

VORTEX^{AIR}+

with
ECO-ADAPTIVE
TECHNOLOGY™

ADAPTIVE

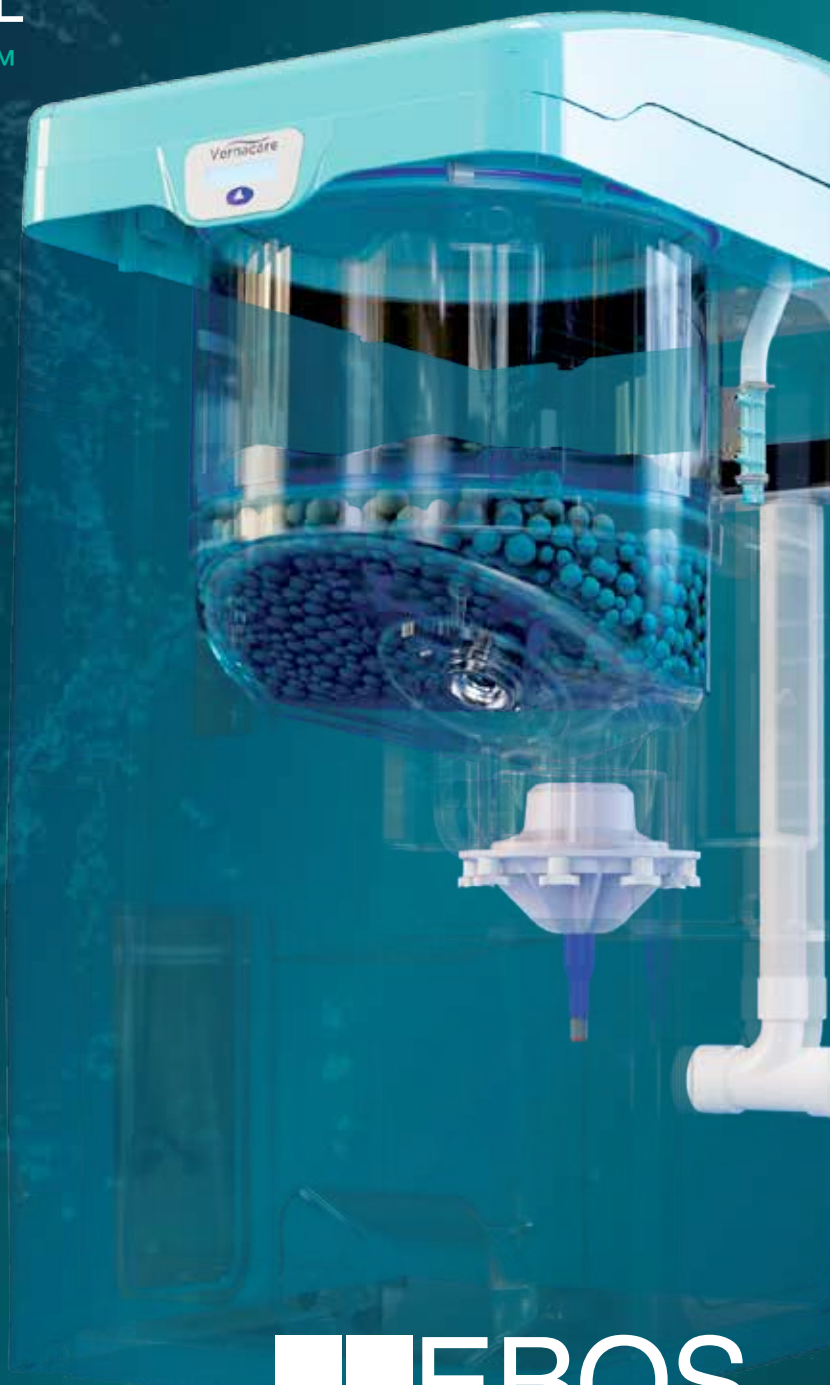
Tailored performance
that responds to every
load

INTELLIGENT

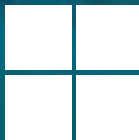
Autonomous cycle
selection and decision
making without any user
input needed

REVOLUTION

Redefining sustainability
in hospital waste
management




Vernacare

 **EBOS**
HEALTHCARE

ESSENTIAL TO HEALTH

ECO-ADAPTIVE TECHNOLOGY™

Adaptive-Intelligent-Revolution

The Vortex Air + is Vernacare's latest flagship model within the established Vortex range—a disposal unit designed to hygienically break down single-use medical pulp products and their contents into a fine slurry, which is safely flushed to drain.

At the heart of the Vortex Air + is Vernacare's Eco-Adaptive Technology, a smart system that automatically adjusts the cycle based on load type and volume. This dynamic approach reduces unnecessary water and energy use while maintaining full disposal performance.

Additional Features & Benefits



Touchless technology – including a deodoriser reservoir, Touchless Technology and SMART FLOW™ Technology



Smart sensors – for accurate and precise diagnostics ensuring optimal performance



Water efficient – Utilising only the water required to process each specific load



Eco-Adaptive Technology™ – Automatically, without user input, selecting an appropriate cycle to optimise the maceration process



Inflatable lid seal – prevents aerosolisation of potentially harmful pathogens



Display – provides full error description readouts and machine status



Multiple language options



Quiet operation – Operates only on 62.0dBA



See the Vortex Air+ in action.



EBOS Code: 11000437
Supplier Code: 2070ZA001

Working smarter to keep your teams safer

At Vernacare, we understand that machine downtime is not just disruptive, it can also pose an infection risk. The Vortex Air+ contains advanced diagnostic tools and sensors designed to support performance and maintenance.

Why choose a single-use disposable system?



Reduces cross infection risk from reusable bedpans



More convenient and hygienic



Minimises aerosols released during disposal and risk of transmission via droplets.



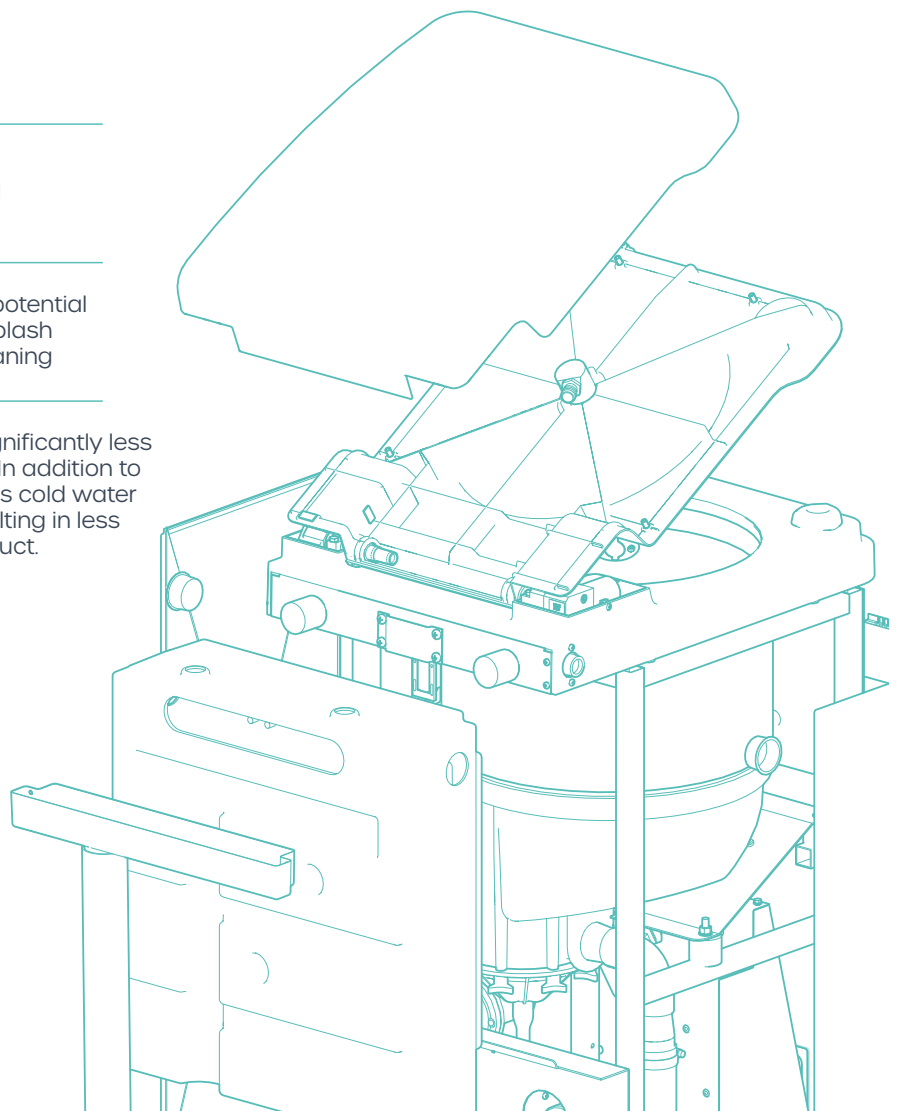
Hands-free system reduces number of potentially infected touch points



Immediate disposal reduces potential risk of contamination spray, splash backs, or spillages during cleaning



Vernacare macerators use significantly less water than bedpan washers. In addition to this, the Vortex Air only requires cold water to process pulp products resulting in less energy consumption per product.



SMARTFLOW

TECHNOLOGY

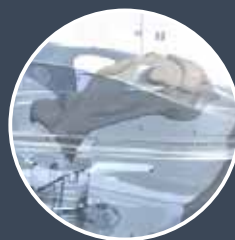
Vernacare invented SmartFlow™ technology to protect the environment and the healthcare facility. Our unique 'closed-drum' system ensures that all waste placed into our machines is fully broken down before being released into the wastewater system.



Step 1
Contents Added



Step 2
Cycle Initiation



Step 3
Ultra-Fine Maceration



Step 4
Rapid Discharge

Upon discharge, when crushed and disintegrated by the macerator, the **Vernacare pulp** decomposes into particles, **95%** of which are less than **1mm** and are easily transported by the sewage pipes to the wastewater treatment plants (which is the same consistency as toilet paper).

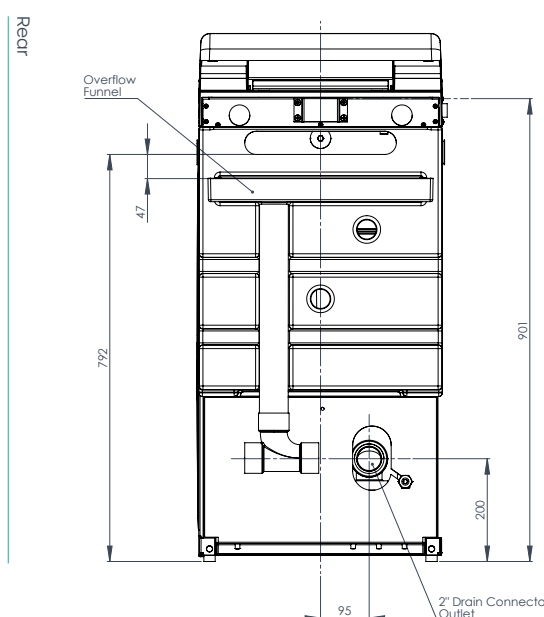
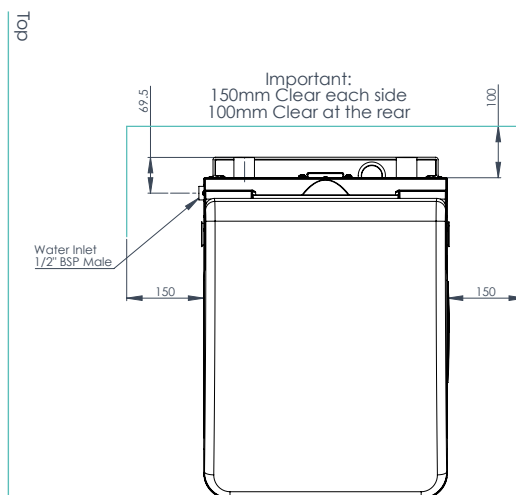
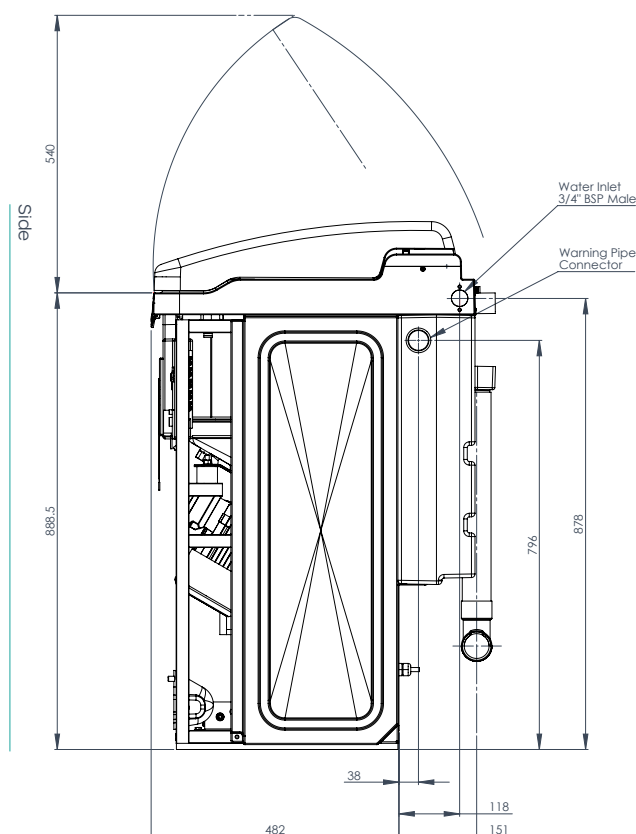


Vernacare's SmartFlow™ Technology and pulp has been independently verified by EDANA.

Technical Specifications

The connection points and dimensions of the Vortex Air+ have been carefully chosen to allow seamless replacement of its predecessors in the range. This includes the V2000, V2020, Vortex and Vortex+.

Cycle Time (Standard)	120 seconds
Cycle Time (Heavy Duty)	140 seconds
Cycle Time (Eco Mode)	95 seconds
Weight	76kg
Capacity	6 small, 4 medium or 2 large disposable pulp products
Closing Mechanism	Automatic (via foot sensor)
Opening Mechanism	Automatic (via foot sensor)
Outside Dimensions	427 x 628 x 1027mm
Drain Outlet	2" P Trap (included)
Water Inlet	3/4" BSP (male)
Water Usage (Standard)	23L
Water Usage (Heavy Duty)	27L
Water Usage (Eco Mode)	16L
Required Flowrate	12L/min (minimum)
Sound Level	62 dBA (average)



WHAT'S ON OFFER?

The Vortex Air + utilises the **ECO-ADAPTIVE TECHNOLOGY** operating system, adapting to your site requirements automatically by detecting the volume of pulp products added to the macerator.

No matter what the load, the Vortex Air + will only consume the water and energy needed to process your waste efficiently ready for discharge.

It's not just resources that are saved; it's also machine downtime and ease of maintenance. The Vortex Air + contains (Compared to older Vortex models):

- Significantly improved diagnostics
- On-Screen overload reset and pressure readouts
- Reduced nuisance error instances
- Improved reliability via design optimisation

STATS



Weight	72 Kg	72 Kg	72 Kg	72 Kg	72 Kg
Dimensions	471 x 620 x 1027mm	471 x 620 x 1027mm	470 x 620 x 1050mm	470 x 620 x 1050mm	470 x 620 x 1050mm
Touchless	Yes	Yes	Yes	No	No
Antimicrobial Surfaces	Yes	Yes	No	No	No
Water Usage (Eco)	16.5L	16.5L	-	-	NA
Water Usage (Std)	23L	23L	24L	24L	24L
Water Usage (HD)	27L	27L	-	-	-
Water Usage (Adaptive)	Variable (13L min)	-	-	-	-
Average Sound Level	62dBA	62dBA	67dBA	67dBA	67dBA
Quiet Mode Sound Level	54dBA	54dBA	-	-	-
Cycle Time (Eco)	1min 35sec	1min 35sec	-	-	-
Cycle Time (Std)	2min	2min	2min	2min	2min
Cycle Time (HD)	2min 20sec	2min 20sec	-	-	-
Cycle Time (Adaptive)	Variable (1min 30sec min)	-	-	-	-
Selectable Languages	Yes	Yes	No	No	No
Seal Type	Dynamic	Dynamic	Static/Dynamic	Static	Static
Inverter Controlled	Yes	Yes	Yes	Yes	Yes
Error/Misuse Counter	Yes	Yes	No	No	No
On-Screen Pressure Readout	Yes	No	No	No	No
Adaptive Cycle Mode	Yes	No	No	No	No
Rinse Cycle	Yes	No	No	No	No

OTHER INFORMATION

STANDARDS AND CERTIFICATION

Directives:

- EC Directive 2006/42/EC
- EC Directive 2011/65/EU
- EC Directive 2014/30/EU

Standards:

- EN ISO 12100:2010
- EN 61010-1:2010
- EN 61010-1/A1:2019
- EN 61010-1/A1/AC:2019
- EN 61000-6-1:2007
- EN 61000-6-3:2007
- EN 61000-6-3/A1:2007
- EN 61000-6-3/A1/AC:2012
- EN IEC 63000:2018

CYCLE INFORMATION

- Sound Level (Time Weighted Average): **62.0dBA**
- Cycle Time (Eco Mode): **95 seconds**
- Cycle Time (Standard Mode): **120 seconds**
- Cycle Time (Heavy Duty Mode): **140 seconds**
- Water Usage (Eco Mode): **16.5 liters**
- Water Usage (Standard Mode): **23 liters**
- Water Usage (Heavy Duty Mode): **27 liters**
- Water Supply: **0.5bar Minimum (7.5L/min)**

Capacity:

- X6 Small single-use pulp products (such as multi-jugs and kidney bowls)
- X4 Medium single-use pulp products (such as bedpans and urinals)
- X2 Large single-use pulp products (such as washbowls)

Adaptive Cycle Mode:

The Vortex Air + utilizes Eco-Adaptive Technology to offer an adaptive/variable cycle model. This automatically minimizes the amount of water and energy used per cycle on average.

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Motorway Business Park
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