



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 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	
Nominal flow rate m ³ .h ⁻¹ - cfm		100 - 58,8	120 - 70,6	
PNEUROP pumping speed ⁽¹⁾ m ³ .h ⁻¹ - cfm		96 - 56,5	115 - 67,7	
Pumping speed at 1 mbar inlet pressure ⁽¹⁾ m ³ .h ⁻¹ - cfm		52 - 30,6	62 - 36,5	
E100.R HV	Without gas ballast	End vacuum mbar - torr	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - 4,5.10 ⁻²
	Opened gas ballast 3 rotations	End vacuum mbar - torr	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹
		Water vapor permitted maximum pressure mbar - torr	59 - 44,2	49 - 36,7
		Water vapor capacity kg.h ⁻¹	3,4	3,2
	Fully opened gas ballast	End vacuum mbar - torr	≤ 2 - 1,5	≤ 2 - 1,5
		Water vapor permitted maximum pressure mbar - torr	95 - 71,2	79 - 59,2
		Water vapor capacity kg.h ⁻¹	5,5	5,2
E100.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	69 - 51,7	60 - 45
		Water vapor capacity kg.h ⁻¹	3,8	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

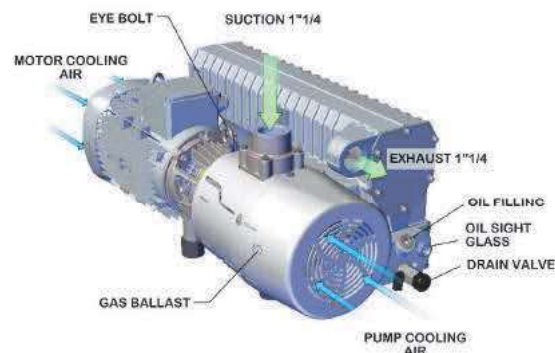
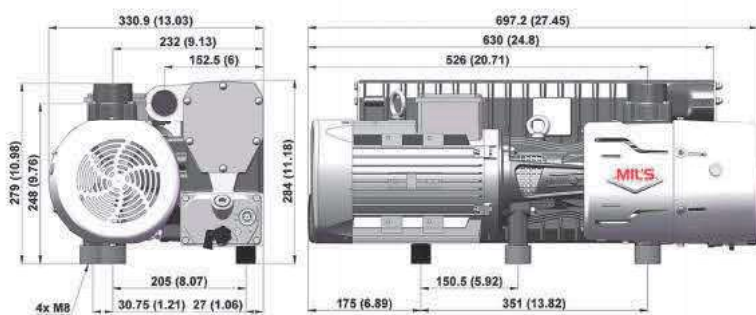
GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
Electrical motor	Number of phases	3	3	3	3	3
	Voltage V	230 / 400	220 / 380	190 / 380	208-230 / 460	200 / 380
	Period Hz	50	60	50	60	50 / 60
	Motor power	2,20 kW	2,64 kW	2,20 kW	5 HP	2,20 / 2,64 kW
	Rotation speed min^{-1}	1500	1800	1500	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

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	Paper cartridge	625009
		Polyester cartridge	625010
		Carbon cartridge	625011
Aluminium clamping ring DN40KF		361639	
Stainless steel / Viton DN40KF centering ring		361642	
Stainless steel DN40KF hose - 0,5 m		361646	
Stainless steel DN40KF hose - 1 m		361647	
Elbow DN40KF		333818	
Equal T-square DN40KF		333819	
Manual ball valve DN40KF		333820	
Solenoid valve DN40KF		333821	
Exhaust adapter 1"1/4 BSP - DN40KF		625109	

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



3 000 hour usual maintenance



12 000 hour preventive maintenance

Oxygen version maintenance available - Contact us

Specifications are subject to be changed without notice.



Accessories and Options

1	Oil Level Safety (OLS) with float		625369
	PT100 temperature sensor		625021
	NC bimetal temperature safety - opening at 120°C - Max 24V		625022
2	1"1/4 BSP suction filter Type 126	Paper cartridge	706192
		Polyester cartridge	709398
		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 125 120 m³.h⁻¹ 1"1/4 BSP	Aluminium head / plexiglass cylinder / without mechanical float	724797
		Aluminium head / plexiglass cylinder / with mechanical float	724798
		Aluminium head / Pyrex cylinder / without mechanical float	724811
		Aluminium head / Pyrex cylinder / with mechanical float	724812
		Stainless steel head / Pyrex cylinder / without mechanical float	724799
		Stainless steel head / Pyrex cylinder / with mechanical float	724800
		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) 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
	Suction hose (1m) MM 1"1/4 with no return valve		770152
	Exhaust double elbow mounting		625480
	Base frame assembly height 150 mm		625209
4	Elevated base frame (H=525 mm)	For 1 pump	625210
		For 2 pumps	625211
		For 3 pumps	625212
Direct starter (wall mounting)	Without regulation contact 3-ph 400V		770497
	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 3-ph, 400V + N for warm up and degasing cycle		770814
	Control board with FLEXO solenoid valve 3-ph, 400V + N for degasing cycle		770821



1 Oil Level Safety



2 suction filter
type 126



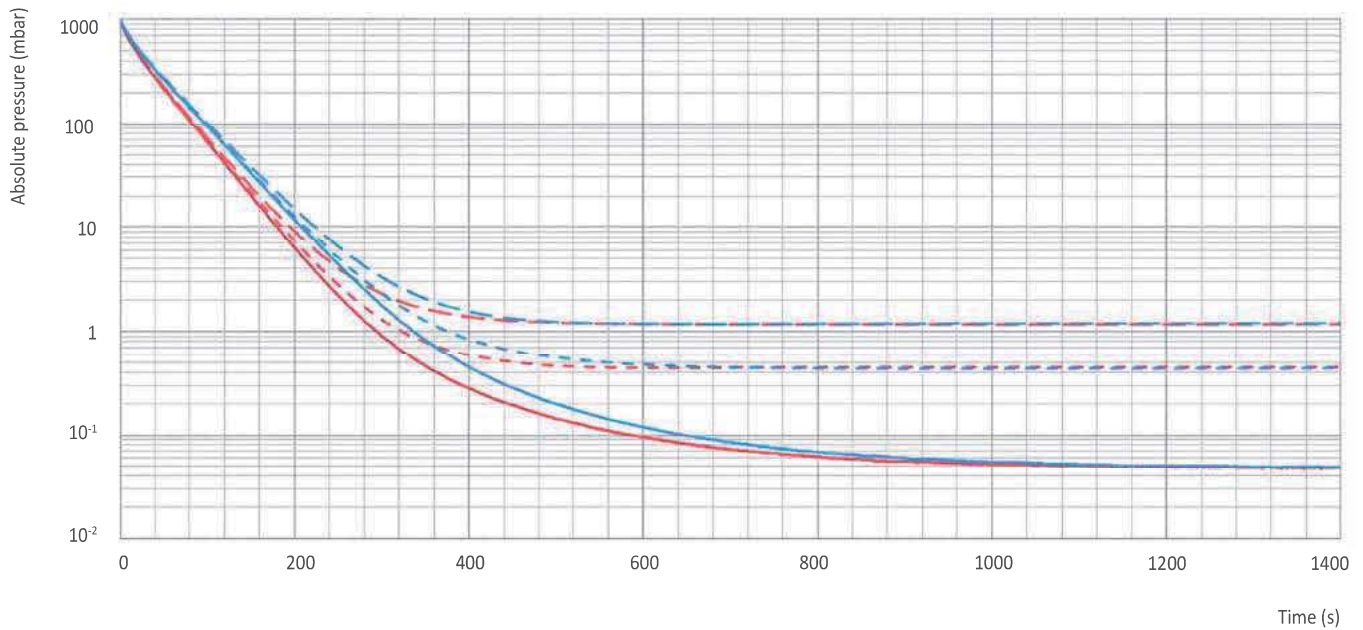
3 Liquid trap 125
with mechanical
stop and
optional bottle



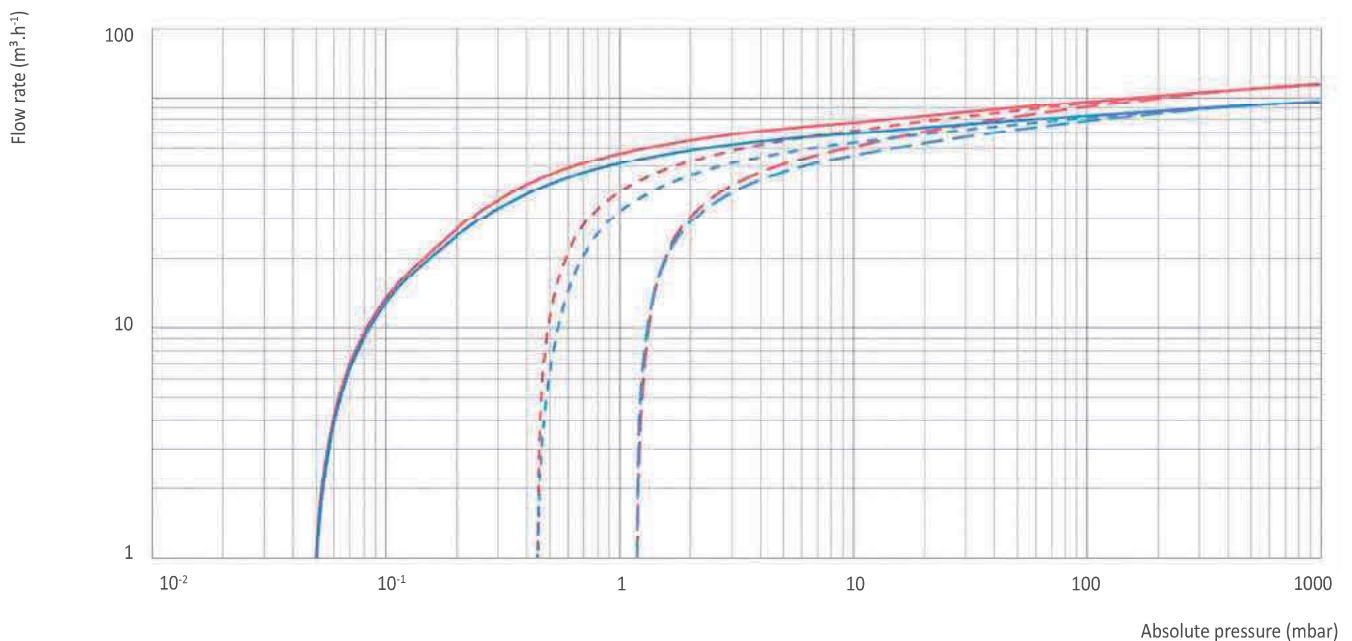
4 Elevated base frame
for 2 pumps

Lubricated rotary vane vacuum pumps

Pumping speed on 1000 l vessel



Performance curves



— 60 Hz - Without gas ballast - - 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