

ULTRAGUARD+



EXTERNAL MOUNTED CHEMICAL FILTRATION UNIT

The need for protection while spraying agricultural chemical has become obvious due to the health problems experienced by operators. Ultrasafe has now developed the "Ultraguard" independent filter unit that can be fitted to any vehicle with a cab to provide the operator with clean air while spraying.

HOW IT WORKS

Air draws in through the inlet (either dust bowl or snorkel), powered by the 12v or 24v motor.

As air passes through the Ultraguard unit it flows around the internal filter allowing particles, vapours and gasses to become captured. Clean air is then passed through the exit and into the cabin, providing clean, filtered air.

The Ultraguard+ filter body is a robust all steel construction and the filter is protected from weather and chemical spray. The robust hose can be attached to the cabin body or through the window.



PARTS

- Ultraguard+ housing fan
- 277 activated carbon filter
- Cigarette plug adaptor wired to the fan
- 2x mounting bands
- 2x hose clamps
- 1.4m flexible black hosing
- Dust Bowl
- Mounting Flange
- Optional - Perspex sheet and H-seal

SPECIFICATIONS

Sizes:	4" inlet, 3" outlet
Air:	140CFM (238 m3/h) with filter
Flow:	230CFM (391 m3/h) free flow
Motor Weight:	3kg
Unit Weight:	12-13kg
Current:	10.2 amps @13.6VDC
Draw:	6 amps @27.2 VDC



CABIN FITTING

Ultraguard+ can be mounted vertically or horizontally. The filter body can be mounted anywhere outside of the vehicle such as the bulbar, roof racks, rear frame, rooftop, or on the tray top.

1. Mount the two body bands on the vehicle allowing space for the end cap to be opened to access the filter. Evenly space the mounting bands. Limit the hose length from the unit to the cabin for better performance.
2. Thread the cigarette lighter wiring through the hose. Attach the hose to the air outlet on the steel body with a hose clamp.

PLUMBING INTO CABIN

There are two ways of connecting the air ducting to the cab.

CUT DIRECTLY INTO CABIN

1. Cut a round opening into the cabin to match the hose diameter (ensure there are no wires/obstructions)
2. Check that the air entry point will not blow directly onto the operator
3. Seal the ducting to the cabin with a PVC connector and silicone
4. Place the flange over the hole and drill four holes through the flange and into the cabin
5. Pop rivet into place and silicone the joining edges
6. Thread the lighter wiring through the hole and clamp the hose in place on the flange

INSTALLED THROUGH WINDOW

Install on passenger side or rear window or your cabin.

1. Use supplied clear Perspex sheet and cut to fit your existing window
2. Wind down the window and place the H-seal on the upper edge of the glass
3. Ensure the rubber H-seal provides a tight joint between the Perspex and the window glass
4. Thread the lighter wiring through the hole and clamp the hose in place on the flange

TIPS

1. Operate with the air conditioner on 'recycle/recirculation'
2. The unit will operate when the lighter is plugged into the cigarette lighter position and the vehicle is on
3. Replace the Activated Carbon filter every 12 months – part number '277'
4. A shorter hose length will improve your Ultraguard+ performance