

# Vapormate

Overview, technical specifications  
and options



Vapormatt

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## Overview

The Vapormate is a compact, energy-efficient manual wet blasting machine designed for smaller spaces and components. It is ideal for surface preparation or testing the wet-blasting process before investing in a larger system. The Vapormate comes packed with all the features you would expect to find on one of our larger manual machines.

### Key features include:

- Ergonomically designed
- A large working area for its small footprint
- Powerful blast gun with adjustable pressure to prevent damage to fragile components
- Wide opening window with hinge rest allows easy component loading
- Hand-operated water jet for post-process rinsing
- Hand-operated air jet for rapid post-process drying
- Window wash to ensure you always have visibility of the blast process
- Moving bed filtration system to help keep running costs to a minimum by cleaning and recirculating water for rinsing

All of these features and benefits make the Vapormate suitable for a large number of different industries and applications, we've listed a few opposite.

## Industries and applications

The Vapormate's compact size, versatility and features make it highly suited to numerous different industries and applications including:

### Industries

- Additive manufacturing
- Aluminium extrusion dies
- Composites
- Cutting tools
- General use
- Medical implants
- Medical instruments
- Round shank tools

### Applications

- Component cleaning
- Deburring
- Descaling
- Paint stripping
- Preparation for composite bonding
- Surface activation for PVD/CVD coatings
- Surface improvement after casting

## Processing description

The Vapormate uses the Vapormatt advanced pump and nozzle system and can work with a wide scope of abrasive media making the machine very versatile.

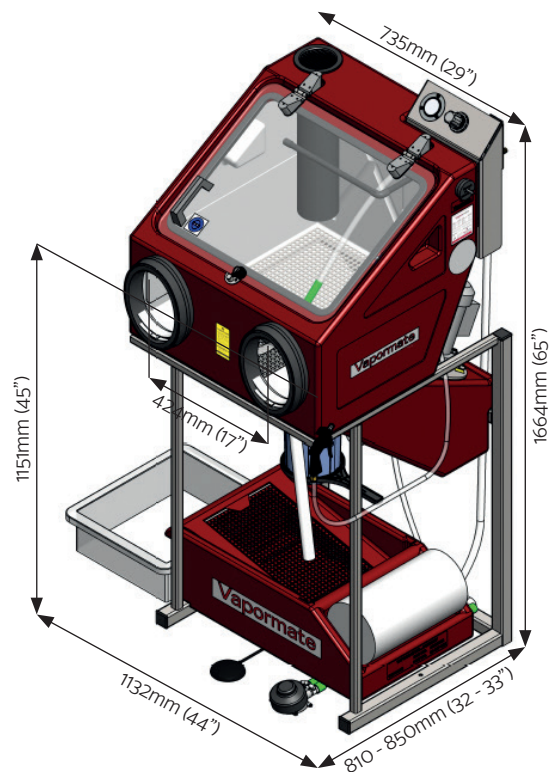
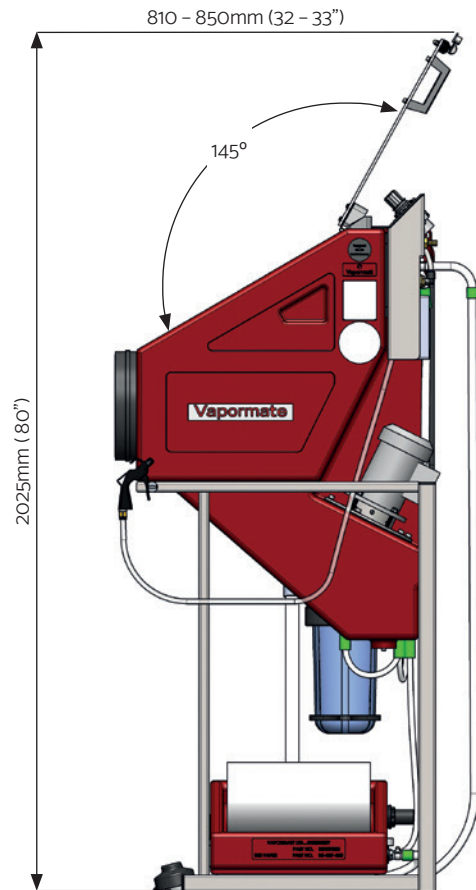
The process can be changed to match each application depending on media type and size and can be used for material surface preparation.



## Technical specification

The following features are included within the machine's basic specification.

Feature	Description
1	Cabinet construction is 4 - 6mm (0.16 - 0.24") thick high-density polyethylene (Recyclable HDPE)
2	Internal dimensions is generally 680 x 680 x 520mm (27 x 27 x 21") max height
3	Work surface max load is 25kg (56lb)
4	Sump capacity is 25L (5.50 gal)
5	MB filter capacity is 31L (6.82 gal)
6	Abrasive charge is 2 - 4kg (4.40 - 8.82lb) (see abrasive selection chart)
7	Machine weight: Empty = 65kg (144lb) With water = 148kg (326lb) (includes full MB filter unit) Gross packed in shipping crate (standard) = 159kg (351lb) (packed with no extras) Size = 1200 x 800 x 1170mm (47 x 32 x 46")
8	Abrasive pump - polyurethane
9	Load-bearing perforated stainless steel sump grids
10	Vapormate blast gun, 0.6Nm <sup>3</sup> /min @ 5.5 bar (20 SCFM @ 80 psi)
11	Manual rinse nozzle
12	Window/door unit
13	Sump overflow pipe
14	Hand-operated moving bed paper filter
15	Window wash bar (foot pump operated)
16	Footswitch for machine operation
17	Light unit
18	Supply cable - 2m (6.56') (no plug)
19	Component blow-off nozzle - with hose complete with filter regulator (compressed air powered). Externally mounted.
20	Recirculated rinse water pumping package. This is particularly useful for applications requiring detergent or rust inhibitor in the water as it enables a closed-loop system to be operated. Max flow rate of approximately 7L/min (1.54 gpm). Includes: air-powered diaphragm pump, regulator and cartridge filter unit.





## Optional items

The following features can be added to the machine's basic specification.

Feature	Cabinet enhancements
1	Translation of operation manual and labels in non-English (state language)

Feature	Blast gun alternatives
2	Low power Vapormate blast gun 0.3Nm <sup>3</sup> /min @ 5.5 bar (10 SCFM @ 80 psi) for delicate work, or to allow machine operation with a small compressor. Supplied in addition to the standard fitment gun.
3	Extra blast gun with hoses, 8mm nozzle. 0.6Nm <sup>3</sup> /min @ 5.5 bar (20 SCFM @ 80 psi). Supplied in addition to the standard fitment gun.

Feature	Critical spares package
4	H.P. V'mate gun assy. ex.hoses Gloves, 26' x 8', Heavy, nat.r. Fltr.roll, 340mm x 50m (13.39" x 164.04'), fine, V'mate Cartridge, 10" x 4.5', 30um, pleated - Washable Vapormate pump impellor Pump top, Mk2, V'mate, PU Pump body, Mk2, V'mate, PU Vapormate window LED Strip 5000-6000K 24V 72W IP67 Tube, PVC, clear, 400mm (15"). Door seal strip (std)



## Services to be provided by the customer

The following services are required for the machine to be run correctly.

Service	Requirement
Electricity	220/240V AV, single phase 50/60Hz, 13amp Must be protected by a residual current device (RCD or "Earth trip")
Air supply	Connection: DN15 (1/2") hose or Rp 0.5 (1/2" BSP) Pressure 2 - 7 bar (30 - 100 psi) Flow 0.3 - 0.6Nm <sup>3</sup> /min (10 - 20 SCFM) Quality DIN ISO 8573-1 class 5.6.4
Water supply	Minimum recommended size DN15 (1/2") hose Recommend flow 13L/min (2.86 gpm)



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