LAJAC
Products for dust handling

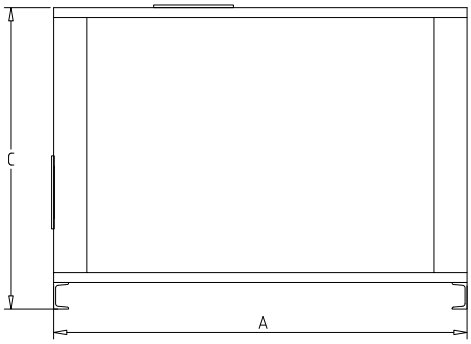
SHPV-L

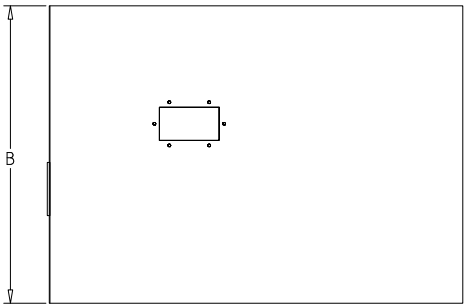
SHPV-L suction unit is a silent suction source for central vacuum cleaning installations and extraction of welding torches, handheld machines etc. The airflow of the unit is 1000-3000 m3/h depending on the model. Maximum vacuum is 20.000 Pa. SHPV-L has centrifugal two-stage fan with belt drive and the electrical motor integrated in a sound insulated cabinet.

The cabinet is equipped with a large service hatch. The fan is mounted on a stand with silencers and is protected with a belt guard. Inlets and outlets are fitted with flexible connections. The engine is cooled because the casing is fitted with inlet and outlet openings for cooling air, which can be connected to the ducting if required. Dust collector must always be placed before the suction unit SHPV-L. Appropriate dust collectors are SDCH-L or SDCC-L. The suction unit may not be used for extraction of explosive gases or liquids. It is designed for continuous operation and can be placed indoors or outdoors, if it is placed with protection from the weather.

SHPV-L

Technical data



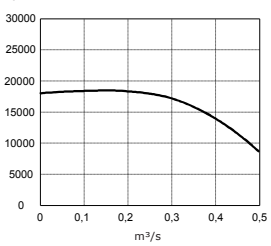


	SHPV-150-L	SHPV-185-L	SHPV-220-L	SHPV-370-L
A (mm)	1100	1250	1250	1500
B (mm)	800	900	900	1100
C (mm)	795	910	910	980
Ø1 inl. (mm)	160	200	200	250
Ø2 outl. (mm)	250	250	250	315
Motor effect (kW)	15	18,5	22	37
Speed (r/m)	5860	4972	5269	4405
Air flow (m³/h)	1000	1700	2000	3500
Sound level (dB) (A)	72	72	78	78
Weight (kg)	360	460	515	650

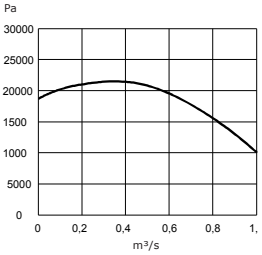
*Measured at 1 meter from the fan with ducted inlet and outlet

Fan capacity

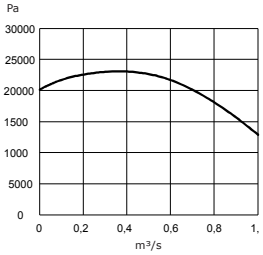
SHPV-150-L



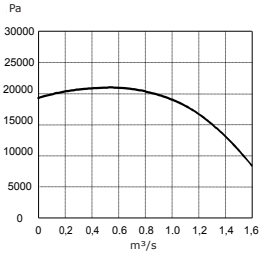
SHPV-185-L



SHPV-220-L



SHPV-370-L



SHPV-L

Installation and maintenance

ATTENTION!
Isolation switch for the fan should be switched off during all maintenance work on equipment. Use protective gloves, goggles and masks.

Montage
Place the suction unit on a flat, stable surface. The suction unit can be mounted indoors or under protection outdoors. All electrical wiring must be done by a qualified electrician. Wiring must be performed with zero voltage trigger to prevent automatic restart at, for example, power outages. The fan rotation direction is indicated by an arrow. Note that the fan sucks air even rotation is wrong. For cooling the unit, cool air is required. In a well ventilated plant room etc., the existing cold air in the room can be used. For other indoor positioning, the cooling air inlet is connected in some other suitable way. The inlet of the suction unit must be connected to a dust collector, since the fan is not intended for polluted air. The outlet should be fitted with silencers.

Check before starting that:
- all connections are fitted.
- V-belts are correctly tensioned.
- engine protection and safety valve is set correctly.

Regular maintenance
The V-belts should be checked two times per year and tightened or replaced, if necessary. The motor and fan have permanently lubricated bearings and is normally maintenance free.

Troubleshooting Guide for poor suction power:
- The filter unit clogged or dust container overfilled
- Stop or leakage in the piping system
- Too many extraction points open
- Wrong direction of rotation of the fan
- Poorly tensioned belts
- Faulty seals in the inspection doors

Troubleshooting Guide when the motor protection trips:
- Check the motor protection fuses and the size of these.
- Too large quantity of air or too many extraction points open

Declaration of conformity according to EU Directive 2006/42/EC.

Be aware that the unit may not go into service until the machine or the system it is to be included in, complies with the requirements of the EU machinery directive.