

EVISA E100.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 with the end vacuum of $6 \cdot 10^{-2}$ mbar
- Compactness and noise level optimized for an easy integration in machines
- High water vapor pumping capacity with finely adjustable gas ballast
- Designed for light onsite maintenance without piping disconnection
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

		50 Hz	60 Hz
E100.R HV	Nominal flow rate $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	100 - 58.8	120 - 70.6
	PNEUROP pumping speed ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	96 - 56.5	115 - 67.7
	Pumping speed at 1 mbar inlet pressure ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	52 - 30.6	62 - 36.5
	Without gas ballast	End vacuum mbar - torr	$\leq 6 \times 10^{-2}$ - 4.5×10^{-2}
		End vacuum mbar - torr	$\leq 5 \times 10^{-1}$ - 3.8×10^{-1}
	Opened gas ballast	Water vapor permitted maximum pressure mbar - torr	59 - 44.2
	3 rotations	Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	3.4
		End vacuum mbar - torr	≤ 2.0 - 1.5
	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	95 - 71.2
		Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	5.5
E100.R	Without gas ballast	End vacuum mbar - torr	≤ 3.0 - 2.3
		End vacuum mbar - torr	≤ 5.0 - 3.8
	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	69 - 51.7
		Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	3.8
100 % synthetic oil		MV99S	MV99S
Oil capacity l - qt		3 - 3.2	3 - 3.2
Noise level dB(A)		67	69

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

Versions

ZONE GEOGRAPHIQUE		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	200 / 380
	Period Hz	50	60	50	60	50 / 60
	Motor power	2.20 kW	2.64 kW	2.20 kW	5 HP	2.20 / 2.64 kW
	Rotation speed min^{-1}	1500	1800	1500	1800	1500/1800
Inlet connection ⁽²⁾		1"1/4 BSP	1"1/4 BSP	1"1/4 NPT	1"1/4 NPT	1"1/4 BSP
Outlet connection ⁽³⁾		1" 1/4 BSP	1" 1/4 BSP	1" 1/4 NPT	1" 1/4 NPT	1"1/4 BSP
Weight with oil kg - lb		67.2 - 148.2	67.2 - 148.2	85.5 - 188.5	85.5 - 188.5	67.2 - 148.2

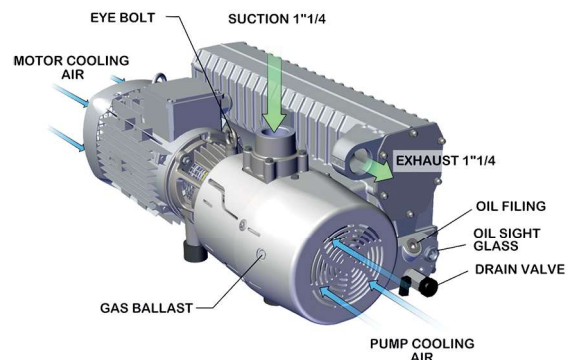
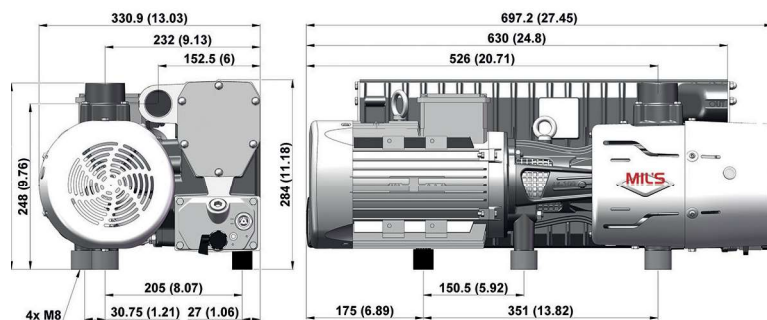
⁽²⁾ DN 40 ISO-KF adaptation flange can be supplied, see accessories

⁽³⁾ DN 40 ISO-KF connector can be supplied, see accessories

Specifications are subject to be changed without notice.

Lubricated rotary vane vacuum pumps

Dimensions mm (inch)



References

	E100.R HV		E100.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 230/400V-50Hz	824251	824252	824249	824250
SOUTH AMERICA/ USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824259	824260	824257	824258
ASIA / MIDDLE-EAST 3ph, 220/380V-60Hz	824267	824268	824265	824266

JAPAN version - Contact us

Oxygen version available - Contact us

HV Accessories - KF connection



1 Suction filter DN40KF -Type 100

Suction flange DN40KF	625018
1 Suction filter DN40KF - Type 100	625009
Paper cartridge	625010
Polyester cartridge	625011
Carbon cartridge	361639
Aluminium clamping ring DN40KF	361642
Stainless steel / Viton DN40KF centering ring	361646
Stainless steel DN40KF hose - 0,5 m	361647
Stainless steel DN40KF hose - 1 m	333818
Elbow DN40KF	333819
Equal T-square DN40KF	333820
Manual ball valve DN40KF	333821
Solenoid valve DN40KF	625208
Exhaust adapter 1"1/4 BSP - DN40KF	

Maintenance kits

3 000 hour usual maintenance with silicone o'ring for oil mist filter	724601
3 000 hour usual maintenance with viton o'ring for oil mist filter	724602
12 000 hour preventive maintenance	724604

Oxygen version maintenance available - Contact us



3 000 hour usual maintenance



12 000 hour preventive maintenance

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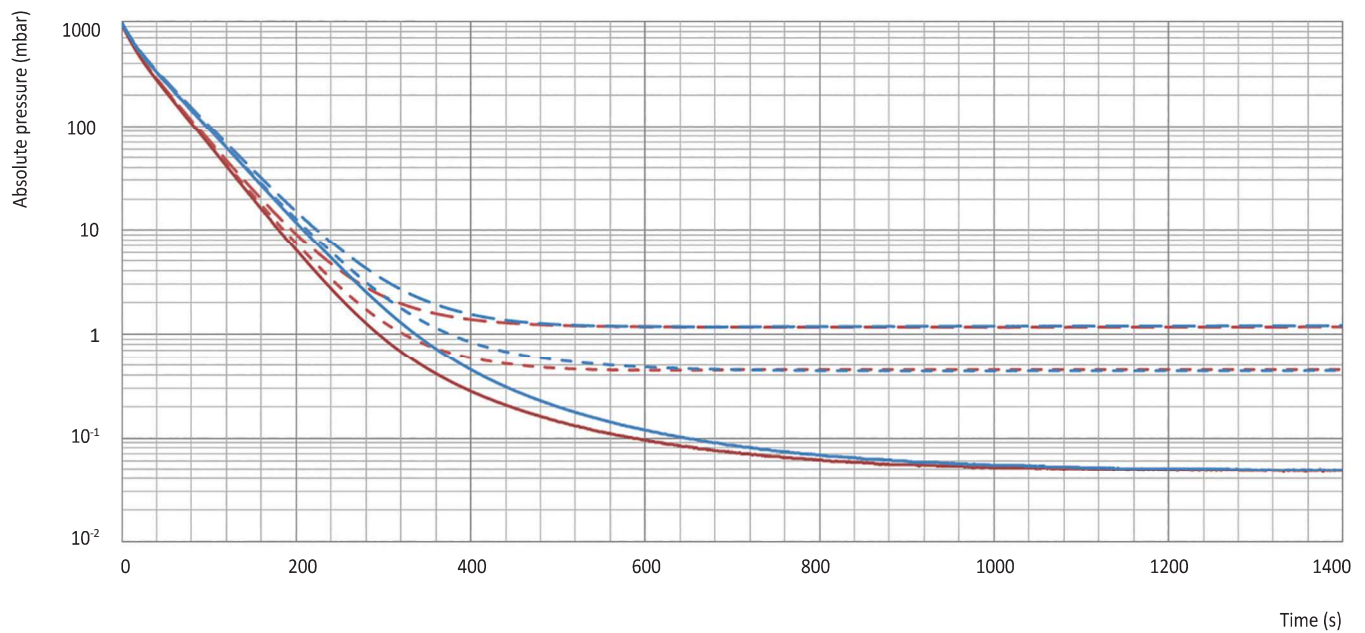
Accessories and Options

1	Oil Level Safety (OLS) with float	625020
	PT100 temperature sensor	625021
	NC bimetal temperature safety - opening at 120°C	625022
2	1"1/4 BSP suction filter	706192
	Paper cartridge	709398
	Polyester cartridge	710521
	Carbon cartridge	710521
	Ø126 vacuum gauge fitted on filter	617536
	1"1/4 BSP polyester/carbon double filtration 126PO + 126CH	670617
	Adjusting valve fitted on T-square	713841
3	Liquid trap 2NG	716600
	120 m ³ .h ⁻¹	716565
	1"1/4 BSP	716601
	Brass head / polycarbonate cylinder / without float	716592
	Brass head / polycarbonate cylinder / with float	716592
	Brass head / Pyrex cylinder / without float	615441
	Brass head / Pyrex cylinder / with float	615442
	Pyrex bottle 250 ml under trap assembly	615443
	Pyrex bottle 500 ml under trap assembly	615443
	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) MF 1"1/4 BSP	670650
	Vacuum hose (1 m) MF 1"1/4 BSP	607058
	Vacuum hose (1,5 m) MF 1"1/4 BSP	610457
	Vacuum hose (2 m) MF 1"1/4 BSP	770152
	Exhaust double elbow mounting	622787
	Base frame assembly height 150 mm	625209
4	Elevated base frame	625210
	(H=525 mm)	625211
	For 1 pump	625212
	For 2 pumps	625212
	For 3 pumps	625212
Direct starter	Without regulation contact 3-ph 400V	770497
(wall mounting)	Without regulation contact 3-ph 230V	770498
	With regulation contact LG7 3-ph 400V	710424
	With regulation contact LG7 3-ph 230V	710432
	Control board with FLEXO solenoid valve 400V, 3-ph + N	770814
	for warm up and degasing cycle	
	Control board with FLEXO solenoid valve 400V, 3-ph + N	770821
	for degasing cycle	

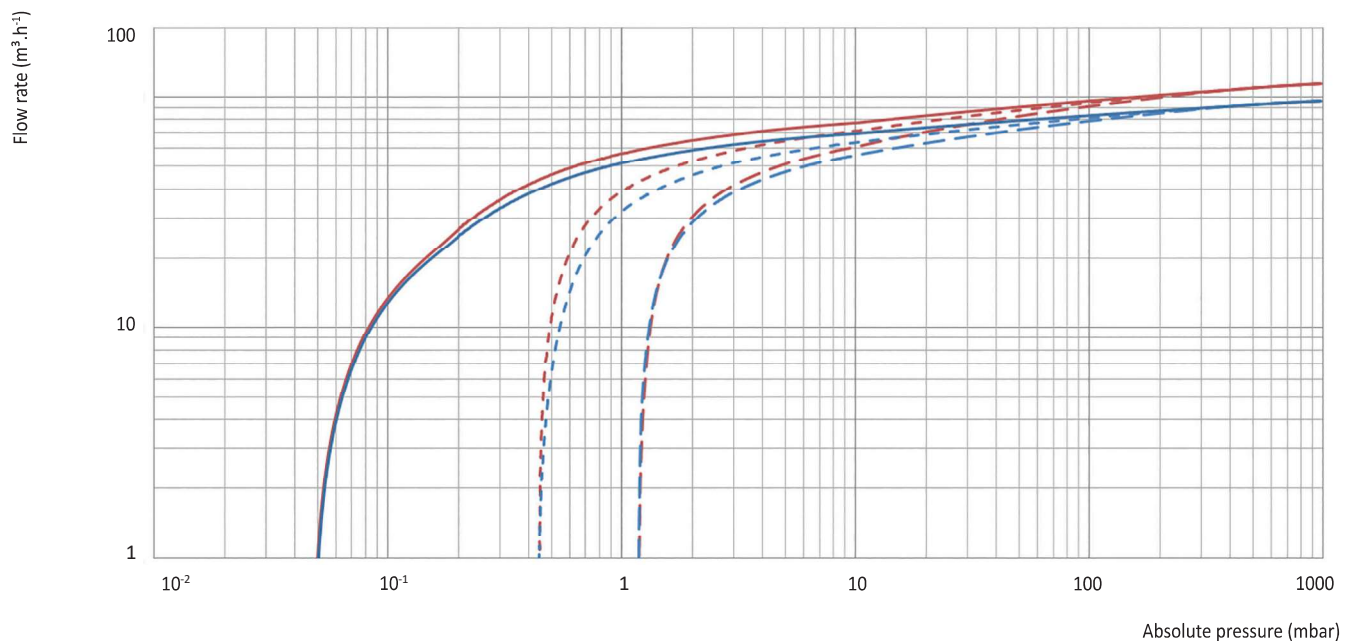


Lubricated rotary vane vacuum pumps

Pumping speed on 1000 l vessel



Performance curves



— 60 Hz - Without gas ballast - - 60 Hz - opened gas ballast 1,5 rotation - - 60 Hz - Fully opened gas ballast
 — 50 Hz - Without gas ballast - - 50 Hz - opened gas ballast 1,5 rotation - - 50 Hz - Fully opened gas ballast