

EVISA E350.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 : $1 \cdot 10^{-1}$ mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

		50 Hz	60 Hz ⁽²⁾
E350.R HV	Nominal flow rate $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	360 - 211.9	432 - 254.3
	PNEUROP pumping speed ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	341 - 200.7	409 - 240.7
	Pumping speed at 1 mbar inlet pressure ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	179 - 105.3	215 - 126.5
	Without gas ballast End vacuum mbar - <i>torr</i>	$\leq 1 \times 10^{-1}$ - 8×10^{-2}	$\leq 1 \times 10^{-1}$ - 8×10^{-2}
	Fully opened gas ballast End vacuum mbar - <i>torr</i>	≤ 1 - 0.75	≤ 1 - 0.75
	Water vapor permitted maximum pressure mbar - <i>torr</i>	12.5 - 9.9	13.5 - 10.1
E350.R	Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	2	2.6
	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>	8.7 - 6.5	9.4 - 7
	Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	1.4	1.8
100 % synthetic oil		MV99S	MV99S
Oil capacity l - <i>qt</i>		14 - 14.8	14 - 14.8
Noise level dB(A)		72	76

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

⁽²⁾ 460V - 60 Hz 3-ph only

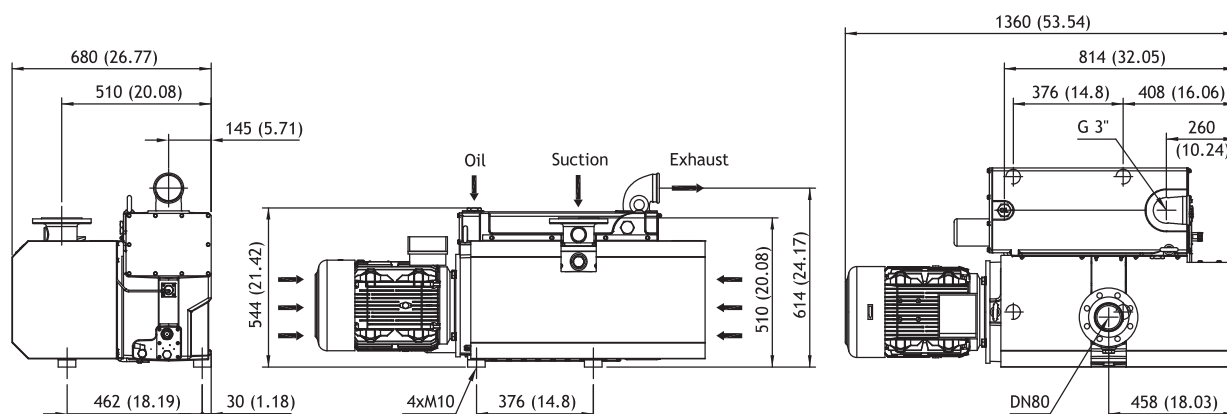
Versions

GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST
Electrical motor	Number of phases	3	3
	Voltage V	400 / 690	380
	Period Hz	50	60
	Motor power	7.5 kW	9 kW
	Rotation speed min^{-1}	1000	1200
Inlet connection ⁽²⁾		DN80 / 3" BSP	DN80 / 3" BSP
Outlet connection ⁽²⁾		3" BSP	3" BSP
Weight with oil kg - <i>lb</i>		363 - 801	788 - 834

⁽²⁾ DN 80 ISO-K connector can be supplied, see accessories

Lubricated rotary vane vacuum pumps

Dimensions mm (inch)



References

	E350.R HV		E350.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 400/690V-50Hz	823923 + 724214	823923	823922 + 724214	823922
ASIA / MIDDLE-EAST 3ph, 380V-60Hz	contact us	contact us	contact us	contact us

STAINLESS STEEL version : contact us

Maintenance kits

3 000 hour usual maintenance with viton o'ring for oil mist filter	724184
12 000 hour preventive maintenance	724200
Gasket set	624486



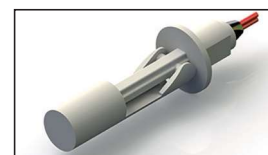
3 000 hour usual maintenance

12 000 hour preventive maintenance



Accessories and Options

1	Oil Level Safety (OLS) with float	624398
	Additional filter for gas ballast	617710
	Timer box for oil level safety (base mounting)	670810
	NC bimetal temperature safety - opening at 120°C	624389
	Oil Level Safety and PT100 temperature sensor	624405
	PT100 temperature sensor	624388
2	3" BSP suction filter	
	Type 301	
	Paper cartridge	717369
	Polyester cartridge	717370
	Carbon cartridge	717371
	Vacuum gauge fitted on filter	617536
	Vacuum-tight suction filter ST301	
	Paper cartridge	361627
	straight-through	Polyester cartridge
		620166
	Deflector for filters CT 301 and ST 301	215696
	Bracket for mural fixing for filters CT, ST and Liquid trap 5NG	617512
	Flanges DN 80 for filters CT, ST and Liquid trap 5NG	617513
	Liquid trap 4NG	
	465 m ³ .h ⁻¹	
	2"1/2 BSP	
	Brass head / polycarbonate cylinder / without float	719920
	Brass head / polycarbonate cylinder / with float	720811
	Brass head / Pyrex cylinder / without float	719437
	Brass head / Pyrex cylinder / with float	720812
3	Liquid trap 5NG	
	650 m ³ .h ⁻¹	
	3" BSP	
	Brass head / polycarbonate cylinder / without float	717786
	Brass head / polycarbonate cylinder / with float	720813
	Brass head / Pyrex cylinder / without float	717740
	Brass head / Pyrex cylinder / with float	720814
	Pyrex bottle 250 ml under trap assembly	615441
	Pyrex bottle 500 ml under trap assembly	615442
	Pyrex bottle 1000 ml under trap assembly	615443
	Electro-pneumatic automatic drain with control board	816002
	Electrical automatic drain with control board	816003
	Vacuum hose (0,6 m) DN80	618269
	Vacuum hose (1 m) DN80	617833
	Vacuum hose (1,5 m) MM 3" BSP	719925
	Vacuum hose (4 m) M 3" BSP - DN80	618573
	Base frame assembly height 200 mm	618251
4	Elevated base frame	
	(H=525 mm)	For 1 pump
		617613
	Direct starter	Without regulation contact 3-ph 400V
	(wall mounting)	With regulation contact LG7 3-ph 400V
		770500
		713746
	Star / Delta starter 400V + N + E (without pressure valve)	718389
	- Electrical unloading valve (230V-50Hz)	617496
	- Pneumatic unloading valve (6 bar)	618257
	Exhaust double elbow mounting	623534
	Double acting electric butterfly cast iron valve DN80	
	with electric actuator 5/2 NF 230V-50Hz	617522
	Double acting pneumatic butterfly cast iron valve DN80	
	with electric actuator 5/2 NF 230V-50Hz	617523
	Aluminium adapter M3" / DN80 ISO K	117130
	Aluminium adapter DN80 ISO K	117129
	Aluminium clamping collar DN63/250 ISO K	4 X 361653
	Centering ring Aluminium / PERBUNAN	361650
	Stainless steel hose (0,5 m) DN80 ISO K	361651
	Stainless steel hose (1 m) DN80 ISO K	361652



1 Oil Level Safety



2 suction filter type 301



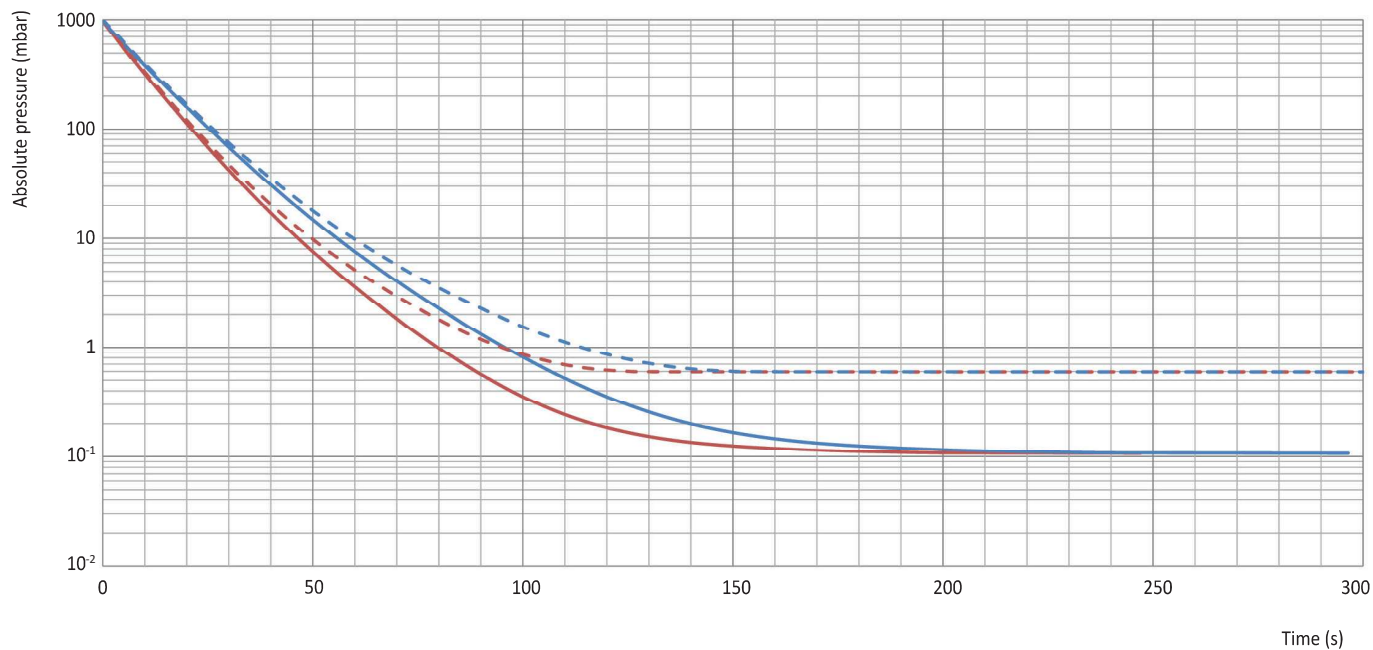
3 Liquid trap 5NG with mechanical stop and optional bottle



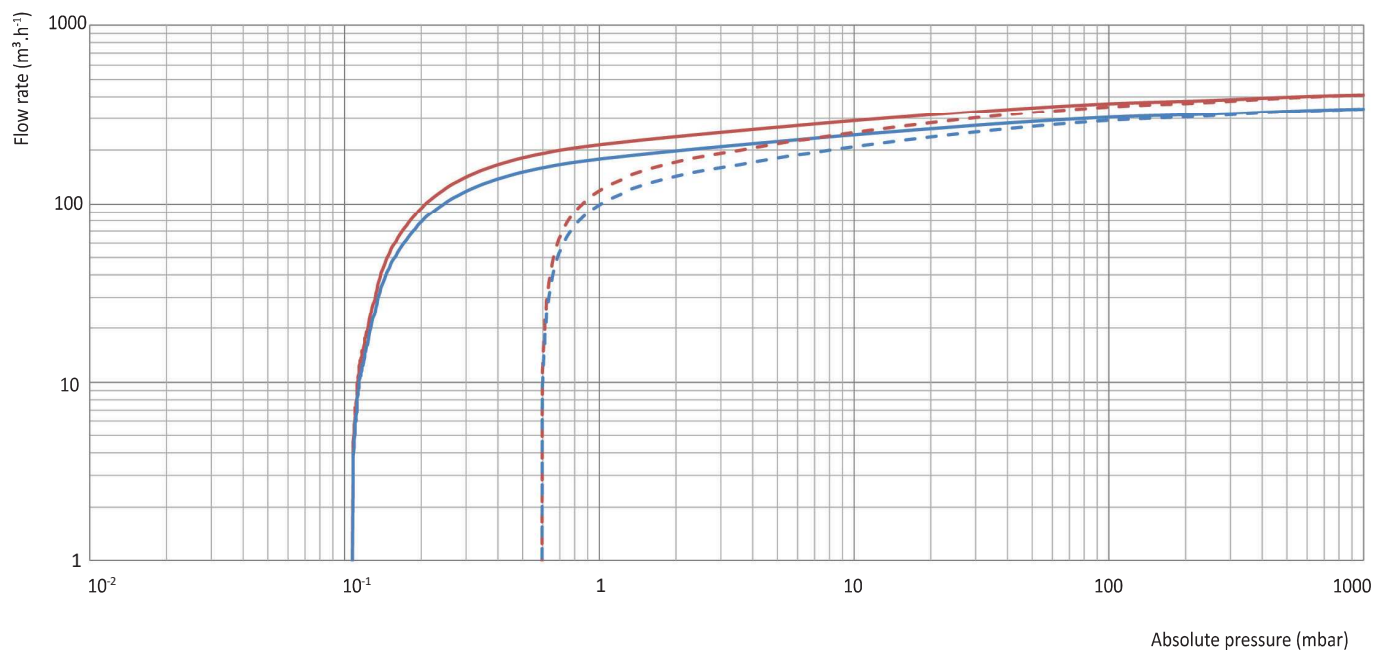
4 Elevated base frame for 1 pump

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