



## VARODRY OEM

### Dry screw vacuum pumps

Leybold presents a new member in the VARODRY family: the heavy duty, oxygen-handling version of the successful VD OEM version. This innovative variant is specifically made for these applications, where harsh processes meet the requirement of compactness & dry vacuum.



#### Performance driven

High pumping speed up to 200 m<sup>3</sup>/h and low ultimate pressure down to the 10<sup>-3</sup> mbar range.



#### No oil emissions

No oil mist at exhaust and no oil migration to the chamber.



#### Robust design

Special coated rotors for advanced protection with a robust & stable housing.



#### Low TCO

Energy savings due to a high energy efficient motor and low maintenance requirements.



#### Simple Plug & Go

Simple motor connection.  
No water cooling > no further connections needed.



Technical Data

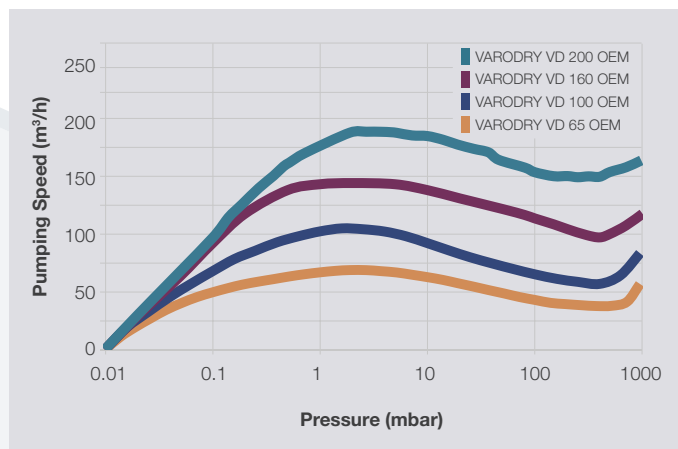
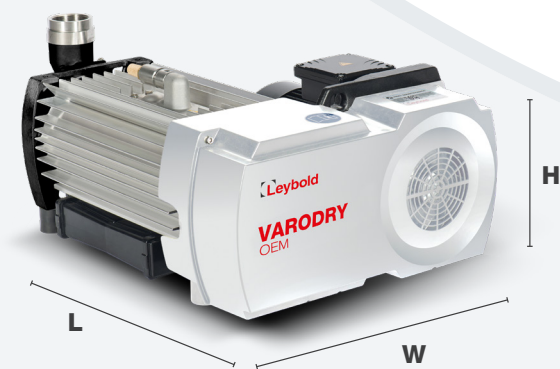
| VARODRY   |       | VD 65 OEM                  | VD 100 OEM      | VD 160 OEM      | VD 200 OEM |
|---|-------|----------------------------|-----------------|-----------------|------------|
| Max. pumping speed  | m³/h  | 65                         | 105             | 150             | 200        |
| Ultimate pressure without gas ballast                                   | mbar  | < 0.01                     |                 |                 |            |
| Ultimate pressure with gas ballast                                      | mbar  | < 0.1                      |                 |                 |            |
| Max. permissible inlet pressure   | mbar  | 1050                       |                 |                 |            |
| Max. permissible outlet pressure (rel. to ambient)                      | mbar  | 200                        |                 |                 |            |
| Water vapor tolerance with gas ballast                                  | mbar  | 60                         |                 |                 |            |
| Water vapor capacity with gas ballast                                   | kg/h  | 1,9                        | 2,9             | 5.2             | 6.9        |
| Noise level (with built-in silencer) at ultimate pressure (50 / 60 Hz)* | dB(A) | 67 / 70                    |                 | 70 / 73         |            |
| Permissible ambient temperature   | °C    | 0 to +40                   |                 |                 |            |
| Rated motor power   | kW    | 1.5                        | 2.2             | 3.0             | 4.0        |
| Protection class  |       | IP55                       |                 |                 |            |
| In- & outlet connection   |       | G 2" (In) - G 1 1/2" (Out) |                 |                 |            |
| Dimensions [L x W x H]:   | kg    | 630 x 488 x 315            | 722 x 488 x 315 | 920 x 488 x 315 |            |
| Weight, approx.   | kg    | 85                         | 95              | 105             | 115        |

\*According to DIN EN ISO 2151

| Ordering Information           | VD 65 OEM | VD 100 OEM | VD 160 OEM** | VD 200 OEM** |
|--------------------------------|-----------|------------|--------------|--------------|
| 50 Hz, 200/400 V +- 10 %, 3 ph | 111065V12 | 111100V12  | 111160V12    | 111200V12    |
| 60 Hz, 230/460 V +- 10 %, 3 ph | 111065V13 | 111100V13  | 111160V13    | 111200V13    |
| 60 Hz, 200/380 V +- 10 %, 3 ph | 111065V22 | 111100V22  | 111160V22    | 111200V22    |

\*\* Soft starter mandatory

| Accessories  |  |  |           |  |
|--|--|--|-----------|--|
| Inlet non return valve G 2" (for inlet pressures > 1 mbar) |  |  | 111005A15 |  |
| Inlet Adapter  |  |  |           |  |
| DN 40 ISO-KF, 20 mm  |  |  | 111005A20 |  |
| G 1 1/4", 10 mm  |  |  | 111005A21 |  |
| NPT 1 1/4 -11.5, 10 mm                                     |  |  | 111005A22 |  |
| NPT 2-11.5, 35 mm  |  |  | 111005A23 |  |
| DN 63 ISO-K, 27 mm   |  |  | 111005A24 |  |
| Exhaust Adapters   |  |  |           |  |
| DN 40 ISO-KF, 20 mm  |  |  | 111005A30 |  |
| NPT 1 1/2-11.5, 30 mm                                      |  |  | 111005A31 |  |
| Flushing Kit   |  |  | 111005A01 |  |
| Purge upgrade kit  |  |  | 111005A01 |  |
| Soft Starter VD/ND, ≥ 11A, 110-230 V AC                    |  |  | 111005A65 |  |
| Soft Starter VD/ND, ≥ 11A, 24 V DC                         |  |  | 111005A66 |  |
| Soft Starter VD/ND, ≥ 19A, 110-230 V AC                    |  |  | 111005A67 |  |
| Soft Starter VD/ND, ≥ 19A, 24 V DC                         |  |  | 111005A68 |  |



Pioneering products. Passionately applied.