



Key Features

- Very rapid pull-down (< 30s to 99%)
- Valveless start-stop
- Optimised vacuum curve performance
- Superior build quality
- Zero* oil mist/vapour
- Engineered for constant operation
- Compact footprint

Product Description

DS-26P is a 26L vacuum degassing system engineered to offer the highest possible performance and reliability for professional or industrial applications. Its fully integrated design provides a compact footprint, valveless start/stop operation and extremely fast vacuum pull-down.

The chamber and baseplate are manufactured from rugged mild-steel with a powder-coat finish in matching grey. A clear 20mm acrylic lid provides perfect visibility into the chamber during the degassing operation whilst a custom silicone seal section ensures reliable and fast sealing of the chamber.

Superior Performance

The station is powered by a high-specification EC20-1 vacuum pump from leading Italian manufacturer DVP. The pump's optimised vacuum curve and high 12CFM throughput ensure class-leading pull-down times of <30s to 99% vacuum; essential for fast curing resins and time saving for all degassing operations.

Zero Oil Mist/Vapour

Unlike oil-bath vacuum pumps the EC20-1 features continuous gas ballast and exhaust mist eliminator to ensure that the exhausted air is almost entirely free from oil making the pump suitable for sensitive environments such as confined workshops, schools, universities and laboratories.

Non-Return Check Valve

An integrated check-valve prevents oil and air back-flow when the pump is switched off making the system faster and easier to use whilst protecting it from user error.

Ready to Run

The DS-26P is supplied complete with an integrated power switch and IEC socket (with choice of region-suitable power-lead) making installation quick and easy - requiring only a standard 13A wall socket.

System Specification

Property	Units	Value
Chamber Internal Dimensions (h x Ø)	mm	350 x 295
Chamber Internal Capacity (total)	litres	26
Recommended Degassing Capacity	litres	6
Overall Dimensions (l x w x h)	mm	475 x 632 x 386
Total Weight	kg	39.9
Powdercoat Colour	RAL	7036

EC20 Specification

Property	Units	50Hz	60Hz
Manufacturer (Country of Manufacture)		DVP (Italy)	
Nominal Capacity (Metric)	m ³ /h	20	24
Nominal Capacity (Imperial)	CFM	11.77	14.13
Total Final Pressure (Abs)	%	99.8	99.8
Noise Level (UNI EN ISO 2151 - K - 3db)	dB(A)	64	67
Type of Oil (DVP Original)	DVP Part #	BV32 (SW40)	
Type of Oil (Compatible)	EC Part #	VPO32	
Oil Capacity Min / Max	litres	0.45 / 0.50	
Pump Intake and Outlet Fittings		1/2" G/BSPT	
Continuous Duty Working Range (Abs)	mbar - hPa	400—2	
Operating Temperature @ 20°C	°C	60—65	65—70
Required Room Temperature	°C	12—40	
Max Humidity / Altitude	% / m s.l.m.	80 / 1000	



Recommended Uses



- Polyurethane Resin (fast-cast, water clear, flexible etc.)
- Epoxy Resin (casting, infusion etc.)
- RTV Silicone Rubber (addition)
- Material Research & Development

Incompatible Materials

Use with Acrylic Resins, Solvented Resins and Solvents

Whilst clear acrylic provides the best combination of clarity, durability and practicality for the vast majority of applications, it is highly susceptible to attack from solvents such as acetone and styrene, and acrylic compounds such as methacrylate ester. This is true for all potential lid materials (such as Plexiglass, Perspex and polycarbonate).

For this reason, the chamber must NOT be used for the degassing of acrylic resins (such as 'Cactus Juice' methacrylate) or styrene-borne resins such as polyesters and vinylesters. Use of the chamber to degas such materials will weaken the integrity of the lid and ultimately result in failure.

Materials with High Moisture Content

Please note that this system is NOT suitable for degassing materials with a high water content (such as plaster) or vacuum drying without the use of an inline moisture trap.

Optimised Vacuum Curve

When rapid pull-down to high levels of vacuum is required the 'vacuum curve' of the pump makes a critical difference. DS-26P's superior performance results in an optimised vacuum curve which reaches high levels of vacuum (where degassing will start to occur) far earlier in the pull-down cycle.

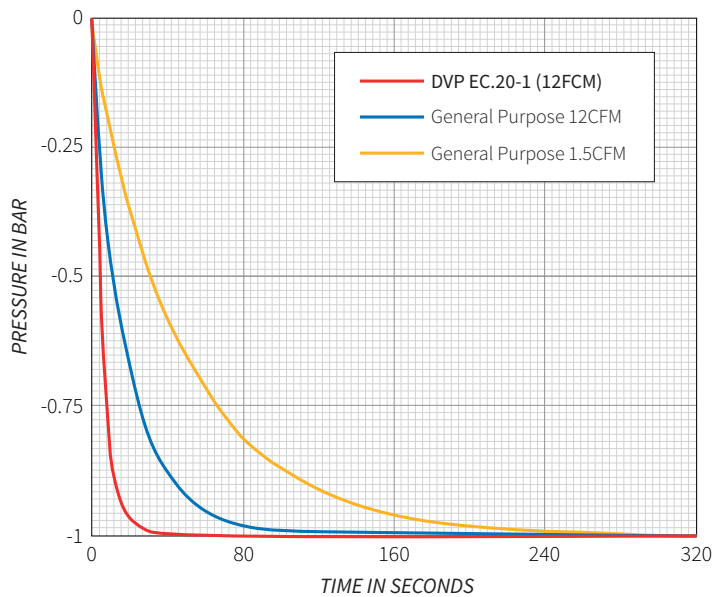
The DS-26P is suitable for use with highly reactive resins and silicones which need to be degassed inside their short working times.

DS-26P will reach almost total vacuum in 60 seconds; far quicker than general purpose vacuum systems, even with the same stated capacity, as shown below:

	Typical 12CFM Vacuum Pump*	DVP EC20-1
Time to 90% Vacuum	45s	13s
Time to 99% Vacuum	1m 55s	35s
Time to 99.9% Vacuum	3m 15s	2m 50s

EC.20-1 Optimised Vacuum Curve

Real World Performance Comparison



Controlled test conditions. Pressure recorded in empty 26L vacuum chamber.

Included Equipment

- EC20-1 Industrial Vacuum Pump (with anti-vibration mounts)
- DC-26P Degassing Chamber (with valve and gauge)
- Steel baseplate (with fittings and feet)
- 1/2" BSP vacuum fittings and hose
- Exhaust filter
- Integral exhaust mist-eliminator, gas ballast and non-return check-valve.
- Pack of BV32 vacuum pump oil
- Integrated power switch and IEC socket
- User manual with assembly instructions

Power Supply

The EC20-1 is suitable for use in all countries and territories with a 220-240v mains supply. The pump is available with a choice of the most popular international mains plug types.

The pump cannot be operated on a 110v mains supply such as in the USA or Japan.

Installation

The EC20-1 vacuum pump includes an integrated power switch and IEC (Schuko) socket. Choose the appropriate regional power-lead when ordering.

Designed, manufactured and sold by:

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