

Scroll Vacuum Pump



Scroll Vacuum Pump LSVP-A10

Scroll Vacuum Pump LSVP-A10 is reliable, durable, oil-free, high performance vacuum pump, combined with lower power consumption and lower ultimate pressures. Offers ambient operation temperature ranges from 41 to 104°F and maximum inlet and exhaust pressure of 0.1 / 0.13 MPa. Designed with air cooling system, air flush and innovative scroll design that reduces vibration and noise. It is suitable to use in molecular pump backing, accelerators and synchrotrons, capacitor exhaust, surface analysis instruments, E-beam and laser melting, spectroscopy and scanning electron, leak detection, space environment animation, glove box and coating PVD, CV and PLD.

Scroll Vacuum Pump LSVP-A11

Scroll Vacuum Pump LSVP-A11 is a portable unit, offers ambient operation temperature ranges from 41 to 104°F and maximum inlet and exhaust pressure of 0.1 / 0.13 MPa. Designed with air cooling system, air flush and innovative scroll design that reduces vibration and noise. It is reliable, durable, oil-free, high performance vacuum pump, combined with lower power consumption and lower ultimate pressures. It is suitable to use in molecular pump backing, accelerators and synchrotrons, capacitor exhaust, surface analysis instruments, E-beam and laser melting, spectroscopy and scanning electron, leak detection, space environment animation, glove box and coating PVD, CV and PLD.

Scroll Vacuum Pump LSVP-A12

Scroll Vacuum Pump LSVP-A12 is designed with air cooling system, air flush and innovative scroll design that reduces vibration and noise. It is reliable, durable, oil-free, high performance vacuum pump, combined with lower power consumption and lower ultimate pressures. Offers ambient operation temperature ranges from 41 to 104°F and maximum inlet and exhaust pressure of 0.1 / 0.13 MPa. It is suitable to use in molecular pump backing, accelerators and synchrotrons, capacitor exhaust, surface analysis instruments, E-beam and laser melting, spectroscopy and scanning electron, leak detection, space environment animation, glove box and coating PVD, CV and PLD.

Scroll Vacuum Pump LSVP-A13

Scroll Vacuum Pump LSVP-A13 is suitable to use in molecular pump backing, accelerators and synchrotrons, capacitor exhaust, surface analysis instruments, E-beam and laser melting, spectroscopy and scanning electron, leak detection, space environment animation, glove box and coating PVD, CV and PLD. It is a portable unit, offers ambient operation temperature ranges from 41 to 104°F and maximum inlet and exhaust pressure of 0.1 / 0.13 MPa. Designed with air cooling system, air flush and innovative scroll design that reduces vibration and noise. It is reliable, durable, oil-free, high performance vacuum pump, combined with lower power consumption and lower ultimate pressures.

Features

- High efficiency, low vibration and low noise
- No oil mist exhaust, and no oil back diffusion
- Integrated with motor 1 and motor 3 phase (Model A10, A11 and A12)
- Integrated with single motor 3 phase (Model A13)
- Suitable to use for cleaning processes
- Constantly operated between vacuum and atmospheric
- Easy to clean, operate and less maintenance
- Suitable for various type of power supply around the world

Application

Scroll Vacuum Pump is widely used in hydrogen fuel cell process, oil vapor recovering, LED, LCD and Laser tube, load lock and transfer chambers, freeze drying and gel drying, special gas recovery and recirculation, vacuum oven, lithium ion battery process, distillation, purification and filtration and Cryo pump regeneration.

Specification

Model. No	LSVP-A10	LSVP-A11
Ambient Operation Temperature	41 to 104°F	41 to 104°F
Maximum Inlet and Exhaust Pressure	0.1 / 0.13 MPa	0.1 / 0.13 MPa
Leakage	1×10^{-7} mbar·l/s	1×10^{-7} mbar·l/s
Cooling Type	Air cooled	Air cooled
Noise Level	≤ 52 dB	≤ 57 dB
Others	With air flush	With air flush

Pumping Speed		
50 Hz	1.0 L/s	2.0 L/s
	60.0 L/min	120.0 L/min
	3.6 m ³ /h	7.2 m ³ /h
	2.2 cfm	4.3 cfm
60 Hz	1.2 L/s	2.4 L/s
	72 L/min	144 L/min
	4.3 m ³ /h	8.6 m ³ /h
	2.5 cfm	5.1 cfm
Ultimate Pressure	$\leq 8.0 \times 10^{-2}$ mbar	$\leq 6.0 \times 10^{-2}$ mbar
	$\leq 6.0 \times 10^{-2}$ Torr	$\leq 4.0 \times 10^{-2}$ Torr
	≤ 60 micron	≤ 40 micron
	$\leq 1.2 \times 10^{-3}$ psi	$\leq 9.0 \times 10^{-4}$ psi
Motor 1 phase		
Power	0.25 kW	0.25 kW
Voltage	50 to 60 Hz/110 to 115 or 200 V to 230 V	50 to 60 Hz/110 to 115 or 200 V to 230 V
Speed	50 Hz /1425 rpm; 60 Hz /1725 rpm	50 Hz /1425 rpm; 60 Hz /1725 rpm
Connect	North America, Europe, UK, Ireland, India	North America, Europe, UK, Ireland, India

Motor 3 phase		
Power	0.37 kW	0.37 kW
Voltage	50 Hz/200 V to 230 V or 380 to 415; 60 Hz/200 V to 230 V or 460 V	50 Hz/200 V to 230 V or 380 to 415; 60 Hz/200 V to 230 V or 460 V
Speed	50 Hz /1425 rpm; 60 Hz /1725 rpm	50 Hz /1425 rpm; 60 Hz /1725 rpm
Inlet and Exhaust Flange	KF25/16	KF25/16
Dimensions (W×D×H)		
1 Phase	405×225×260 mm	465×265×305 mm
3 Phase	445×265×305 mm	465×265×305 mm
Net Weight		
1 Phase	15 kg	18 kg
3 Phase	16 kg	20 kg

Model. No	LSVP-A12	LSVP-A13
Ambient Operation Temperature	41 to 104°F	41 to 104°F
Maximum Inlet and Exhaust Pressure	0.1 / 0.13 MPa	0.1 / 0.13 MPa
Leakage	1×10^{-7} mbar·l/s	1×10^{-7} mbar·l/s
Cooling Type	Air cooled	Air cooled
Noise Level	≤ 60 dB	≤ 61 dB
Others	With air flush	With air flush
Pumping Speed		
50 Hz	4.3 L/s	8.7 L/s
	258.0 L/min	522.0 L/min
	15.5 m ³ /h	31.3 m ³ /h
	9.3 cfm	18.7 cfm
60 Hz	5.1 L/s	10.4 L/s
	310 L/min	626 L/min
	18.3 m ³ /h	37.4 m ³ /h
	10.9 cfm	22.3 cfm
Ultimate Pressure	≤ 2.6×10^{-2} mbar	≤ 1.0×10^{-2} mbar
	≤ 1.9×10^{-2} Torr	≤ 7.5×10^{-2} Torr
	≤ 19 micron	≤ 7.5 micron
	≤ 3.8×10^{-4} psi	≤ 1.4×10^{-4} psi

Motor 1 phase		
Power	0.55 kW	Nil
Voltage	50 to 60 Hz/110 to 115 or 200 V to 230 V	Nil
Speed	50 Hz /1425 rpm; 60 Hz /1725 rpm	Nil
Connect	North America, Europe, UK, Ireland, India	Nil
Motor 3 phase		
Power	0.55 kW	0.75 kW
Voltage	50 Hz/200 V to 230 V or 380 to 415; 60 Hz/200 V to 230 V or 460 V	50 Hz/200 V to 230 V or 380 to 415; 60 Hz/200 V to 230 V or 460 V
Speed	50 Hz /1425 rpm; 60 Hz /1725 rpm	50 Hz /1425 rpm; 60 Hz /1725 rpm
Inlet and Exhaust Flange	KF25/16	KF40/16×2
Dimensions (W×D×H)		
1 Phase	495×305×355 mm	Nil
3 Phase	495×305×355 mm	630×440×410 mm
Net Weight		
1 Phase	27 kg	Nil
3 Phase	31 kg	52 kg