

## Vacmobile 20/2

20 m<sup>3</sup>/h pump  
2 litre catchpot

### The world's vacuum infusion workhorse since 2006

The 20/2 mobile vacuum system, with its onboard resin trap, has been thoroughly proven worldwide for vacuum infusion and vacuum bagging type processes in industry, research and training. The 20/2 is a versatile workhorse for laboratories and smaller scale infusions where the resin overflow will be less than 2 litres (4 US pints).

The 20/2 is a complete system; including an integrated resin trap, vacuum gauge, coarse range vacuum regulator, particle filter and motor overload protection. With the addition of oil (shipped with the machine), the 20/2 arrives ready to run on single phase power. There's no complicated set-up or installation costs. Exceptionally mobile, the 20/2 may be placed very close to the mould, delivering maximum vacuum to the laminate and reducing consumable costs.

### Now with the enhanced versatility of an End Vacuum Adjustment Valve (EVA Valve)

An EVA valve is now fitted as standard to the 20/2 system. This precisely adjustable valve significantly improves the versatility of the

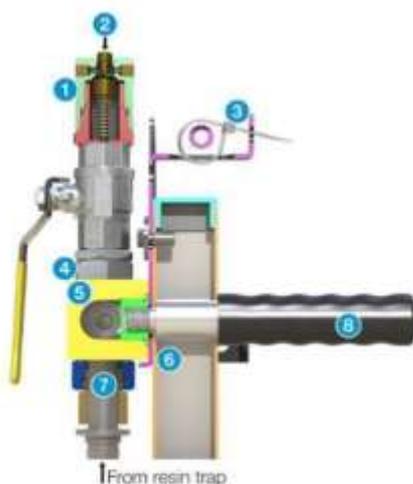


machine, especially when used in conjunction with the optional absolute pressure gauge. With the EVA valve closed, the pump will achieve a high level of vacuum for the final stages of drying the reinforcement BEFORE

infusion. With the EVA valve open, the pump's end vacuum can be preset to any vacuum level between 1 mbar (99.99% vacuum) and 100 mbar (90% vacuum). The adjustable end vacuum allows previously difficult laminating situations such as high moisture content reinforcements, or high volatility resins (such as most ester type resins) to be managed without the risk of creating porous laminates. For example, if the vapour pressure of water is 40 mbar at the ambient temperature of the day, the EVA valve may be set to limit the pump's vacuum to 50 mbar (or greater) to avoid water vapour boil-off.



Collapsed down for transport



Proven ruggedness and versatility. Here's why...

1. Silenced vacuum regulation valve
2. Instant vacuum release button for easy bag adjustment
3. Vacuum tubing restraint. Holds tubing from trap horizontally or vertically, as required
4. Valves mechanically locked to manifold. Cannot loosen or leak.
5. Manifold machined from solid aluminium block
6. Manifold physically locked to main handle of the machine. Cannot loosen in service
7. O-ring sealed connection to hose from the resin trap
8. Convenient working height handle and controls – allows for easy manoeuvring and operation. The handle is quickly compacted down for transport.

## Specifications

### Vacuum pump

**230 V + 5%** VSV-20. 50 Hz capacity 20 m<sup>3</sup>/h (11.8 cfm). 60 Hz capacity 24 m<sup>3</sup>/h (14.1 cfm)

**115 V + 5%** VSV-20. 60 Hz capacity 24 m<sup>3</sup>/h (14.1 cfm)

**Vacuum level** Adjustable from 20% vacuum (800 mbar absolute) to the pump's maximum vacuum: 0.5 mbar, 50 Pa, 0.38 Torr, 99.95% vacuum\*, 29.9 " Hg\*, -101.25 kPa\*, -14.68 psig\*  
\* Please note that "gauge" vacuums are weather and altitude dependent

**Resin catchpot** Disposable foil lined, heat resistant cardboard. Capacity 2 litres (4.2 US pints). Resin trapping capacity can be supplemented by external traps, such as the Vacmobile RT19.

**Tubing connections** The high integrity sealing quality and almost nil maintenance requirement of the Vacmobile O-ring sealed tubing connections has been proven for more than 20 years. The O-rings seal on the **outside** of extruded tubing, such as polyethylene, nylon and PVC. Standard connection sizes suit the following tubing outside diameters: 3/8" to 10 mm | 12.0 mm to 12.5 mm | 1/2" to 13 mm | 5/8" to 16 mm | 19 mm to 3/4". Adaptors available to suit 1/2" and 3/4" inside diameter tubing.

**Dimensions** Length: 470 mm (18.5") | Width: 390 mm (15.4").  
Operating height: 1,065 mm (42") | Transport height: 620 mm (24.4")

**Weight** 31 kg (68 lbs)

**Warranty** No fuss, as new repair or complete replacement warranty applicable worldwide.

## Optional accessories



**Glass resin trap lid.** The 10 mm (3/8") thick toughened glass resin trap lid is recommended for resin infusion applications. The glass lid allows the resin level in the trap's disposable catchpot to be inspected at any time. In conjunction with tubing valves or clamps, the glass lid makes it possible for the infusion process to be briefly interrupted while the internal catchpot is emptied or replaced. This avoids the risk of the catchpot overflowing and damaging the vacuum pump - great for peace of mind when infusing!



**Dual-Vac accessory.** The Dual-Vac accessory converts the standard single vacuum level machine into a dual vacuum level machine suitable for small RTM Light applications. The accessory provides access to maximum vacuum from one connection of the resin trap and access to an independently adjustable poorer level of vacuum from the second connection. Typically, the maximum vacuum port is connected to the clamping flange of the RTM Light mould and the reduced vacuum port to the part cavity of the mould.



**Clamping valve kit.** Harness the powerful but gentle holding force of vacuum by adding a clamping valve kit to the 20/2. This accessory is ideal for vacuum holding applications such as routing or surface finishing, as vacuum clamping does not mark the top side of the clamped part and allows access to the entire perimeter of the part. The kit includes a quick changeover valve that allows instant release of vacuum and automatically reverse flushes the internal filter.

"The machine meets absolutely our needs. It's the most used machine in our laboratory, and we have had no problems. It is very easy to handle and the resin trap is also very practicable. We make small wing airfoils in different carbon constructions." FH Joanneum University, Austria

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