

IMPORTANT INFORMATION – Please read for programming information for AUTO-START feature.

Your macerator has been delivered and set for “MANUAL START” operation. To enable your macerator to automatically start a cycle, please follow the following instructions to gain access to the Engineers Mode. The auto-start feature is found under the Cycle settings.

Should you want to change any other settings or observe cycle faults, you will need to access the Engineers Mode as well.

If you have any difficulty in accessing or changing settings in the Engineers Mode, please contact Technical Support at 800-268-2422 ext 234 for assistance.

Engineers Mode' Instructions

To access 'ENGINEERS MODE'. Press and hold the blue button on the engineering membrane panel (below) for 5 seconds. The engineers mode message should flash on the LCD display if done correctly.



Engineers
membrane panel



Up – press to move up within menu items list



Down – press to move down within menu items list

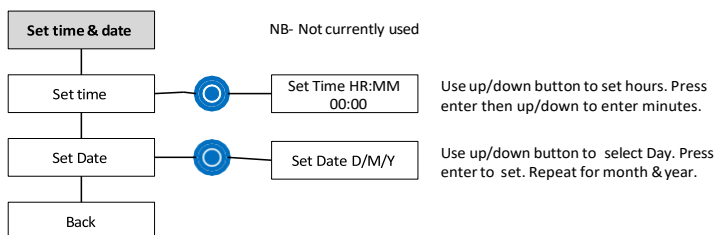
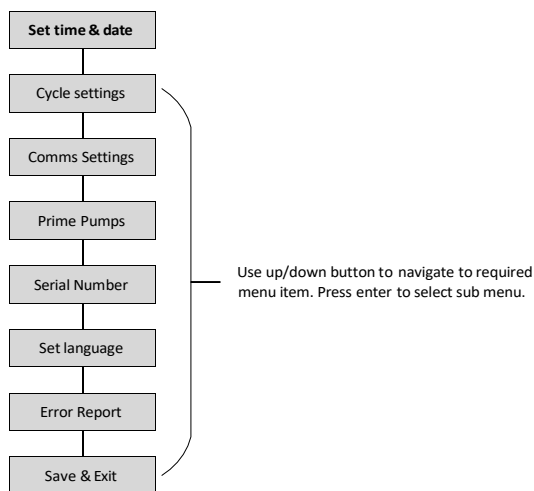


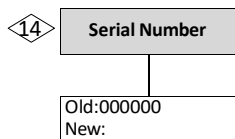
Enter – press to select engineers mode or select menu item

Engineer Mode

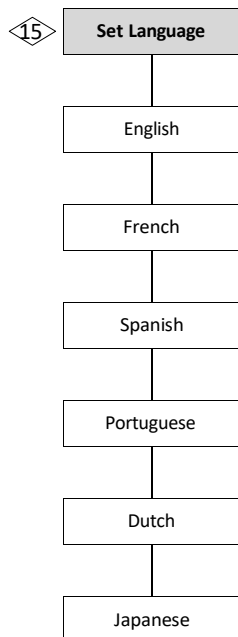


Press & hold Enter button for 5 seconds to enter engineer s menu

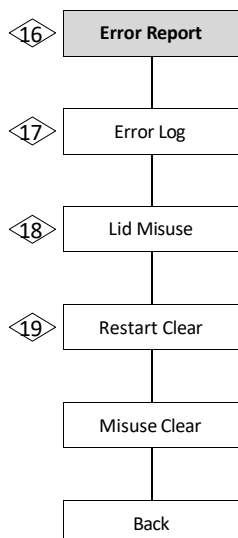




Use up / down buttons to change value. Press enter to set.
NB- Must enter 6 digits



Use up / down buttons to select required language option.
Press enter to set.



1.
2.

Last 5 errors displayed.
Use Up / down buttons to scroll list.

Lid Misuse Count
0

Total number of recorded lid misuse events displayed.

Clear restart?
(Yes) / No

Press enter button to select Yes or No.
Brackets indicate selected status

Clear Misuse?
(Yes) / No

Press enter button to select Yes or No.
Brackets indicate selected status



Press enter button to save and exit from engineer menu.
Machine will return to normal operating display

Explanation of Engineering Mode Features

1. **Auto Start** – when selected ON machine will commence cycle automatically when the lid is opened & closed for loading.
2. **Service Reset** – Reset service count to zero following service.
3. **Standard cycle** – 120 second cycle using 23 liters of water. Suitable for normal load conditions. Motor reverse at start of cycle is via current detection.
4. **Heavy Duty cycle** – 160 second cycle using 30 liters of water. Suitable for heavy loads and possible overloaded conditions. Motor preprogrammed for 3x motor reverses at beginning of cycle.
5. **ECO cycle** – 95 second cycle using 16.5 liters of water. Suitable for light (single product) loads.
6. **Night cycle** – Extend version of standard cycle to reduce average dB level.
7. **Water In Valve** – Time out time for water inlet valve. Default is 3 minutes. After 3 minutes if water tank sensor does not detect full water tank, then inlet valve will close minimize potential water tank overflow due to sensor failure. In low water pressure supply conditions default time can be increased to 4 minutes.
8. **Service limit** – number of cycles before “Service due” message is displayed. Default setting is 20k cycles this can be adjusted between 20K & 5K in 5k increments cycles.
9. **Cycle Count** – Enables the number of recorded cycles (if known) from a machine to be entered onto a new PCB in the event of a machine requiring a new PCB.
10. **Stop on L Deo** – Default is off, therefore when low deodoriser level is detected “Refill deodoriser” message is displayed however machine will continue to run cycles normally. When ON is selected further machine cycles are prevented until the deodoriser reservoir is refilled.
11. **Water Pump** – selecting will manually operate the water pump. This can be used to test the pump or to quickly empty the water tank. NB ensure that the lid is closed when operating the water pump manually.
12. **Deo Pump** – selecting will manually operate the deodoriser pump. This can be used to test or prime the deodoriser pump.
13. **Drain Valve** – Selecting will manually open the drain valve and allow the contents of the hopper to empty via the drain.
14. **Serial Number** – Allows the serial number of the machine to be saved to the PCB board.
15. **Set Language** - Allows the display panel to display messages in the following languages – English, French, Spanish, Portuguese, Dutch, Japanese.
16. **Error Log** – Displays the last 5 recorded machine errors.
17. **Lid Misuse** – Displays the total number of recorded lid misuse event. (Lid manually closed).
18. **Restart Clear** – During a cycle if an operator clears & a fault reoccurs 3 times e.g., 3 X drain pressure faults then a call engineer message is displayed, and the reset option is no longer presented to the operator. Engineer must access & clear Restart Clear option from the engineer menu return machine to normal service. (Original fault should also be investigated and corrected).
19. **Misuse Clear** – selecting yes enables the number of lid misuse events to be reset to zero. (see also 17 above)

Vernacare Vortex Air Installation Guidelines



Great care has been taken to ensure that the macerator has been delivered in good condition. Carefully inspect the packaging for any shipping damages and report to the freight company and Vernacare.

Any damages must be documented on the waybill upon receipt of the macerator.



Remove the carton and internal packaging. To remove the macerator from the pallet follow the following instructions.



To gain access to the interior of the unit, remove the (2) two Allen screws located at the bottom of the front panel.

Vernacare Vortex Air Installation Guidelines



Remove each side panel located at the front of the macerator.



Remove the two nuts from the bolts which fasten the frame to the pallet.



Two people should lift the macerator from the pallet. Please note: lift from the frame under top panel as illustrated above.

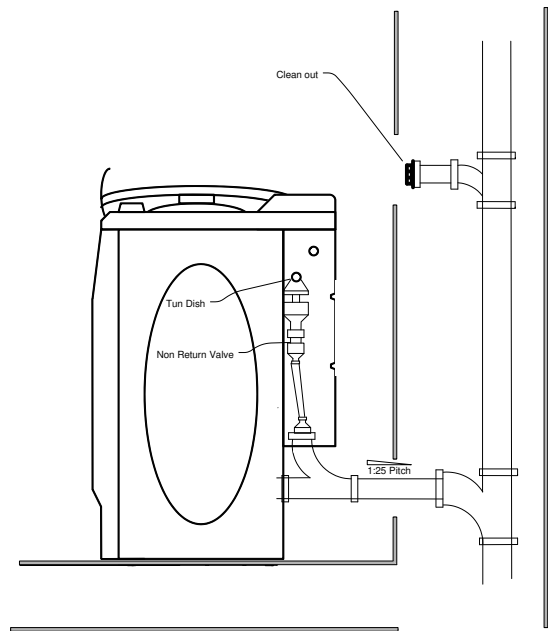
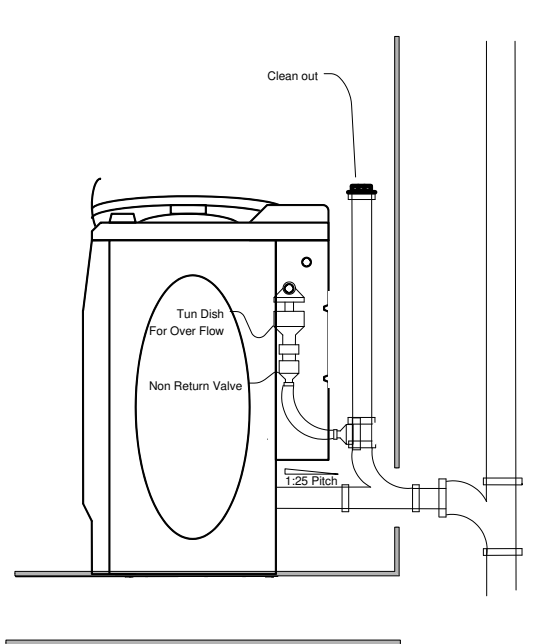
Vernacare Vortex & Vortex Plus Installation Guidelines



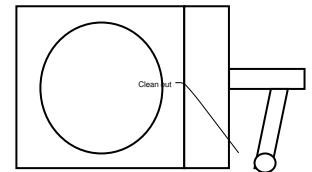
Caution: To avoid injury, two people should lift the macerator from the pallet.

Vernacare Vortex Air Installation Guidelines

- 1) Position macerator and angle P-trap through opening to drain in wall.
- 2) **A Tun dish, non return valve or an additional primed p-trap and a clean out pipe (not provided) must be installed as illustrated below** and connected to the drain. Locate the clean out directly after the p-trap (either between the macerator and the wall or behind the wall) to allow for easy maintenance if blockages occur down line. The top of the clean out should be level with the back of the macerator. **Do not use ninety (90) degree elbows in drainpipes.**



- 3) **Connect the macerator to a 2" drainpipe into the wall, with a 1/4" per linear foot pitch.** Using an adapter before the "Y" fitting on the clean out stack, position and secure the drain into its proper position. This ensures easy removal of the p-trap if necessary.



- 4) **Straight, dedicated main drain lines are preferable, and must be kept to a minimum, with an overall length no longer than 4 to 5 feet.** If a blockage occurs, using non-dedicated drains allows effluent to travel back up into a sink or floor drain, whichever is present.

Vernacare Vortex Air Installation Guidelines

- 5) Install a shut-off valve for easy access to turn MAIN water off. Connect a flex line (provided) for the water supply to the water fill solenoid ensuring the valve is vertical as per illustration. The water supply line can be connected to either side of the macerator. Use caution when tightening supply line to avoid cross threading.



- 6) Wall mounted power receptacles with a switch **must** be installed to allow for **emergency shutdown**. This benefits maintenance if any service calls.
- 7) Macerators are offered with either a 110 volt or 220 volt 15 amp twist-lock plug installed on a 16/3 AWG power supply cord. An appropriate receptacle is required. **A 15 amp breaker is required**. Local federal guidelines must be followed.

Vernacare Vortex Air Installation Guidelines

For all installations, an I.E.E. approved disconnection device **must** be fitted to the final installation, but not on a GFI. This device shall be positioned in close proximity to the Vortex and within easy reach of the operator & shall also be clearly marked as being the disconnecting device for the machine.

Back-up generator tests / mains electrical supply surges.

Damage to internal electrical components of the Vortex macerator can occur as a result of voltage surges / spikes occurring in the electrical supply to the machine. The likelihood of such damage occurring is increased when frequent testing of back-up electrical supplies are carried out.

To prevent such damage, Vernacare recommends that transient voltage suppressors (in accordance with IEC class 3 surge protection) be installed in the electrical supply to the machine.

- 8)** Secure to floor with mounting bolts. Whenever possible, locate macerator six (6) inches from back to wall and allow nine (9) inches clearance at the sides of the machine. If space limitations exist, more room on the left hand side of the macerator should be given preference.
- 9)** When upgrading from an older macerator to a new Vortex Air macerator, **snake out the drain** to eliminate downtime from an unnecessary blockage.
- 10)** See manual for full details.
- 11)** Contact Vernacare at 1 800 268-2422 to setup appointment to have your macerator commissioned. Please allow five (5) business days to co-ordinate the call with our Field Service Technician.

For further assistance, please call technical support at 1-800-268-2422 Ext. 234

Vernacare Technical Service Department