

# EVISA E150.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
- Continuous operation from atmospheric pressure to end vacuum :  $8 \cdot 10^{-2}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

## Technical characteristics

		50 Hz	60 Hz <sup>(2)</sup>
E150.R HV	Nominal flow rate $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	132 - 77.7	156 - 91.8
	PNEUROP pumping speed <sup>(1)</sup> $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	125 - 73.6	150 - 88.3
	Pumping speed at 1 mbar inlet pressure <sup>(1)</sup> $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	95 - 55.9	114 - 67.1
	Without gas ballast    End vacuum mbar - <i>torr</i>	$\leq 8 \times 10^{-2}$ - $6 \times 10^{-2}$	$\leq 8 \times 10^{-2}$ - $6 \times 10^{-2}$
	Fully opened gas ballast    End vacuum mbar - <i>torr</i>	$\leq 2$ - 1.5	$\leq 2$ - 1.5
	Water vapor permitted maximum pressure mbar - <i>torr</i>	58.8 - 44.1	70.3 - 52.8
	Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	4.2	6.2
E150.R	Without gas ballast    End vacuum mbar - <i>torr</i>	$\leq 3$ - 2.3	$\leq 3$ - 2.3
	Fully opened gas ballast    End vacuum mbar - <i>torr</i>	$\leq 5$ - 3.8	$\leq 5$ - 3.8
	Water vapor permitted maximum pressure mbar - <i>torr</i>	41 - 30.7	49 - 36.7
	Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	2.9	4.3
100 % synthetic oil		MV99S	MV99S
Oil capacity l - <i>qt</i>		5.0 - 5.3	5.0 - 5.3
Noise level dB(A)		69	72

<sup>(1)</sup> Measurements according to PNEUROP 6602 specifications - 20°C

<sup>(2)</sup> 260/460V 60 Hz only

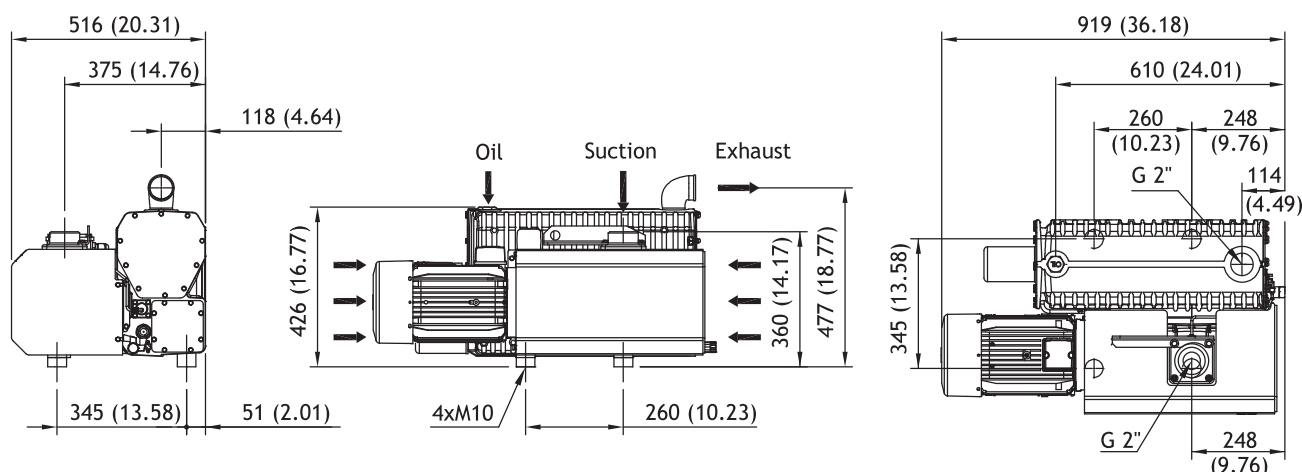
## Versions

GEOGRAPHIC ZONE		EUROPE
Electrical motor	Number of phases	3
	Voltage V	230 / 400
	Period Hz	50
	Motor power	3 kW
	Rotation speed $\text{min}^{-1}$	1000
Inlet connection <sup>(2)</sup>		2" BSP
Outlet connection <sup>(2)</sup>		2" BSP
Weight with oil kg - <i>lb</i>		154 - 340

<sup>(2)</sup> DN 50 ISO-KF connector can be supplied, see accessories

# Lubricated rotary vane vacuum pumps

## Dimensions mm (inch)



## References

	E150.R HV		E150.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
<b>EUROPE</b> 3ph, 230/400V-50Hz	<b>823857</b> + <b>624229</b>	<b>823857</b>	<b>823856</b> + <b>624229</b>	<b>823856</b>

## Special versions

	E150.R HV		E150.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
<b>OXYGEN with Fomblin oil</b> 3ph, 230/400V-50Hz	<b>823871</b> + <b>624229</b>	<b>823871</b>	<b>823870</b> + <b>624229</b>	<b>823870</b>
<b>STAINLESS STEEL TUBING</b> 3ph, 230/400V-50Hz	Contact us	Contact us	<b>823869</b> + <b>624229</b>	<b>823869</b>

## Maintenance kits

<b>3 000 hour usual maintenance</b> with silicone o'ring for oil mist filter	<b>724054</b>
<b>3 000 hour usual maintenance</b> with viton o'ring for oil mist filter	<b>724055</b>
<b>12 000 hour preventive maintenance</b>	<b>724052</b>
<b>Gasket set</b>	<b>624230</b>
<b>3 000 hour usual maintenance</b> for OXYGEN version	<b>724089</b>
<b>12 000 hour preventive maintenance</b> for OXYGEN version	<b>724087</b>



3 000 hour usual maintenance

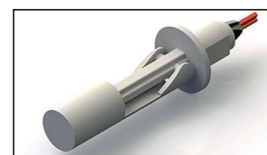


12 000 hour preventive maintenance

Specifications are subject to be changed without notice.

## Accessories and Options

<b>1</b>	Oil Level Safety (OLS) with float	624245
	Timer box for oil level safety (base mounting)	670810
	NC bimetal temperature safety - opening at 120°C	624246
	Oil Level Safety and PT100 temperature sensor	624247
	PT100 temperature sensor	624248
<b>2</b>	2" BSP suction filter	Paper cartridge 715350
	Type 201	Polyester cartridge 715351
		Carbon cartridge 715352
	Vacuum gauge fitted on filter	617536
	2" BSP paper/paper double filtration 201PA + 201PA	670615
	2" BSP polyester/carbon double filtration 201PO + 201CH	670618
<b>3</b>	Liquid trap 3NG	Brass head / polycarbonate cylinder / without float 720807
	280 m <sup>3</sup> .h <sup>-1</sup>	Brass head / polycarbonate cylinder / with float 720808
	2" BSP	Brass head / Pyrex cylinder / without float 720809
		Brass head / Pyrex cylinder / with float 720810
		Pyrex bottle 250 ml under trap assembly 615441
		Pyrex bottle 500 ml under trap assembly 615442
		Pyrex bottle 1000 ml under trap assembly 615443
		Bracket for wall fixing 619907
	Adjusting valve fitted on T-square	713842
	Electro-pneumatic automatic drain with control board	816002
	Electrical automatic drain with control board	816003
	Vacuum hose (0,6 m) FF 2" BSP	618149
	Vacuum hose (1 m) FF 2" BSP	606099
	Vacuum hose (1,5 m) FF 2" BSP	607592
	Suction hose with non-return valve (1 m)	770154
	Exhaust double elbow mounting	622788
	Base frame assembly height 150 mm	670806
<b>4</b>	Elevated base frame	For 1 pump 617612
	(H=525 mm)	For 2 pumps 619545
	Without regulation contact 3-ph 400V	770499
<b>Direct starter</b>	Without regulation contact 3-ph 230V	770500
<b>(wall mounting)</b>	With regulation contact LG7 3-ph 400V	710426
	With regulation contact LG7 3-ph 230V	710434
	Control board with FLEXO solenoid valve 400V, 3-ph + N for warm up and degasing cycle	770815
	Control board with FLEXO solenoid valve 400V, 3-ph + N for degasing cycle	770822
	Aluminium adapter M2" / DN50 KF	117132
	Aluminium clamping collar DN50 KF	361640
	Centering ring stainless steel / VITON	361643
	Stainless steel hose (0,5 m) DN50 KF	361648
	Stainless steel hose (1 m) DN50 KF	361649



**1** Oil Level Safety



**2** suction filter type 201



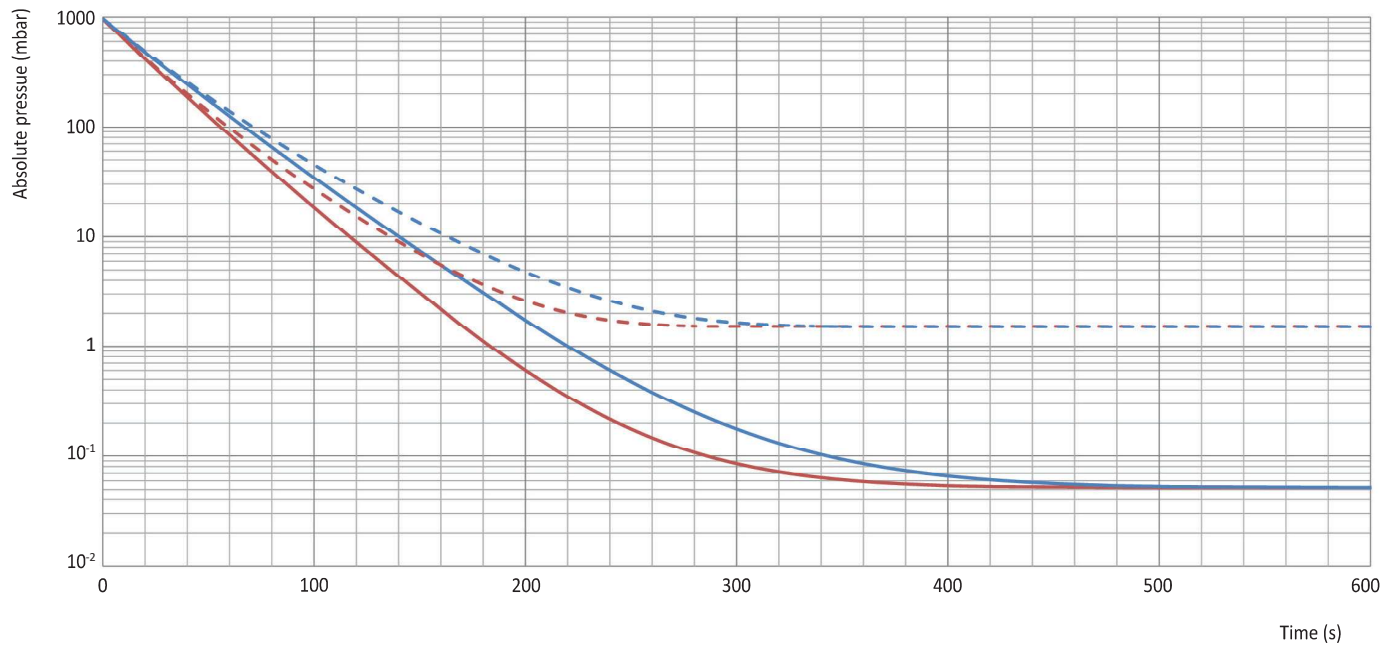
**3** Liquid trap 3NG with mechanical stop and optional bottle



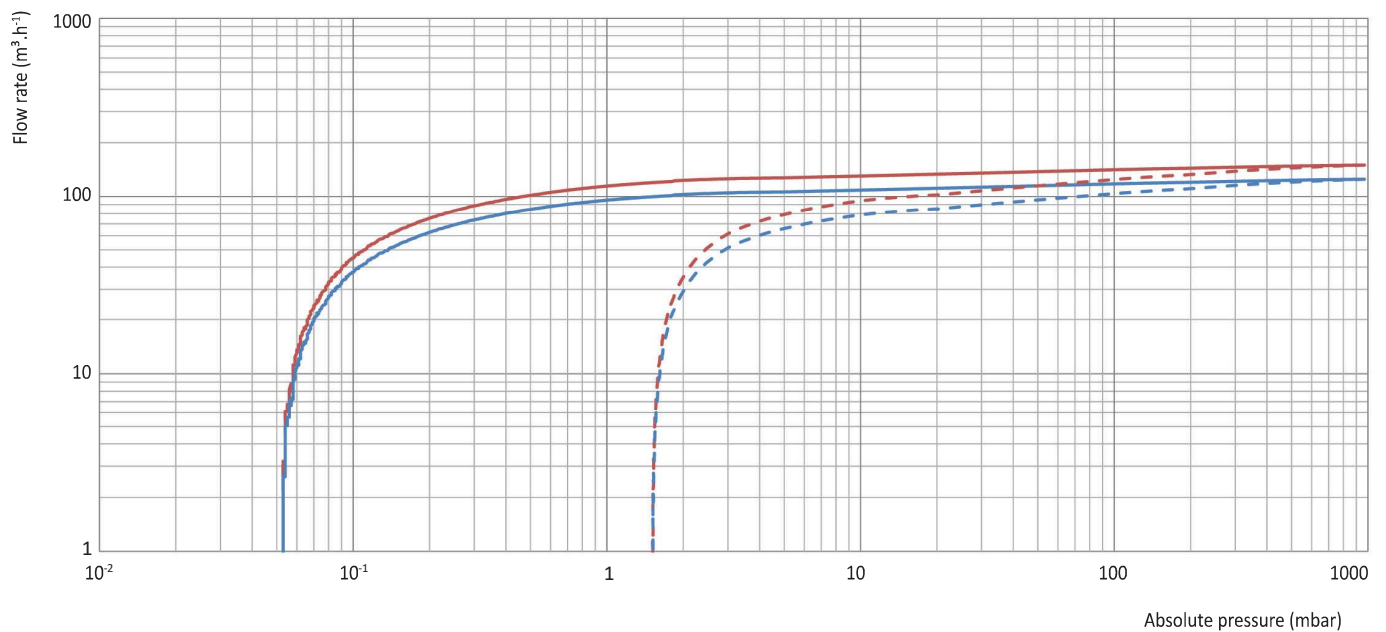
**4** Elevated base frame for 2 pumps

# Lubricated rotary vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves



— 60 Hz - without gas ballast  
— 50 Hz - without gas ballast

--- 60 Hz - with opened gas ballast  
--- 50 Hz - with opened gas ballast