



EVISA E500.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 silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum : 1.10^{-1} mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

		50 Hz	60 Hz		
E500.R HV	Nominal flow rate m ³ .h ⁻¹ - cfm		513 - 302	616 - 362,6	
	PNEUROP pumping speed ⁽¹⁾ m ³ .h ⁻¹ - cfm		496 - 291,6	595 - 350,2	
	Pumping speed at 1 mbar inlet pressure ⁽¹⁾ m ³ .h ⁻¹ - cfm		266 - 156,6	320 - 188,3	
	Without gas ballast	End vacuum mbar - torr	≤ 1.10 ⁻¹ - 8.10 ⁻²	≤ 1.10 ⁻¹ - 8.10 ⁻²	
	Fully opened gas ballast	End vacuum mbar - torr	≤ 1 - 0,75	≤ 1 - 0,75	
Water vapor permitted maximum pressure mbar - torr		11,3 - 8,4	12,2 - 9,1		
Water vapor capacity kg.h ⁻¹		2,7	3,5		
E500.R	Without gas ballast	End vacuum mbar - torr	≤ 3 - 2,3	≤ 3 - 2,3	
	Fully opened gas ballast	End vacuum mbar - torr	≤ 5 - 3,8	≤ 5 - 3,8	
		Water vapor permitted maximum pressure mbar - torr		7,9 - 5,9	8,5 - 6,4
		Water vapor capacity kg.h ⁻¹		1,9	2,4
	100 % synthetic oil		MV99S	MV99S	
	Oil capacity l - qt		14 - 14,8	14 - 14,8	
Noise level dB(A)		73	77		

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

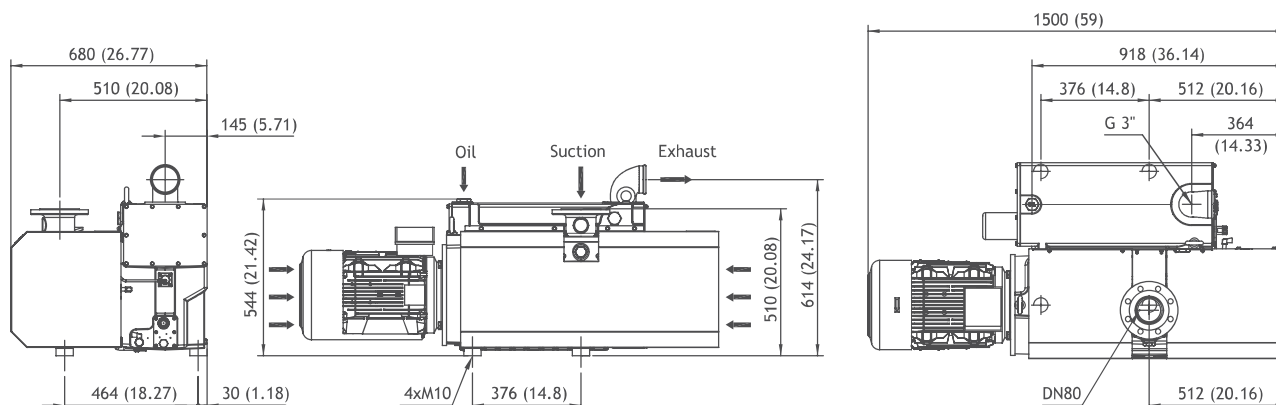
Versions

GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST
Electrical motor	Number of phases	3	3
	Voltage V	400 / 690	380
	Period Hz	50	60
	Motor power	11 kW	13,2 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 - lb		462 - 1019	497 - 1096

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

Lubricated rotary vane vacuum pumps

Dimensions mm (inch)



References

	E500.R HV		E500.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 400/690V-50Hz	823913 + 723973	823913	823912 + 723973	823912
ASIA / MIDDLE-EAST 3ph, 380V-60Hz	Contact us	Contact us	Contact us	Contact us
EVISA H ₂ O version : contact us				

Maintenance kits

3 000 hour usual maintenance with viton o'rings for oil mist filters	724184
12 000 hour preventive maintenance	724191
Gasket set	624479



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 - Max 24V	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 Paper cartridge	361627
	ST301 straight-through Polyester cartridge	620166
	Deflector for filters CT 301 and ST 301	215696
	Bracket for mural fixing for filters CT, ST & Liquid trap	617512
	Flanges DN 80 for filters CT, ST & Liquid trap	617513
3	Liquid trap 300	
	696 m ³ .h ⁻¹	
	3" BSP	
	Aluminium head/ polycarbonate cylinder / without float	724809
	Aluminium head / polycarbonate cylinder / with float	724810
	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	624328
4	Elevated base frame	
	(H=525 mm) For 1 pump	624329
	Direct starter Without regulation contact 3-ph 400V	719238
	(wall mounting) With regulation contact LG7 3-ph 400V	719239
	Star / Delta starter 400V + N + E (without pressure valve)	718392
	- 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



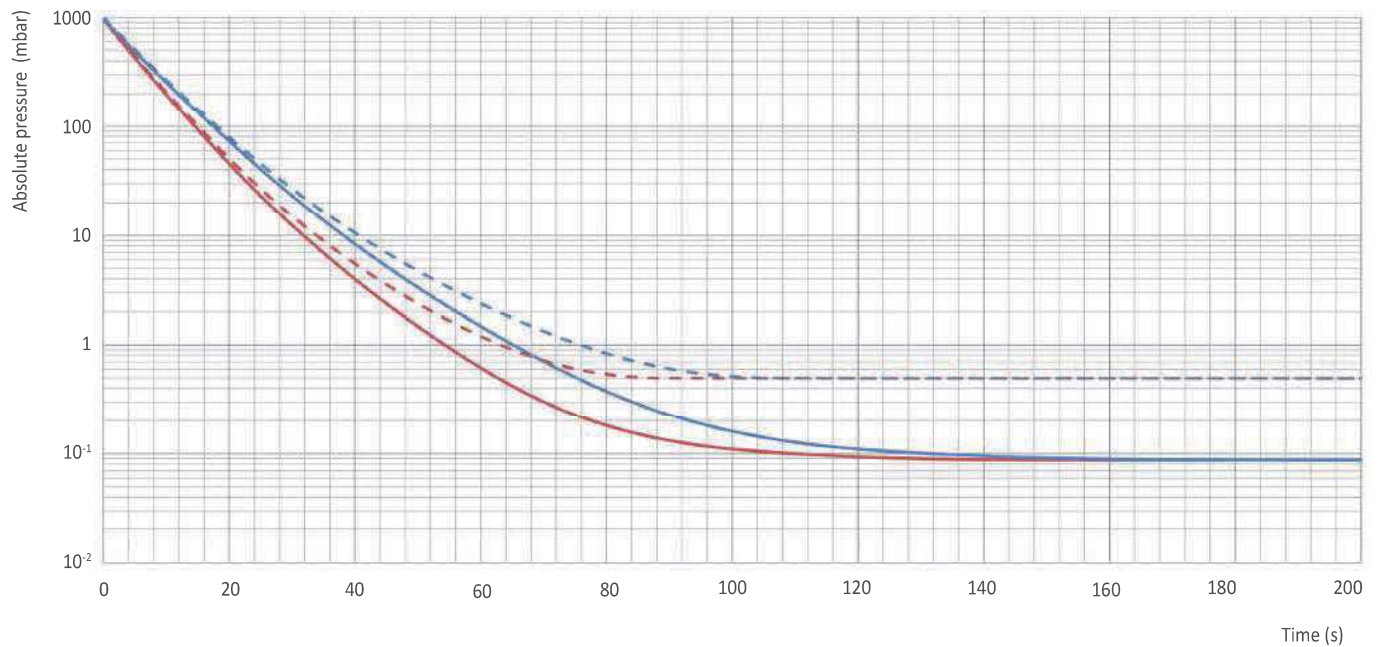
3 Liquid trap 300 with mechanical stop and optional bottle



4 Elevated base frame for 1 pump

Lubricated rotary vane vacuum pumps

Pumping speed on 1000 l vessel



Performance curves

