

NEW

VORTEX

VORTEX

VORTEX

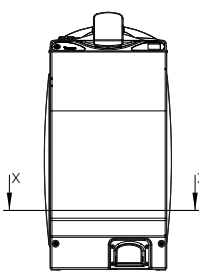
TECHNICAL SPECIFICATION

FRONT VIEW

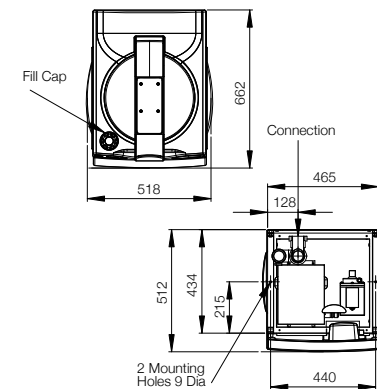
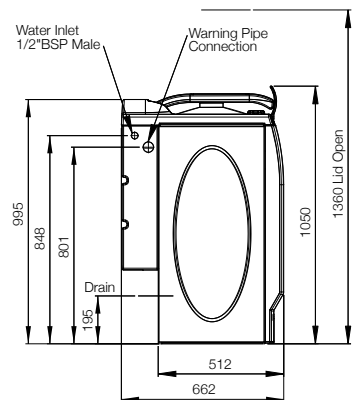
SIDE VIEW

PLAN VIEW

Dimensions in mm



Water inlet and warning pipe connections can be made to either the left or right side of the machine



Operational Information

With a capacity of four urine bottles or two washbowls, or any equivalent load, the unit weighs 72kg dry and 102kg with a full water tank. Sound-deadening measures incorporated into the design allow use during the night.

Siting and Installation

Position machine adjacent to a suitable power supply (230 Volt * 6 Amp MCB to BS EN60898 or fuse 6 Amp to I.E.C 60269-4 with appropriate 10 Amp isolator); an adequate cold water supply line; and a suitable drainage connection. Ensure that the floor area is firm and level and fix the unit in position, by bolting down using the holes provided. Also a disconnecting device according to IEC61010 must be fitted to the final installation.

Plumbing

Connect water supply via a 15mm (minimum) rigid or flexible pipe feed to the machine water tank at upper left or right hand side of machine which has a standard connection to a 1/2" BSP float type cistern valve. Flow rate should be 18 litres per minute minimum into water tank, which holds ample water for a complete cycle (approximately 24 litres overall during the two minute cycle).

NB The macerator is supplied with both high and low pressure orifices for selection on site.

Plumbing - Points to watch

1. Ensure the supply line to the unit is at no point less than 15mm – larger if the available head is very low.
2. Ensure other fittings do not starve the supply.
3. Fit an easily accessible isolating valve close to the unit.

Drain Connection

The unit is fitted with a 50mm (2") 'P' trap. In order to connect to the drain, it is necessary to cut a minimal clearance hole in the plastic drain access cover located at the rear of the machine below the water tank. It is important to ensure that the drain access cover is fitted so as to prevent access to internal electrical components. Connect to the drain by tightening the compression fitting on the 'P' trap onto the inserted copper or plastic drainpipe. A slow bend/elbow to connect to a right, left or downward run of pipe can be fitted in the free area below the water tank.

Drain Connection - Points to watch

1. Ensure shortest possible route to soil drain, with minimum number of bends.
2. If necessary, use long radius or 'swept' bends, never short, or 90° elbows.
3. Waste must be run separately to soil stack or drain.
4. Ensure that the fall is 1:25 minimum or sufficient to maintain a self-cleansing velocity.
5. Provide easy access for roding.
6. Ensure a clean run inside pipework – no burrs or reducing shoulders.
7. With plastic pipework ensure no reduction in bore size, adequate support for horizontal runs to prevent sagging, and remember ceiling voids can get very warm.
8. Avoid running drain line near or across hot water pipes.
9. Although the macerator does have a type 'AB' air gap, anti-siphoning precautions to be in line with general practice.

Overflow Connection

The Vortex is supplied with a 32mm (1 1/4") tank connector which may be fitted to either the right or left hand side of the water tank as required during installation.

Electrical

Single phase electrical system (nominal 230v, 1 Ph, 50HZ)
The machine is fitted with a 3 metre length of 1.5mm flex to BS6500 which shall be connected to: 230 Volt Machine – 6 Amp MCB to BS EN60898 Type C or fused 6 Amp to IEC 60269-4

N.B. The single phase macerator can be connected to a three phase and neutral electrical installation by using a single phase and neutral wire from the three phase distribution board.

Commissioning

The Vortex must be commissioned by a qualified Vernacare distributor before use to ensure the validity of the warranty. Commissioning can be arranged at time of order.

N.B. Without the specified plumbing, drainage and electrical services being used, a warranty may not be issued.



KM 23198
IEC 61010-1:2001





TECHNICAL SPECIFICATION



VORTEX

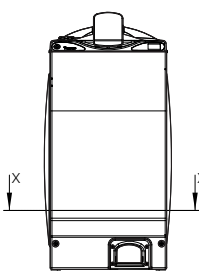
NEW

FRONT VIEW

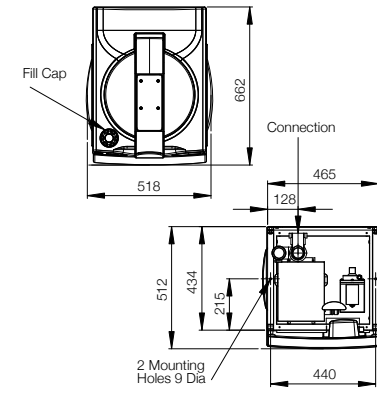
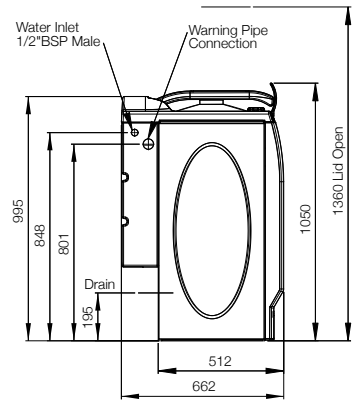
SIDE VIEW

PLAN VIEW

Dimensions in mm



Water inlet and warning pipe connections can be made to either the left or right side of the machine



Operational Information

With a capacity of four urine bottles or two washbowls, or any equivalent load, the unit weighs 72kg dry and 102kg with a full water tank. Sound-deadening measures incorporated into the design allow use during the night.

Siting and Installation

Position machine adjacent to a suitable power supply (230 Volt * 6 Amp MCB to BS EN60898 or fuse 6 Amp to I.E.C 60269-4 with appropriate 10 Amp isolator); an adequate cold water supply line; and a suitable drainage connection. Ensure that the floor area is firm and level and fix the unit in position, by bolting down using the holes provided. Also a disconnecting device according to IEC61010 must be fitted to the final installation.

Plumbing

Connect water supply via a 15mm (minimum) rigid or flexible pipe feed to the machine water tank at upper left or right hand side of machine which has a standard connection to a 1/2" BSP float type cistern valve. Flow rate should be 18 litres per minute minimum into water tank, which holds ample water for a complete cycle (approximately 24 litres overall during the two minute cycle).

NB The macerator is supplied with both high and low pressure orifices for selection on site.

Plumbing - Points to watch

1. Ensure the supply line to the unit is at no point less than 15mm – larger if the available head is very low.
2. Ensure other fittings do not starve the supply.
3. Fit an easily accessible isolating valve close to the unit.

Drain Connection

The unit is fitted with a 50mm (2") 'P' trap. In order to connect to the drain, it is necessary to cut a minimal clearance hole in the plastic drain access cover located at the rear of the machine below the water tank. It is important to ensure that the drain access cover is fitted so as to prevent access to internal electrical components. Connect to the drain by tightening the compression fitting on the 'P' trap onto the inserted copper or plastic drainpipe. A slow bend/elbow to connect to a right, left or downward run of pipe can be fitted in the free area below the water tank.

Drain Connection - Points to watch

1. Ensure shortest possible route to soil drain, with minimum number of bends.
2. If necessary, use long radius or 'swept' bends, never short, or 90° elbows.
3. Waste must be run separately to soil stack or drain.
4. Ensure that the fall is 1:25 minimum or sufficient to maintain a self-cleansing velocity.
5. Provide easy access for roding.
6. Ensure a clean run inside pipework – no burrs or reducing shoulders.
7. With plastic pipework ensure no reduction in bore size, adequate support for horizontal runs to prevent sagging, and remember ceiling voids can get very warm.
8. Avoid running drain line near or across hot water pipes.
9. Although the macerator does have a type 'AB' air gap, anti-siphoning precautions to be in line with general practice.

Overflow Connection

The Vortex is supplied with a 32mm (1 1/4") tank connector which may be fitted to either the right or left hand side of the water tank as required during installation.

Electrical

Single phase electrical system (nominal 230v, 1 Ph, 50HZ)
The machine is fitted with a 3 metre length of 1.5mm flex to BS6500 which shall be connected to: 230 Volt Machine – 6 Amp MCB to BS EN60898 Type C or fused 6 Amp to IEC 60269-4

N.B. The single phase macerator can be connected to a three phase and neutral electrical installation by using a single phase and neutral wire from the three phase distribution board.

Commissioning

The Vortex must be commissioned by a qualified Vernacare distributor before use to ensure the validity of the warranty. Commissioning can be arranged at time of order.

N.B. Without the specified plumbing, drainage and electrical services being used, a warranty may not be issued.



KM 23198
IEC 61010-1:2001

VORTEX

As our policy is one of continuous improvement we reserve the right to modify designs without prior notice.

Folds Road, Bolton, Lancashire BL1 2TX. Tel. +44 (0)1204 529494 Fax. +44 (0)1204 521713 info. www.vernacare.com

Vernacare
cleaner safer healthcare



The Next Generation Of Macerator Has Arrived

Advancing Infection prevention in hospitals around the globe.

Taking Hygienic single-use pulp disposal into a new era.

Improved Infection prevention features combined with ease of use and fast cycle times.

"We have sought the views of clinical specialists around the world in developing Vortex. Those who have seen the new macerator are excited by its improved infection prevention features and reassured that it is developed and built by Vernacare which has such a strong engineering pedigree and track record of reliability and back up support. Vernacare is the global market leader in single-use pulp products, and the Vortex is the latest in a range of innovative products launched by the group."

Greg Cranfield, Director of Vernacare International



Extremely positive evaluation results from hospitals in the United Kingdom, Europe and Australia.

- 84% of Nursing Staff found that the new Vortex Macerator saved time
- 88% believed that the new Vortex Macerator reduced the risk of cross infection
- 84% found that the deodoriser was effective.
- 95% said that the new Vortex Macerator was simple to operate

Innovative new features ensure even greater levels of infection control.

Unique Anti-Bacterial Deodoriser.

Hands-free lid opening.

Overload protection function.

Angled rotating twin cutter blades.

Blockage prevention, cleaner macerator drum, a reduced risk of infection and a cleaner sluice room environment.

Convenience / Speed

Simple operation minimal training.

Processes four pulp items in two minutes.

Provides rapid disposal even on the busiest of wards.

Design

Ergonomically smooth shape provides ease of cleaning.

Clear LCD display screen provides machine status along with operational guidance.



INNOVATION IN SLUICE ROOM EFFICIENCY

Vortex incorporates pioneering design and has been manufactured for maximum efficiency by Vernacare, the global leaders in medical pulping technology. The innovative hands free opening mechanism and unique twin bladed maceration process means Vortex is the preferred disposable pulp unit allowing fine maceration for free flowing drains.

Hands Free Opening

Preventing the risk of cross contamination in the sluice room, and reducing ward staff time.



Energy Efficient

The motor and intermittently operated pump ensure economic use of power; requiring only cold water the Vortex quickly and hygienically disposes of 4 pulp products every two minutes.

Hygienic

The lid seal has been proven to effectively contain aerosols, eliminating risk of micro-organisms being released into the air. The Vortex has a moulded surface casing designed to enable efficient cleaning. It will also withstand disinfectants and detergents.

Avoids Drain Blockage

The combination of the sealed, water filled hopper and its unique, innovative twin blade design provides complete maceration to a fine watery slurry which will flow freely through drains.

Automatic anti-bacterial cleaning process

The anti bacterial deodoriser works against bacteria in the hopper, while the light fragrance improves the maceration experience offering reassurance and piece of mind for the user.

For more information on Vernacare macerator deodoriser, please contact your Vernacare distributor.

Durable

The powerful 1kw three phase motor for single / three phase locations and square section frame provide inner strength and durability to withstand transportation providing an average life of 10 years. The Vortex macerator is manufactured to ISO EN 9001:2000 standards and is tested to ensure compliance with CE and BS requirements.

Technical Support

Vernacare distributors provide engineering support, that together with a comprehensive Technical Manual and the availability of cost effective service agreements provides additional peace of mind

The unique action of the Vortex's twin blade ensures complete maceration of the effluent avoiding costly drain blockages.

