

EVISA E300.R



The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are very silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum : $6 \cdot 10^{-2}$ mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

		50 Hz	60 Hz
E300.R HV	Nominal flow rate $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	300 - 176.5	360 - 211.8
	PNEUROP pumping speed ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	280 - 165	336 - 198
	Pumping speed at 1 mbar inlet pressure ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	171 - 101	205 - 121
	Without gas ballast End vacuum mbar - <i>torr</i>	$\leq 6 \times 10^{-2}$ - 4.5×10^{-2}	$\leq 6 \times 10^{-2}$ - 4.5×10^{-2}
	Fully opened gas ballast End vacuum mbar - <i>torr</i>	≤ 2 - 1.5	≤ 2 - 1.5
	Water vapor permitted maximum pressure mbar - <i>torr</i>	18.6 - 13.9	20 - 15
	Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	2.3	3
	Without gas ballast End vacuum mbar - <i>torr</i>	≤ 3 - 2.3	≤ 3 - 2.3
	Fully opened gas ballast End vacuum mbar - <i>torr</i>	≤ 5 - 3.8	≤ 5 - 3.8
	Water vapor permitted maximum pressure mbar - <i>torr</i>	13 - 9.7	14 - 10.5
E300.R	Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	1.6	2
	100 % synthetic oil	MV99S	MV99S
	Oil capacity l - <i>qt</i>	5.0 - 5.3	5.0 - 5.3
Noise level dB(A)		72	76

⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

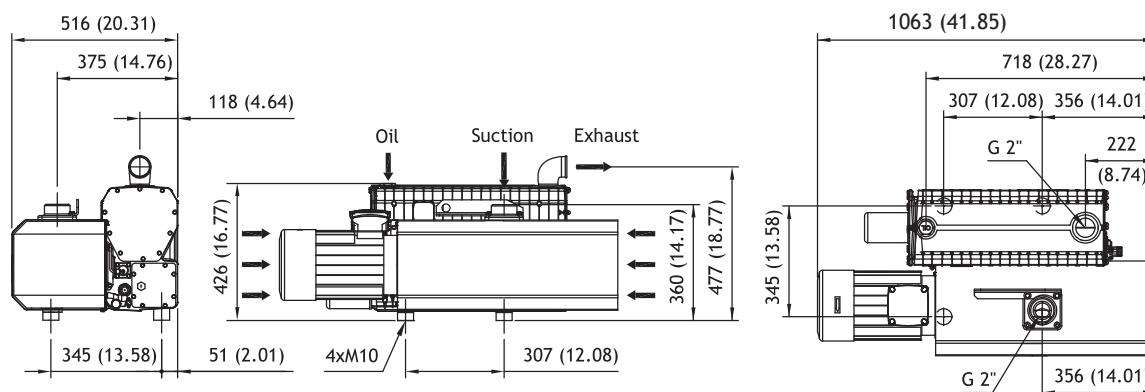
Versions

GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
Electrical motor	Number of phases	3	3	3	3	3
	Voltage V	230 / 400	220 / 380	190 / 380	208-230 / 460	220 / 380
	Period Hz	50	60	50	60	50 / 60
	Motor power	5.5 kW	6.6 kW	5.5 kW	10 HP	5.5 / 6.6 kW
	Rotation speed min^{-1}	1500	1800	1500	1800	1500 / 1800
Inlet connection ⁽²⁾		2" BSP	2" BSP	2" NPT	2" NPT	2" BSP
Outlet connection ⁽²⁾		2" BSP	2" BSP	2" NPT	2" NPT	2" BSP
Weight with oil kg - <i>lb</i>		172 - 380	182 - 402	198 - 437	198 - 437	179 - 395

⁽²⁾ DN 50 ISO-KF connector can be supplied, see accessories

Lubricated rotary vane vacuum pumps

Dimensions mm (inch)



References

	E300.R HV		E300.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 230/400V-50Hz	823767 + 624229	823767	823831 + 624229	823831
SOUTH AMERICA / USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824061 + 624229	824061	Contact us	Contact us
ASIA / MIDDLE-EAST 3ph, 220/380V-60Hz	823836 + 624229	823836	823834 + 624229	823834
JAPAN version : contact us				

Special versions

	E300.R HV		E300.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
WET VAPOUR PUMPING (small propeller) 3ph, 230/400V-50Hz	824287 + 624229	824287	823838 + 624229	823838
OXYGEN with Fomblin oil 3ph, 230/400V-50Hz	823875 + 624229	823875	823874 + 624229	823874
STAINLESS STEEL TUBBING 3ph, 230/400V-50Hz	Contact us	Contact us	823846 + 624229	823846

ATEX version : contact us

Maintenance kits

3 000 hour usual maintenance with silicone o'ring for oil mist filter	724079
3 000 hour usual maintenance with viton o'ring for oil mist filter	724080
12 000 hour preventive maintenance	724053
Gasket set	624231
3 000 hour usual maintenance for OXYGEN version	724090
12 000 hour preventive maintenance for OXYGEN version	724088



3 000 hour usual maintenance

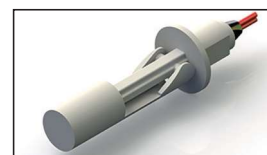


12 000 hour preventive maintenance

Specifications are subject to be changed without notice.

Accessories and Options

1 Oil Level Safety (OLS) with float		624245
Timer box for oil level safety (base mounting)		670810
NC bimetal temperature safety - opening at 120°C		624246
Oil Level Safety and PT100 temperature sensor		624247
PT100 temperature sensor		624248
2 2" BSP suction filter Type 201	Paper cartridge	715350
	Polyester cartridge	715351
	Carbon cartridge	715352
Vacuum gauge fitted on filter		617536
2" BSP paper/paper double filtration 201PA + 201PA		670615
2" BSP polyester/carbon double filtration 201PO + 201CH		670618
3 Liquid trap 3NG 280 m³.h⁻¹ 2" BSP	Brass head / polycarbonate cylinder / without float	720807
	Brass head / polycarbonate cylinder / with float	720808
	Brass head / Pyrex cylinder / without float	720809
	Brass head / Pyrex cylinder / with float	720810
	Pyrex bottle 250 ml under trap assembly	615441
	Pyrex bottle 500 ml under trap assembly	615442
	Pyrex bottle 1000 ml under trap assembly	615443
Bracket for wall fixing		619907
Adjusting valve fitted on T-square		713842
Electro-pneumatic automatic drain with control board		816002
Electrical automatic drain with control board		816003
Vacuum hose (0,6 m) FF 2" BSP		618149
Vacuum hose (1 m) FF 2" BSP		606099
Vacuum hose (1,5 m) FF 2" BSP		607592
Suction hose with non-retunr valve (1 m)		770154
Exhaust double elbow mounting		622788
Base frame assembly height 150 mm		670806
4 Elevated base frame (H=525 mm)	For 1 pump	617612
	For 2 pumps	619545
Direct starter (wall mounting)	Without regulation contact 3-ph 400V	770499
	Without regulation contact 3-ph 230V	770500
	With regulation contact LG7 3-ph 400V	710426
	With regulation contact LG7 3-ph 230V	710434
Control board with FLEXO solenoid valve 400V, 3-ph + N for warm up and degasing cycle		770815
Control board with FLEXO solenoid valve 400V, 3-ph + N for degasing cycle		770822
Aluminium adapter M2" / DN50 KF		117132
Aluminium clamping collar DN50 KF		361640
Centering ring stainless steel / VITON		361643
Stainless steel hose (0,5 m) DN50 KF		361648
Stainless steel hose (1 m) DN50 KF		361649



1 Oil Level Safety



2 suction filter type 201



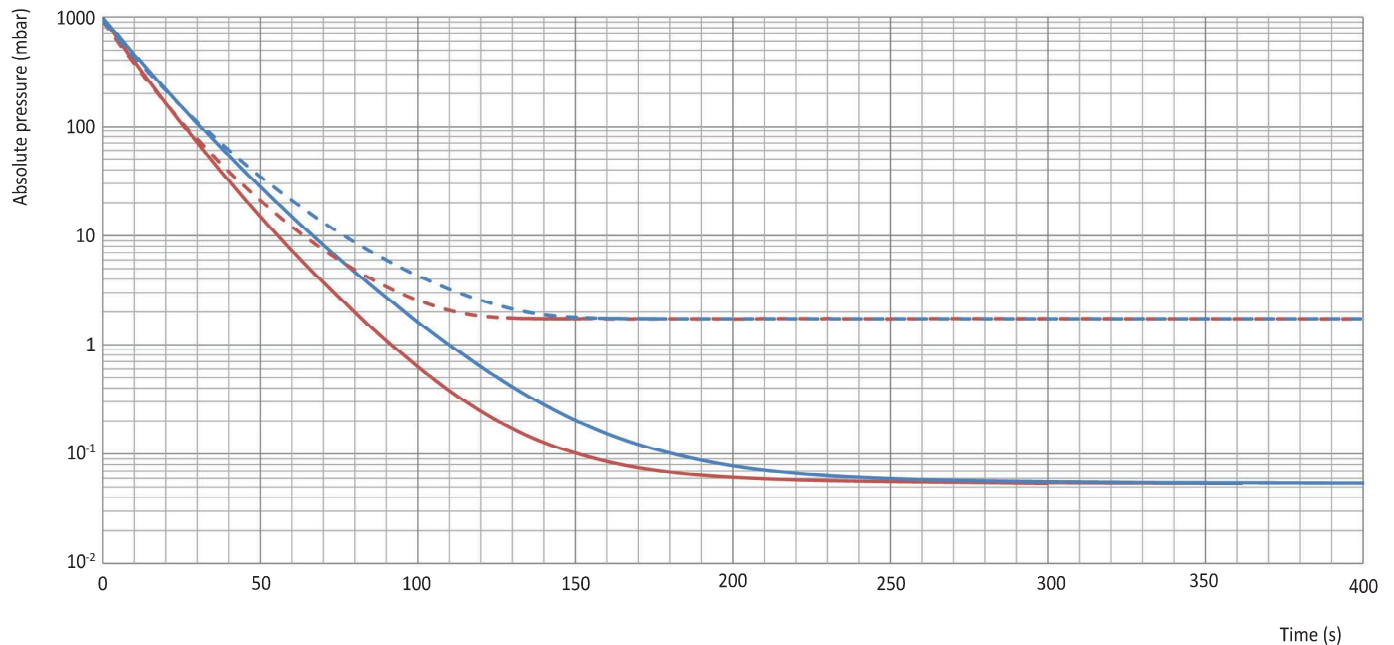
3 Liquid trap 3NG with mechanical stop and optional bottle



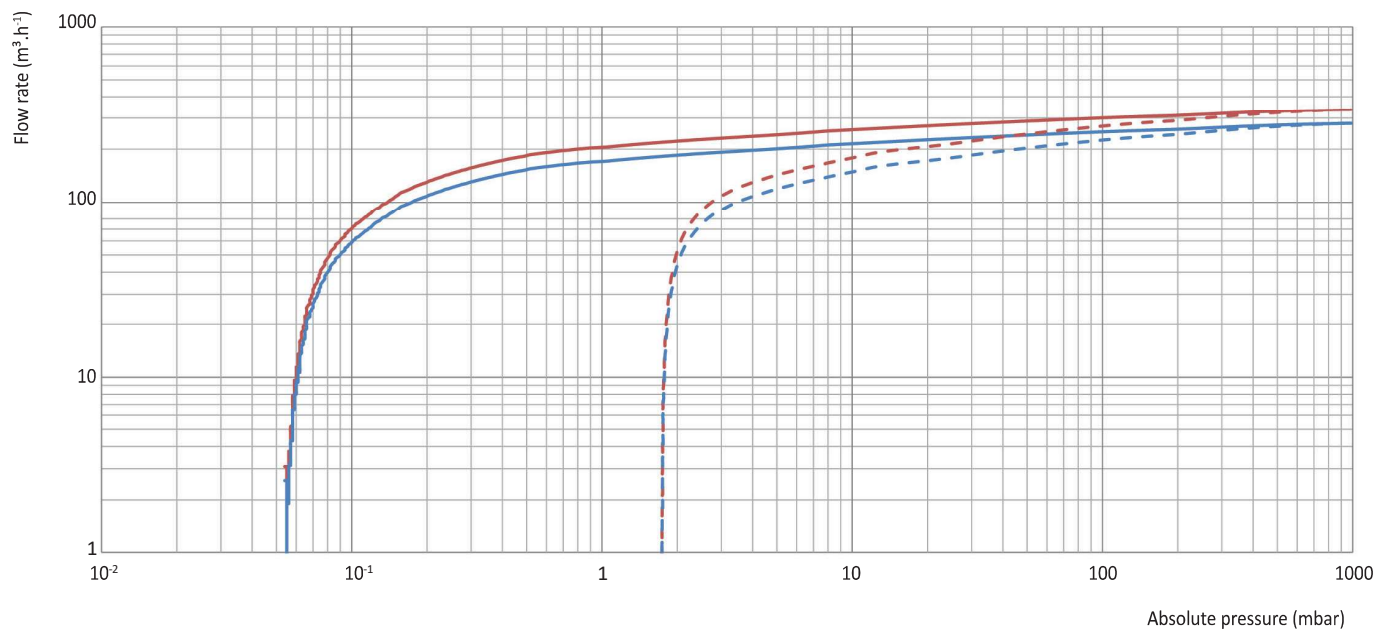
4 Elevated base frame for 2 pumps

Lubricated rotary vane vacuum pumps

Pumping speed on 1000 l vessel



Performance curves



— 60 Hz - without gas ballast
— 50 Hz - without gas ballast

- - 60 Hz - with opened gas ballast
- - 50 Hz - with opened gas ballast