

# ZERO+ quick reference guide

Note that ZERO+ is a new product generation. These are the updated assembly instructions.



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#### The control system







1.1 The Powerbox should be mounted upright, with the hose pointing straight up. Place the Powerbox in direct proximity to the ventilation hoods.

- **1.2** Drill a 6 mm hole in the main exhaust duct and insert the accompanying nipple with the tapered side into the duct. Screw the nipple in place. The hose is then connected to the straight side of the nipple.
  - The other end of the hose is factory fitted to the front of the two nipples on the pressure switch in the Power box.

1.3

 Incoming electricity should be fed to the terminal: IN in the Power box.
All UV cassettes must be supplied with power from the OUT terminal. (If the installation consists of more than 2 cassettes, a cable is fed from OUT to a distribution box, which is then connected further.)













### 2. Installation of the touch panel

2.1

The touch panel is optimally mounted on the wall, at eye level, close to the cover and power box. The touch panel is connected via supplied computer cable.

## 3. Installation of UV cassettes

- 3.1 The UV cassettes should be installed in the filter housing of the ventilation cabinet, behind the mechanical grease filters.
- 3.2 In cases where the system is ordered with UVtech's mounting brackets, these enable the UV cassettes to be easily mounted at the desired angle inside the filter housing.
- 3.3 All UV cassettes have their own individual safety systems, which means that they must be installed according to the following instructions in order to function correctly. The cassettes should be positioned so that:
  - The electrical connector is placed closest to the left short side of the cassette.
- 3.3b

3.3a

The cover plate with the "little lip" is turned so that it points down towards the floor.

3.4a

For the UV cassette to light up, the supplied pressure hose. Drill a 6 mm hole in the inner roof of the filter housing near the electrical connection and nipple of each UV cassette. Screw the black plastic nipple with the tapered side into the drilled hole. Connect one end of the hose to the straight side of the nipple in the housing.



The other end of the hose is fitted to the black nipple on the UV cassette.















#### ZERO+ troubleshooting

Warning: Always protect your eyes from the blue light to avoid painful conjunctivitis.Never work inside the ventilation ducts when the UV lights are switched on to avoid exposure to ozone concentrations above the hygienic limit.

	The problem		Possible reason		Action
1	Alarm: "Stop Ext"	A	Exhaust fan not running.	l.	Switch on the fan, let it warm up and see if the alarm goes off
		В	The pressure switch in the power box is not installed correctly	l.	Make sure that the hose is connected to the front nipple of pressure guard marked "-". (As opposed to the rear one marked "+")
				Ш	Check that any joints on the hose are tight
				III.	Check that the hose is correctly connected to the exhaust air duct. The nipple should be fitted with the tapered part in the duct. Check that the hose fits tightly against the nipple.
		С	The pressure switch in the Kraft box does not pull	l.	Unscrew the transparent plastic cover of the pressure switch in the power box. Turn the small screw anti-clockwise until the pressure switch clicks into place.
		D	The pressure switch in the power box is defective	l.	If all the above points have been addressed, the pressure switch may be defective and need to be replaced.
2	Alarm: "Operating error, contact service"	A	The pressurisation of one or more UV boxes is not possible.	L	Check that the cassette pressure switches are connected: The supplied red pressure hose should be connected with one end to small black nipple next to the electrical connector on the UV cassette. The other end of the hose should be connected using the supplied loose small black plastic nipple. This nipple should be attached to the inner ceiling of the filter housing of the ventilation hood. Drill a 6 mm hole, stick out the tapered part of the nipple and screw the nipple on. Connect the other end of the red hose.
				н.	With point I. done and the problem persisting, the pressure across the hood grease filter must be checked. The pressure switch in the UV cassette draws at 15-18 Pa. If the pressure is below 20 Pa, the pressure must be increased, this is most easily done by replacing the grease filter with blanking plates.
		В.	Several UV tubes are defective	l.	Replace the UV tubes
				Ш.	If the UV tubes do not light up after replacement, it means that one or more ballasts inside the cassette are defective. Replace the ballasts
		C.	If the installation contains only 1 UV cassette (or only 2 pcs ZER0+205/305), the system does not register the current levels correctly	L	The system must be rewired. Locate the power switch, the black plastic ring on the power board in the Power Box. A white cable already runs through it. You need to disconnect the cable in the "OUT" terminal that is closest to the power sensor. Once you have disconnected the cable, thread it through the ring in the power sensor FROM LEFT TO RIGHT. Then pull it on the outside of the ring and plug it back into the terminal closest to the switch.
3	The ControlPanel shows "DRIFT" but the UV lights are off	A.	Due to repeated switching on/off over a short of time, the inbuilt anti-sticking device has failed	I.	Switch on the system. Wait up to four (4) minutes for sticky cloud to switch on again.
4	The UV lights do not go out even though the Control Panel says "NOT OPERATING"	A.	The relay in the Power Box may be faulty	L	Locate the relay in the power box, it is a small blue square box. Due to repeated on/off cycles during installation, the relay may have become stuck in one position. Gently tap the box with the handle of a screwdriver or similar.
				П.	If point I. does not resolve the fault, the power board must be replaced. Contact UVtech.

