

SCROLLVAC plus Defining Vacuum







Defining Vacuum

The new SCROLLVAC plus vacuum pump is the latest addition to our range of dry pumps.

Providing a flexible, robust and simple vacuum pump solution, across a wide spectrum of applications, SCROLLVAC plus demonstrates what is possible from a dry scroll pump.



Able to address the widest range of applications ...

Flexible.

We understand flexibility and choice is essential when selecting the right dry vacuum solution for your application. With single-phase and three-phase variants and versions for specialized applications, you can be sure to find a member of the SCROLLVAC plus family perfect for you.

- Pump versions in the range covering pumping speeds of 7, 10, 15 and 18 m³/h
- Single-phase variant feature universal voltage drive for constant performance world-wide
- Three-phase electronic-free variants for radiation and high magnetic field applications
- Integrated gas ballast permits pumping of condensable vapors
- Compact and lightweight design permits simple integration into your new or existing vacuum system

Ready to withstand and overcome demanding conditions ...

Robust.

SCROLLVAC plus was built to maintain performance and reliability in the most demanding applications. With the bearings completely separated from the pumping mechanism, you are assured of zero contamination within the vacuum envelope along with exceptional vapor handling.

- Truly dry vacuum pump with pump bearings isolated from the vacuum space eliminating any risk of contamination
- No shaft seal to wear and hence longer service intervals and improved leak tightness
- The ideal dry pump solution for backing turbomolecular and cryo pumps
- Optional C variant may be used for some applications involving the pumping of aggressive media and chemicals

SCROLLVAC plus, the new dry scroll



Easy to understand and uncomplicated ...

Simple.

Not only the service and tip seal change is easy and quick, the long service intervals mean that SCROLLVAC plus can become the "fit and forget" solution.

- Latest in tip seal technology giving significantly longer periods between tip seal changes, typically 2.5 years, to maximize up-time and productivity
- Easy maintenance with a typical tip-seal change in under 10 minutes by yourself
- Running time hours-counter included as standard

Economize by switching to the latest technology ...

Environment.

Think the environment is too big for you to make an impact? We are always looking at how we can reduce the impact on the environment, and selecting the latest SCROLLVAC plus can make an immediate improvement on your local workspace.

- No contaminated waste oil to dispose of, eliminating the need for costly disposal and used oil recycling
- Low noise at < 55 dB(A) for a quiet work/laboratory environment
- Reduced power consumption compared to other pumping mechanisms

pump from Leybold.



Reliable products and application expertise ... the Leybold guarantee at any time!

Universal.

Designed to perform across a wide spectrum of applications, from general laboratory, light industrial and research through to the more aggressive of chemical applications, SCROLLVAC plus makes selecting the right dry vacuum pump easy.

Physical Research

- Dry-compression pump zero risk of system contamination
- Excellent ultimate pressure for turbomolecular pumps
- High water vapor capacity for cryo-pump regeneration
- Low noise for a quiet working environment
- Electronic-free 3-phase pump for areas with radiation
- Long maintenance intervals and simple end-user serviceable

Industry

- Robust pump with high vapor capacity for industrial applications including vacuum ovens, degassing, sterilization. Also suitable for cyclic duties
- No exposed bearings and no shaft seals, therefore reliable operation in numerous industrial applications
- Wide range of pumping performance options for all requirements

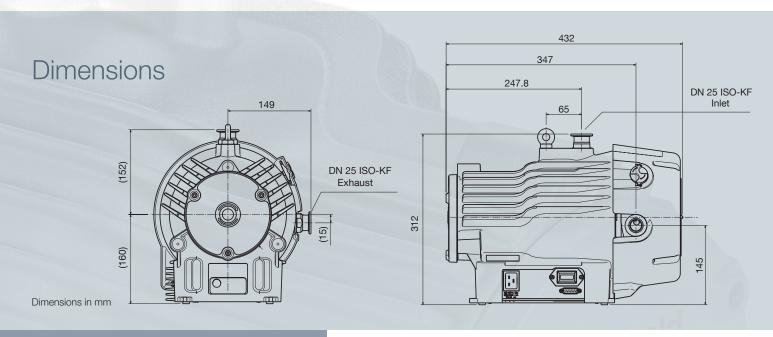
Wet Chemistry

- Quiet and reliable operation for use in biological and wet chemistry laboratories
- High water vapor capacity for applications such as gel drying, centrifugal concentrators, rotary evaporators and solvent recovery
- Hermetic separation of pumping chamber and rotating parts, therefore no reaction of pumped gases with lubricant
- C versions available for more aggressive gases

Gas Recovery

- High leak tightness assures no gas contamination or loss in gas recovery applications
- Excellent Helium pumping performance





C versions are ready to withstand harsh conditions.

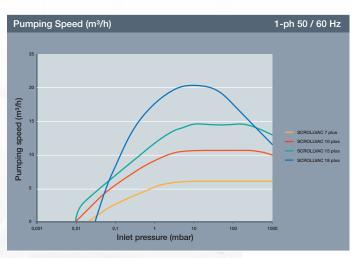
SCROLLVAC C plus

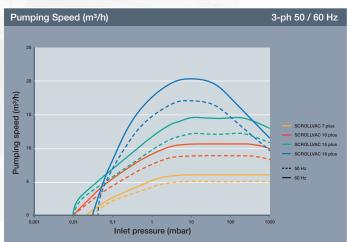
SCROLLVAC C plus variant has been designed for more aggressive applications, where potential deterioration of the internal parts due to corrosion needs to be considered. In combination with suitable purge gas flows, this means that SCROLLVAC C plus models can be configured to handle corrosive solvents and chemicals:

- Chemical resistant exhaust check valve and gas ballast valve
- Stainless steel inlet and exhaust flanges
- Conversion kits are available allowing customers to upgrade their standard variants

Please contact us for advice.

Performance





Technical DataOrdering information

	7 plus	10 plus	15 plus	18 plus	
m ³ /h	6.1	10.6	14.5	20.0	
allast mbar	0.02	0.009	0.009	0.03	
st g/h	100	140	280	220	
motor V	100-127, 200-240 (± 10%), 50/60 Hz				
motor V	200/380-415, 200-230/460, 50/60 Hz				
ssure W	260	280	300	260	
motor	IEC EN60320 C19				
dB(A)	< 55				
	DN 25 ISO-KF / DN 25 ISO-KF				
kg	26	25	26	25	
mm	432 x 312 x 298				
	allast mbar st g/h motor V motor V ssure W motor dB(A)	m³/h 6.1 allast mbar 0.02 st g/h 100 motor V motor V ssure W 260 motor dB(A)	m³/h 6.1 10.6 allast mbar 0.02 0.009 st g/h 100 140 motor V 100-127, 200-240 motor V 200/380-415, 200- ssure W 260 280 motor dB(A)	m³/h 6.1 10.6 14.5 allast mbar 0.02 0.009 0.009 st g/h 100 140 280 motor V 100-127, 200-240 (± 10%), 50/60 Hz motor V 200/380-415, 200-230/460, 50/60 Hz ssure W 260 280 300 motor IEC EN60320 C19 dB(A) <55 DN 25 ISO-KF / DN 25 ISO-KF	

Ordering information*

SCROLLVAC	7 plus	10 plus	15 plus	18 plus	
Scroll vacuum pump, with single phase motor					
Standard version, with gas ballast	141007V10	141010V10	141015V10	141018 V 10	
C version for aggressive applications, with gas ballast	-	-	141015V12	141018V12	
Scroll vacuum pump, with 3-phase motor					
Standard version, with gas ballast	-	141010V30	141015V30	141018V30	
C version for aggressive applications, with gas ballast	-	141010V32	141015V32	141018V32	
Mains cables (mandantory, required for operation)					
EU - CEE 7/7 (Schuko) - IEC-60320 C19, 2.0 m length		161 810 EU			
UK - BS 1363 - IEC-60320 C19, 2.0 m length	161 810 UK				
USA (115 V) - NEMA 5-15P - IEC-60320 C19, 2 m length		161 81	10 US		
USA (230 V) - NEMA 6-15P - IEC-60320 C19, 2.5 m length		141 103 US			
Accessories					
Gas ballast adapter blank		141100A01			
Purge gas adapter for external gas line					
with fine restriction (quick connect 1/4")		14110	0A03		
no restriction (quick connect 1/4")		14110	0A02		
Chemical resistance conversion kit (C-conversion KIT)	141101A01	141101A01	141101A01	141101A02	
Vibration isolators		14110	2A01		
SC plus exhaust silencer		14110	2A02		

^{*} Selection from the product range. Further model versions or accessories on request. Visit our webshop www.leyboldproducts.com

Please contact us for more technical details on the entire SCROLLVAC plus series.

ATEX certified

All SCROLLVAC plus dry pumps are ATEX certified to meet the requirements of group II category 3 equipment: ATEX II 3 G c IIB T4 internal



Leybold GmbH Bonner Str. 498 \cdot D-50968 Köln

T +49 (0) 221-347-0 F +49 (0) 221-347-1250 info@leybold.com















