

High performance oil-flooded vacuum pumps



New generation of vacuum pumps with fast pumping speed due to 6.10^{-2} mbar absolute end vacuum

High flow rate at 1 mbar

Internal design providing a low noise level for an easy integration into industrial machines

Installation near operators



Delivery with MV99S 100% synthetic oil for long life time and heavy duty operating conditions

Lubricated rotary vane vacuum pumps



Oil filter standard on each size of vacuum pump with dual recycling oil circuit

Accessible & adjustable gas ballast following customer process with high capacities of water pumping



Possible customisation of the protection cover

Options:

- Oil level switch
- PT100 temperature sensor
- Many other options available





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
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 - <i>torr</i>	$\leq 6 \cdot 10^{-2}$ - $4,5 \cdot 10^{-2}$	$\leq 6 \cdot 10^{-2}$ - $4,5 \cdot 10^{-2}$
	Opened gas ballast 3 rotations	End vacuum mbar - <i>torr</i>	$\leq 5 \cdot 10^{-1}$ - $3,8 \cdot 10^{-1}$
		Water vapor permitted maximum pressure mbar - <i>torr</i>	59 - 44,2
		Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	3,4
	Fully opened gas ballast	End vacuum mbar - <i>torr</i>	≤ 2 - 1,5
		Water vapor permitted maximum pressure mbar - <i>torr</i>	95 - 71,2
		Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	5,5
E100.R	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
		Water vapor permitted maximum pressure mbar - <i>torr</i>	69 - 51,7
		Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	3,8
	100 % synthetic oil	MV99S	MV99S
Oil capacity l - <i>qt</i>		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 - <i>lb</i>		67,2 - 148,2	67,2 - 148,2	85,5 - 188,5	85,5 - 188,5	67,2 - 148,2

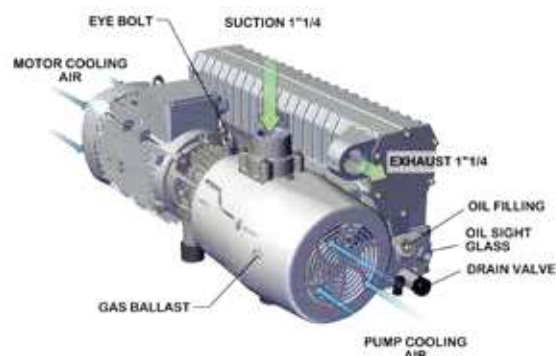
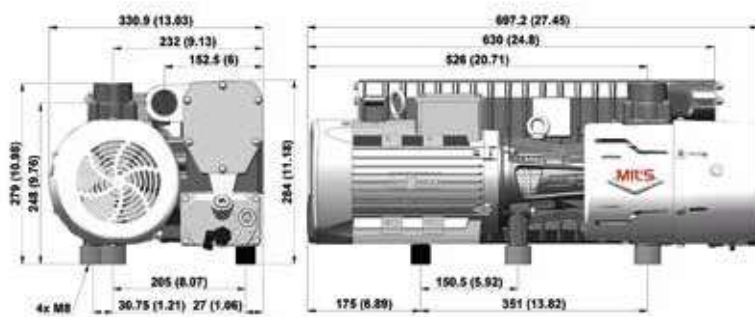
⁽²⁾ DN 40 ISO-KF adaptation flange can be supplied, see accessories

⁽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	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

Oxygen version maintenance available - Contact us



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	625369
	PT100 temperature sensor	625021
	NC bimetal temperature safety - opening at 120°C - Max 24V	625022
2	1"1/4 BSP suction filter	706192
	Paper cartridge	709398
	Polyester cartridge	710521
	Carbon cartridge	617536
	Ø126 vacuum gauge fitted on filter	670617
	1"1/4 BSP polyester/carbon double filtration 126PO + 126CH	713841
	Adjusting valve fitted on T-square	724797
3	Liquid trap 125	724798
	120 m ³ .h ⁻¹	724811
	1"1/4 BSP	724812
	Aluminium head / plexiglass cylinder / without mechanical float	724799
	Aluminium head / plexiglass cylinder / with mechanical float	724800
	Aluminium head / Pyrex cylinder / without mechanical float	615441
	Aluminium head / Pyrex cylinder / with mechanical float	615442
	Stainless steel head / Pyrex cylinder / without mechanical float	615443
	Stainless steel head / Pyrex cylinder / with mechanical float	816002
	Pyrex bottle 250 ml under trap assembly	816003
	Pyrex bottle 500 ml under trap assembly	670650
	Pyrex bottle 1000 ml under trap assembly	607058
	Electro-pneumatic automatic drain with control board	610457
	Electrical automatic drain with control board	770152
	Vacuum hose (0,6 m) MF 1"1/4 BSP	625480
	Vacuum hose (1 m) MF 1"1/4 BSP	625209
	Vacuum hose (1,5 m) MF 1"1/4 BSP	624611
	Suction hose (1m) MM 1"1/4 with no return valve	619544
	Exhaust double elbow mounting	617614
	Base frame assembly height 150 mm	770497
4	Elevated base frame	770498
	(H=525 mm)	710424
	For 1 pump	710432
	For 2 pumps	770814
	For 3 pumps	770821
	Direct starter	
	(wall mounting)	
	Without regulation contact 3-ph 400V	
	Without regulation contact 3-ph 230V	
	With regulation contact LG7 3-ph 400V	
	With regulation contact LG7 3-ph 230V	
	Control board with FLEXO solenoid valve 3-ph, 400V + N	
	for warm up and degasing cycle	
	Control board with FLEXO solenoid valve 3-ph, 400V + N	
	for degasing cycle	



1 Oil Level Safety



2 suction filter type 126



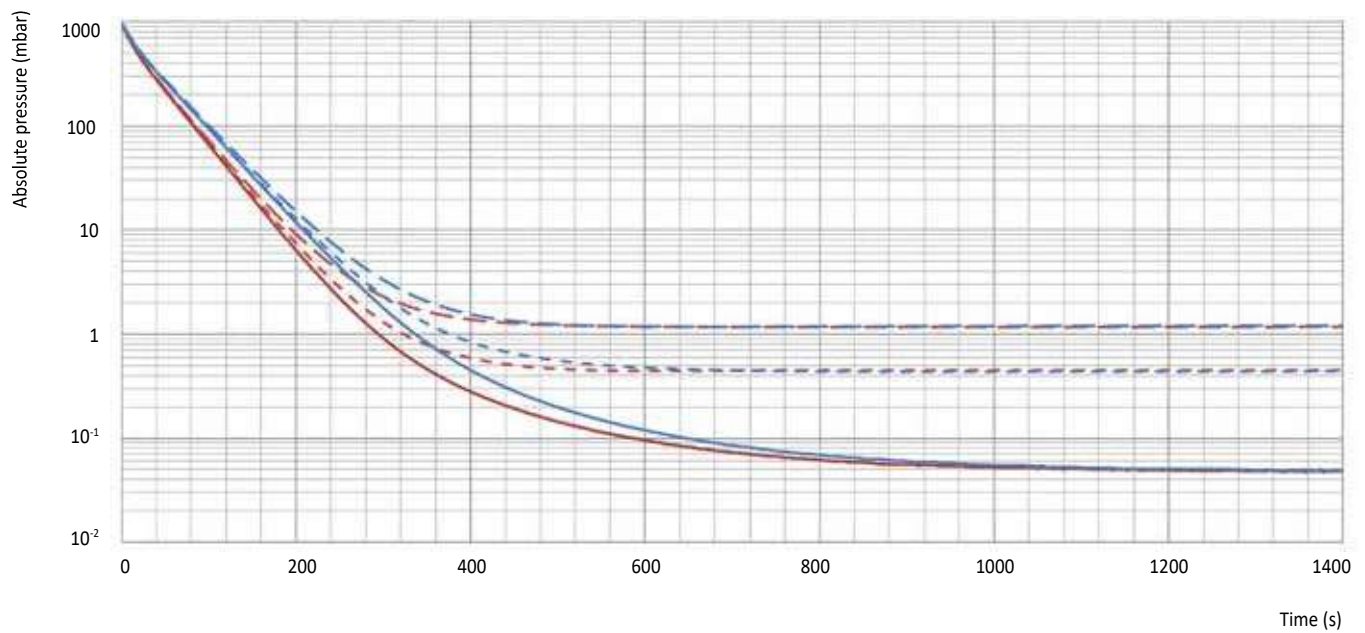
3 Liquid trap 125 with mechanical stop and optional bottle



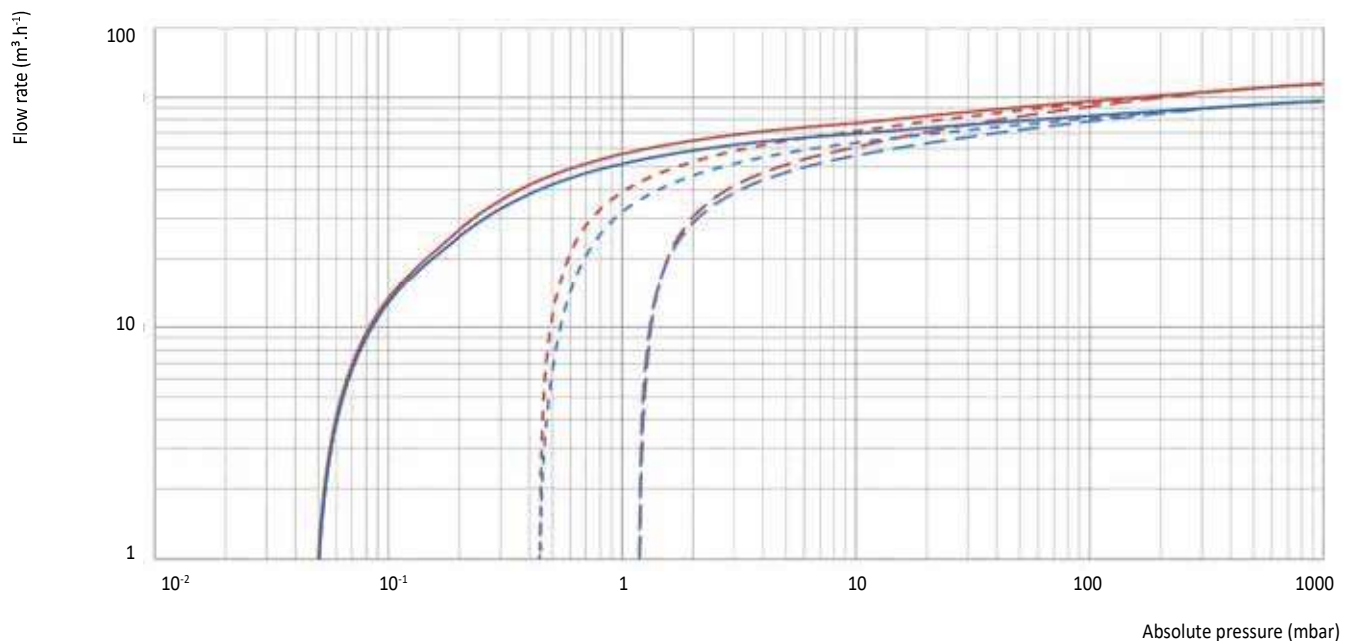
4 Elevated base frame for 2 pumps

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