

### Use :

Side channel vacuum pumps are used in applications requiring high air flow. These pumps are designed for industrial applications and can operate 24 hours a day. They require little maintenance and are easy to use. They are designed for use in vacuum or compressed air applications. When using for a vacuum application, the inlet must be connected to the application and the exhaust gas can be released to the atmosphere. When used for compressed air applications, the inlet must be connected to atmosphere and the exhaust can supply compressed air to the system. It is strongly recommended to use a pressure relief valve in both applications. Side channel pumps are used in:

- Clamping, lifting and holding parts
- Pneumatic transport
- Filling of bags, bottles, hoppers
- Aeration of wastewater treatment plants, Various aeration
- Thermoforming, Vacuum packaging
- Dental suction equipment, gas analysis
- Printers, scanners, laser printers
- Food processing machines, textile machines



### Principle of operation:

The gas is taken in through the inlet. As the gas enters the side channel, the rotating impeller imparts velocity to the gas in the direction of rotation. Centrifugal force in the impeller blades accelerates the gas outward and the pressure increases. Every rotation adds kinetic energy, resulting in the further increase of the pressure along the side channel. The side channel narrows at the rotor, sweeping the gas off the impeller blades and discharging it through the outlet silencer where it exits the side channel blower.

### Features:

Side channel pumps are designed for use under vacuum and pressure, operating dry and contactless. They are used worldwide in many applications requiring an inlet volume flow rate of less than 2,500 m<sup>3</sup>/h and a differential pressure of up to 780 mbar. These fans are reliable, have low maintenance cost and low investment cost, making them the number one choice in the world.

### Options:

- Filter, non-return valve, silencer
- Vacuum gauge, hose, fitting, valve and distributor
- Security system and mounting base

Type	Flow in m <sup>3</sup> /h	Vacuum mbar	Motor in Kw	Sound level dB(A)	Voltage in V	Connection for vacuum	Dimensions in mm			Weight in kg
							Diameter	Length	Height	
CL121B3*	80	-120	0,4	65	3x400	1-1/4"	246	265	256	10
CL172B3*	318	-260	3	69	3x400	2"	385	446	385	34
CL182B3	530	-320	7,5	70	3x400	2-1/2"	451	513	461	128
CL192B3	1050	-360	18,5	74	3x400	4"	550	611	569	204
CL196B3	1370	-320	18,5	75	3x400	4"	550	709	569	206
CL220A01*	88	-210	0,7	60	1x230	1-1/4"	316	316	270	15
CL272B3	320	-340	4	73	3x400	2"	426	566	410	53
CL273B3	320	-420	5,5	73	3x400	2"	426	607	410	70
CL283B3	520	-460	15	74	3x400	2-1/2"	500	545	490	221
CL293A3	1110	-440	25	74	3x400	4"	615	812	607	211
CL299A3	2050	-310	25	75	3x400	4"	615	1201	723	235
CL312A3	65	-400	1,1	59	3x400	1-1/4"	331	390	380	29
CL341A3*	165	-340	3,3	65	3x400	1-1/4"	418	390	455	35
CL344A3	170	-700	7,5	72	3x400	1-1/4"	442	717	455	86

\*On stock

### Exemple of order :

Vacuum pump  
Designation

SAV 249.72 - CL172B3 - 400  
SAV N° - Type - Voltage