

EVISA E65.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
E65.R HV	Nominal flow rate m ³ .h ⁻¹ - cfm		68 - 40	81.6 - 48
	PNEUROP pumping speed ⁽¹⁾ m ³ .h ⁻¹ - cfm		65 - 38.2	78 - 45.9
	Pumping speed at 1 mbar inlet pressure ⁽¹⁾ m ³ .h ⁻¹ - cfm		40 - 23.5	48 - 28.2
	Without gas ballast	End vacuum mbar - torr	≤ 6 x10 ⁻² - 4.5 x10 ⁻²	≤ 6 x10 ⁻² - 4.5 x10 ⁻²
		End vacuum mbar - torr	≤ 5 x10 ⁻¹ - 3.8 x10 ⁻¹	≤ 5 x10 ⁻¹ - 3.8 x10 ⁻¹
	Opened gas ballast 3 rotations	Water vapor permitted maximum pressure mbar - torr	50 - 37.5	42 - 31.5
		Water vapor capacity kg.h ⁻¹	2	1.9
	Fully opened gas ballast	End vacuum mbar - torr	≤ 3.0 - 2.3	≤ 3.0 - 2.3
		Water vapor permitted maximum pressure mbar - torr	80 - 60	67 - 50
		Water vapor capacity kg.h ⁻¹	3	3
E65.R	Without gas ballast	End vacuum mbar - torr	≤ 3.0 - 2.3	≤ 3.0 - 2.3
	Fully opened gas ballast	End vacuum mbar - torr	≤ 5.0 - 3.8	≤ 5.0 - 3.8
		Water vapor permitted maximum pressure mbar - torr	49 - 36.7	43 - 32.2
		Water vapor capacity kg.h ⁻¹	1.7	1.7
100 % synthetic oil			MV99S	MV99S
Oil capacity l - qt			3 - 3.2	3 - 3.2
Noise level dB(A)			67	72

⁽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	1.50 kW	1.80 kW	1.50 kW	3 HP	1.50 / 1.80 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>		63.4 - 139.8	71.6 - 157.9	78.5 - 173.1	78.5 - 173.1	63.4 - 139.8

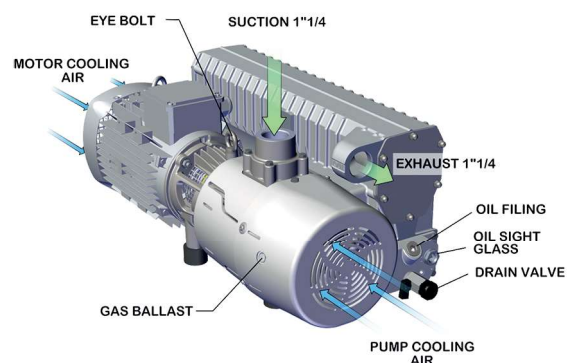
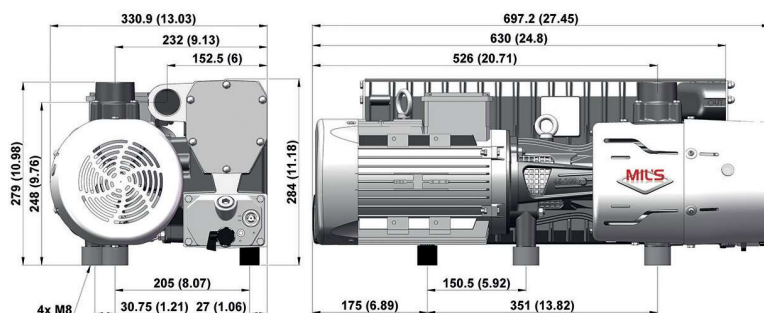
⁽²⁾ DN 40 ISO-KF adaptation flange can be supplied, see accessories

⁽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

	E65.R HV		E65.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 230/400V-50Hz	824247	824248	824245	824246
SOUTH AMERICA/ USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824255	824256	824253	824254
ASIA / MIDDLE-EAST 3ph, 220/380V-60Hz	824263	824264	824261	824262

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	625208

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

724603

Oxygen version maintenance available - Contact us



3 000 hour usual
maintenance

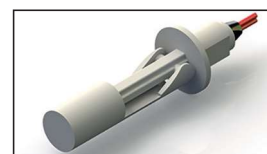


12 000 hour
preventive
maintenance

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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	Paper cartridge 706192
	Type 126	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 2NG	Brass head / polycarbonate cylinder / without float 716600
	120 m ³ .h ⁻¹	Brass head / polycarbonate cylinder / with float 716565
	1"1/4 BSP	Brass head / Pyrex cylinder / without float 716601
		Brass head / Pyrex cylinder / with float 716592
		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
	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	For 1 pump 625210
	(H=525 mm)	For 2 pumps 625211
		For 3 pumps 625212
	Direct starter	Without regulation contact 3-ph 400V 770496
	(wall mounting)	Without regulation contact 3-ph 230V 770498
		With regulation contact LG7 3-ph 400V 710423
		With regulation contact LG7 3-ph 230V 710432
	Control board with FLEXO solenoid valve 400V, 3-ph + N	770813
	for warm up and degasing cycle	
	Control board with FLEXO solenoid valve 400V, 3-ph + N	770820
	for degasing cycle	



1 Oil Level Safety



2 suction filter type 126



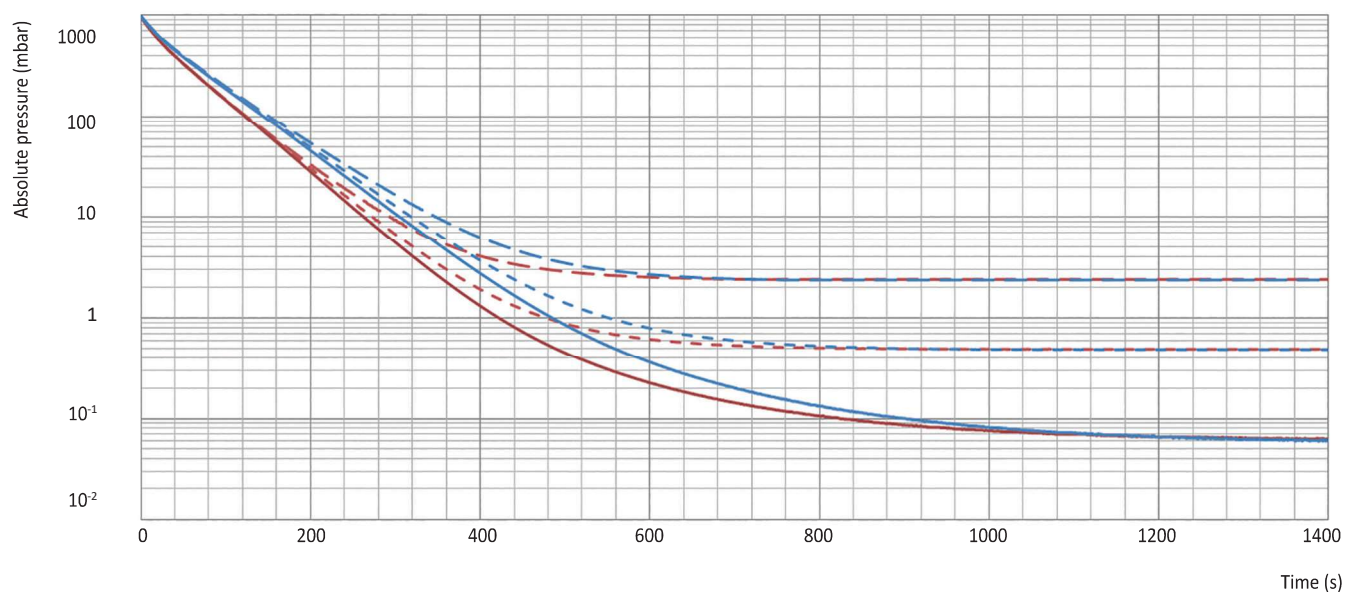
3 Liquid trap 2NG with mechanical stop and optional bottle



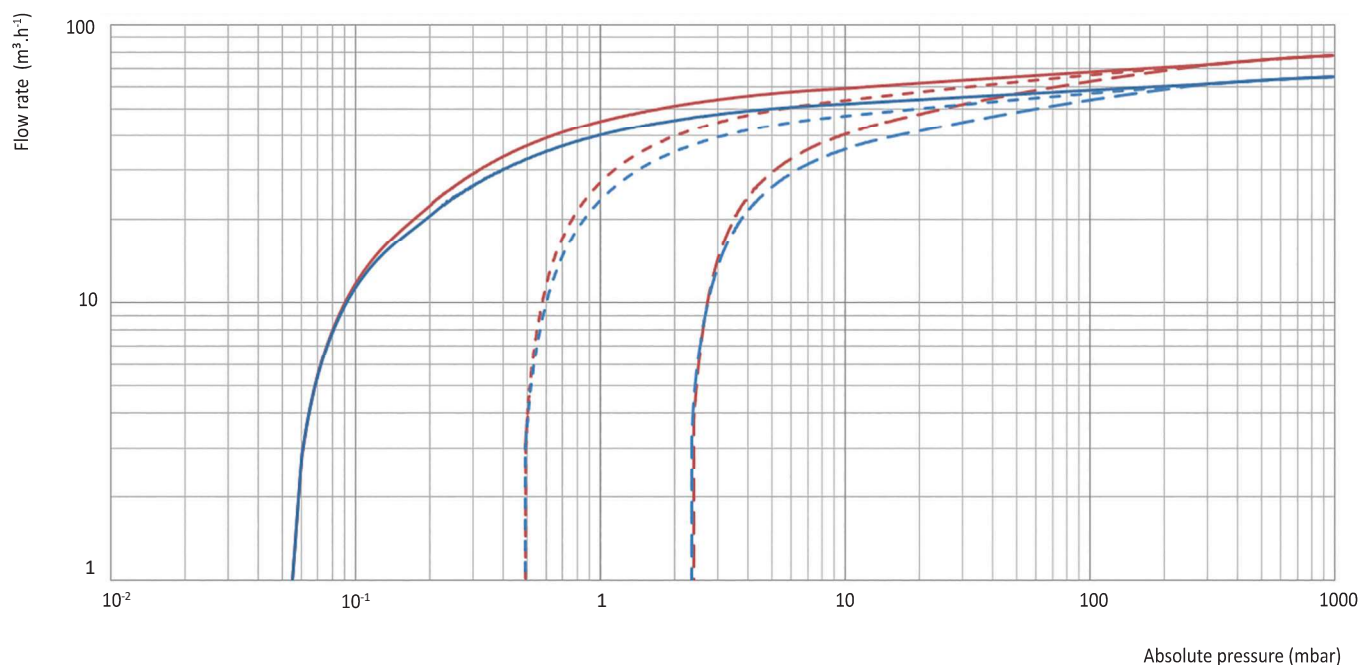
4 Elevated base frame for 2 pumps

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