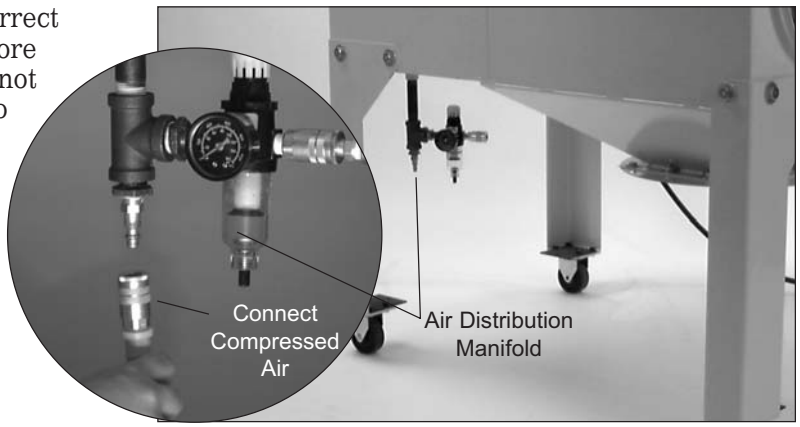


6. Remove the protective cover from the exhaust air outlet. Install HEPAR filter as required.

CAUTION Never operate a 1.49kW (2hp) model without a HEPAR filter.

7. Check all the fittings for damage and correct input pressure from the compressor before installing the air distribution manifold (not included) and connect compressed air to the machine.

Note: For installation instructions refer to SSS™ #647 *"How to Install the Air Distribution Manifold"*.

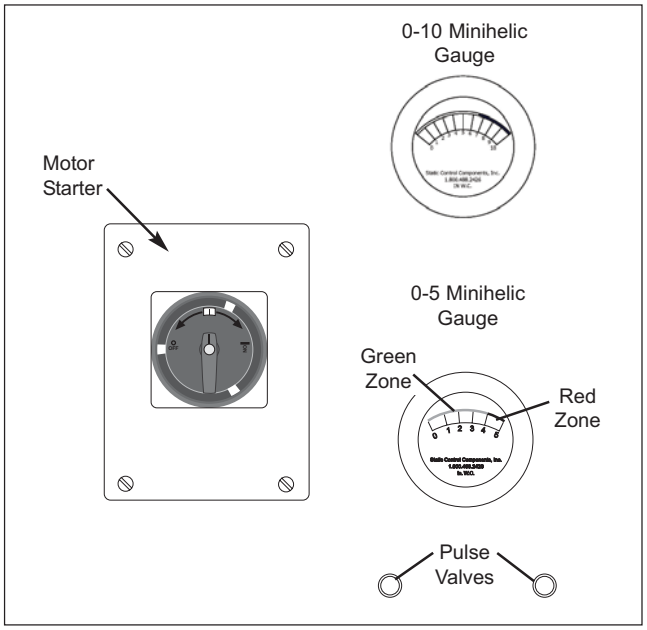


8. Plug the power cord into a socket protected by an RCD or equivalent.

DANGER DO NOT SMOKE AROUND WORKSTATION. DO NOT ALLOW FLAMES OR IGNITION SYSTEMS AROUND WORKSTATION.

CAUTION Always switch the unit ON before purging the filters.

Operation



1. Switch the motor starter to the (1) or **ON** position.

2. Check the minihelic gauge to ensure the machine is in the operation range. The operation range is in the **GREEN** zone on the gauge. 2 hp (1.49kw) models operate between 2 and 4 with the 0 to 5 gauge. Operation is between 1 and 2 with the 0 to 10 gauge. Note, the gauge will vary from machine to machine.

3. After 12 to 16 hours of run time or if the minihelic gauge reaches the red zone, push the pulse valves to clean the toner from the filters. Pulse cleaning should be done 2 to 3 times daily.

4. The filter life is approximately 2,000 hours (1000 hours for 2 hp model). Change the filters if the minihelic gauge stays in the red zone during your daily normal pulse cleaning.

5. Dump the excess toner in the toner dump chute.

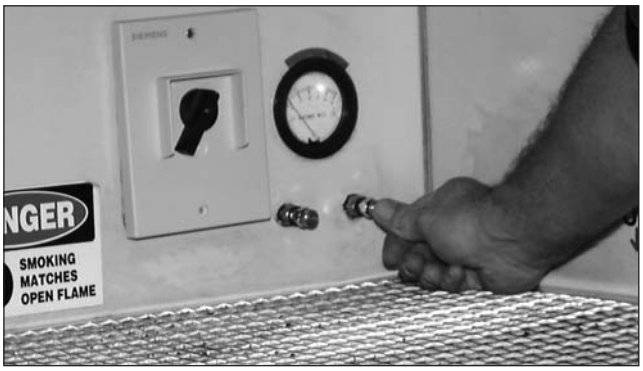
6. Use the safety-type Air Distribution Manifold to clean the cartridge. **DO NOT USE EXCESSIVE AIR PRESSURE.** Set the air regulator at 2.1 Bar (30 psi).

7. Check the toner catch pail (or box) daily (18.9 litres (5 Gallons) = 9027 g (20 lbs)). Spent hoppers contain 20 to 30 grams of unused toner. We estimate that one pail has a 200 to 400 hopper capacity.

CAUTION Ensure the concentration of ozone is limited to a safe value when using the Ionized Air Gun.

Changing the Filters

1. Push the pulse valve buttons to purge the filters with compressed air before loosening the wing nut.



2. Loosen the wing nut.

3. Secure a large plastic bag around the flange.

HINT: Use a large, good quality drawstring plastic bag or secure a regular plastic bag with a large rubber band or a tie wrap.

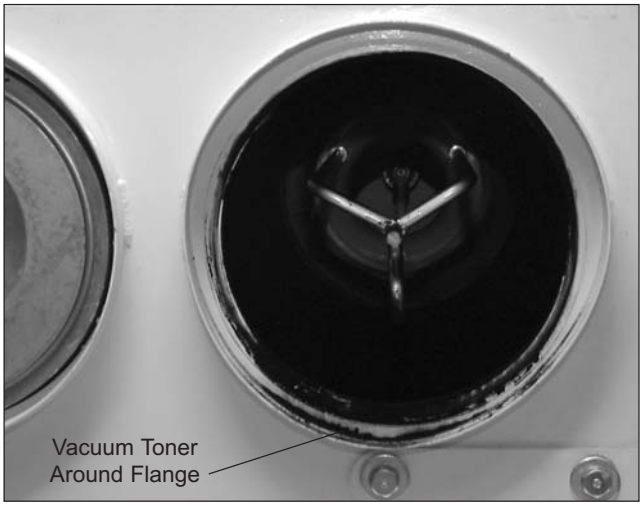
4. Reach through the bag and loosen the wing nut that secures the filter to the machine. The wing nut remains with the filter.

Changing the Filters

5. Pull the filter out of the machine and into the plastic bag.

6. Remove the plastic bag from the flange and tie the plastic bag closed.

7. Clean the toner off of the flange.



8. Install a new filter cartridge.

9. Ensure the Wing Nut is secure.

User Maintenance and Cleaning:

The Cartridge Cleaning Workstation is designed to be Maintenance free. The unit should be cleaned daily using the Toner Cleaning Cloth (T-CLOTH) inside and outside the dump area. The Minihelic Gauge should be checked daily and if meter is in the **RED** zone the filter (SCC550CF) should be changed.

CAUTION Use product in accordance with applicable OSHA workplace guidelines.

Moving the Machine

1. Unplug the electrical and air connections.

2. With a rubber hammer, tap the toner chute to dump the loose toner into the catch pail (or box).

3. Pull the bag off of the flange and tie up the bag. Pull the catch pail (or box) out from under the flange and dispose.

4. Secure a new plastic bag around the chute flange.

5. The machine is ready to be moved.

Machine Disposal Instructions:

If the machine is to be disposed off, the compressed air supply must be turned off and the machine purged to release any stored compressed air. Waste toner should be disposed of as instructed in the relevant MSDS. The machine should be disposed of in accordance with local regulations.

Static Control

SCC Imaging Division
3010 Lee Avenue • PO Box 152 • Sanford, NC 27331
US/Can 800·488·2426 • US/Can Fax 800·488·2452
Int'l 919·774·3808 • Int'l Fax 919·774·1287
www.scc-inc.com

Static Control Components (Europe) Limited
Unit 30, Worton Grange,
Reading • Berkshire RG2 0TG • United Kingdom
Tel +44 (0) 118 923 8800 • Fax +44 (0) 118 923 8811
www.scceurope.co.uk