Products

Oil-free Scroll Vacuum Pumps SCROLLVAC SC 5 D, <mark>SC 15 D</mark>, SC 30 D



Scroll vacuum pump SCROLLVAC SC 30 D

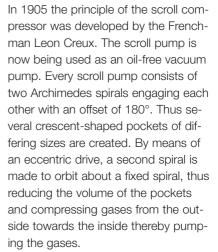
Advantage for the User

- Absolutely oil-free
- High effective pumping speed
- Low ultimate pressure
- Low noise level
- Low vibration operation
- Atmospheric inlet pressure allowable
- Low weight
- Air cooling
- Low power consumption
- Integrated operating hours counter

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Typical Applications

- Electron beam welding
- Lasers
- Leak detection systems
- Accelerators / synchrontrons
- Surface analysis instruments
- Scanning electron microscopes
- Load lock
- Spectroscopy
- Lamp manufacturing
- As a backing pump for turbomolecular pump systems



Important to the quality of a scroll pump is that precise manufacturing tolerances are maintained and that suitable materials are selected.

Maintenance Intervals

In order to maintain the performance of the pump, a standard maintenance is required after a certain number of operating hours.

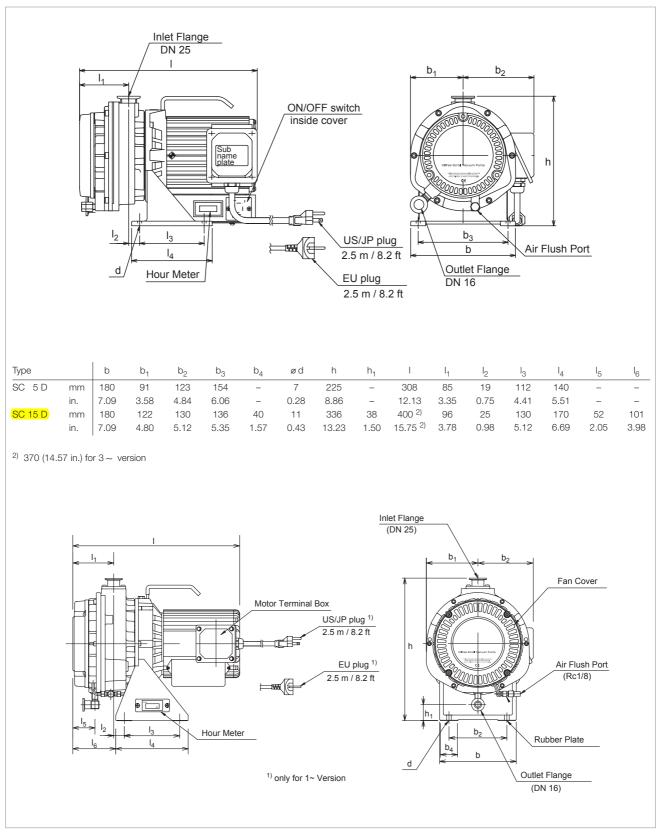
For this we are offering complete maintenance kits

- Small maintenance kit (Minor Kit) after 8,000 h or at latest after an operating time of 12 months
- Large maintenance kit (Major Kit) after 16,000 hours or at latest after an operating time of 24 months

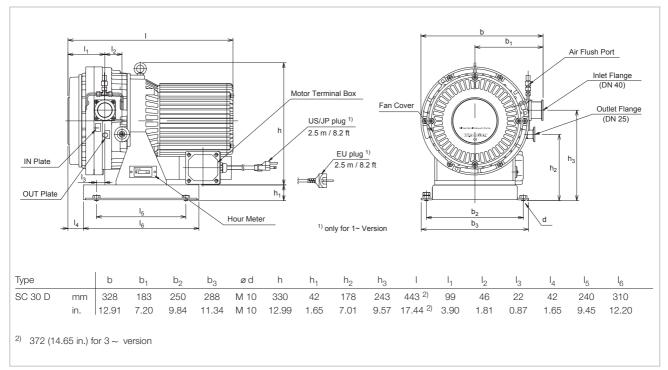
Warranty

Upon signing a warranty contract, we will grant a two-year warranty for faulty material when complying with the required maintenance intervals.

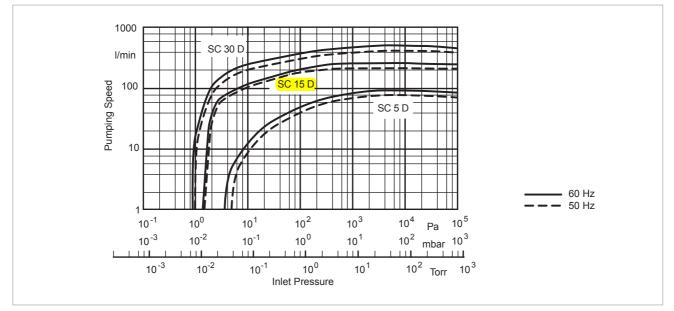
Excluded are wearing parts as well as well wear due to the process.

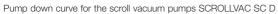


Dimensional drawing for the scroll vacuum pump SCROLLVAC SC 5 D (above) and SC 15 D (below)



Dimensional drawing for the scroll vacuum pump SCROLLVAC SC 30 D





Technical Data		SCROLLVAC			
		SC 5 D	SC 15 D	SC 30 D	
	n (cfm) n (cfm)	5.4 (3.2) 6.4 (3.8)	15.0 (8.8) <mark>(18.0 (10.6)</mark>	30.0 (17.7) 36.0 (21.2)	
	n (cfm) n (cfm)	4.8 (2.8) 6.0 (3.5)	13.0 (7.7) 15.5 (9.1)	26.0 (13.3) 31.0 (18.3)	
Attainable ultimate pressure mba	r (Torr)	≤ 0.05 (≤ 0.038)	≤ 0.016 (≤ 0.012)	≤ 0.01 (≤ 0.008)	
Leak rate m	bar I/s	1 x 10 ⁻⁶	1 x 10 ⁻⁶	1 x 10 ⁻⁶	
Maximum inlet pressure		Atmosphere	Atmosphere	Atmosphere	
Permissible ambient temperature	°C (°F)	5 to 40 (41 to 104)	5 to 40 (41 to 104)	5 to 40 (41 to 104)	
Connections Inlet Exhaust	DN DN	25 16	25 16	40 25	
Cooling		Air	Air	Air	
Water vapor capacity with purge, min.	g/h I/min	0.2 9	1.04 10	1.04 10	
Protection class	IP	20	20	20	
Motor power	W (hp)	150 (0.20)	400 (0.54)	600 (0.82)	
	(rpm) (rpm)	1440 (1440) 1740 (1740)	1450 (1450) 1730 (1730)	1450 (1450) 1730 (1730)	
Motor voltage 1	ph. ²⁾ 3 ph.	100 V / 50 Hz 100 - 115 V / 60 Hz 200 - 230 V / 50/60 Hz	100 V / 50 Hz 100 - 115 V / 60 Hz 200 - 230 V / 50/60 Hz 200 V, 380 - 415 V / 50 Hz 200 - 230 V, 460 V / 60 Hz	100 V / 50 Hz 100 - 115 V / 60 Hz 200 - 230 V / 50/60 Hz 200 V, 380 - 415 V / 50 Hz 200 - 230 V, 460 V / 60 Hz	
Noise level at 1 m, iree field measurement	dB(A)	≤ 52	≤ 58	≤ 62	
Dimensions (W x H x D)	mm (in.)	308 x 214 x 225 (12.13 x 8.43 x 8.86)	400 x 252 x 336 (15.75 x 9.92 x 13.23)	443 x 328 x 372 (17.44 x 12.91 x 14.65)	
	g (lbs) g (lbs)	14 (30.9) -	25 (55.2) 23 (50.8)	44 (97.1) 38 (83.9)	
Ordering Information			SCROLLVAC		
		SC 5 D	SC 15 D	SC 30 D	
Oil-free scroll vacuum pump Single-phase motor, with cable and Europe (Schuko plug, 230 V) US / Japan (NEMA plug, 115 V)	l plug	Part No. 133 000 Part No. 133 100	Part No. 133 001 Part No. 133 101	Part No. 133 002 Part No. 133 102	

US / Japan (NEMA plug, 115 V) Three-phase motor, without cable		Part No. 133 100 –	Part No. 133 101 Part No. 133 003	Part No. 133 102 Part No. 133 004
Maintenance kits				
Small maintenance kit				
(after 8,000 h)	Minor Kit	Part No. EK870000496	Part No. EK870000497	Part No. EK870000498
Large maintenance kit				
(after 16,000 h)	Major Kit	Part No. EK870000499	Part No. EK870000500	Part No. EK870000501
Tool kit SC 5/15/30 D		Part No. EK870000502	Part No. EK870000503	Part No. EK870000503

¹⁾ In accordance with 28 400 and subsequent numbers

 $^{2)}\,$ The Part No. for single-phase pumps will determine the voltage range at delivery