BIOSPECTRIX
ADVANCED LABORATORY SOLUTIONS

BS DVP-633
DIAPHRAGM VACUUM PUMP

LOW NOISE OPERATION | LIGHTWEIGHT & COMPACT | SAFE & RELIABLE

A compact laboratory vacuum solution for evaporation, concentration, vacuum drying, reactors and filtration workflows.



34 L/min	600 Pa	200 W	Gas Ballast
Maximum pumping rate	Ultimate pressure*	Motor power	Function

BUILT FOR EVERYDAY LABORATORY VACUUM DUTIES

The DVP series is designed to provide pressure conditions for laboratory experimentation or production. The supplied manual identifies evaporation and distillation test equipment, concentrators, vacuum drying ovens, reactors, negative-pressure filtration and solid-phase extraction among its application areas.

EVAPORATION | CONCENTRATION | VACUUM DRYING | REACTORS | FILTRATION

Applications across the laboratory

Use the DVP-633 as a vacuum source alongside compatible laboratory systems.

01 **EVAPORATION & DISTILLATION** Vacuum support for evaporation and distillation test equipment.	**02** **CONCENTRATION** Vacuum conditions for concentration workflows.
03 **VACUUM DRYING** Suitable for vacuum drying oven applications.	**04** **REACTOR** Provides vacuum conditions for compatible reactor setups.
05 **NEGATIVE-PRESSURE FILTRATION** Supports negative-pressure filtration testing.	**06** **SOLID-PHASE EXTRACTION** Applicable to solid-phase extraction testing.

Construction & gas-contact materials

Valve plate	FFKM
Diaphragm	PTFE + FKM
Gas pipeline connecting pipe	FEP
Suction joint	PTFE + C
Gas ballast	FKM / PTFE + C
Gas chamber	ETFE

Gas ballast function: Yes. Case protection class: IP20. Pollution prevention class: Class 2.

Technical Specifications

DVP-633

Diaphragm Vacuum Pump

Model	BSDVP-633
Ambient temperature	5–35°C
Relative humidity	£70%
Motor power	200 W
Maximum vacuum degree / ultimate pressure*	600 Pa / 6 mbar
Power supply	220–240 V~, 50 Hz
Maximum pumping rate	34 L/min (about 2 m³/h)
Inner diameter — inlet nozzle	Ø7 mm
Inner diameter — outlet nozzle	Ø7 mm
Connection hose for inlet/outlet nozzles	Ø14 × Ø8
Case protection class	IP20
Pollution prevention class	Class 2
Gas ballast function	Yes
Valve plate material	FFKM
Diaphragm material	PTFE + FKM
Gas pipeline connecting pipe	FEP
Suction joint material	PTFE + C
Gas ballast material	FKM / PTFE + C
Gas chamber material	ETFE
Overall dimension (W×D×H)	270 × 250 × 210 mm
Weight	9.5 kg
Packing dimension (W×D×H)	325 × 305 × 250 mm
Packing weight	10 kg

*The source specification labels this field as 'Maximum vacuum degree/ultimate pressure' and gives 600 Pa / 6 mbar.

Compact footprint. Practical laboratory integration.

The DVP-633 is specified with Ø7 mm inlet and outlet nozzle internal diameters and an Ø14×Ø8 connection hose.



INDOOR INSTALLATION	MAX. INLET GAS TEMP.	GOOD VENTILATION
Specified for indoor use.	Gas drawn in should not exceed 60°C.	Maintain ventilation around the pump.

Important operating & safety notes

- Do not use in explosive gas or explosive dust environments.
- Not suitable for pumping flammable/explosive substances, liquids, solid particles, or media with extremely high dust content.
- Do not use outdoors or where rain/splashing water can reach the equipment.
- Do not use in high-temperature or high-humidity environments.
- Before opening the casing for maintenance, disconnect the power supply and wait 5 seconds.
- Only appropriately qualified personnel should operate or repair the equipment.
- Keep the equipment away from corrosive acid/alkali vapors that may affect component performance and service life.

Source basis: supplied DVP-633 instruction manual. Product suitability should be assessed for the actual process, medium and operating conditions.