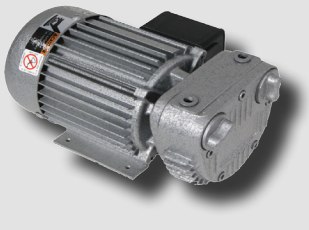
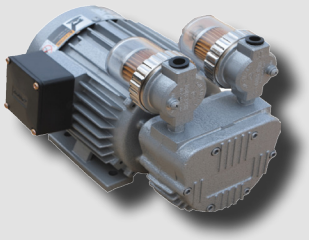
SML series

SML 030/060



SML 140



SML 280

Symbol


How to Order

SML ① 030 ② - B ③ C ④ - ⑤

① Series

SML	Dry running type rotary vane vacuum pump

② Displacement

030	30 m^3/hr
060	60 m^3/hr
140	140 m^3/hr
280	280 m^3/hr

③ Motor voltage

Single-phase		3 phase	
A	110/220V	D	220/380V
B	220V	E	380V
C	110V	F	220V
L	240V	G	440V
		H	460V
		J	415V
		K	200V

④ Motor hertz (Hz)

A	60
B	50
C	50/60

⑤ Arrival pressure

Nil	Standard (Refer specification table)
B	2mbar
C	20mbar

Specifications

			SML030	SML060	SML140	SML280
Displacement	50Hz	ℓ/min	25	50	120	235
	60Hz	ℓ/min	30	60	140	280
Max. pressure	50Hz	mmHg	550~600		660	
	60Hz					
Max. pressure		bar	1.0			
Rated voltage 3-phase	50Hz	V	-			220/380
	60Hz	V				
Rated voltage Single-phase	50Hz	V	110, 220			
	60Hz	V				
Motor rated output 3-phase		W	-			560
Motor rated output Single-phase		W	40	90	250	560
Motor revolution	50Hz	min^{-1}	1420	2600	1425	
	60Hz	min^{-1}	1700	3200	1725	
Noise		dB(A)	58			68
Max. vapor allowance		mbar	-			
Vapor volume		ℓ/hr	-			
Operating temperature (Ambient)		℃	40			
Weight	50Hz	kg	7.0		25.5	
	60Hz					

Features

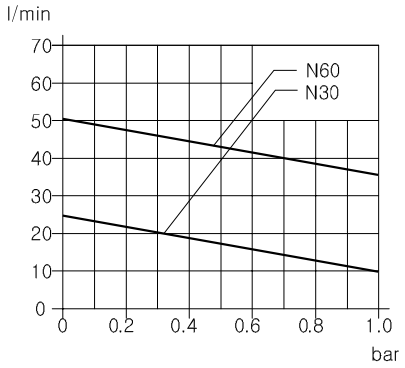
- Reliability: High quality material, quality control according to ISO9001, CE mark authentication standard, automated machining facility, computer control process, etc. Guarantee standardized and accurate product manufacturing.
- Environmentally safe: Air-cooling, low vibration and low noise level, filter of draw out allows this pump to be used for vacuum and compression in any environment without using oil.
- Easy to service: Compact design, air cooling and easy access allows rapid and simple servicing with long periods with services. It is easy to change the carbon vane of the main part as its designed is easy to assembly and disassembly. So, this pump is available a long service life.
- Miniaturization: This is simple type that spindle of flange motor connect pump rotor & cylinder directly and cooling type used with cooling fan. It is small size and lightweight.
- Applications: Packing machine, printing machine, medical instrument, and vacuum suction feeding.

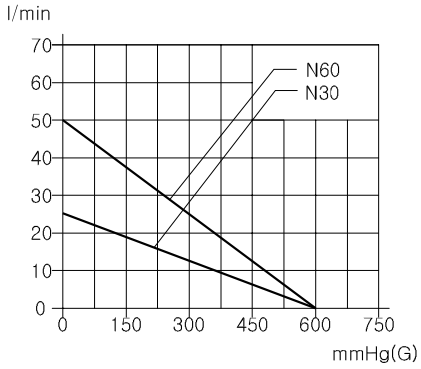
Operation Principle

This vacuum pump is oil-free rotary vane type, which comprises rotor, vane and cylinder. Rotor and cylinder center are assembled eccentrically, and 4 vanes rotate by centrifugal force in pushed state to the inside wall of cylinder. At this time, cell takes place between vane and vane, happen to the vacuum and pressure whose volume change sucks, expanse, compresses and discharges. The material of vane is carbon and it obtains continuously vacuum and pressure without using oil. It is suitable to process suction and discharge pressure as in printing machine. Carbon vane required a frequent change due to the abrasion after a long term of use. This type of carbon vane is easy to change and maintenance.

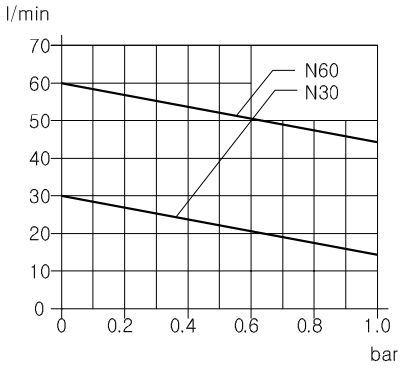
Pressure & Flow Characteristics- SML030, SML060

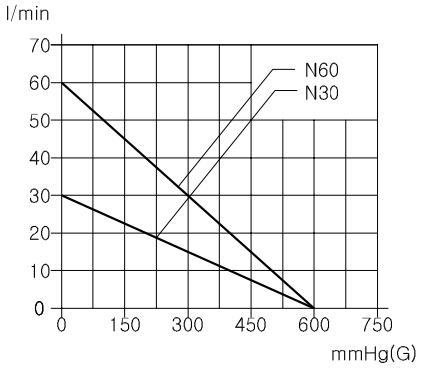
50Hz





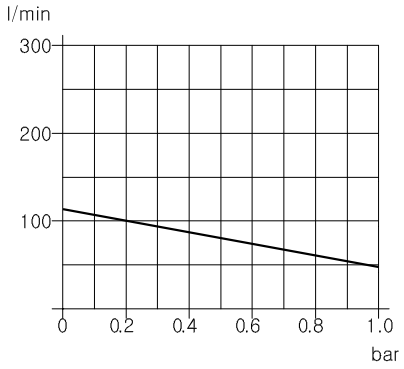
60Hz

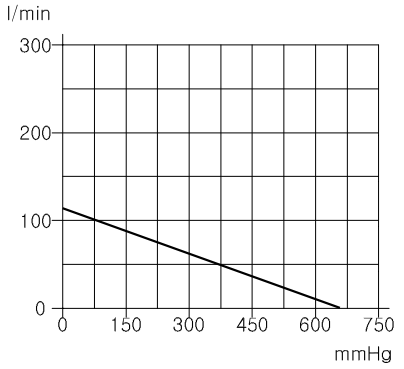




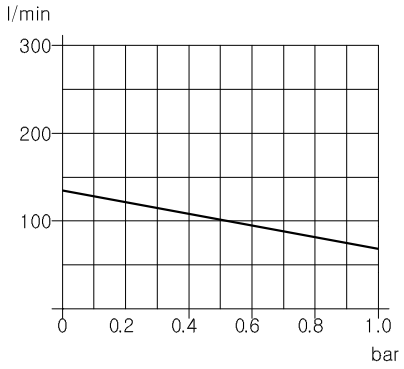
Pressure & Flow Characteristics-SML140

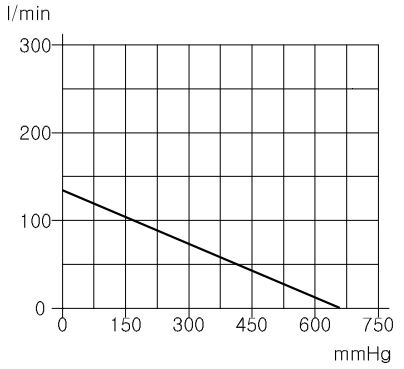
50Hz





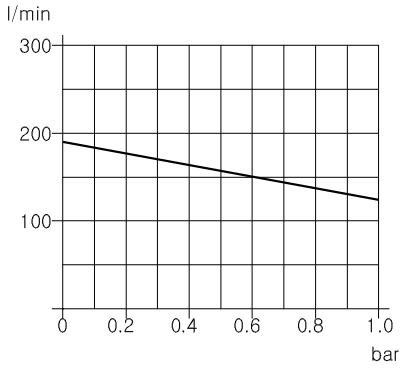
60Hz

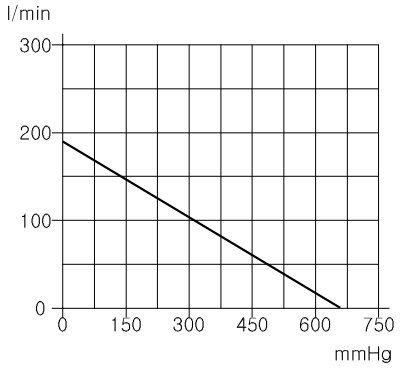




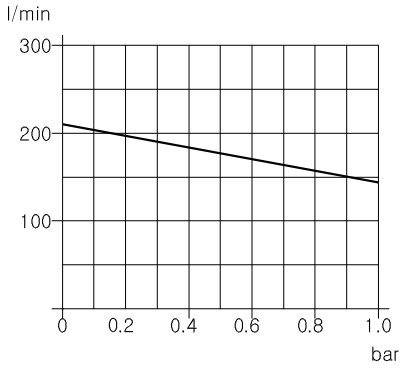
Pressure & Flow Characteristics-SML280

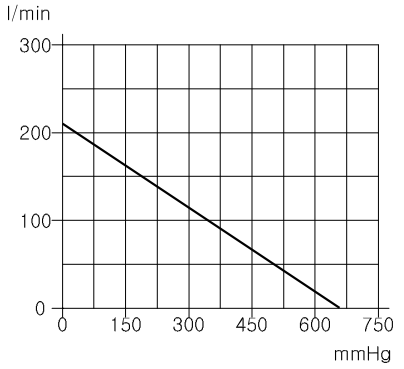
50Hz





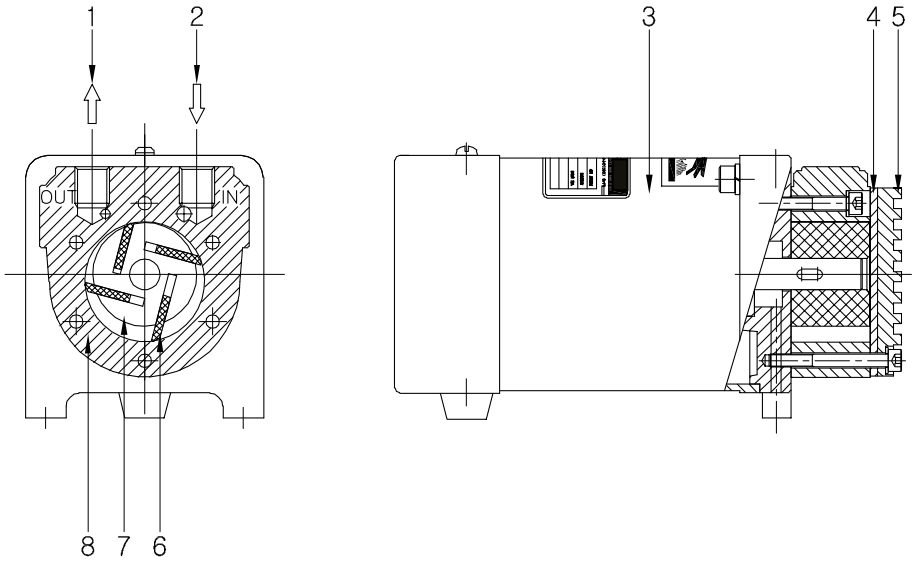
60Hz



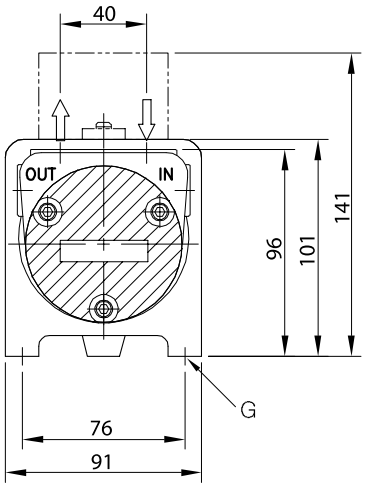


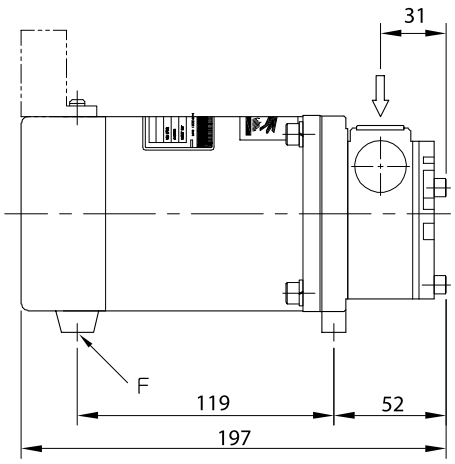
Structure-SML030, SML060

Part no	Parts
1	Exhaust port
2	Inlet port
3	Motor
4	Cylinder cover A
5	Cylinder cover B
6	Vane
7	Rotor
8	Cylinder

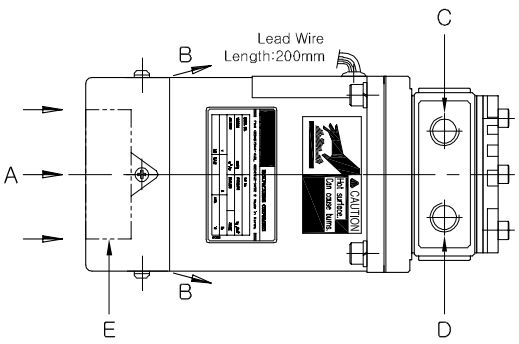


Dimensions-SML030, SML060



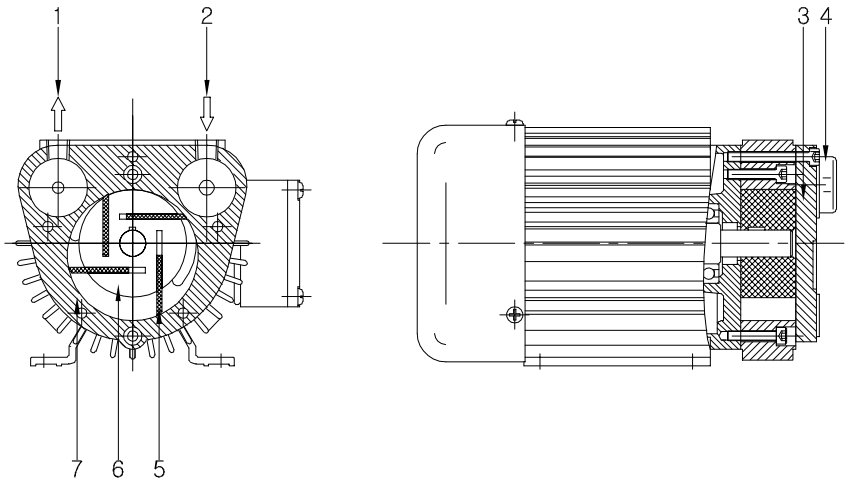


Part no	Parts	Remarks
A	Cooling air entry	-
B	Cooling air exit	-
C	Inlet port	Rc(PT)1/4"
D	Exhaust port	Rc(PT)1/4"
E	Condenser	-
F	Rubber foot	-
G	Pump base	2-M6 (DP8)

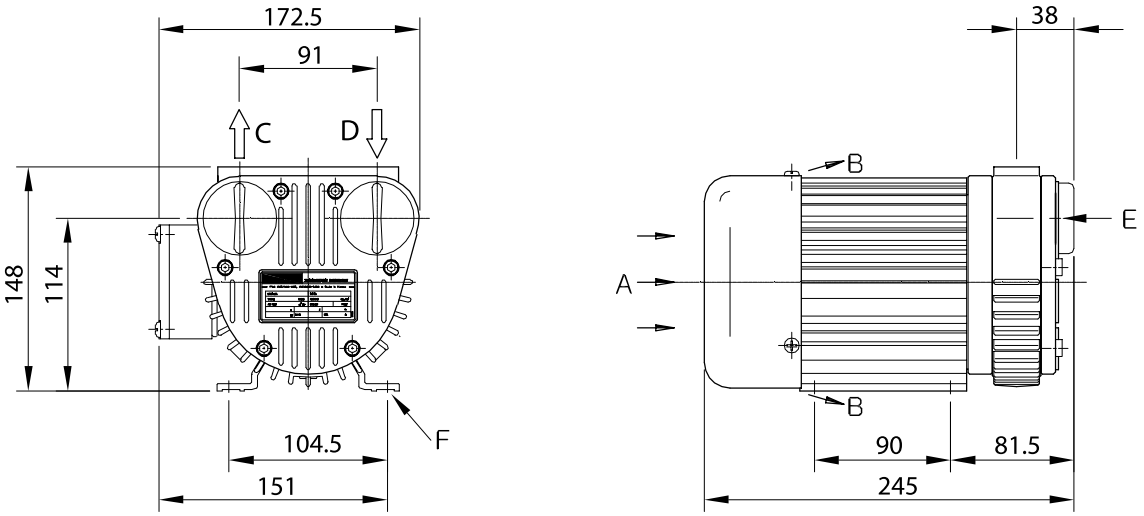


Structure-SML140

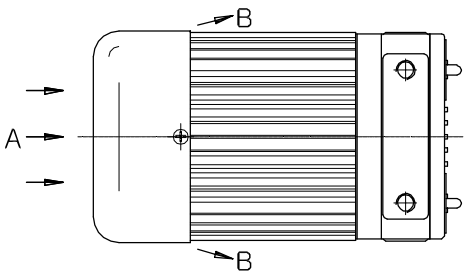
Part no	Parts
1	Exhaust port
2	Inlet port
3	Cylinder cover
4	Filter cap
5	Vane
6	Rotor
7	Cylinder



Dimensions-SML140

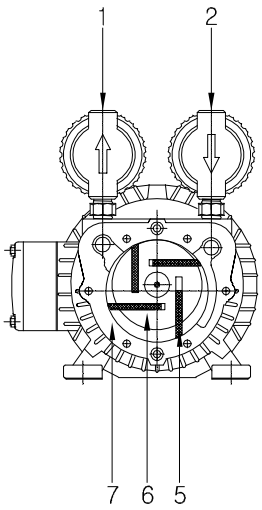


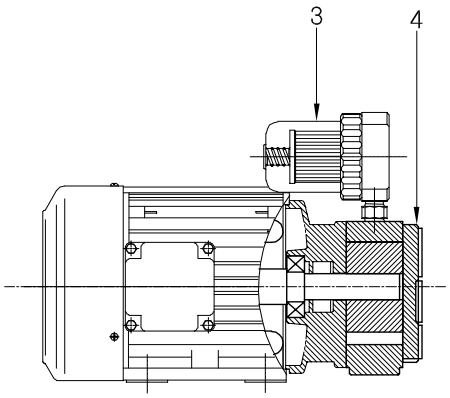
Part no	Parts
A	Cooling air entry
B	Cooling air exit
C	Exhaust port
D	Inlet port
E	Inlet, exhaust filter
F	Pump base



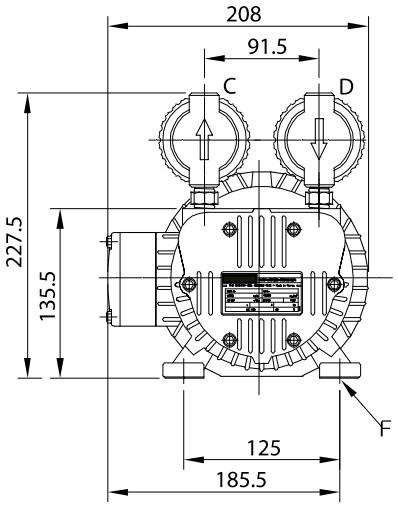
Structure-SML280

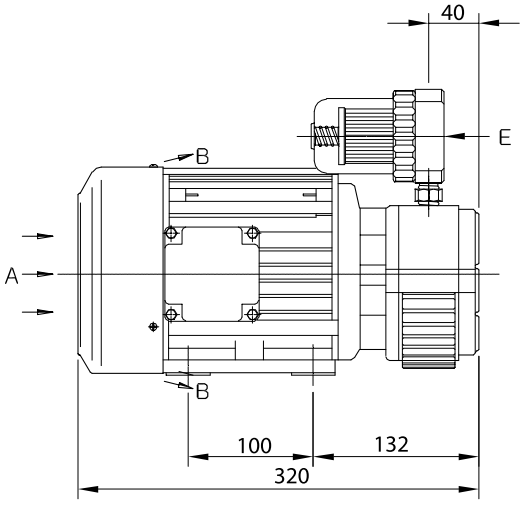
Part no	Parts
1	Exhaust port
2	Inlet port
3	Inlet, exhaust filter
4	Cylinder cover
5	Vane
6	Rotor
7	Cylinder

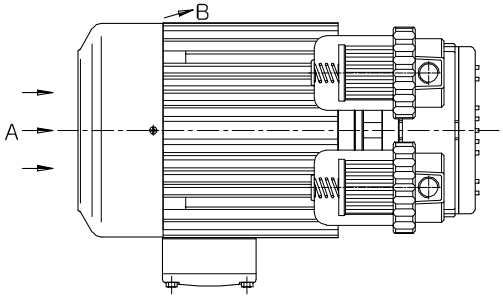




Dimensions-SML280







Part no	Parts
A	Cooling air entry
B	Cooling air exit
C	Exhaust port
D	Inlet port
E	Inlet, exhaust filter
F	Pump base