



EVISA E40.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

Technical characteristics

			50 Hz	60 Hz
Nominal flow rate m ³ .h ⁻¹ - cfm			44 - 25,9	53 - 31,2
PNEUROP pumping speed ⁽¹⁾ m ³ .h ⁻¹ - cfm			42 - 24,7	50 - 29,4
Pumping speed at 1 mbar inlet pressure ⁽¹⁾ m ³ .h ⁻¹ - cfm			30 - 17,6	34 - 20
E40.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 1,5 rotation	End vacuum mbar - torr	≤ 6.10 ⁻¹ - 4.5.10 ⁻¹	≤ 6.10 ⁻¹ - 4,5.10 ⁻¹
		Water vapor permitted maximum pressure mbar - torr	13,6 - 10,2	18,4 - 13,8
		Water vapor capacity kg.h ⁻¹	0,34	0,53
	Fully opened gas ballast	End vacuum mbar - torr	≤ 6 - 4,5	≤ 6 - 4,5
		Water vapor permitted maximum pressure mbar - torr	143 - 107	326 - 244
		Water vapor capacity kg.h ⁻¹	3,7	10,6
E40.R	Without gas ballast	End vacuum mbar - torr	≤ 2 - 1,5	≤ 2 - 1,5
	Fully opened gas ballast	End vacuum mbar - torr	≤ 3 - 2,2	≤ 3 - 2,2
		Water vapor permitted maximum pressure mbar - torr	107 - 80	233 - 174
		Water vapor capacity kg.h ⁻¹	2,7	7,5
100 % synthetic oil			MV99S	MV99S
Oil capacity l - qt			1- 1,1	1- 1,1
Noise level dB(A)			58	60

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

Versions

GEOGRAPHIC		EUROPE		ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
Electrical motor	Number of phases	1	3	3	3	3	3
	Voltage V	230	230 / 400	220 / 380	190 / 380	208-230/460	200 / 380
	Period Hz	50	50	50 / 60	50	60	50/ 60
	Motor power	1,10 kW	1,10 kW	1,10 / 1,32 kW	1,10 kW	2 HP	1,10 / 1,32 kW
	Rotation speed min^{-1}	1500	1500	1500/1800	1500	1800	1500/1800
Inlet connection ⁽²⁾		1" BSP	1" BSP	1" BSP	1" NPT	1" NPT	1" BSP
Outlet connection ⁽³⁾		1" BSP	1" BSP	1" BSP	1" NPT	1" NPT	1" BSP
Weight with oil kg - lb		35,5 - 78,3	34,3 - 75,6	34,3 - 75,6	35 - 77,2	35 - 77,2	35 - 77,2

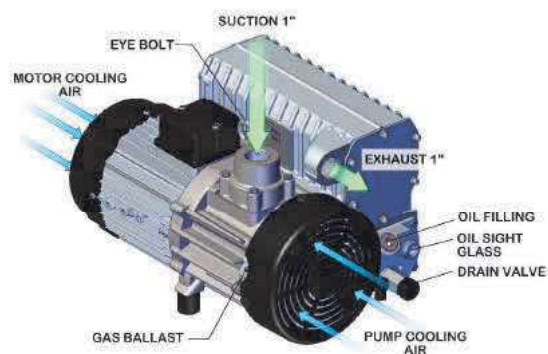
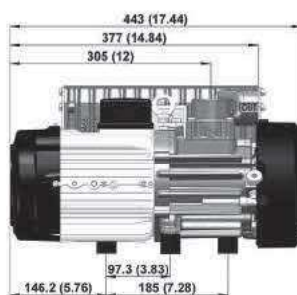
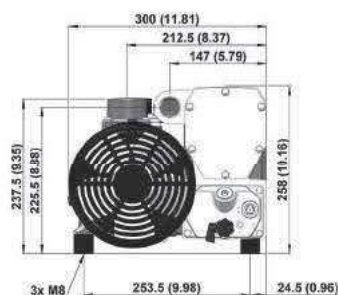
⁽²⁾ DN 40 ISO-KF adaptation flange can be supplied, see accessories

⁽³⁾ DN 25 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

	E40.R HV		E40.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 1ph, 230V-50Hz	824180	824182	824184	824186
EUROPE / ASIA 3ph, 230/400V-50Hz, 220/380V-50/60Hz	824093	824188	824092	824190
SOUTH AMERICA / USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824095	824192	824194	824196
JAPAN 3ph, 200/380V-50/60Hz	824097	824198	824200	824202

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" BSP - DN25KF		625019	

Maintenance kits

3 000 hour usual maintenance
with silicone o'ring for oil mist filter **724572**

3 000 hour usual maintenance
with viton o'ring for oil mist filter **724573**

12 000 hour preventive maintenance **724574**



3 000 hour usual maintenance



12 000 hour preventive maintenance

Oxygen version maintenance available - Contact us

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Accessories and Options

Additional rubber foot		625169	
1	Oil Level Safety (OLS) with float	625020	
PT100 temperature sensor		625021	
NC bimetal temperature safety - opening at 120°C - Max 24V		625022	
2	1" BSP suction filter	Paper cartridge	714975
	Type 100	Polyester cartridge	714976
		Carbon cartridge	714977
Ø63 vacuum gauge fitted on filter		617536	
1" BSP polyester/carbon double filtration 100PO + 100CH		625023	
Adjusting valve fitted on T-square MF 1" BSP		714979	
3	Liquid trap 100 48 m³.h ⁻¹ 1" BSP	Aluminium head / plexiglass cylinder / without mechanical float	724793
		Aluminium head / plexiglass cylinder / with mechanical float	724794
		Aluminium head / Pyrex cylinder / without mechanical float	724807
		Aluminium head / Pyrex cylinder / with mechanical float	724808
		Stainless steel head / Pyrex cylinder / without mechanical float	724795
		Stainless steel head / Pyrex cylinder / with mechanical float	724796
		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" BSP		618265	
Vacuum hose (1 m) MF 1" BSP		617372	
Vacuum hose (1,5 m) MF 1" BSP		618266	
Vacuum hose (2 m) MF 1" BSP		616179	
Suction hose (1m) MM 1" with no return valve		714980	
No return valve MF 1" BSP		618457	
Base frame assembly height 150 mm		625012	
4	Elevated base frame (H=525 mm)	For 1 pump	625013
		For 2 pumps	625014
		For 3 pumps	625015
Direct starter (wall mounting)	Without regulation contact 3-ph 400V + E	770496	
	Without regulation contact 1-ph 230V + E	770504	
	With regulation contact LG7 3-ph 400V + N + E	710423	
	With regulation contact LG7 1-ph 230V + E	710435	
	With regulation contact LG7 + OLS Timer 3-ph 400V + N + E	724570	
With regulation contact LG7 + OLS Timer 1-ph 230V + E		724571	
Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E		724580	
Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E		724581	
Electrical cable (3m) with ON/OFF switch -1-ph 230V + E		625016	
Direct starter support for base fixation		625017	



1 Oil Level Safety



2 suction filter
type 100



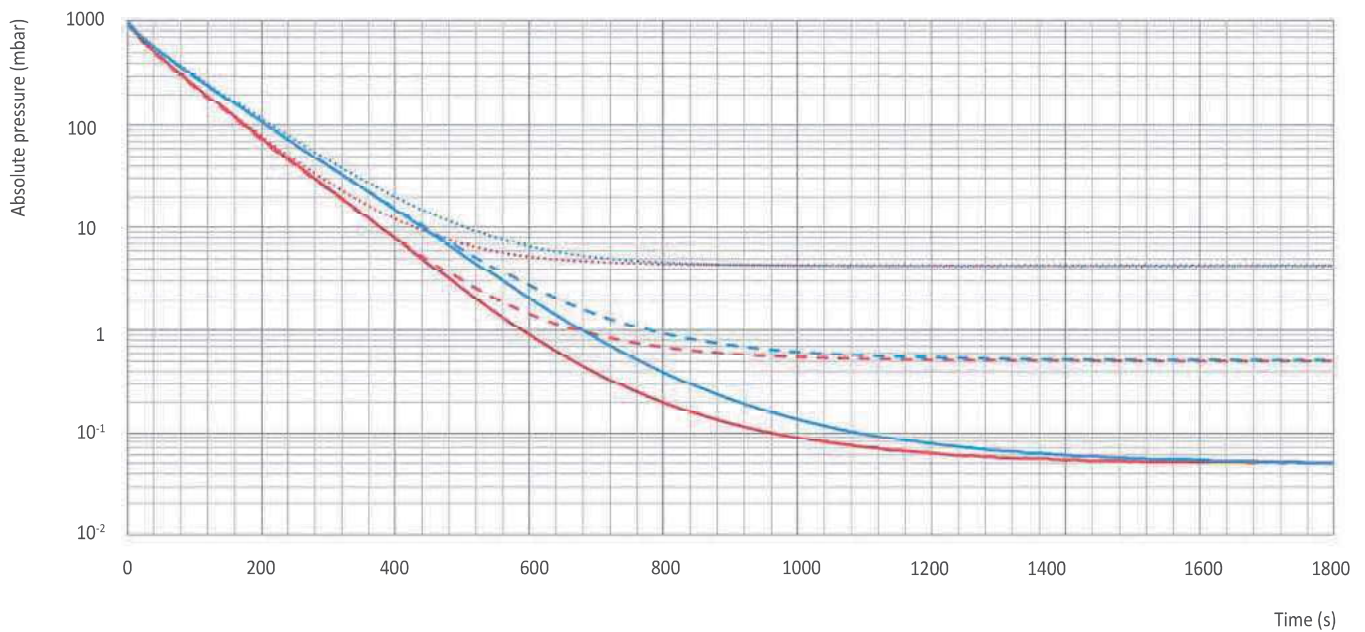
3 Liquid trap 100
with mechanical
stop and
optional bottle



4 Elevated base frame
for 2 pumps

Lubricated rotary vane vacuum pumps

Pumping speed on 1000 l vessel



Performance curves

