



**CMAXX**   
DUST & FUME COLLECTION

INSTALLATION CHECK LIST  
& REFERENCE GUIDE - 2019



# CMAXX Dust & Fume Collection System

## INSTALLATION CHECK LIST

- STEP 1:** Make sure you have the following tools:
  - sockets
  - wrenches
  - impact wrench
  - crescent wrench
  - pin bars
  - drill
  - knife or box cutter
  - wedge anchors
  - concrete hammer drill.
  - lifting straps
  - shackles
- STEP 2:** Unload the CMAXX and make sure that all parts are present.
- STEP 3:** Cut the wrapping on your CMAXX and remove it.
- STEP 4:** Locate the packet containing the owner's manual attached to the CMAXX door handle.
- STEP 5:** If your CMAXX comes with a drum, open the drum and locate differential pressure kit, bolts, and other materials. If there is no drum, these are packaged separately.
- STEP 6:** Set the hopper in place and unbolt it from the wood.
- STEP 7:** Begin bolting the legs of the structure on. Do not tighten the bolts.
- STEP 8:** Begin with bolts on the outside of the structure, then the inside.
- STEP 9:** Begin bolting the X braces. Do not tighten the bolts yet. Bolt the inner X brace first. Next, bolt the outer X braces, then the outer leg points. Bolt the center points last.
- STEP 10:** Structural bolts are directional. The side of the nut that locks against the washer has a raised ring. The outside of the bolt is flat and rounded.
- STEP 11:** Once all bolts are in place, begin to tighten the structure. Start tightening at the bottom and move toward the top.
- STEP 12:** Use a forklift or crane to lift the structure. Use wooden blocking to prevent scratches.
- STEP 13:** Adjust the rigging as you go to keep the lifting upright. Guide the structure into its final position and set it down.
- STEP 14:** Ream the corner bolt holes as shown. Ream the corner hole and the ones on each side of it. If your CMAXX is bigger than 24 cartridges, ream two holes on either side of the center hole.
- STEP 15:** Apply rope caulking around the edges of the structure. Apply two strips along the inside and outside edge as shown.
- STEP 16:** Make sure to overlap the strips at the corners to prevent any gaps. Peel the plastic off the strips.



## WARNING

**IF YOU HAVE A CM002 ONLY,  
secure the structure to the concrete  
BEFORE adding the collector to the top.**



## NOTICE

**Make sure the cartridge filters are properly  
installed in the CMAXX before lifting.**

- STEP 17:** Attach rig to the top unit and lift with a forklift or crane. Make sure the crane or forklift is rated for the weight of the unit.
- STEP 18:** Begin to lower the unit into place. Do not set the unit down at this point.
- STEP 19:** Line the lowest corner of the unit up with the guide pin. Continue to do this until all guide pins are aligned correctly. Do not lower the unit yet.
- STEP 20:** Continue to bolt the unit to the structure. Do not tighten the bolts yet.
- STEP 21:** Set the unit down completely, then tighten all the bolts.
- STEP 22:** Secure the structure to the concrete.
- STEP 23:** Install the discharge device under the hopper.
- STEP 24:** Refer to the owner's manual for instructions on attaching compressed air to the system. Also make sure to wire the solenoid valves from the enclosure to the control board.
- STEP 25:** Refer to the manual that comes with the differential pressure kit. Make sure tubing is correctly attached to the control board.
- STEP 26:** Refer to the owner's manual for electrical diagrams.

This video will help walk you through the steps of assembling and installing your CMAXX dust and fume collector. If you have any questions, please contact us at 800.918.3013 or visit our website <https://www.isystemsweb.com/>



<https://youtu.be/zWSBGoKpejM>

- A. Silencer
- B. Fan
- C. Solenoid Enclosure
- D. Pressure Relief Valve
- E. Pressure Gauge
- F. Diaphragm Valve
- G. Compressed Air Fitting
- H. Differential Low Pressure Port
- I. Differential High Pressure Port

- J. Filter Removal Tool
- K. Door Handle
- L. Hopper
- M. Manual Slide Gate
- N. Flex Hose
- O. Collection Drum Kit
- P. Header Tank
- Q. Serial Tag
- R. Dirty Air Inlet
- S. Lifting Lug
- T. Clean Air Plenum
- U. Dirty Air Plenum
- V. Access Door
- W. Filter Pulse Pipe
- X. Filter Cleaning Nozzle
- Y. Tube Sheet
- Z. Filter Gasket
- AA. Filter Pan
- BB. Pleated Filter Material
- CC. Filter Lift Rail Handle

