

Vacuum Generation - Oil Diffusion Pumps

Oil Diffusion Pumps, PDM and PDP

For the high vacuum range using the oil diffusion technology. Oil diffusion pumps must be combined with a backing pump. The fore-vacuum must not exceed 0.1 mbar. ILMVAC also offers complete oil diffusion pump systems.

Ranges of application:

The oil diffusion pumps are ideal for numerous applications in research and development. Low back streaming ensures clean pumping.

Scope of delivery:

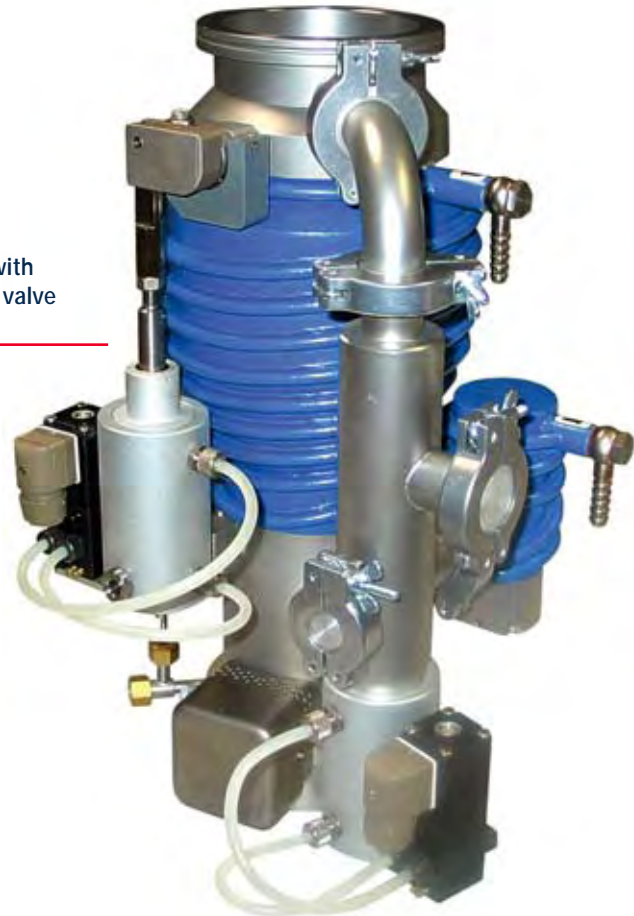
All oil diffusion pumps are complete pump systems including a high vacuum valve, a baffle, a backing valve and a roughing valve.

A mains connection cable is not available. The oil diffusion pumps must be installed by an electrician.

type PDM with manual
valve operation

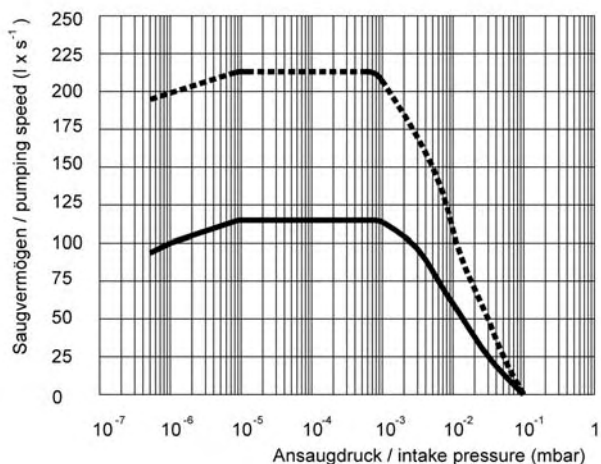


type PDP with
pneumatic valve
operation



Special characteristics:

- high pumping speed, the ultimate pressure is reached very quickly due to the optimized design
- min. ultimate pressure (with silicone oil XT 704)
5 x 10⁻⁷ mbar
- oil vapor back flow at 10⁻⁴ mbar
2 x 10⁻⁴ mg x cm² x min⁻¹
- low cooling water consumption, cooling water connection with hose nozzles 2x DN 10
- type PDM with manual valve operation
- type PDP with pneumatic valve operation



Technical Features

Type	min. Ult. pressure with XT 704 mbar	Pumping speed at 10 ⁻³ to 10 ⁻⁵ mbar l/s	Dim. (W/D/H) mm	Weight kg	Connection flanges suction/pressure side	Oil charge ml	Heating power W	Cooling water consumption l/min
PDM 63	5x10 ⁻⁷	110	220/115/370	8.0	DN 63 ISO-K / DN 16 KF	55	520	0.7
PDM 100	5x10 ⁻⁷	210	300/260/450	11.8	DN 100 ISO-K / DN 25 KF	100	630	1.0
PDP 63	5x10 ⁻⁷	110	220/115/370	9.0	DN 63 ISO-K / DN 16 KF	55	520	0.7
PDP 100	5x10 ⁻⁷	210	300/260/450	14.5	DN 100 ISO-K / DN 25 KF	100	630	1.0

Ordering Information

Type	Mains supply V / frequency modulation	PU pcs.	Order-No.
PDM 63	230 / 50/60	1	400010
PDM 63	115 / 50/60	1	400010-03
PDM 100	230 / 50/60	1	400011
PDM 100	115 / 50/60	1	400011-03
PDP 63	230 / 50	1	400012
PDP 100	230 / 50	1	400013