

## RESPA<sup>®</sup>- CF Vortex HyperFLOW Cab Air Quality System for CASE IH 2166, 2388, 2588 and CASE Machines with similar cabs

Sy-Klone part number: REV0001, GK013

### Purpose:

To provide sustained pressurization and high efficiency filtration for the operator cab. See the [Video Library on www.sy-klone.com](http://www.sy-klone.com) for a demonstration and Customer Testimonials

Machine specific installation instructions are not a replacement for the installation instructions provided with the REV001 Kit. Please read all instructions.

**Installation Time:** 2 to 3 hours

### GK013 RESPA-CF Mounting Kit



### REV0001 RESPA-CF Vortex HyperFLOW



## Getting Started

### REMOVE FRESH AIR INTAKE ASSEMBLY:

1. Remove existing filter, hose, and mounting hardware as needed
2. Permanently seal off fresh air intake where it enters the cab.



### INSTALL FLANGE ADAPTOR:

3. Drill a 4-inch hole in the cab post and install 4-inch flange adaptor. Use RTV sealant on flange and self tapping screws which are including in the installation kit.



### INSTALL MOUNTING BRACKET:

4. Install the mounting plate using the bolts included in the kit. Note the picture shows an older version of the mounting plate. The current plate has 4 mounting holes. All four are required for a successful installation. Orient the mounting plate so that the bolts go through the vertical supports in the grain bin. Caution: Do not mount unit across two vibration planes/



# RESPA®- CF Vortex HyperFLOW Cab Air Quality System

## for CASE IH 2166, 2388, and CASE Machines with similar cabs

### BUILD THE RESPA-CF VORTEX HYPERFLOW:

1. Watch the video "How to assemble a RESPA REVOLUTION System" at [www.sy-klone.com](http://www.sy-klone.com) Click on Video Library then on "How to Assemble a RESPA Revolution System."
2. Assemble the unit with a 90° port orientation so feet are against the side of the grain bin and the outlet is pointed straight up.
3. There are two options:
  - a. Build the unit with the rain cap or the ducted inlet. We recommend the ducted inlet for harvesting in dry weather conditions.
  - b. The finger guard and rain cap can be used but the finger guard can become clogged and obstruct air flow into the unit. This becomes a maintenance area.



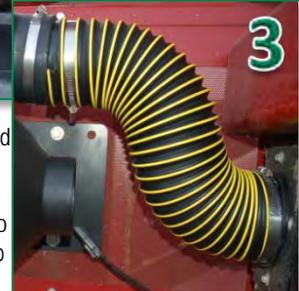
*Recommended inlet configuration option A*

### MOUNTING & PLUMBING:

1. Mount the unit to the mounting plate with the fan end (intake of the RESPA-CF) facing the cab. Use the bolts that are included in the kit.



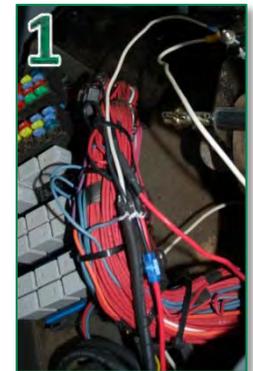
2. Attach the 4-inch rubber elbow to the outlet of the RESPA. Insert the 4-inch metal pipe into the elbow and clamp in place using the 4-inch hose clamp.



3. Attach the 4-inch hose (you will need cut the hose to the appropriate length approximately 2-inches to go from the outlet of the 4-inch elbow to the 4-inch flange adaptor on the cab pillar.

### ELECTRICAL CONNECTION:

1. The electrical wiring harness is included in the REV001 Kit. Power to both the pressure sensor and the RESPA must be provided through a circuit that is on when the ignition key is in the "on" position. There is an inline fuse included in the wiring harness that must be used. Always replace the fuse with the same size fuse that is removed to insure that the motor in the RESPA works properly. Failure to use the proper size fuse voids the product warranty.



2. The panel box is found to the right of the driver seat; there is a cluster of wires which leave the panel box and penetrate the wall on the RESPA side of the cab. The double wires going to the RESPA can be forced through the existing electrical grommet in the side of the cab. (Do not make a new opening in the side of the cab to run wiring, always use existing electrical grommets)
3. Run the wire loom to the RESPA using the wire braid supplied in the kit to protect the wire that is run from the outside of the cab to the RESPA unit. Use appropriate wire connectors to join the RESPA to the wires coming from the cab.



# RESPA®- CF Vortex HyperFLOW Cab Air Quality System

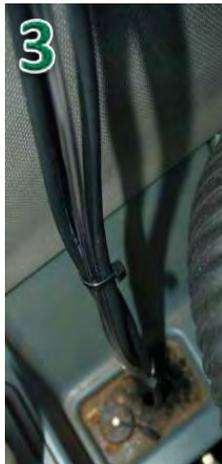
## for CASE IH 2166, 2388 and CASE Machines with similar cabs

### PRESSURE MONITOR:

1. The preferred location for the pressure monitor is on the window behind the operator. However, the unit can be mounted anywhere that is convenient.
2. When attaching the unit to the glass window a 3M brand double sided heavy duty tape is recommended. Follow instructions on tape dispenser for proper installation.
3. The pressure tube and wire coming from the unit should be brought together and run side by side to the panel box. Use wire ties to keep the tube and wires together. Be careful not to pinch the pressure tube.
4. The pressure tube should be carefully pushed through the electrical grommet so that it is outside of the cab by 1-inch+/-\*
5. The electrical wiring harness is included in the REV001 Kit. Power to both the pressure sensor and the RESPA system must be provided through a circuit that is on whenever the key is in the "on" position.



Pressure Monitor shown is previous version



\*Failure to put the differential pressure tube outside of the cab will result in the pressure monitor showing zero cab pressurization.

4. Factory installed blower, located under the Jump seat can be removed. These are typically burned out and not functioning. The blower contributes nothing to the function of the RESPA system. If adequate pressurization is not achieved remove the blower under the jump seat to allow the air to come freely into the cab from the RESPA system.
5. The installation photos are provided for illustration purposes only and may not be of your particular machine nor do they necessarily reflect the specific parts included in the GK012 or REV001 Kits. Some parts may have to be site fabricated or modified to fit a particular installation. If you have any questions please call Sy-Klone for specific technical assistance.

### Completed Installation



### Installation Notes:

1. Always install the filter so the ejection port on the filter ejects the debris downward



2. The pressure monitor readings will fluctuate. Pressure readings on a properly sealed cab should be over .3" of H2O or 100 Pascal
3. HVAC fan speed will make no difference in cab pressurization. Cab pressurization is being created only by the RESPA-CF Vortex HyperFLOW.

### Technical Support

[www.sy-klone.com](http://www.sy-klone.com)  
[support@sy-klone.com](mailto:support@sy-klone.com)  
(904) 448-6563 ext. 1315