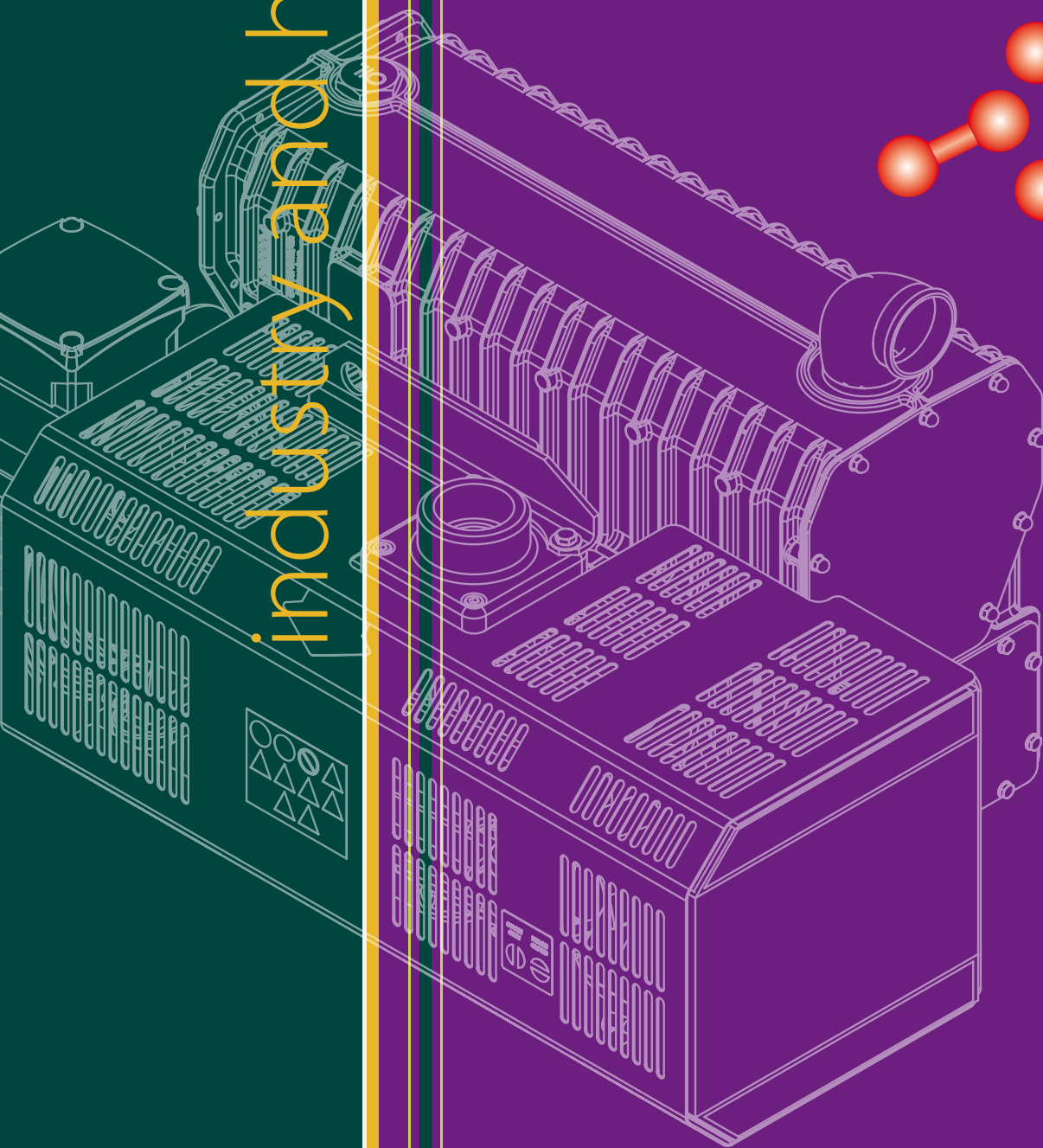


industry and healthcare

# MIL'S, vacuum pumps



Since 1926

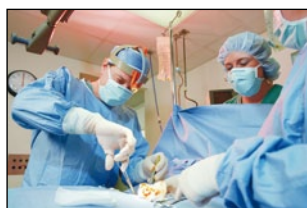


Selection tool	2
EVISA E17.3	4
EVISA E25.3	8
EVISA E40.3	12
EVISA E65.3	16
EVISA E100.3	20
EVISA E150.R	24
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EVISA E350.3	36
EVISA E400.3	40
EVISA E500.3	44
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General conditions of sale and guarantee - Sales contract	52



50 Hz	EVISA E17.3	EVISA E25.3	EVISA E40.3	EVISA E65.3	EVISA E100.3
Nominal air flow rate	19.2 m <sup>3</sup> .h <sup>-1</sup> 11.3 cfm	30 m <sup>3</sup> .h <sup>-1</sup> 17.7 cfm	47.7 m <sup>3</sup> .h <sup>-1</sup> 28.1 cfm	64.3 m <sup>3</sup> .h <sup>-1</sup> 37.8 cfm	96 m <sup>3</sup> .h <sup>-1</sup> 56.5 cfm
End vacuum - without gas ballast	≤ 5.10 <sup>-1</sup> mbar ≤ 0.38 torr	≤ 5.10 <sup>-1</sup> mbar ≤ 0.38 torr	≤ 5.10 <sup>-1</sup> mbar ≤ 0.38 torr	≤ 1,5.10 <sup>-1</sup> mbar ≤ 0.11 torr	≤ 1,5.10 <sup>-1</sup> mbar ≤ 0.11 torr
Motor voltage 1-ph	N.A.	0.75 kW	1.1 kW	N.A.	N.A.
Motor voltage 3-ph	0.55 kW	0.75 kW	1.1 kW	1.5 kW	2.2 kW
Special version : ATEX type	N.A.	N.A.	N.A.	ATEX	ATEX
Special version : OXYGEN type	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN

60 Hz	EVISA E17.3	EVISA E25.3	EVISA E40.3	EVISA E65.3	EVISA E100.3
Nominal air flow rate	23 m <sup>3</sup> .h <sup>-1</sup> 13.5 cfm	35.3 m <sup>3</sup> .h <sup>-1</sup> 20.8 cfm	57.2 m <sup>3</sup> .h <sup>-1</sup> 33.7 cfm	77.2 m <sup>3</sup> .h <sup>-1</sup> 45.4 cfm	115 m <sup>3</sup> .h <sup>-1</sup> 67.7 cfm
End vacuum - without gas ballast	≤ 5.10 <sup>-1</sup> mbar ≤ 0.38 torr	≤ 5.10 <sup>-1</sup> mbar ≤ 0.38 torr	≤ 5.10 <sup>-1</sup> mbar ≤ 0.38 torr	≤ 1,5.10 <sup>-1</sup> mbar ≤ 0.11 torr	≤ 1,5.10 <sup>-1</sup> mbar ≤ 0.11 torr
Motor voltage 1-ph	N.A.	0.86 kW 1.5 hp	1.27 kW 2 hp	N.A.	N.A.
Motor voltage 3-ph	0.63 kW 1 hp	0.86 kW 1.5 hp	1.27 kW 2 hp	1.7 kW 3 hp	2.5 kW 5 hp
Special version : ATEX type	N.A.	N.A.	N.A.	ATEX	ATEX
Special version : OXYGEN type	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN



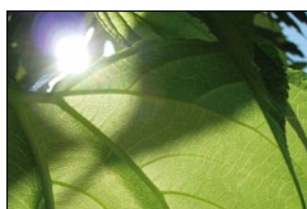
## HEALTHCARE

- Surgery
- Obstetrics
- Anaesthesia, resuscitation



## CHEMICAL AND PHARMACEUTICAL INDUSTRIES

- Degasing
- Distillation
- Drying and freeze drying
- Packaging



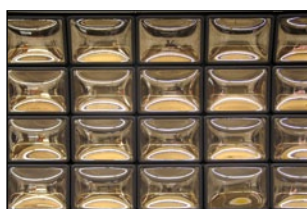
## ENVIRONMENTAL ENGINEERING

- Automotive fluid pumping
- Filtering
- Sewage pumping
- Solvent recovery
- Vacuum priming



## GENERAL PURPOSE

- Central vacuum supply
- Leak detection
- Packaging
- Picking and handling
- Pneumatic conveying



## GLASS INDUSTRY

- Coating
- Forming

## MIL'S : made in

MIL'S is designing, developing and producing vacuum pumps and blowers.

Our production of vacuum systems have already been installed in hundreds of sites all over the world for industrial applications as well as in the Healthcare sector.

Our technologies (lubricated rotary vane pumps, oil-less vacuum pumps, blowers, roots) allow us to answer to any requirement of vacuum solutions for Industry or

EVISA E150.R	EVISA E200.R	EVISA E300.R	EVISA E350.3	EVISA E400.3	EVISA E500.3	EVISA E600.3
132 m <sup>3</sup> .h <sup>-1</sup> 77.7 cfm	198 m <sup>3</sup> .h <sup>-1</sup> 116.5 cfm	293 m <sup>3</sup> .h <sup>-1</sup> 172 cfm	360 m <sup>3</sup> .h <sup>-1</sup> 211.9 cfm	426 m <sup>3</sup> .h <sup>-1</sup> 250.7 cfm	513 m <sup>3</sup> .h <sup>-1</sup> 302 cfm	634.9 m <sup>3</sup> .h <sup>-1</sup> 373.7 cfm
≤ 6.10 <sup>-2</sup> mbar ≤ 0.045 torr	≤ 6.10 <sup>-2</sup> mbar ≤ 0.045 torr	≤ 6.10 <sup>-2</sup> mbar ≤ 0.045 torr	≤ 1.10 <sup>-1</sup> mbar ≤ 0.08 torr	≤ 1.10 <sup>-1</sup> mbar ≤ 0.08 torr	≤ 1.10 <sup>-1</sup> mbar ≤ 0.08 torr	≤ 1.10 <sup>-1</sup> mbar ≤ 0.08 torr
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
3 kW	4 kW	5.5 kW	7.5 kW	9 kW	11 kW	15 kW
ATEX	ATEX	ATEX	N.A.	N.A.	N.A.	N.A.
OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN

EVISA E150.R	EVISA E200.R	EVISA E300.R	EVISA E350.3	EVISA E400.3	EVISA E500.3	EVISA E600.3
156 m <sup>3</sup> .h <sup>-1</sup> 91.8 cfm	240 m <sup>3</sup> .h <sup>-1</sup> 141.3 cfm	354 m <sup>3</sup> .h <sup>-1</sup> 208 cfm	432 m <sup>3</sup> .h <sup>-1</sup> 254.3 cfm	511 m <sup>3</sup> .h <sup>-1</sup> 300.8 cfm	616 m <sup>3</sup> .h <sup>-1</sup> 362.6 cfm	769.2 m <sup>3</sup> .h <sup>-1</sup> 452.8 cfm
≤ 6.10 <sup>-2</sup> mbar ≤ 0.045 torr	≤ 6.10 <sup>-2</sup> mbar ≤ 0.045 torr	≤ 6.10 <sup>-2</sup> mbar ≤ 0.045 torr	≤ 1.10 <sup>-1</sup> mbar ≤ 0.08 torr	≤ 1.10 <sup>-1</sup> mbar ≤ 0.08 torr	≤ 1.10 <sup>-1</sup> mbar ≤ 0.08 torr	≤ 1.10 <sup>-1</sup> mbar ≤ 0.08 torr
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
3.5 kW 5 hp	4.8 kW 7.5 hp	6.6 kW 10 hp	9 kW 15 hp	11 kW 15 hp	13.2 kW 20 hp	17 kW 25 hp
ATEX	ATEX	ATEX	N.A.	N.A.	N.A.	N.A.
OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN

## France since 1926.

Healthcare.

90 persons are employed on two production sites in the region of LYON and in a sales office in the region of Paris. MIL'S operates over 15000 sq.m of manufacturing floor space.

MIL'S is ISO 9001, ISO 14001 and ISO13485 certified and answers to all quality criterias of a modern producer.

### PACKAGING

- Evacuation
- Filling and closing machines
- Labelling, vacuum packaging
- Pneumatic conveying



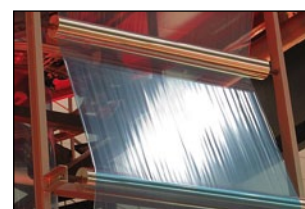
### FOOD AND BEVERAGE INDUSTRY

- Cutter, filling or tumbler machines
- Freeze drying
- Lyophilisation
- Poultry processing
- Vacuum packaging, mixing



### PLASTIC AND COMPOSITE INDUSTRIES

- Degasing
- Pneumatic conveying
- Resin transfer
- Vacuum bagging



### SOLAR AND ENERGY INDUSTRIES

- Coating
- Handling
- Lamination
- Oil degasing
- Power engineering



### WOOD INDUSTRY

- Coating, bonding
- Holding and lifting
- Impregnation



Specifications are subject to be changed without notice



# EVISA E17.3 HV



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.

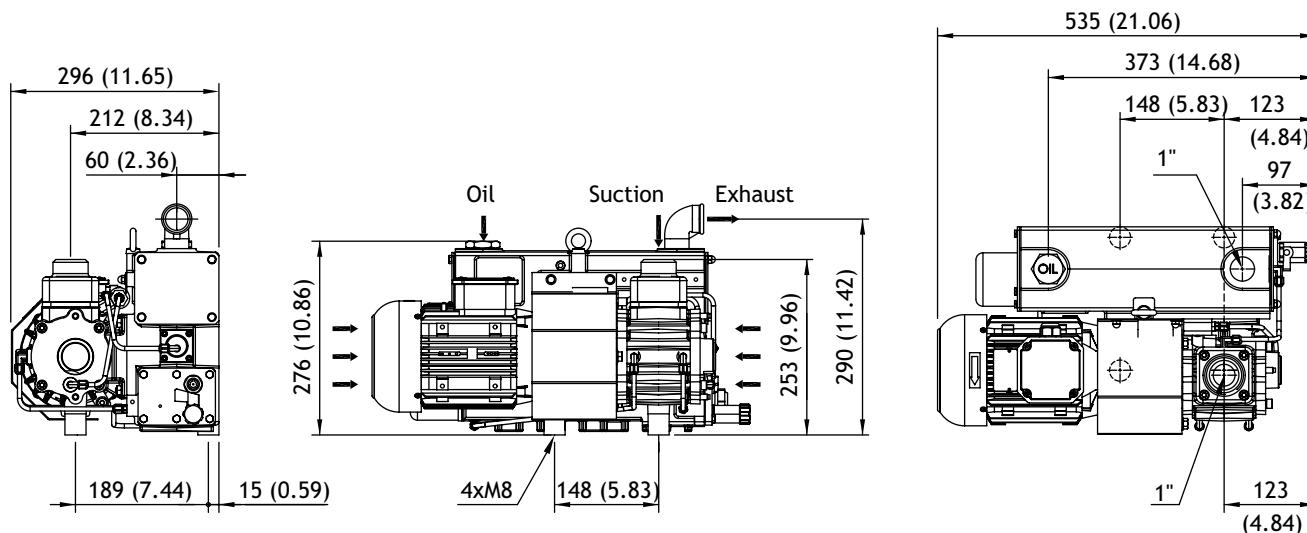
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $5 \cdot 10^{-1}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	19.2 m³.h⁻¹	11.3 cfm	23 m³.h⁻¹	13.5 cfm
Pumping speed *	18 m³.h⁻¹	10.6 cfm	21.6 m³.h⁻¹	12.7 cfm
Pumping speed at 1 mbar inlet pressure *	6.3 m³.h⁻¹	3.7 cfm	7.5 m³.h⁻¹	4.4 cfm
End vacuum - without gas ballast	≤ 5.10 <sup>-1</sup> mbar		≤ 0.38 torr	
End vacuum - with opened gas ballast	≤ 2 mbar		≤ 1.5 torr	
Water vapor permitted maximum pressure *	26.4 mbar		22.1 mbar	
Water vapor capacity *	0.28 kg.h <sup>-1</sup>			
Oil type	MV99S synthetic oil			
Oil capacity	1.5 l			
Noise level	59 dB(A)		61 dB(A)	
Motor voltage	3 ph	230/400V Δ/Y		265/460V Δ/Y
Motor power		0.55 kW		0.63 kW 1 hp
Rotation speed	920 rpm		1100 rpm	
Motor version	IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection	1"			
Outlet connection	1"			
Weight with oil	36 kg		79.4 lb	

\* Measurements according to PNEUROP 6602 specifications - 20 °C

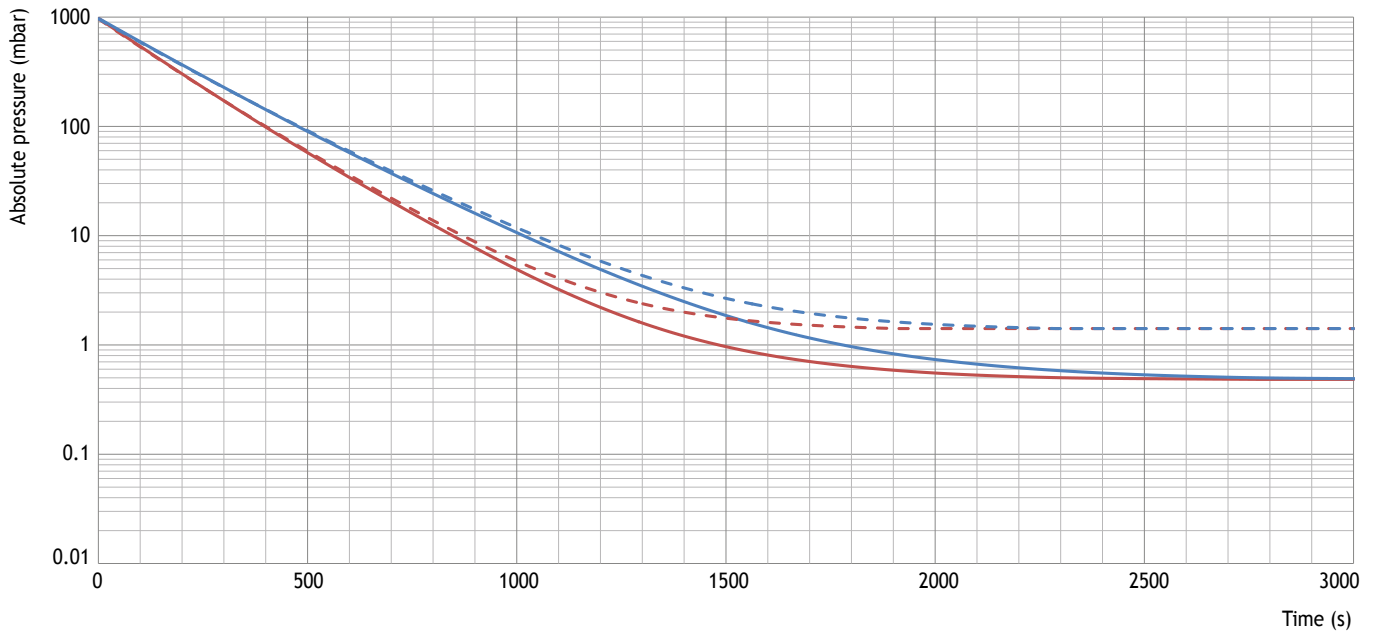
## Dimensions : mm (inch)



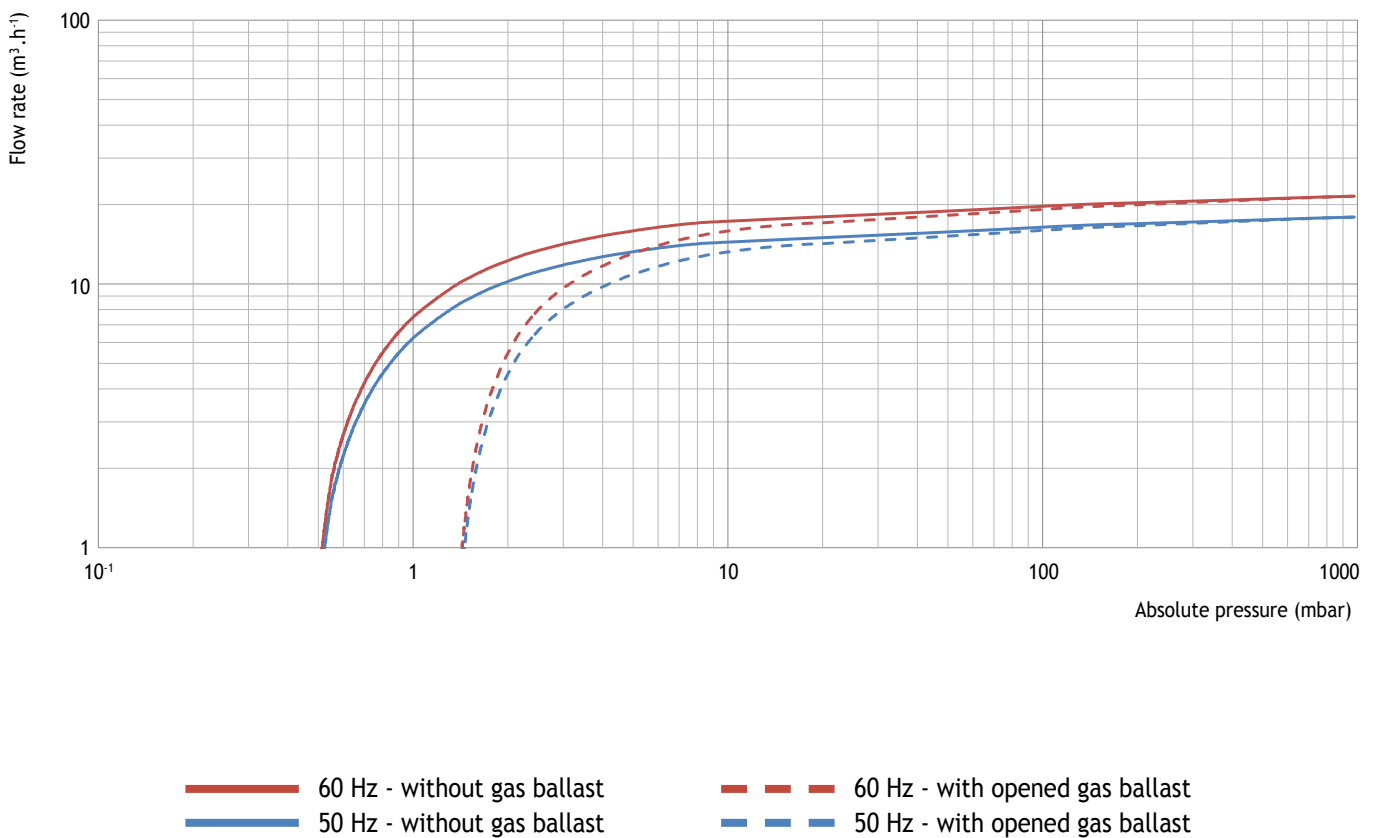
Specifications are subject to be changed without notice

# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves


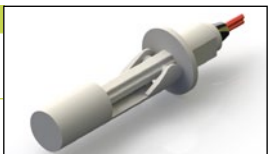




## Pump references

	EVISA E17.3
<b>HV type</b> for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	<b>821150</b>
<b>MV type</b> with end vacuum 3 mbar for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	<b>816676</b>

*The pumps are delivered with the amount of oil required for their operation.*

## Accessory and option references

		EVISA E17.3
<b>1</b> Gas ballast		<b>1</b> Gas ballast for condensable vapor pumping <b>770800</b>
<b>2</b> Oil level safety		<b>2</b> Oil level safety with float Timer box for oil level safety base mounting <b>616111</b>
<b>3</b> 76 type suction filter		Oil level safety and temperature indicator with bimetal thermostat NC opening at 120° C <b>623315</b> PT100 temperature sensor + temperature display <b>618255</b>
<b>4</b> Liquid trap 1NG with mechanical float and optional bottle		<b>3</b> Vacuum-tight suction filter 3/4" - 76 type right-angle filter paper cartridge polyester cartridge carbon cartridge <b>715347</b> <b>715348</b> <b>715349</b> Vacuum meter fitted on filter <b>617536</b> Double suction filtration 2 x 76PA with paper cartridges <b>670613</b> Polyester/carbon double filtration 76PO + 76CH with polyester and carbon cartridges <b>670616</b> plexiglas cylinder / without float <b>613589</b> plexiglas cylinder / with float <b>713590</b> plexiglas cylinder / with float with stainless steel head <b>721629</b> pyrex cylinder / without float <b>717757</b> pyrex cylinder / with float <b>713099</b> optional pyrex bottle 250 cc under trap <b>615441</b> optional pyrex bottle 500 cc under trap <b>615442</b> optional pyrex bottle 1000 cc under trap <b>615443</b> Electro-pneumatic automatic drain with control board <b>816002</b> Electrical automatic drain with control board <b>816003</b> Adjusting valve fitted on T-square (without filter) <b>713840</b>



# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket	720341
3 000 hour usual maintenance with cartridge VITON gasket	718374
12 000 hour preventive maintenance	615484
Gasket set	616441

12 000 hour  
preventive  
maintenance



## Accessory and option references

5  
Elevated  
base frame  
for 2 pumps



		EVISA E17.3
Base frame assembly height 150 mm		670804
5 Elevated base frame height 525 mm	for 1 pump	617610
	for 2 pumps	619543
	for 3 pumps	619546
Control board with FLEXO solenoid valve 400V+N for pre-heating and rinsing cycle		716774
Control board with FLEXO solenoid valve 400V+N for rinsing cycle		716775
Direct starter	without control panel 3-ph 400V	770495
	without control panel 3-ph 230V	770496
	with LG7 start and stop system 3-ph 400V	710422
	with LG7 start and stop system 3-ph 230V	710430
Suction hose with non-return valve (1 meter)		770151
Special vacuum hose (0.6 m) FF3/4"		606086
Special vacuum hose (1 m) FF3/4"		604422
Special vacuum hose (1.5 m) FF3/4"		618264
Special vacuum hose (2 m) FF3/4"		616085
Special vacuum hose (3 m) FF3/4"		670010
Special vacuum hose (4 m) FF3/4"		618131

# EVISA E25.3 HV



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.

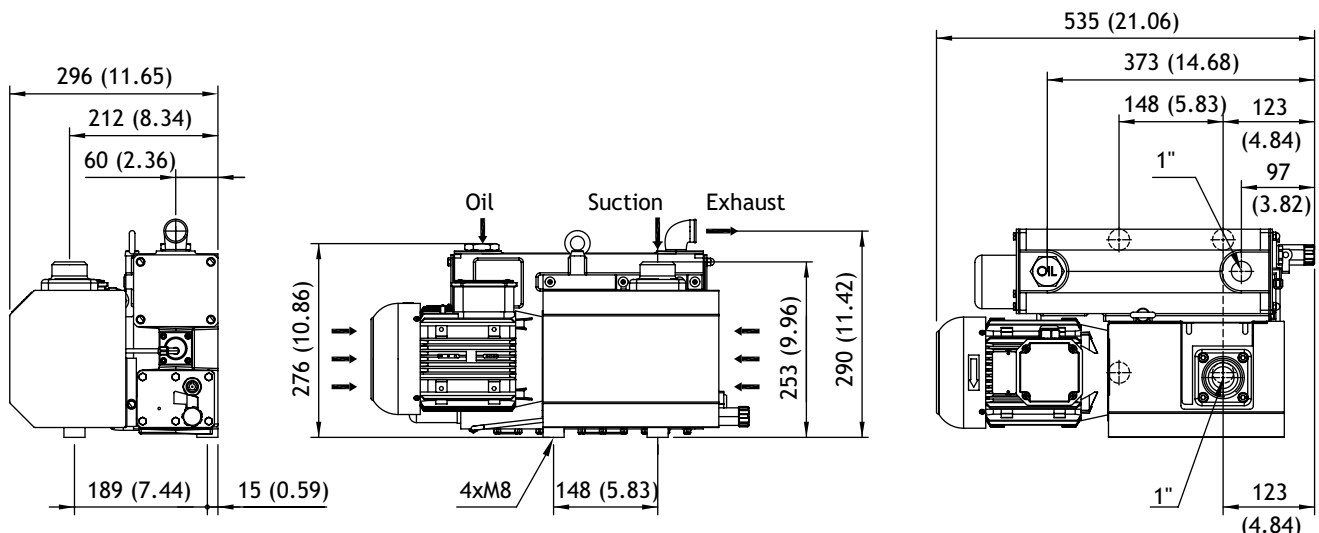
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $5 \cdot 10^{-1}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	30 m³.h⁻¹	17.7 cfm	35.3 m³.h⁻¹	20.8 cfm
Pumping speed *	28 m³.h⁻¹	16.5 cfm	33.6 m³.h⁻¹	19.8 cfm
Pumping speed at 1 mbar inlet pressure *	9.8 m³.h⁻¹	5.8 cfm	11.7 m³.h⁻¹	6.9 cfm
End vacuum - without gas ballast	≤ 5.10 <sup>-1</sup> mbar		≤ 0.38 torr	
End vacuum - with opened gas ballast	≤ 2 mbar		≤ 1.5 torr	
Water vapor permitted maximum pressure *	16.9 mbar		14.4 mbar	
Water vapor capacity *	0.27 kg.h <sup>-1</sup>			
Oil type	MV99S synthetic oil			
Oil capacity	1.5 l			
Noise level	60 dB(A)		62 dB(A)	
Motor voltage	3 ph	230/400V Δ/Y	265/460V Δ/Y	
	1 ph	230V	265V	
Motor power	0.75 kW		0.86 kW	1.5 hp
Rotation speed	1435 rpm		1690 rpm	
Motor version	IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection	1"			
Outlet connection	1"			
Weight with oil	39 kg		86 lb	

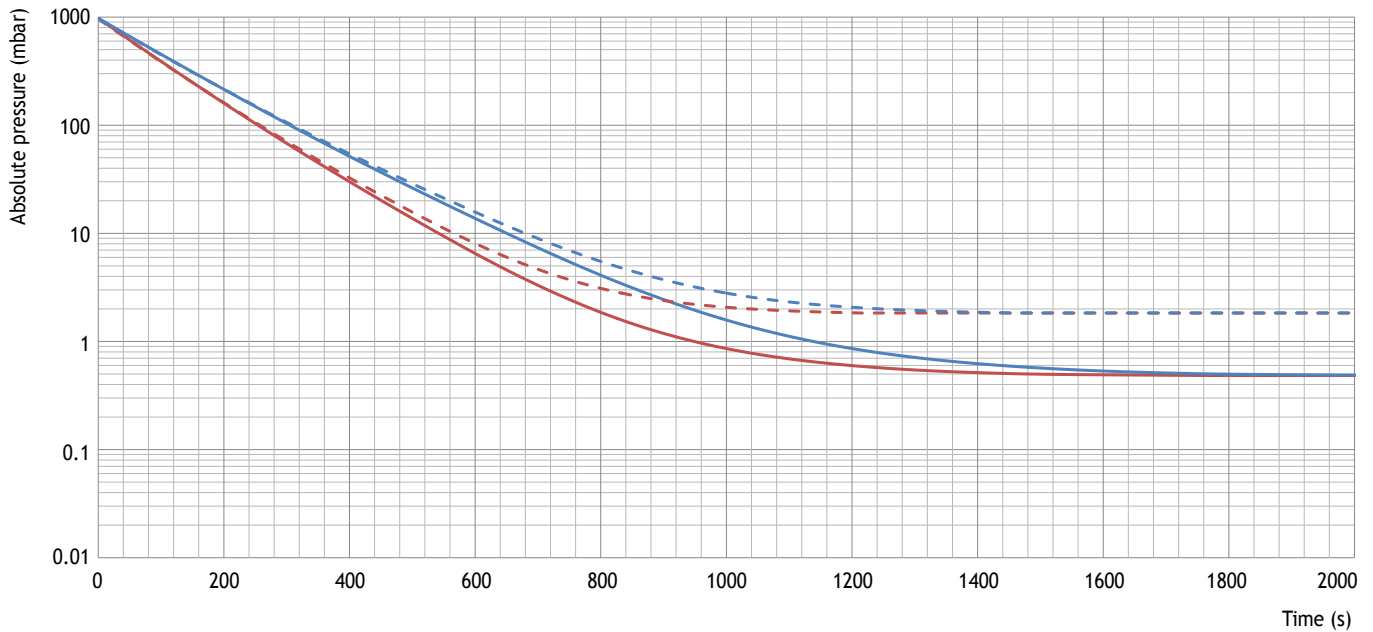
\* Measurements according to PNEUROP 6602 specifications - 20 °C

## Dimensions : mm (inch)

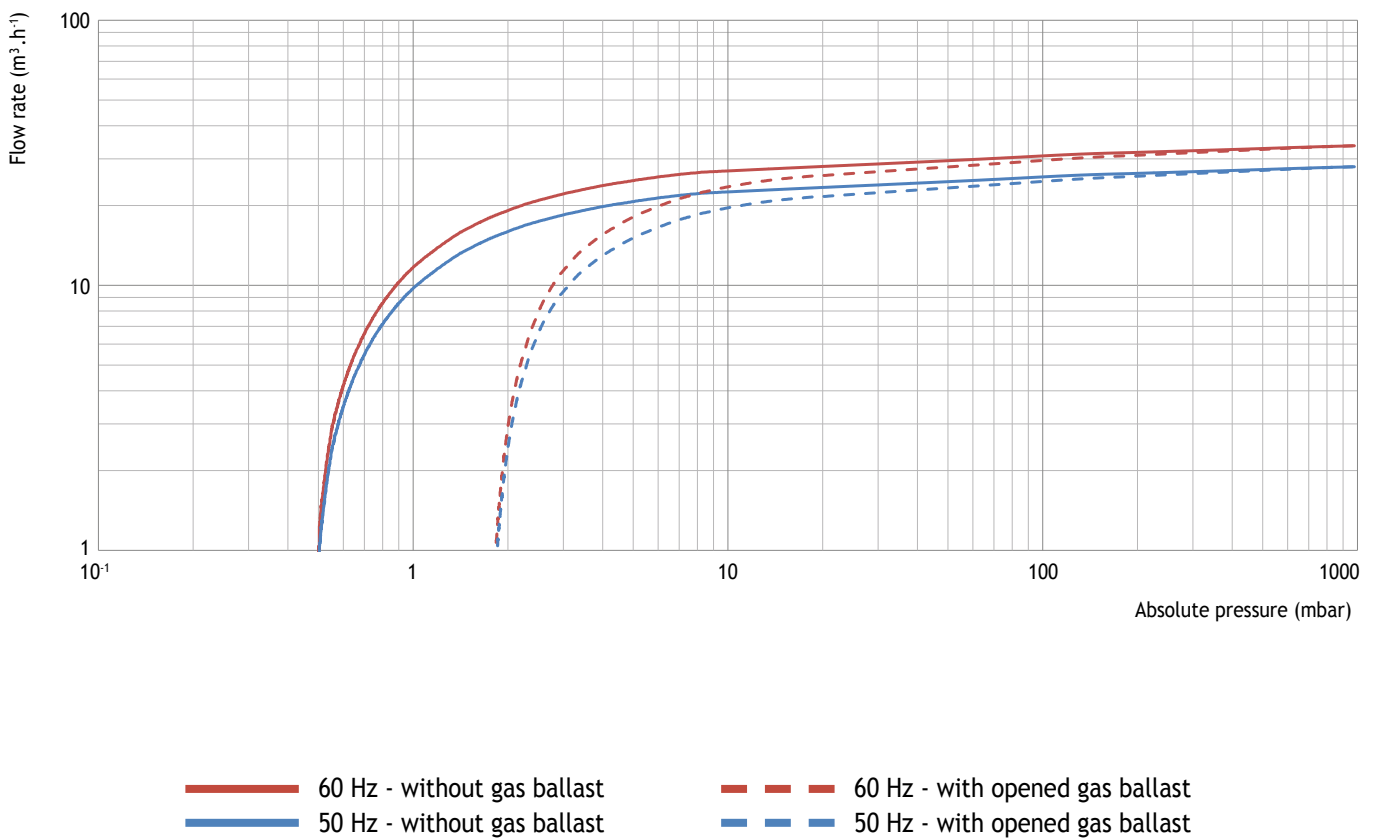


# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves


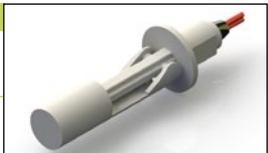




## Pump references

	EVISA E25.3
<b>HV type</b> for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	821151
<b>HV type</b> for 1-ph 230V 50Hz or 1-ph 265V 60Hz supply	821148
<b>HV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	821158
<b>HV type</b> with motor 0.87 kW for 3-ph 220/380V 60Hz supply	823858
<b>MV type</b> with end vacuum 3 mbar for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	814007
<b>MV type</b> for 1-ph 230V 50Hz or 1-ph 265V 60Hz supply	815178
<b>MV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	815923
<b>MV type</b> with motor 0.87 kW for 3-ph 220/380V 60Hz supply	822193

The pumps are delivered with the amount of oil required for their operation.

## Accessory and option references

	EVISA E25.3
<div>1</div> <div>Gas ballast</div> 	<div>1 Gas ballast</div> <div>for condensable vapor pumping</div> <div>770800</div>
<div>2</div> <div>Oil level safety</div> 	<div>2 Oil level safety with float</div> <div>616111</div>
<div>3</div> <div>76 type suction filter</div> 	<div>Timer box for oil level safety</div> <div>base mounting</div> <div>670810</div>
<div>4</div> <div>Liquid trap 1NG with mechanical float and optional bottle</div> 	<div>Oil level safety and temperature indicator</div> <div>with bimetal thermostat NC opening at 120° C</div> <div>623315</div>
	<div>PT100 temperature sensor + temperature display</div> <div>618255</div>
	<div>3 Vacuum-tight suction</div> <div>filter 3/4" - 76 type</div> <div>right-angle filter</div> <div>paper cartridge</div> <div>polyester cartridge</div> <div>carbon cartridge</div> <div>715347</div> <div>715348</div> <div>715349</div>
	<div>Vacuum meter fitted on filter</div> <div>617536</div>
	<div>Double suction filtration 2 x 76PA</div> <div>with paper cartridges</div> <div>670613</div>
	<div>Polyester/carbon double filtration 76PO + 76CH</div> <div>with polyester and carbon cartridges</div> <div>670616</div>
	<div>Additional exhaust filter</div> <div>618259</div>
	<div>plexiglas cylinder / without float</div> <div>613589</div>
	<div>plexiglas cylinder / with float</div> <div>713590</div>
	<div>plexiglas cylinder / with float</div> <div>with stainless steel head</div> <div>721629</div>
	<div>pyrex cylinder / without float</div> <div>717757</div>
	<div>pyrex cylinder / with float</div> <div>713099</div>
	<div>optional pyrex bottle 250 cc under trap</div> <div>615441</div>
	<div>optional pyrex bottle 500 cc under trap</div> <div>615442</div>
	<div>optional pyrex bottle 1000 cc under trap</div> <div>615443</div>
	<div>Electro-pneumatic automatic drain</div> <div>with control board</div> <div>816002</div>
	<div>Electrical automatic drain</div> <div>with control board</div> <div>816003</div>
	<div>Adjusting valve fitted on T-square (without filter)</div> <div>713840</div>

# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



12 000 hour  
preventive  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket		720341
3 000 hour usual maintenance with cartridge VITON gasket		718374
12 000 hour preventive maintenance		615484
Gasket set		616441
3 000 hour usual maintenance	OXYGEN	723244
12 000 hour preventive maintenance	OXYGEN	724094

## Accessory and option references

5  
Elevated  
base frame  
for 2 pumps



		EVISA E25.3
Base frame assembly height 150 mm		670804
5 Elevated base frame	for 1 pump	617610
	for 2 pumps	619543
	height 525 mm for 3 pumps	619546
Control board with FLEXO solenoid valve 400V+N for pre-heating and rinsing cycle		770811
Control board with FLEXO solenoid valve 400V+N for rinsing cycle		770818
Direct starter	without control panel 3-ph 400V	770495
	without control panel 3-ph 230V	770496
	without control panel 1-ph 230V	770503
	with LG7 start and stop system 3-ph 400V	710422
	with LG7 start and stop system 3-ph 230V	710430
	with LG7 start and stop system 1-ph 230V	710428
Suction hose with non-return valve (1 meter)		770151
Special vacuum hose (0.6 m) FF3/4"		606086
Special vacuum hose (1 m) FF3/4"		604422
Special vacuum hose (1.5 m) FF3/4"		618264
Special vacuum hose (2 m) FF3/4"		616085
Special vacuum hose (3 m) FF3/4"		670010
Special vacuum hose (4 m) FF3/4"		618131
Electrical cable (3 m) with an electric plug for 1-ph vacuum pump		363052

# EVISA E40.3 HV



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.

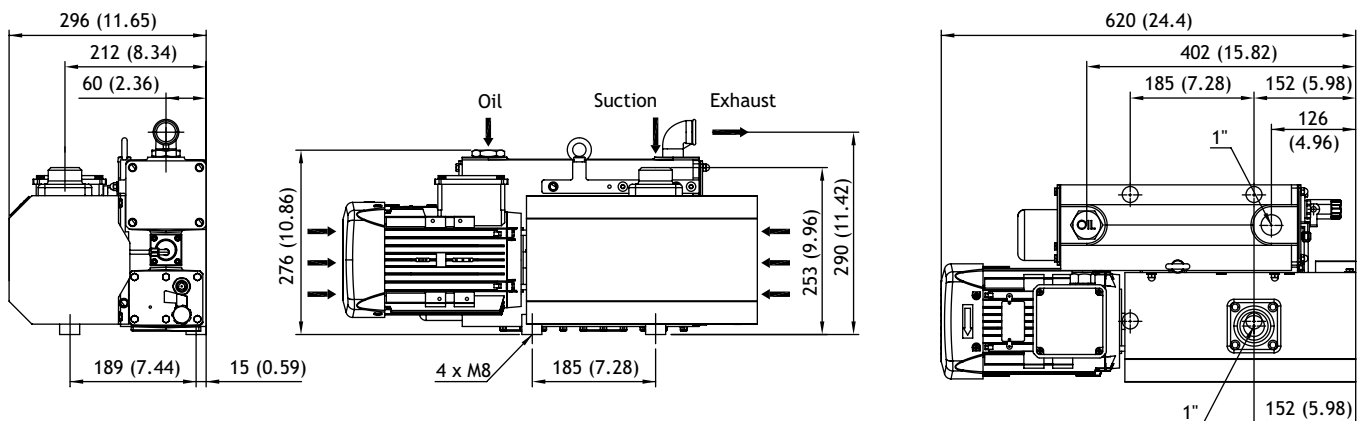
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $510^{-1}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

		50 Hz		60 Hz	
Nominal air flow rate		47.7 m³.h <sup>-1</sup>	28.1 cfm	57.2 m³.h <sup>-1</sup>	33.7 cfm
Pumping speed *		41.5 m³.h <sup>-1</sup>	24.4 cfm	49.8 m³.h <sup>-1</sup>	29.3 cfm
Pumping speed at 1 mbar inlet pressure *		14.4 m³.h <sup>-1</sup>	8.47 cfm	17.3 m³.h <sup>-1</sup>	10.18 cfm
End vacuum - without gas ballast		≤ 5.10 <sup>-1</sup> mbar		≤ 0.38 torr	
End vacuum - with opened gas ballast		≤ 1.5 mbar		≤ 1.13 torr	
Water vapor permitted maximum pressure *		10.6 mbar		8.9 mbar	
Water vapor capacity *		0.26 kg.h <sup>-1</sup>			
Oil type		MV99S synthetic oil			
Oil capacity		1.5 l			
Noise level		62 dB(A)		64 dB(A)	
Motor voltage	3 ph	230/400V Δ/Y		265/460V Δ/Y	
	1 ph	230V		265V	
Motor power		1.1 kW		1.27 kW	2 hp
Rotation speed		1430 rpm		1715 rpm	
Motor version		IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection		1"			
Outlet connection		1"			
Weight with oil		52 kg		115 lb	

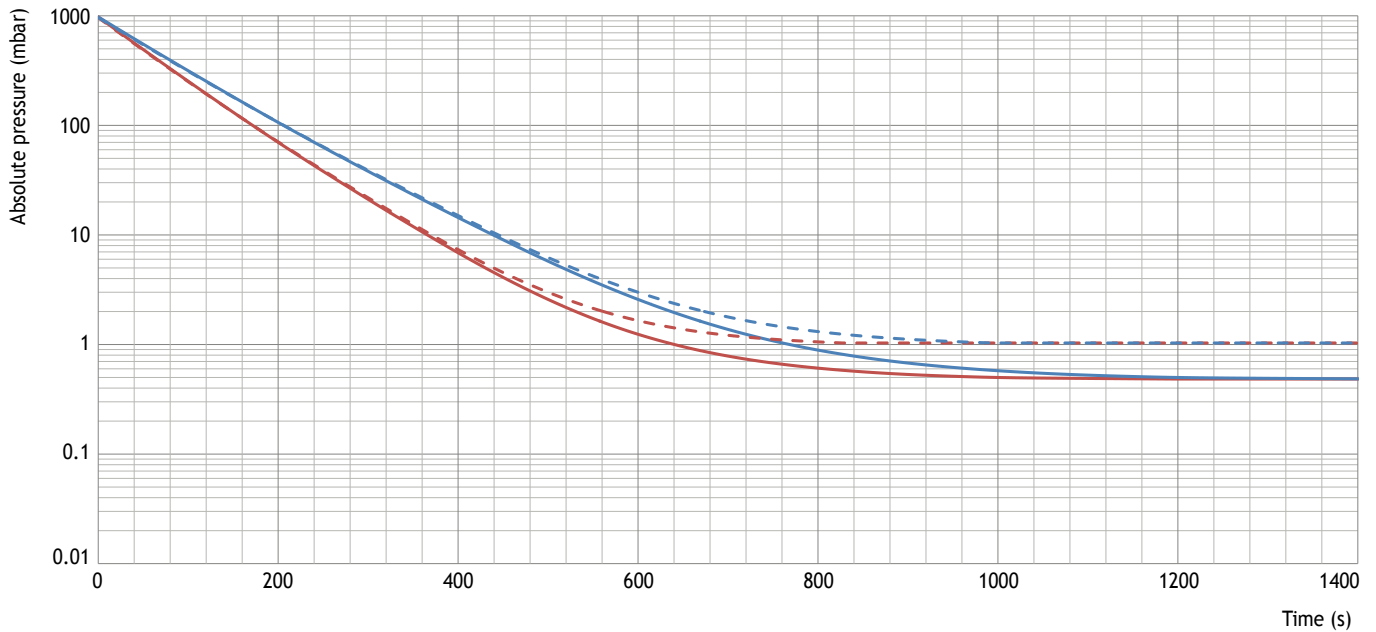
\* Measurements according to Pneurop 6602 specifications - 20 °C

## Dimensions : mm (inch)

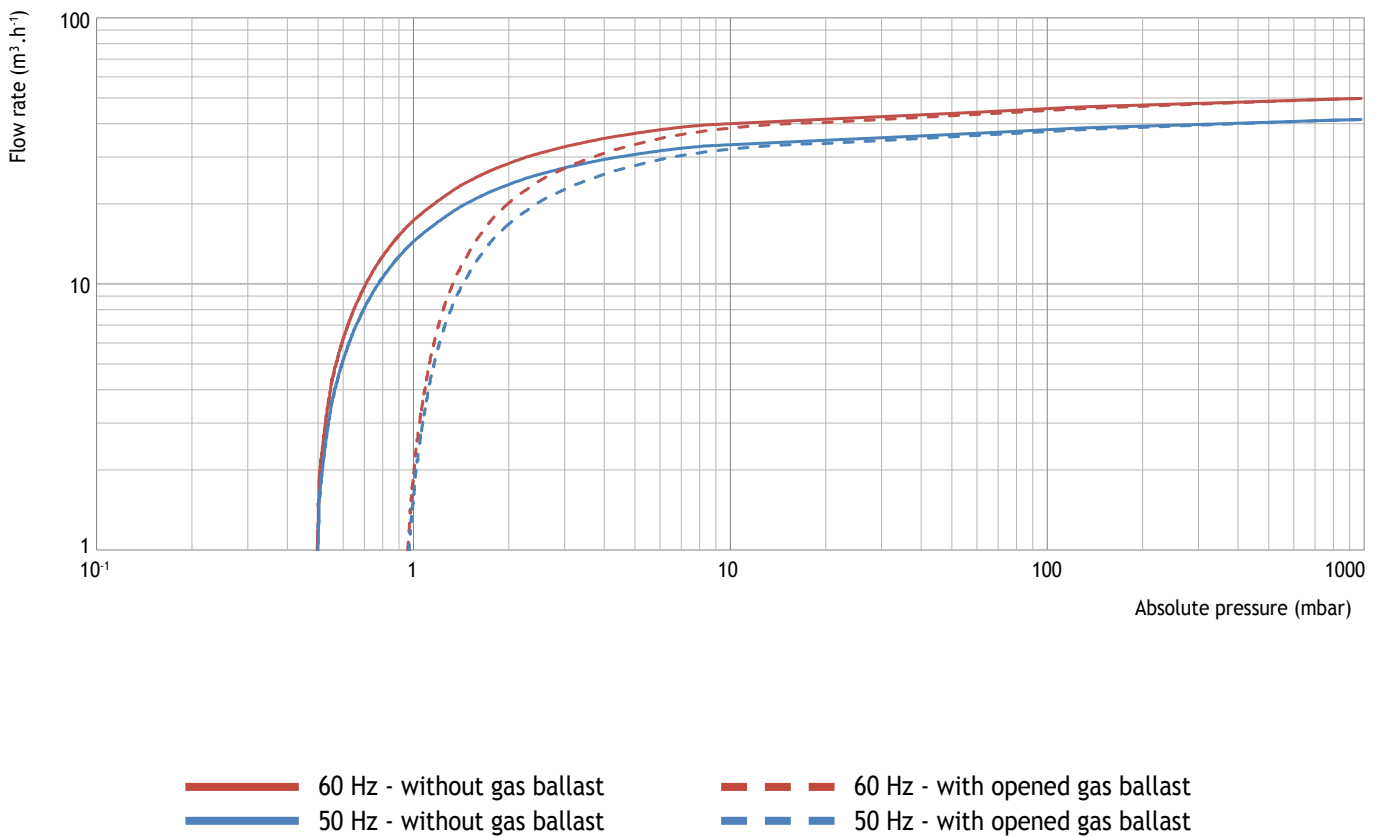




## Pumping speed on 1000 l vessel



## Performance curves


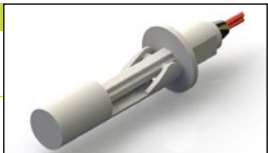




## Pump references

	EVISA E40.3
<b>HV type</b> for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	821152
<b>HV type</b> for 1-ph 230V 50Hz or 1-ph 265V 60Hz supply	821149
<b>HV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	821159
<b>HV type</b> with motor 1.2 kW for 3-ph 220/380V 60Hz supply	823859
<b>MV type</b> with end vacuum 3 mbar for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	814008
<b>MV type</b> for 1-ph 230V 50Hz or 1-ph 265V 60Hz supply	815179
<b>MV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	815900
<b>MV type</b> with motor 1.2 kW for 3-ph 220/380V 60Hz supply	823481

The pumps are delivered with the amount of oil required for their operation.

## Accessory and option references

	EVISA E40.3
<b>1</b> Gas ballast 	<b>1 Gas ballast</b> for condensable vapor pumping 770826
<b>2</b> Oil level safety 	<b>2 Oil level safety with float</b> 616111 <b>Timer box for oil level safety</b> base mounting 670810 <b>Oil level safety and temperature indicator</b> with bimetal thermostat NC opening at 120° C 623315 <b>PT100 temperature sensor + temperature display</b> 618255
<b>3</b> 100 type suction filter 	<b>3 Vacuum-tight suction</b> paper cartridge filter 1" - 100 type      polyester cartridge right-angle filter      carbon cartridge 714975 714976 714977 <b>Vacuum meter fitted on filter</b> 617536 <b>Double suction filtration 2 x 100PO</b> with polyester cartridges 622167 polycarbonate cylinder / without float 716600 polycarbonate cylinder / with float 716565 pyrex cylinder / without float 716601 pyrex cylinder / with float 716592
<b>4</b> Liquid trap 2NG with mechanical float and optional bottle 	<b>4 Liquid trap 2NG</b> 100 m <sup>3</sup> .h <sup>-1</sup> G1"1/4 optional pyrex bottle 250cc under trap 615441 optional pyrex bottle 500cc under trap 615442 optional pyrex bottle 1000cc under trap 615443 Electro-pneumatic automatic drain with control board 816002 Electrical automatic drain with control board 816003 <b>Adjusting valve fitted on T-square (without filter)</b> 714979

# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



12 000 hour  
preventive  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket		720341
3 000 hour usual maintenance with cartridge VITON gasket		718374
12 000 hour preventive maintenance		615485
Gasket set		616052
3 000 hour usual maintenance	OXYGEN	723244
12 000 hour preventive maintenance	OXYGEN	723891

## Accessory and option references

5  
Elevated  
base frame  
for 2 pumps



		EVISA E40.3
Base frame assembly height 150 mm		670804
5 Elevated base frame	for 1 pump	617610
	for 2 pumps	619543
	height 525 mm for 3 pumps	619546
Control board with FLEXO solenoid valve 400V+N for pre-heating and rinsing cycle		770812
Control board with FLEXO solenoid valve 400V+N for rinsing cycle		770819
Direct starter	without control panel 3-ph 400V	770496
	without control panel 3-ph 230V	770497
	without control panel 1-ph 230V	770504
	with LG7 start and stop system 3-ph 400V	710423
	with LG7 start and stop system 3-ph 230V	710431
	with LG7 start and stop system 1-ph 230V	710435
Exhaust double elbow mounting		624163
Suction hose with non-return valve (1 meter)		714980
Special vacuum hose (0.6 m) FF1"		618265
Special vacuum hose (1 m) FF1"		617372
Special vacuum hose (1.5 m) FF1"		618266
ALU adapter M1" / DN25 KF		117133
ALU clamping collar DN25 KF		361638
Centering ring INOX/VITON		361641
Stainless steel hose (0.5 m) DN25 KF		361644
Stainless steel hose (1 m) DN25 KF		361645
Electrical cable (3 m) with an electric plug for 1-ph vacuum pump		363052

# EVISA E65.3 HV



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.

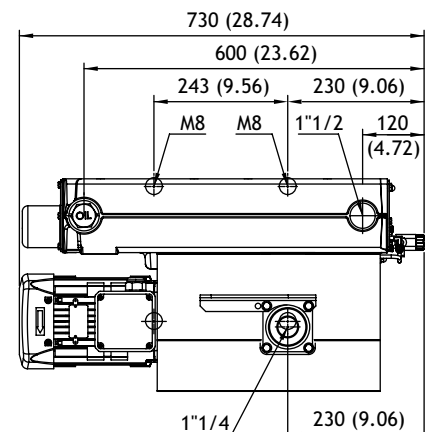
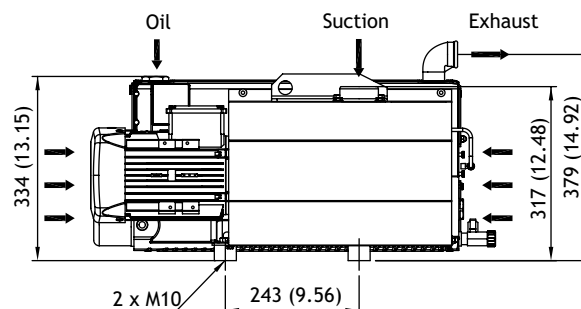
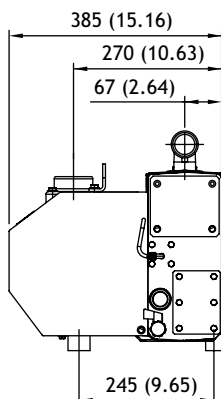
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $1,5 \cdot 10^{-1}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	64.3 m³.h <sup>-1</sup>	37.8 cfm	77.2 m³.h <sup>-1</sup>	45.4 cfm
Pumping speed *	59 m³.h <sup>-1</sup>	34.7 cfm	70 m³.h <sup>-1</sup>	41.2 cfm
Pumping speed at 1 mbar inlet pressure *	40 m³.h <sup>-1</sup>	23.6 cfm	48 m³.h <sup>-1</sup>	28.3 cfm
End vacuum - without gas ballast	≤ 1,5.10 <sup>-1</sup> mbar		≤ 0.11 torr	
End vacuum - with opened gas ballast	≤ 1.0 mbar		≤ 0.75 torr	
Water vapor permitted maximum pressure *	27 mbar		23 mbar	
Water vapor capacity *	1.0 kg.h <sup>-1</sup>			
Oil type	MV99S synthetic oil			
Oil capacity	4 l			
Noise level	64 dB(A)		66 dB(A)	
Motor voltage	3 ph	230/400V Δ/Y		265/460V Δ/Y
Motor power		1.5 kW		1.7 kW      3 hp
Rotation speed		1420 rpm		1705 rpm
Motor version		IP55 motor	IE2 F-class	IP55 motor      F-class
Inlet connection	1"1/4			
Outlet connection	1"1/2			
Weight with oil	75 kg		166 lb	

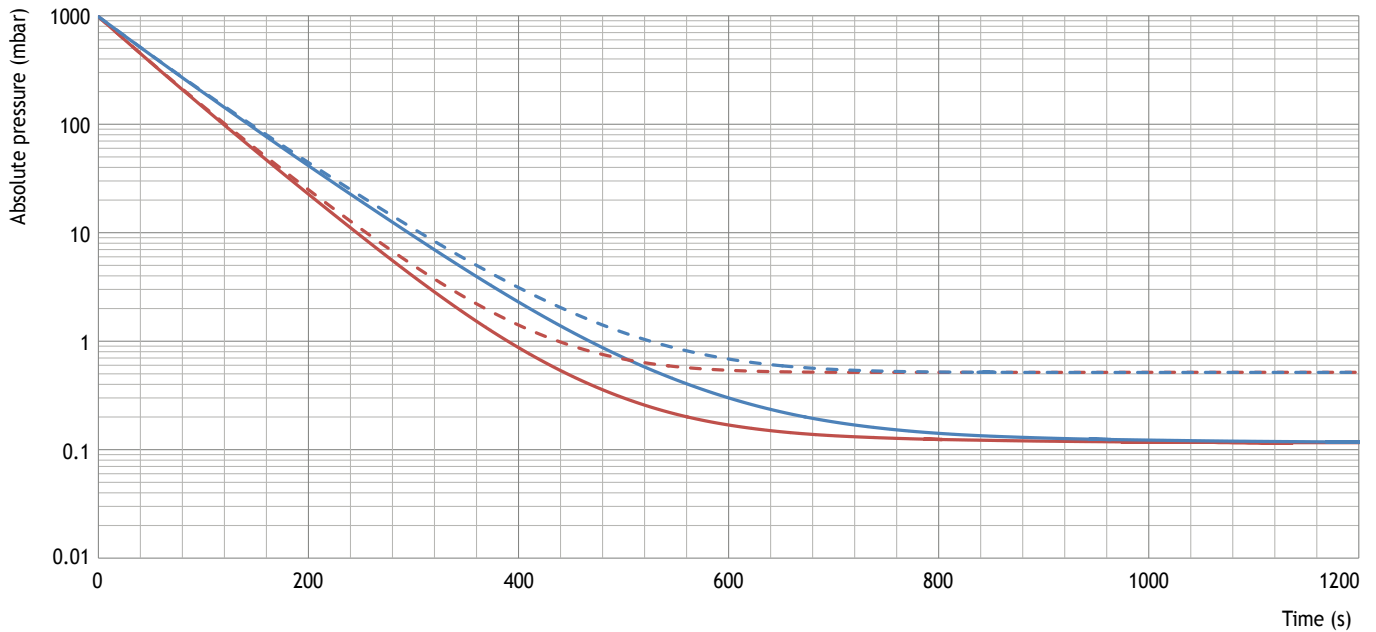
\* Measurements according to Pneurop 6602 specifications - 20 °C

## Dimensions : mm (inch)

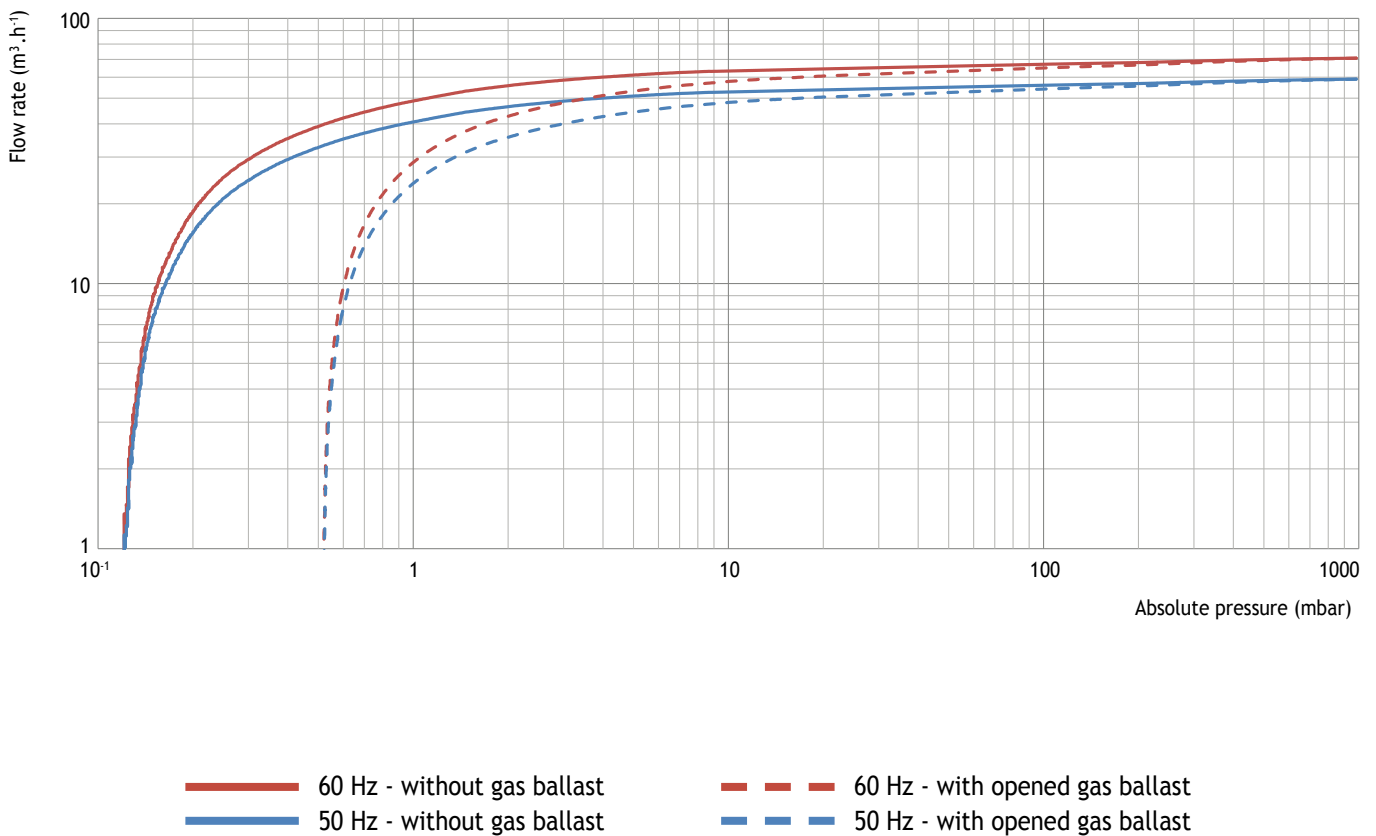


# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves


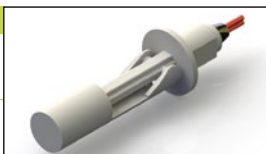




## Pump references

	EVISA E65.3
<b>HV type</b> for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	<b>823756</b>
<b>HV ATEX type</b> with gas ballast for explosive atmosphere Ex II 2 G IIB T4 for 3-ph 230/400V 50Hz supply	<b>823817</b>
<b>HV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	<b>823861</b>
<b>HV type</b> with motor 1.7 kW for 3-ph 220/380V 60Hz supply	<b>823808</b>
<b>MV type</b> with end vacuum 3 mbar for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	<b>823803</b>
<b>MV ATEX type</b> with gas ballast for explosive atmosphere Ex II 2 G IIB T4 for 3-ph 230/400V 50Hz supply	<b>823819</b>
<b>MV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	<b>823876</b>
<b>MV type</b> with motor 1.7 kW for 3-ph 220/380V 60Hz supply	<b>823806</b>

The pumps are delivered with the amount of oil required for their operation.

## Accessory and option references

		EVISA E65.3
1 Gas ballast 	1 Gas ballast for condensable vapor pumping	624106
	Additional filter for gas ballast	617708
2 Oil level safety 	2 Oil level safety with float	622886
	Timer box for oil level safety base mounting	670810
3 126 type suction filter 	Oil level safety and temperature indicator with bimetal thermostat NC opening at 120° C	623319
	PT100 temperature sensor + temperature display	618255
4 Liquid trap 2NG with mechanical float and optional bottle 	3 Vacuum-tight suction filter 1"1/4 - 126 type	706192
	paper cartridge	709398
	polyester cartridge	710521
	right-angle filter	617536
	Vacuum meter fitted on filter	670614
	Double suction filtration 2 x 126PA with paper cartridges	670617
	Polyester/carbon double filtration 126PO + 126CH with polyester and carbon cartridges	716600
	polycarbonate cylinder / without float	716565
	polycarbonate cylinder / with float	716601
	pyrex cylinder / without float	716592
pyrex cylinder / with float	615441	
4 Liquid trap 2NG 100 m <sup>3</sup> .h <sup>-1</sup> G1"1/4	optional pyrex bottle 250 cc under trap	615442
	optional pyrex bottle 500 cc under trap	615443
	optional pyrex bottle 1000 cc under trap	816002
	Electro-pneumatic automatic drain with control board	816003
Electrical automatic drain with control board		713841
Adjusting valve fitted on T-square (without filter)		



# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



12 000 hour  
preventive  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket		723959
3 000 hour usual maintenance with cartridge VITON gasket		723960
12 000 hour preventive maintenance		723961
Gasket set		624119
3 000 hour usual maintenance with cartridge VITON gasket	ATEX	723982
12 000 hour preventive maintenance	ATEX	723961
3 000 hour usual maintenance	OXYGEN	724093
12 000 hour preventive maintenance	OXYGEN	724091

## Accessory and option references

5  
Elevated  
base frame  
for 2 pumps



	EVISA E65.3
Base frame assembly height 150 mm	670805
5 Elevated base frame for 1 pump	617611
for 2 pumps	619544
height 525 mm for 3 pumps	617614
Control board with FLEXO solenoid valve 400V+N for pre-heating and rinsing cycle	770813
Control board with FLEXO solenoid valve 400V+N for rinsing cycle	770820
without control panel 3-ph 400V	770496
Direct without control panel 3-ph 230V	770498
starter with LG7 start and stop system 3-ph 400V	710423
with LG7 start and stop system 3-ph 230V	710432
Exhaust double elbow mounting	622787
Suction hose with non-return valve (1 meter)	770152
Special vacuum hose (0.6 m) FF1"1/4	670650
Special vacuum hose (1 m) FF1"1/4	607058
Special vacuum hose (1.5 m) FF1"1/4	610457
ALU adapter M1"1/2 / DN40 KF	119135
ALU adapter M1"1/4 / DN40 KF	117134
ALU clamping collar DN40 KF	361639
Centering ring INOX / VITON	361642
Stainless steel hose (0.5 m) DN40 KF	361646
Stainless steel hose (1 m) DN40 KF	361647

	EVISA E65.3 ATEX
Vacuum-tight suction filter with polyester cartridge (ATEX)	619884
Flame protection DN50	362647
Oil level safety ATEX	333172
Power supply for PT100 intrinsic security	362640
Stainless steel hose (0.5 m) M1"1/4	619886

# EVISA E100.3 HV



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.

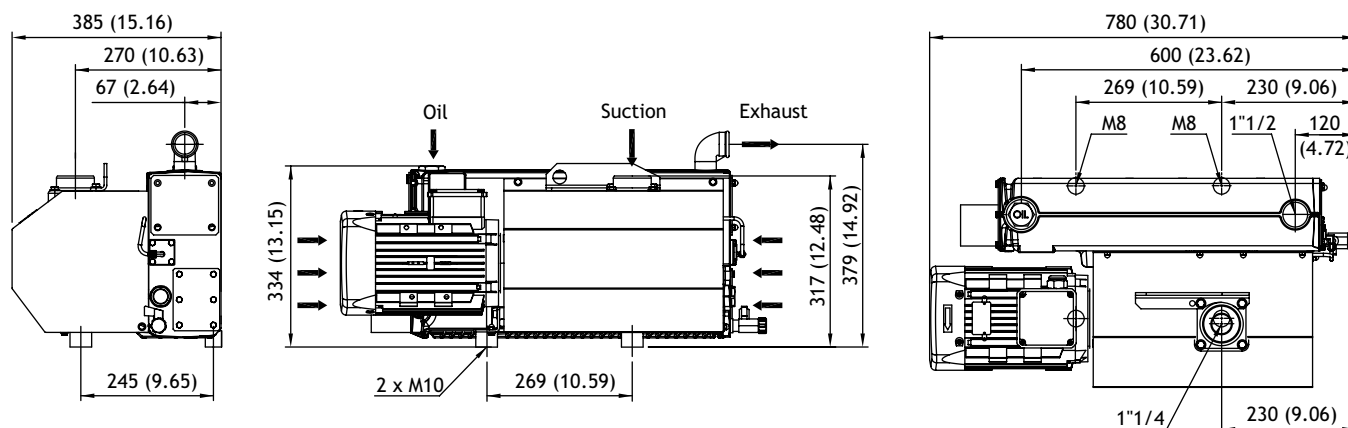
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $1,5 \cdot 10^{-1}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	96 m³.h <sup>-1</sup>	56.5 cfm	115 m³.h <sup>-1</sup>	67.7 cfm
Pumping speed *	94 m³.h <sup>-1</sup>	55.3 cfm	112 m³.h <sup>-1</sup>	65.9 cfm
Pumping speed at 1 mbar inlet pressure *	52 m³.h <sup>-1</sup>	30.6 cfm	62 m³.h <sup>-1</sup>	36.5 cfm
End vacuum - without gas ballast	≤ 1,5.10 <sup>-1</sup> mbar		≤ 0.11 torr	
End vacuum - with opened gas ballast	≤ 2.0 mbar		≤ 1.50 torr	
Water vapor permitted maximum pressure *	49 mbar		41 mbar	
Water vapor capacity *	2.5 kg.h <sup>-1</sup>			
Oil type	MV99S synthetic oil			
Oil capacity	4 l			
Noise level	65 dB(A)		67 dB(A)	
Motor voltage	3 ph	230/400V Δ/Y		265/460V Δ/Y
Motor power		2.2 kW		2.5 kW 5 hp
Rotation speed		1440 rpm		1730 rpm
Motor version		IP55 motor	IE2 F-class	IP55 motor F-class
Inlet connection	1"1/4			
Outlet connection	1"1/2			
Weight with oil	85 kg		188 lb	

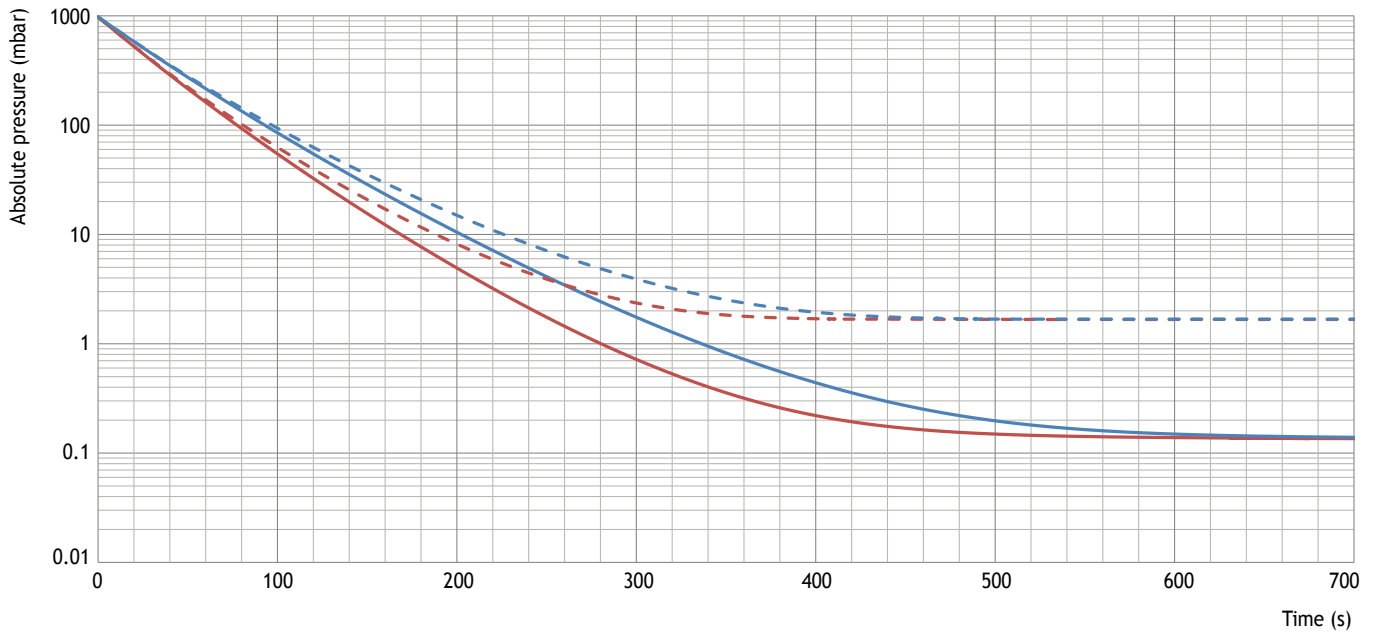
\* Measurements according to Pneurop 6602 specifications - 20 °C

## Dimensions : mm (inch)

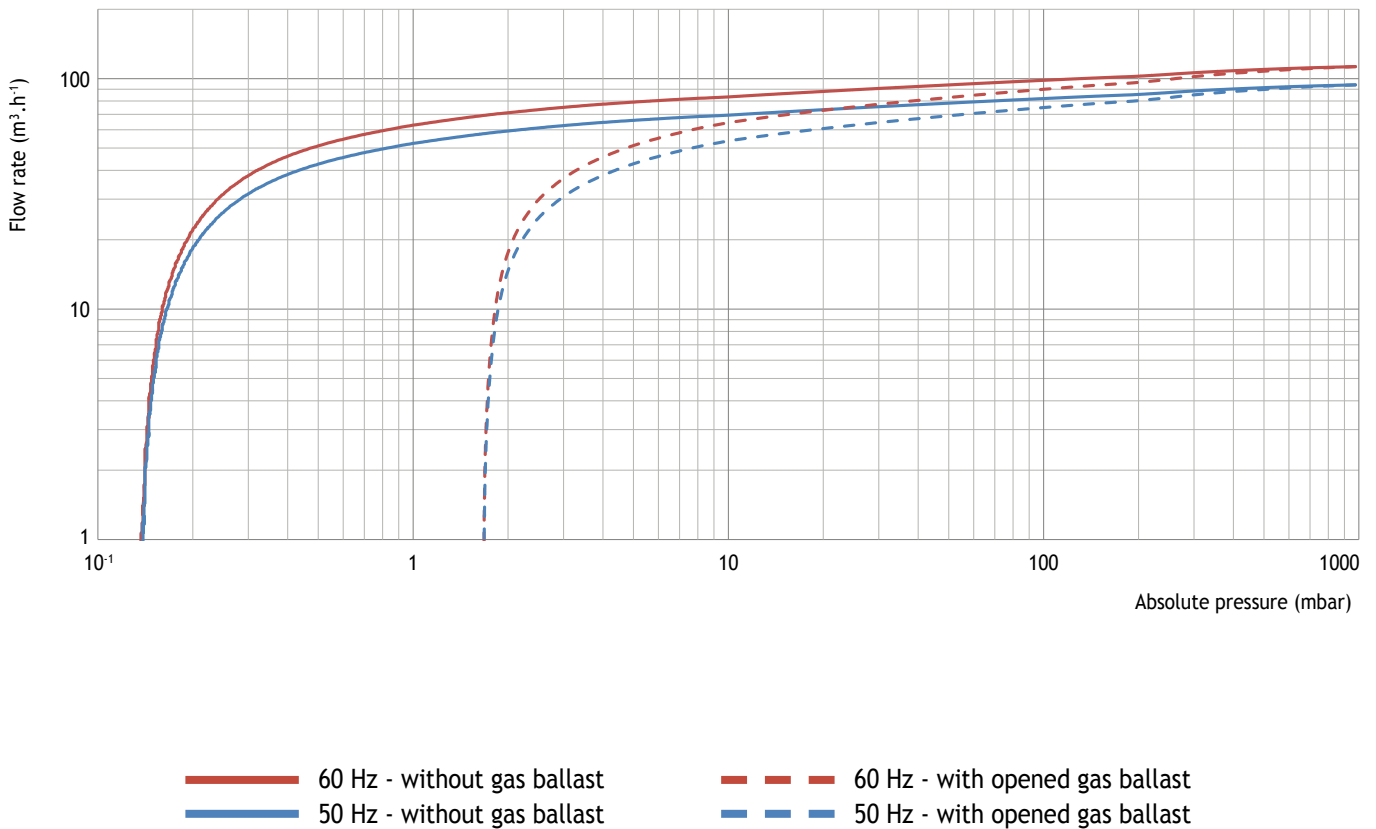


# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves


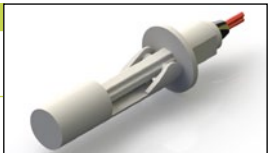




## Pump references

	EVISA E100.3
<b>HV type</b> for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	823740
<b>HV ATEX type</b> with gas ballast for explosive atmosphere Ex II 2 G IIB T4 for 3-ph 230/400V 50Hz supply	823816
<b>HV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	823862
<b>HV type</b> with motor 2.5 kW for 3-ph 220/380V 60Hz supply	823807
<b>MV type</b> with end vacuum 3 mbar for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	823802
<b>MV ATEX type</b> with gas ballast for explosive atmosphere Ex II 2 G IIB T4 for 3-ph 230/400V 50Hz supply	823818
<b>MV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 265/460V 60Hz supply	823877
<b>MV type</b> with motor 2.5 kW for 3-ph 220/380V 60Hz supply	823805

The pumps are delivered with the amount of oil required for their operation.

## Accessory and option references

	EVISA E100.3
<div>1</div> <div>Gas ballast</div> 	<div>1 Gas ballast</div> <div>for condensable vapor pumping</div> <div>624107</div>
	<div>Additional filter for gas ballast</div> <div>617708</div>
<div>2</div> <div>Oil level safety</div> 	<div>2 Oil level safety with float</div> <div>622886</div>
	<div>Timer box for oil level safety</div> <div>base mounting</div> <div>670810</div>
	<div>Oil level safety and temperature indicator</div> <div>with bimetal thermostat NC opening at 120°C</div> <div>623319</div>
	<div>PT100 temperature sensor + temperature display</div> <div>618255</div>
	<div>3 Vacuum-tight suction</div> <div>filter 1"1/4 - 126 type</div> <div>right-angle filter</div> <div>paper cartridge</div> <div>polyester cartridge</div> <div>carbon cartridge</div> <div>706192</div> <div>709398</div> <div>710521</div>
<div>3</div> <div>126 type suction filter</div> 	<div>Vacuum meter fitted on filter</div> <div>617536</div>
	<div>Double suction filtration 2 x 126PA</div> <div>with paper cartridges</div> <div>670614</div>
	<div>Polyester/carbon double filtration 126PO + 126CH</div> <div>with polyester and carbon cartridges</div> <div>670617</div>
	<div>polycarbonate cylinder / without float</div> <div>716600</div>
	<div>polycarbonate cylinder / with float</div> <div>716565</div>
	<div>pyrex cylinder / without float</div> <div>716601</div>
	<div>pyrex cylinder / with float</div> <div>716592</div>
	<div>optional pyrex bottle 250 cc under trap</div> <div>615441</div>
	<div>optional pyrex bottle 500 cc under trap</div> <div>615442</div>
	<div>optional pyrex bottle 1000 cc under trap</div> <div>615443</div>
	<div>Electro-pneumatic automatic drain</div> <div>with control board</div> <div>816002</div>
	<div>Electrical automatic drain</div> <div>with control board</div> <div>816003</div>
<div>4</div> <div>Liquid trap 2NG</div> <div>with mechanical float and optional bottle</div> 	<div>4 Liquid trap 2NG</div> <div>100 m<sup>3</sup>.h<sup>-1</sup></div> <div>G1"1/4</div> <div>Adjusting valve fitted on T-square (without filter)</div> <div>713841</div>

# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



12 000 hour  
preventive  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket		723959
3 000 hour usual maintenance with cartridge VITON gasket		723960
12 000 hour preventive maintenance		723962
Gasket set		624119
3 000 hour usual maintenance with cartridge VITON gasket	ATEX	723982
12 000 hour preventive maintenance	ATEX	723962
3 000 hour usual maintenance	OXYGEN	724093
12 000 hour preventive maintenance	OXYGEN	724092

## Accessory and option references

5  
Elevated  
base frame  
for 2 pumps



	EVISA E100.3
Base frame assembly height 150 mm	670805
5 Elevated base frame for 1 pump	617611
for 2 pumps	619544
height 525 mm for 3 pumps	617614
Control board with FLEXO solenoid valve 400V+N for pre-heating and rinsing cycle	770814
Control board with FLEXO solenoid valve 400V+N for rinsing cycle	770821
without control panel 3-ph 400V	770497
Direct without control panel 3-ph 230V	770498
starter with LG7 start and stop system 3-ph 400V	710424
with LG7 start and stop system 3-ph 230V	710432
Exhaust double elbow mounting	622787
Suction hose with non-return valve (1 meter)	770152
Special vacuum hose (0.6 m) FF1"1/4	670650
Special vacuum hose (1 m) FF1"1/4	607058
Special vacuum hose (1.5 m) FF1"1/4	610457
ALU adapter M1"1/2 / DN40 KF	119135
ALU adapter M1"1/4 / DN40 KF	117134
ALU clamping collar DN40 KF	361639
Centering ring INOX / VITON	361642
Stainless steel hose (0.5 m) DN40 KF	361646
Stainless steel hose (1 m) DN40 KF	361647

	EVISA E100.3 ATEX
Vacuum-tight suction filter with polyester cartridge (ATEX)	619884
Flame protection DN50	362647
Oil level safety ATEX	333172
Power supply for PT100 intrinsic security	362640
Stainless steel hose (0.5 m) M1"1/4	619886

# EVISA E150.R HV



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.

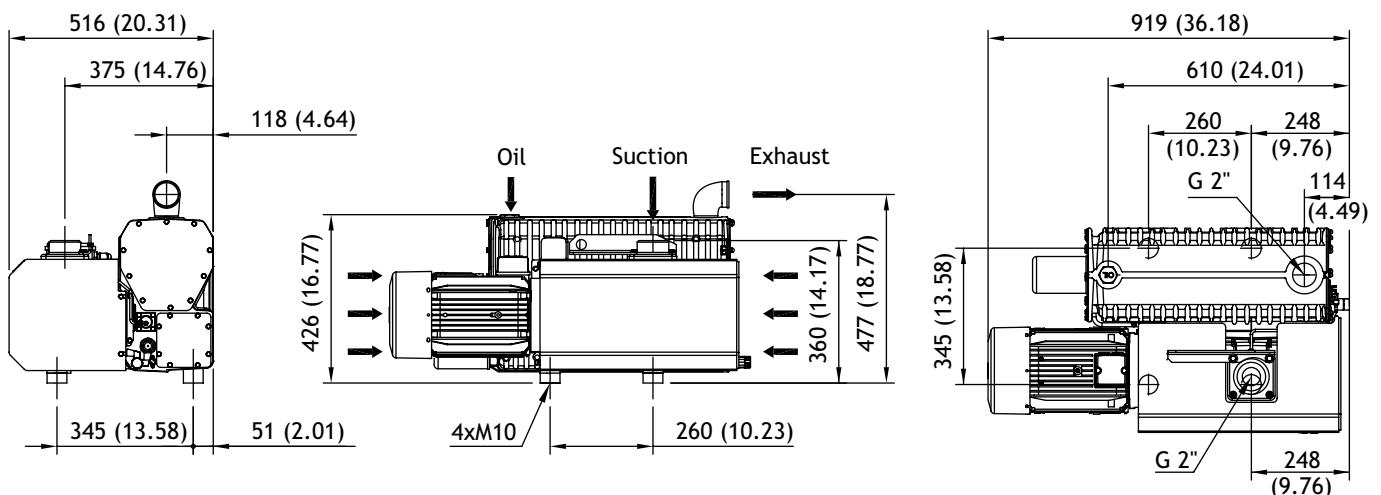
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $6 \cdot 10^{-2}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	132 m³.h⁻¹	77.7 cfm	156 m³.h⁻¹	91.8 cfm
Pumping speed *	125 m³.h⁻¹	73.6 cfm	150 m³.h⁻¹	88.3 cfm
Pumping speed at 1 mbar inlet pressure *	95 m³.h⁻¹	55.9 cfm	114 m³.h⁻¹	67.1 cfm
End vacuum - without gas ballast	≤ 6.10 <sup>-2</sup> mbar		≤ 0.045 torr	
End vacuum - with opened gas ballast	≤ 2 mbar		≤ 1.5 torr	
Water vapor permitted maximum pressure *	40.4 mbar		34.1 mbar	
Water vapor capacity *	2.8 kg.h⁻¹			
Oil type	MV99S synthetic oil			
Oil capacity	5 l			
Noise level	66 dB(A)		68 dB(A)	
Motor voltage	3 ph	400/690V Δ/Y		460/795V Δ/Y
Motor power		3 kW		3.5 kW 5 hp
Rotation speed	970 rpm		1150 rpm	
Motor version	IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection	2"			
Outlet connection	2"			
Weight with oil	154 kg		340 lb	

\* Measurements according to Pneurop 6602 specifications - 20 °C

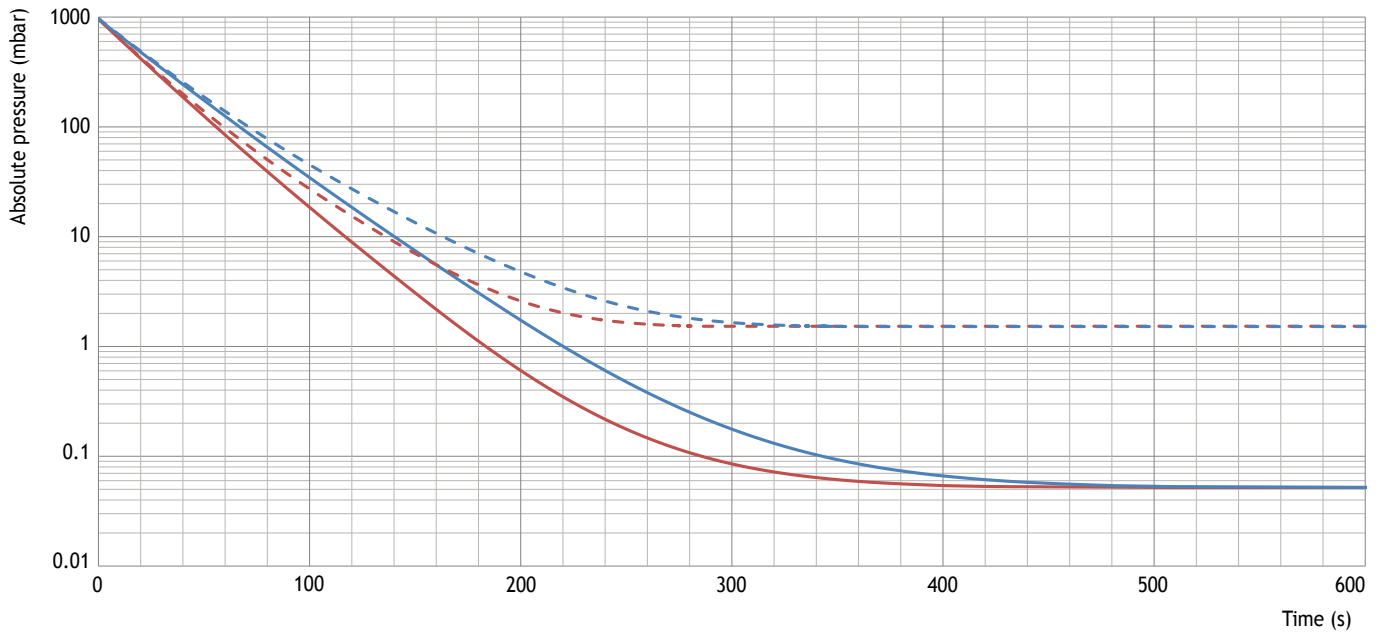
## Dimensions : mm (inch)



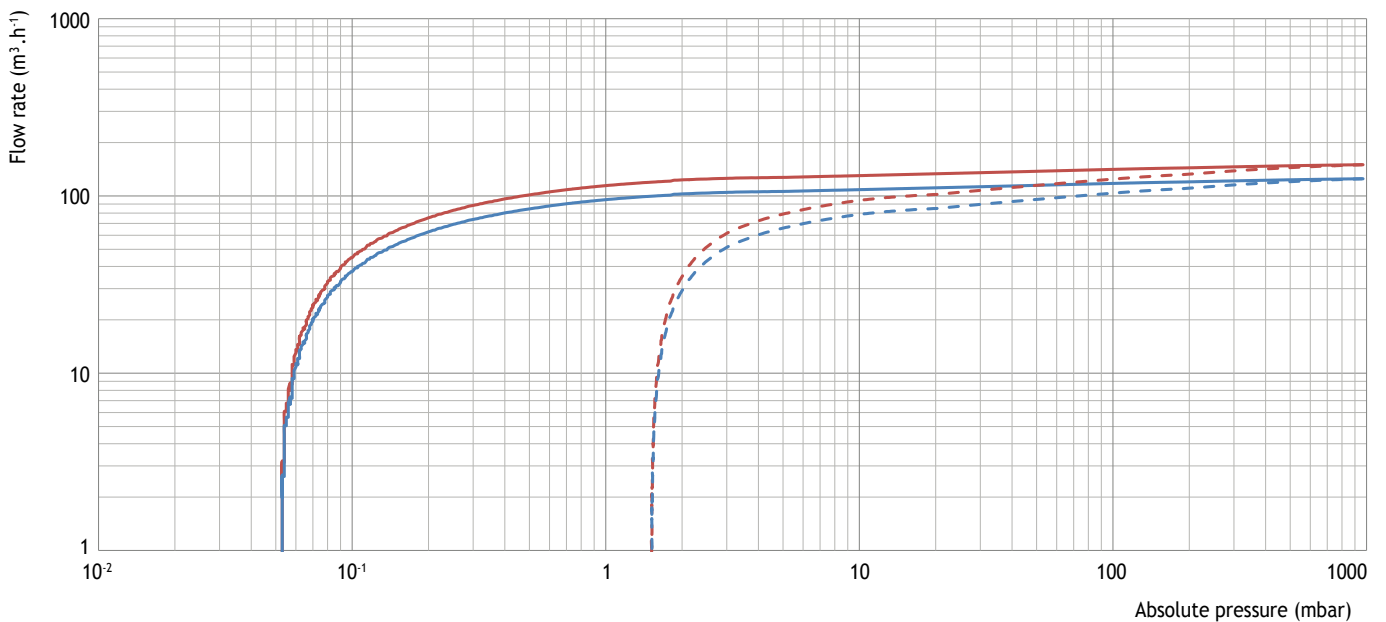


# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves



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

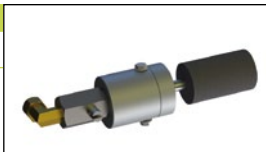
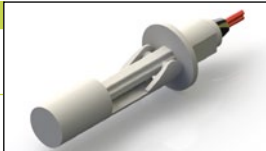

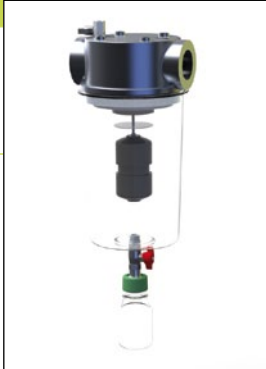
- - 60 Hz - with opened gas ballast  
- - 50 Hz - with opened gas ballast

## Pump references

	EVISA E150.R
<b>HV type</b> for 3-ph 400/690V 50Hz or 3-ph 460/795V 60Hz supply	<b>823857</b>
<b>HV OXYGEN type</b> with Fomblin oil for 3-ph 400/690V 50Hz or 3-ph 460/795V 60Hz supply	<b>823871</b>
<b>HV type</b> with motor 3.3 kW for 3-ph 380V 60Hz supply	<b>823860</b>
<b>MV type</b> with end vacuum 3 mbar for 3-ph 400/690V 50Hz or 3-ph 460/795V 60Hz supply	<b>823856</b>
<b>MV OXYGEN type</b> with Fomblin oil for 3-ph 400/690V 50Hz or 3-ph 460/795V 60Hz supply	<b>823870</b>
<b>MV Stainless Steel type</b> for 3-ph 400/690V 50Hz supply	<b>823869</b>

The pumps are delivered with the amount of oil required for their operation.

## Accessory and option references

	EVISA E150.R
<b>1</b> Gas ballast 	<b>1 Gas ballast</b> for condensable vapor pumping <b>624229</b>
<b>2</b> Oil level safety 	<b>2 Oil level safety with float</b> Timer box for oil level safety base mounting <b>624245</b> <b>670810</b>
<b>3</b> 201 type suction filter 	<b>Oil level safety and temperature indicator</b> with bimetal thermostat NC opening at 120° C <b>624246</b> <b>Oil level safety and PT100 temperature sensor</b> <b>624247</b>
<b>4</b> Liquid trap 3NG with mechanical float and optional bottle 	<b>3 Vacuum-tight suction</b> filter 2" - 201 type right-angle filter paper cartridge polyester cartridge carbon cartridge <b>715350</b> <b>715351</b> <b>715352</b> <b>Vacuum meter fitted on filter</b> <b>617536</b> <b>Double suction filtration 2 x 201PA</b> with paper cartridges <b>670615</b> <b>Polyester/carbon double filtration 201PO + 201CH</b> with polyester and carbon cartridges <b>670618</b>
	polycarbonate cylinder / without float <b>720807</b> polycarbonate cylinder / with float <b>720808</b> painted steel cylinder / without float <b>720809</b> painted steel cylinder / with float <b>720810</b>
	<b>4 Liquid trap 3NG</b> 280 m <sup>3</sup> .h <sup>-1</sup> G2" optional pyrex bottle 250 cc under trap <b>615441</b> optional pyrex bottle 500 cc under trap <b>615442</b> optional pyrex bottle 1000 cc under trap <b>615443</b> bracket for wall fixing <b>619907</b> Electro-pneumatic automatic drain with control board <b>816002</b> Electrical automatic drain with control board <b>816003</b>
	<b>Adjusting valve fitted on T-square (without filter)</b> <b>713842</b>

# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



12 000 hour  
preventive  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket		724054
3 000 hour usual maintenance with cartridge VITON gasket		724055
12 000 hour preventive maintenance		724052
Gasket set		624230
3 000 hour usual maintenance	OXYGEN	724089
12 000 hour preventive maintenance	OXYGEN	724087

## Accessory and option references

5  
Elevated  
base frame  
for 2 pumps



	EVISA E150.R
Base frame assembly height 150 mm	670806
5 Elevated base frame for 1 pump	617612
height 525 mm for 2 pumps	619545
Control board with FLEXO solenoid valve 400V+N for pre-heating and rinsing cycle	770815
Control board with FLEXO solenoid valve 400V+N for rinsing cycle	770822
without control panel 3-ph 400V	770499
Direct without control panel 3-ph 230V	770500
starter with LG7 start and stop system 3-ph 400V	710426
with LG7 start and stop system 3-ph 230V	710434
Exhaust double elbow mounting	622788
Suction hose with non-return valve (1 meter)	770154
Special vacuum hose (0.6 m) FF2"	618149
Special vacuum hose (1 m) FF2"	606099
Special vacuum hose (1.5 m) FF2"	607592
ALU adapter M2" / DN50 KF	117132
ALU clamping collar DN50 KF	361640
Centering ring INOX / VITON	361643
Stainless steel hose (0.5 m) DN50 KF	361648
Stainless steel hose (1 m) DN50 KF	361649

# EVISA E200.R HV



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.

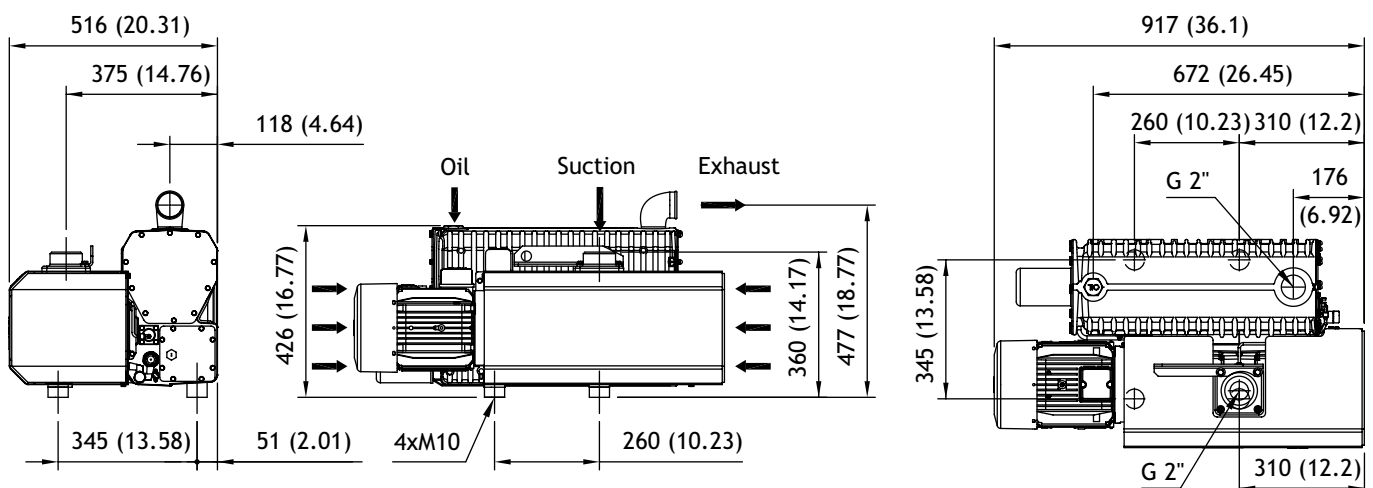
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $6 \cdot 10^{-2}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	198 m³ .h <sup>-1</sup>	116.5 cfm	240 m³ .h <sup>-1</sup>	141.3 cfm
Pumping speed *	190 m³ .h <sup>-1</sup>	111.8 cfm	228 m³ .h <sup>-1</sup>	134.2 cfm
Pumping speed at 1 mbar inlet pressure *	134 m³ .h <sup>-1</sup>	78.9 cfm	161 m³ .h <sup>-1</sup>	94.8 cfm
End vacuum - without gas ballast	≤ 6.10 <sup>-2</sup> mbar		≤ 0.045 torr	
End vacuum - with opened gas ballast	≤ 1 mbar		≤ 0.75 torr	
Water vapor permitted maximum pressure *	8.9 mbar		7.3 mbar	
Water vapor capacity *	0.8 kg.h <sup>-1</sup>			
Oil type	MV99S synthetic oil			
Oil capacity	5 l			
Noise level	67 dB(A)		69 dB(A)	
Motor voltage	3 ph	230/400V Δ/Y		460V Y
Motor power		4 kW		4.8 kW 7.5 hp
Rotation speed	1455 rpm		1765 rpm	
Motor version	IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection	2"			
Outlet connection	2"			
Weight with oil	140 kg		309 lb	

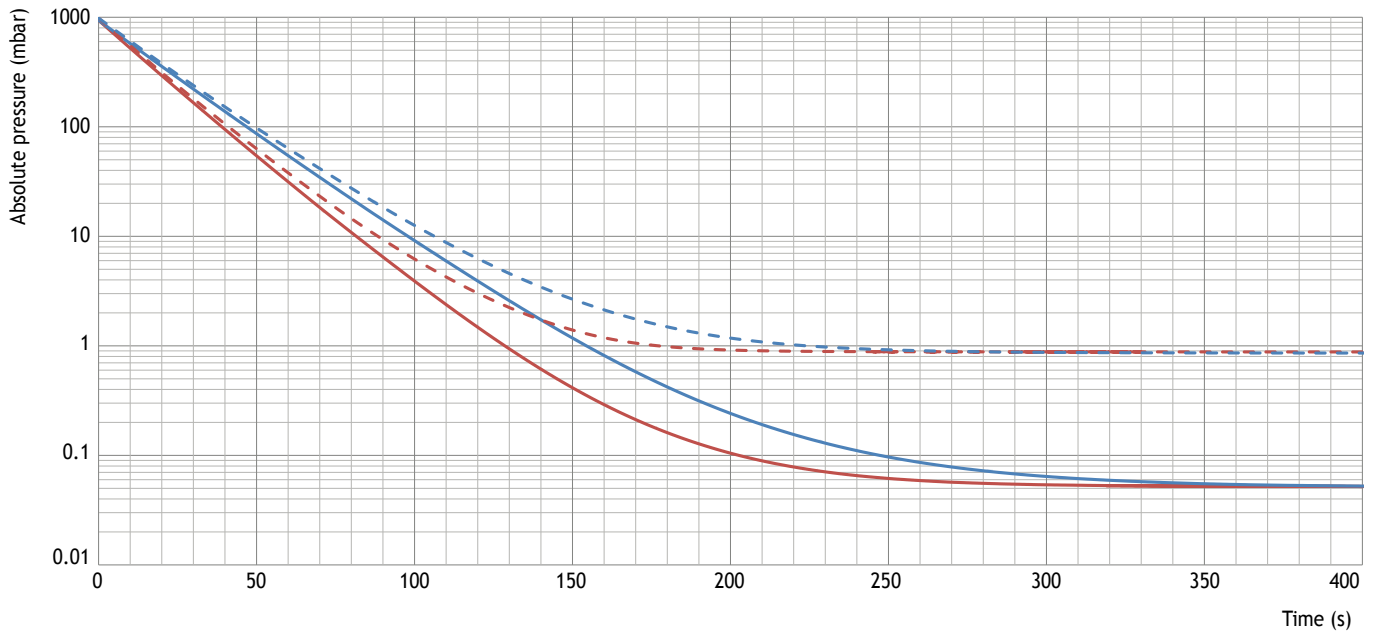
\* Measurements according to Pneurop 6602 specifications - 20 °C

## Dimensions : mm (inch)

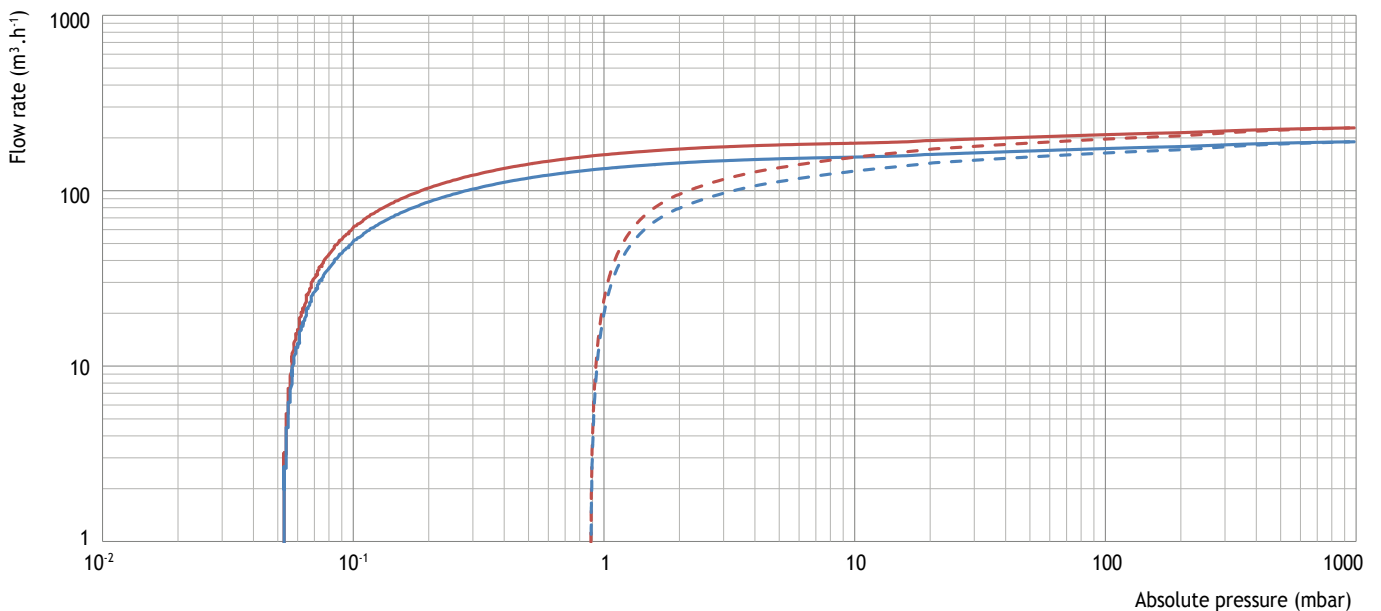


# Lubricated vane vacuum pumps

## 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

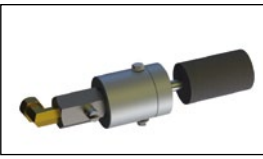
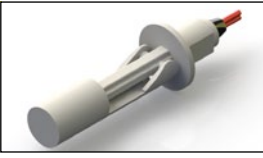


Specifications are subject to be changed without notice

## Pump references

	EVISA E200.R
<b>HV type</b> for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823766
<b>HV ATEX type</b> with gas ballast for explosive atmosphere Ex II 2 G IIB T4 for 3-ph 230/400V 50Hz supply	823841
<b>HV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823873
<b>HV type</b> with motor 4.5 kW for 3-ph 220/380V 60Hz supply	823835
<b>MV type</b> with end vacuum 3 mbar for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823830
<b>MV type</b> without radiator, wet vapours pumping for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823837
<b>MV ATEX type</b> with gas ballast for explosive atmosphere Ex II 2 G IIB T4 for 3-ph 230/400V 50Hz supply	823839
<b>MV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823872
<b>MV Stainless Steel type</b> for 3-ph 230/400V 50Hz supply	823845
<b>MV type</b> with motor 4.5 kW for 3-ph 220/380V 60Hz supply	823833

The pumps are delivered with the amount of oil required for their operation.

## Accessory and option references

		EVISA E200.R
1	Gas ballast	
		
2	Oil level safety	
		
3	201 type suction filter	
		
4	Liquid trap 3NG with mechanical float and optional bottle	
		
1	Gas ballast for condensable vapor pumping	624229
2	Oil level safety with float	624245
	Timer box for oil level safety base mounting	670810
	Oil level safety and temperature indicator with bimetal thermostat NC opening at 120 °C	624246
	Oil level safety and PT100 temperature sensor	624247
3	Vacuum-tight suction filter 2" - 201 type	715350
	paper cartridge	715351
	polyester cartridge	715352
	right-angle filter	carbon cartridge
	Vacuum meter fitted on filter	617536
	Double suction filtration 2 x 201PA with paper cartridges	670615
	Polyester/carbon double filtration 201PO + 201CH with polyester and carbon cartridges	670618
	polycarbonate cylinder / without float	720807
	polycarbonate cylinder / with float	720808
	painted steel cylinder / without float	720809
	painted steel cylinder / with float	720810
4	Liquid trap 3NG 280 m <sup>3</sup> .h <sup>-1</sup> G2"	615441
	optional pyrex bottle 250 cc under trap	615442
	optional pyrex bottle 500 cc under trap	615443
	optional pyrex bottle 1000 cc under trap	619907
	bracket for wall fixing	816002
	Electro-pneumatic automatic drain with control board	816003
	Electrical automatic drain with control board	816003
	Adjusting valve fitted on T-square (without filter)	713842



# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



12 000 hour  
preventive  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket		724054
3 000 hour usual maintenance with cartridge VITON gasket		724055
12 000 hour preventive maintenance		724052
Gasket set		624230
3 000 hour usual maintenance with cartridge VITON gasket	ATEX	724056
12 000 hour preventive maintenance	ATEX	724052
3 000 hour usual maintenance	OXYGEN	724089
12 000 hour preventive maintenance	OXYGEN	724087

## Accessory and option references

5  
Elevated  
base frame  
for 2 pumps



	EVISA E200.R
Base frame assembly height 150 mm	670806
5 Elevated base frame for 1 pump	617612
height 525 mm for 2 pumps	619545
Control board with FLEXO solenoid valve 400V+N for pre-heating and rinsing cycle	770815
Control board with FLEXO solenoid valve 400V+N for rinsing cycle	770822
without control panel 3-ph 400V	770499
Direct without control panel 3-ph 230V	770500
starter with LG7 start and stop system 3-ph 400V	710426
with LG7 start and stop system 3-ph 230V	710434
Exhaust double elbow mounting	622788
Suction hose with non-return valve (1 meter)	770154
Special vacuum hose (0.6 m) FF2"	618149
Special vacuum hose (1 m) FF2"	606099
Special vacuum hose (1.5 m) FF2"	607592
ALU adapter M2" / DN50 KF	117132
ALU clamping collar DN50 KF	361640
Centering ring INOX / VITON	361643
Stainless steel hose (0.5 m) DN50 KF	361648
Stainless steel hose (1 m) DN50 KF	361649

	EVISA E200.R ATEX
Vacuum-tight suction filter with polyester cartridge (ATEX)	619885
Flame protection DN80	362631
Oil level safety and PT100 temperature sensor ATEX	624257
Power supply for PT100 intrinsic security	362640
Stainless steel hose (0.5 m) M2"	619887

# EVISA E300.R HV



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.

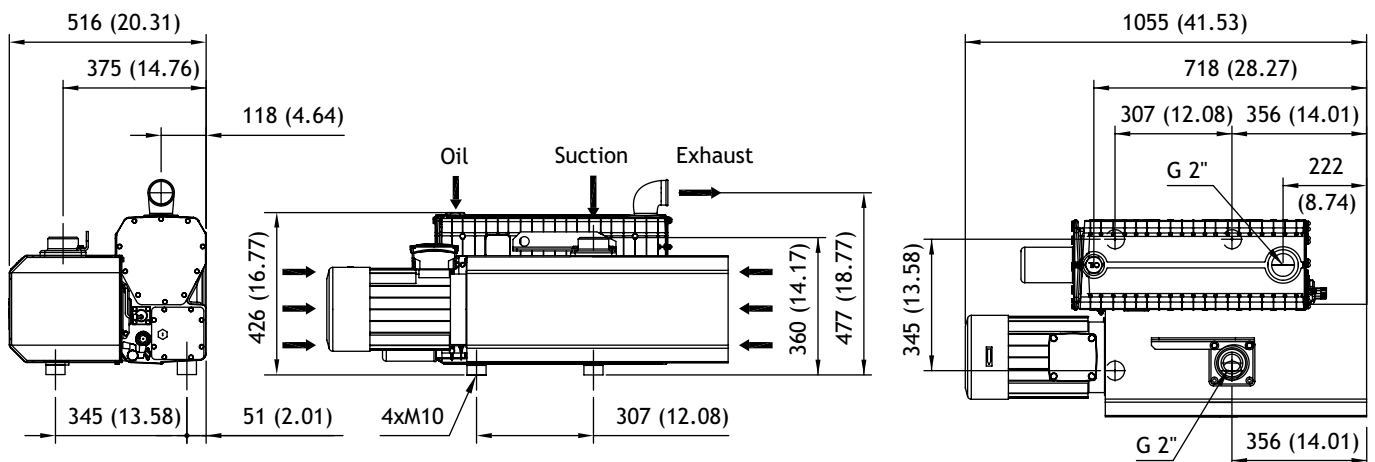
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $6 \cdot 10^{-2}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	293 m³.h <sup>-1</sup>	172 cfm	354 m³.h <sup>-1</sup>	208 cfm
Pumping speed *	280 m³.h <sup>-1</sup>	165 cfm	336 m³.h <sup>-1</sup>	198 cfm
Pumping speed at 1 mbar inlet pressure *	171 m³.h <sup>-1</sup>	101 cfm	205 m³.h <sup>-1</sup>	121 cfm
End vacuum - without gas ballast	≤ 6.10 <sup>-2</sup> mbar		≤ 0.045 torr	
End vacuum - with opened gas ballast	≤ 2 mbar		≤ 1.5 torr	
Water vapor permitted maximum pressure *	11.4 mbar		9.4 mbar	
Water vapor capacity *	1.3 kg.h <sup>-1</sup>		1.2 kg.h <sup>-1</sup>	
Oil type	MV99S synthetic oil			
Oil capacity	5 l			
Noise level	69 dB(A)		71 dB(A)	
Motor voltage	3 ph	230/400V Δ/Y		460V Y
Motor power		5.5 kW		6.6 kW 10 hp
Rotation speed	1455 rpm		1760 rpm	
Motor version	IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection	2"			
Outlet connection	2"			
Weight with oil	162 kg		357 lb	

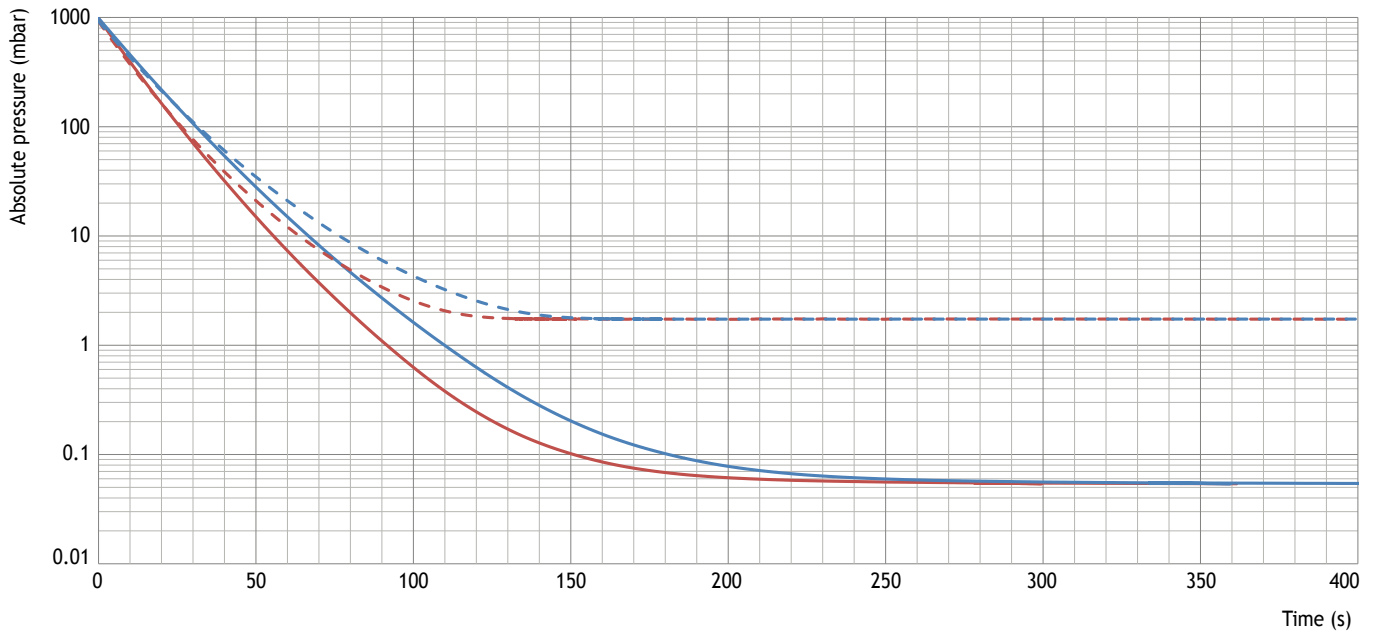
\* Measurements according to Pneurop 6602 specifications - 20 °C

## Dimensions : mm (inch)

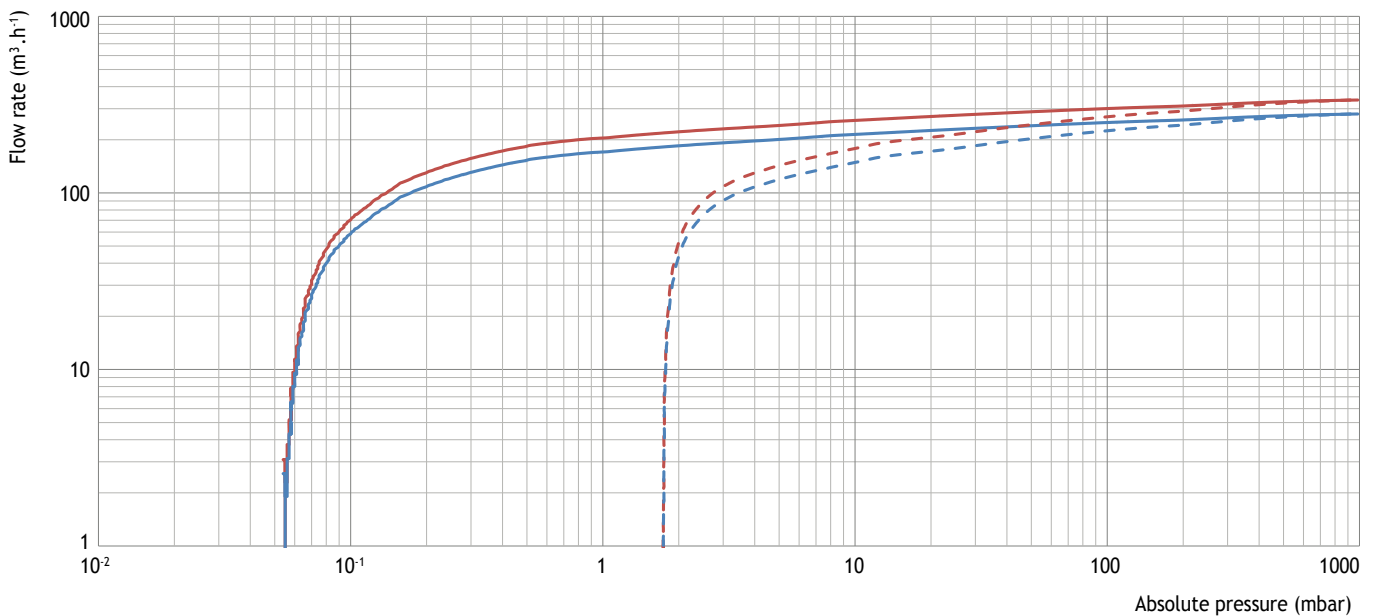


# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves



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

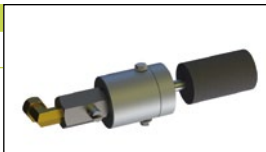
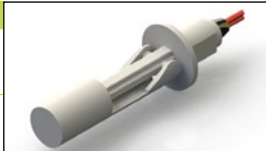

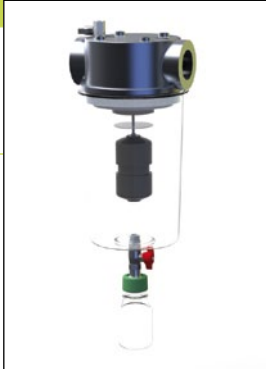
- - 60 Hz - with opened gas ballast  
- - 50 Hz - with opened gas ballast

## Pump references

	EVISA E300.R
<b>HV type</b> for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823767
<b>HV ATEX type</b> with gas ballast for explosive atmosphere Ex II 2 G IIB T4 for 3-ph 230/400V 50Hz supply	823842
<b>HV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823875
<b>HV type</b> with motor 5.9 kW for 3-ph 220/380V 60Hz supply	823836
<b>MV type</b> with end vacuum 3 mbar for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823831
<b>MV type</b> without radiator, wet vapours pumping for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823838
<b>MV ATEX type</b> with gas ballast for explosive atmosphere Ex II 2 G IIB T4 for 3-ph 230/400V 50Hz supply	823840
<b>MV OXYGEN type</b> with Fomblin oil for 3-ph 230/400V 50Hz or 3-ph 460V 60Hz supply	823874
<b>MV Stainless Steel type</b> for 3-ph 230/400V 50Hz supply	823846
<b>MV type</b> with motor 5.9 kW for 3-ph 220/380V 60Hz supply	823834

The pumps are delivered with the amount of oil required for their operation.

## Accessory and option references

	EVISA E300.R
<b>1</b> Gas ballast 	<b>1</b> Gas ballast for condensable vapor pumping 624229
<b>2</b> Oil level safety 	<b>2</b> Oil level safety with float 624245 Timer box for oil level safety base mounting 670810 Oil level safety and temperature indicator with bimetal thermostat NC opening at 120° C 624246 Oil level safety and PT100 temperature sensor 624247
<b>3</b> 201 type suction filter 	<b>3</b> Vacuum-tight suction filter 2" - 201 type paper cartridge 715350 polyester cartridge 715351 right-angle filter carbon cartridge 715352 Vacuum meter fitted on filter 617536 Double suction filtration 2 x 201PA with paper cartridges 670615 Polyester/carbon double filtration 201PO + 201CH with polyester and carbon cartridges 670618 Vacuum-tight suction filter 2" - CT 201 straight-through paper cartridge 362015 polyester cartridge 362231 Vacuum-tight suction filter ST201 straight-through / polycarbonate polyester cartridge 362245 Bracket for wall fixing for CT and ST type filter 619907 polycarbonate cylinder / without float 720807 polycarbonate cylinder / with float 720808 painted steel cylinder / without float 720809 painted steel cylinder / with float 720810
<b>4</b> Liquid trap 3NG with mechanical float and optional bottle 	<b>4</b> Liquid trap 3NG 280 m <sup>3</sup> .h <sup>-1</sup> G2" optional pyrex bottle 250 cc under trap 615441 optional pyrex bottle 500 cc under trap 615442 optional pyrex bottle 1000 cc under trap 615443 Electro-pneumatic automatic drain with control board 816002 Electrical automatic drain with control board 816003 Additional oil exhaust filter 618261 Adjusting valve fitted on T-square (without filter) 713842

# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



12 000 hour  
preventive  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket		724079
3 000 hour usual maintenance with cartridge VITON gasket		724080
12 000 hour preventive maintenance		724053
Gasket set		624231
3 000 hour usual maintenance with cartridge VITON gasket	ATEX	724081
12 000 hour preventive maintenance	ATEX	724053
3 000 hour usual maintenance	OXYGEN	724090
12 000 hour preventive maintenance	OXYGEN	724088

## Accessory and option references

5  
Elevated  
base frame  
for 2 pumps



	EVISA E300.R
Base frame assembly height 150 mm	616595
5 Elevated base frame for 1 pump	617612
height 525 mm for 2 pumps	619545
Control board with FLEXO solenoid valve 400V+N for pre-heating and rinsing cycle	723831
Control board with FLEXO solenoid valve 400V+N for rinsing cycle	770532
Direct without control panel 3-ph 400V	770499
starter with LG7 start and stop system 3-ph 400V	710426
Exhaust double elbow mounting	622788
Suction hose with non-return valve (1 meter)	770154
Special vacuum hose (0.6 m) FF2"	618149
Special vacuum hose (1 m) FF2"	606099
Special vacuum hose (1.5 m) FF2"	607592
Special vacuum hose (2 m) FF2"	609550
ALU adapter M2" / DN50 KF	117132
ALU clamping collar DN50 KF	361640
Centering ring INOX / VITON	361643
Stainless steel hose (0.5 m) DN50 KF	361648
Stainless steel hose (1 m) DN50 KF	361649

	EVISA E300.R ATEX
Vacuum-tight suction filter with polyester cartridge (ATEX)	619885
Flame protection DN80	362631
Oil level safety and PT100 temperature sensor ATEX	624257
Power supply for PT100 intrinsic security	362640
Stainless steel hose (0.5 m) M2"	619887

# EVISA E350.3 HV



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.

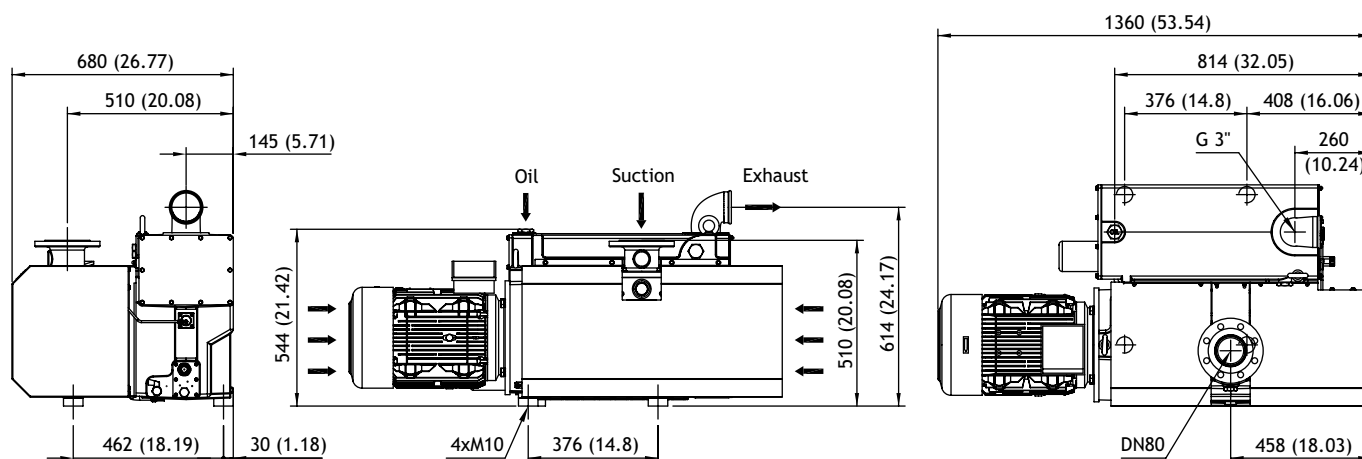
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $1 \cdot 10^{-1}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	360 m³.h <sup>-1</sup>	211.9 cfm	432 m³.h <sup>-1</sup>	254.3 cfm
Pumping speed *	341 m³.h <sup>-1</sup>	200.7 cfm	409 m³.h <sup>-1</sup>	240.7 cfm
Pumping speed at 1 mbar inlet pressure *	179 m³.h <sup>-1</sup>	105.3 cfm	215 m³.h <sup>-1</sup>	126.5 cfm
End vacuum - without gas ballast	≤ 1.10 <sup>-1</sup> mbar		≤ 0.08 torr	
End vacuum - with opened gas ballast	≤ 1 mbar		≤ 0.75 torr	
Water vapor permitted maximum pressure *	12.5 mbar		10.4 mbar	
Water vapor capacity *	2 kg.h <sup>-1</sup>			
Oil type	MV99S synthetic oil			
Oil capacity	10 l			
Noise level	71 dB(A)		73 dB(A)	
Motor voltage	3 ph	400/690V Δ/Y		460V Y
Motor power		7.5 kW		9 kW 15 hp
Rotation speed	969 rpm		1173 rpm	
Motor version	IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection	DN80			
Outlet connection	3"			
Weight with oil	355 kg		783 lb	

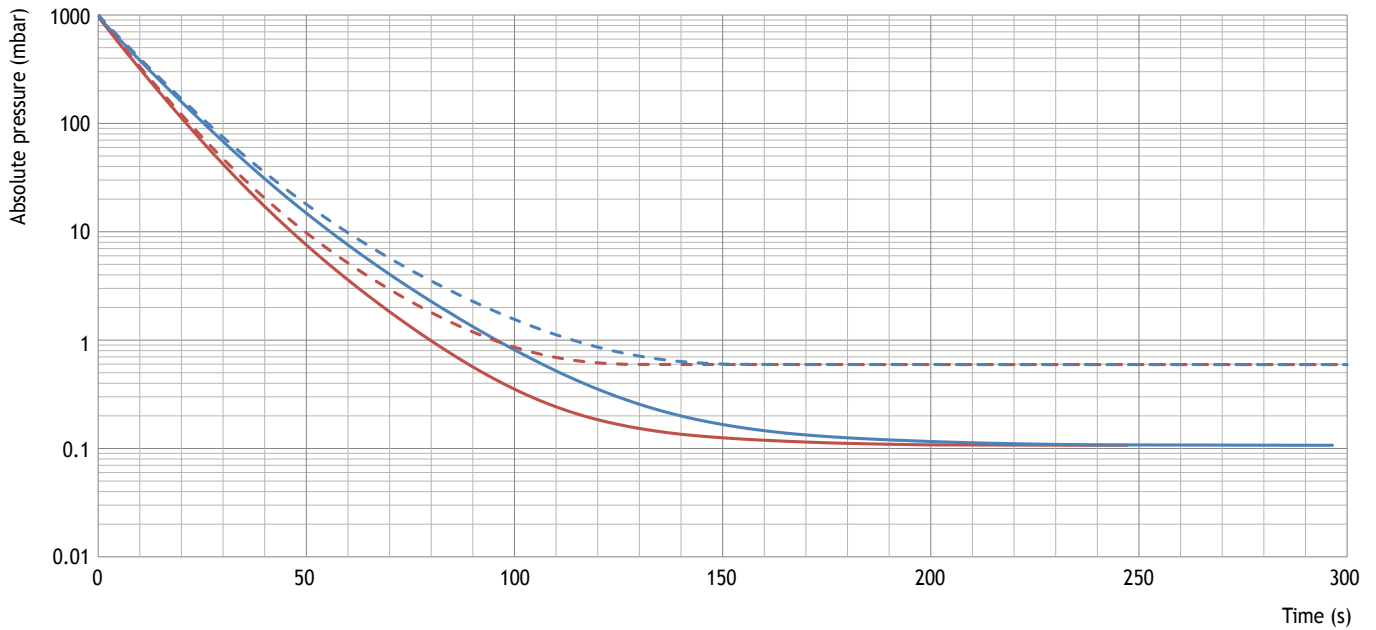
\* Measurements according to Pneurop 6602 specifications - 20 °C

## Dimensions : mm (inch)

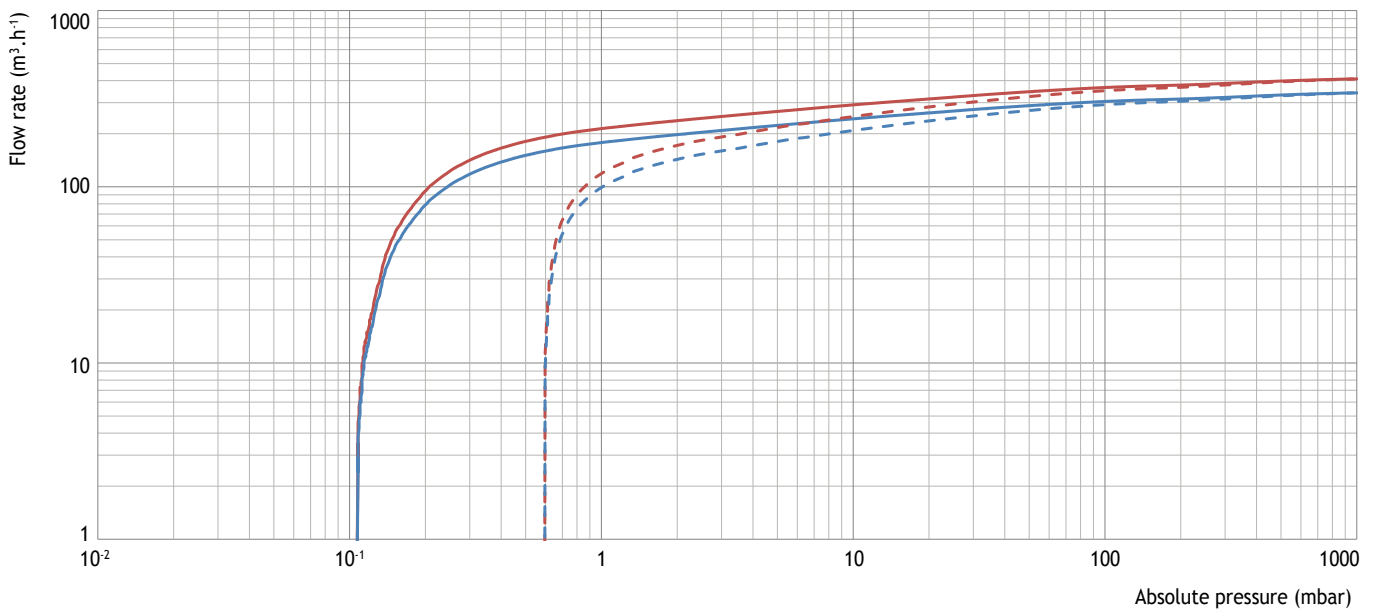


# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves



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


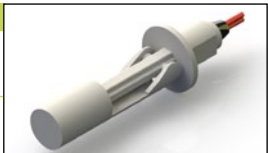


--- 60 Hz - with opened gas ballast  
--- 50 Hz - with opened gas ballast



## Pump references

	EVISA E350.3
<b>HV type</b> for 3-ph 400/690V 50Hz or 3-ph 460V 60Hz supply	821173
<b>HV Stainless Steel type</b> for 3-ph 400/690V 50Hz supply	821728
<b>MV type</b> with end vacuum 3 mbar for 3-ph 400/690V 50Hz or 3-ph 460V 60Hz supply	817153
<i>The pumps are delivered with the amount of oil required for their operation.</i>	

## Accessory and option references

		EVISA E350.3
<b>1</b> Gas ballast 	<b>1 Gas ballast</b> for condensable vapor pumping	717435
	<b>Additional filter for gas ballast</b>	617710
<b>2</b> Oil level safety 	<b>2 Oil level safety with float</b>	623314
	<b>Timer box for oil level safety</b> base mounting	670810
<b>3</b> 301 type suction filter 	<b>Oil level safety and temperature indicator</b> with bimetal thermostat NC opening at 120° C	623317
	<b>PT100 temperature sensor + temperature display</b>	618255
<b>4</b> Liquid trap 5NG with mechanical float and optional bottle 	<b>3 Vacuum-tight suction</b> filter 3" / DN80 - 301 type	paper cartridge 717369
	straight-through filter	polyester cartridge 717370
		carbon cartridge 717371
	<b>Vacuum meter fitted on filter</b>	617536
	<b>Vacuum-tight suction filter ST301</b>	paper cartridge 361627
	straight-through / polycarbonate	polyester cartridge 620166
	<b>Deflector for filters CT 301 and ST 301</b>	215696
	<b>Bracket for mural fixing for filters CT and ST</b>	617512
	<b>Flanges for filters CT and ST</b>	617513
	<b>Liquid trap 4NG</b> 465 m <sup>3</sup> .h <sup>-1</sup> G2"1/2	polycarbonate cylinder / without float 719920 polycarbonate cylinder / with float 720811 painted steel cylinder / without float 719437 painted steel cylinder / with float 720812
	<b>4 Liquid trap 5NG</b> 650 m <sup>3</sup> .h <sup>-1</sup> G3"	polycarbonate cylinder / without float 717786 polycarbonate cylinder / with float 720813 painted steel cylinder / without float 717740 painted steel cylinder / with float 720814 optional pyrex bottle 250 cc under trap 615441 optional pyrex bottle 500 cc under trap 615442 optional pyrex bottle 1000 cc under trap 615443

# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket	720346
3 000 hour usual maintenance with cartridge VITON gasket	718379
12 000 hour preventive maintenance	617660
Gasket set	618060

12 000 hour  
preventive  
maintenance



## Accessory and option references

5  
Elevated  
base frame  
for 1 pump



		EVISA E350.3
Liquids trap 4NG / 5NG	Electro-pneumatic automatic drain with control board	816002
	Electrical automatic drain with control board	816003
	Flanges DN80 for liquids trap 5NG type	617513
Base frame assembly height 200 mm		618251
5 Elevated base frame height 525 mm - for 1 pump		617613
Direct starter	without control panel 3-ph 400V	770500
	with LG7 start and stop system 3-ph 400V	713746
Star/delta starter 400V+N+E		718389
with: 1 electric atmospheric pressure valve (230V - 50Hz)		617496
or: 1 pneumatic atmospheric pressure valve (6 bar)		618257
Exhaust double elbow mounting		623534
Special vacuum hose (1 m) with flanges DN80		617833
Special vacuum hose (0.6 m) DN80		618269
Special vacuum hose (1.5 m) MM 3"		719925
Special vacuum hose (4 m) M 3" - DN80		618573
Double acting electric butterfly cast iron valve DN80 with electric actuator 5/2 NF - 230V 50Hz		617522
Double acting pneumatic butterfly cast iron valve DN80 with electric actuator 5/2 NF - 230V 50Hz		617253
ALU adapter M 3" / DN80 ISO K		117130
ALU adapter DN80 ISO K		117129
ALU clamping collar		4 x 361653
Centering ring ALU / Perbunan		361650
Stainless steel hose (0.5 m) DN80 ISO K		361651
Stainless steel hose (1 m) DN80 ISO K		361652

# EVISA E400.3 HV



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.

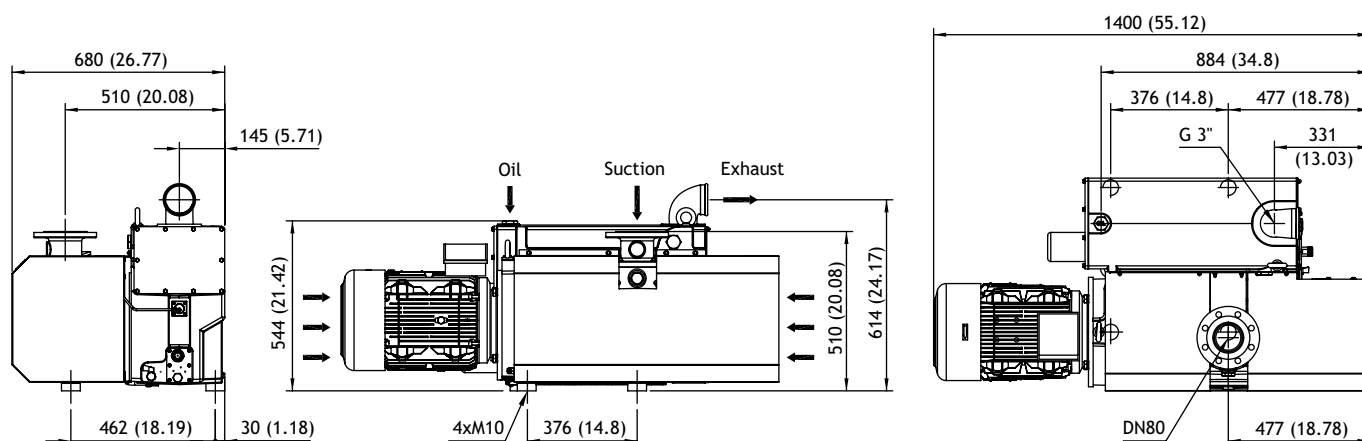
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $1 \cdot 10^{-1}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	426 m³.h <sup>-1</sup>	250.7 cfm	511 m³.h <sup>-1</sup>	300.8 cfm
Pumping speed *	410 m³.h <sup>-1</sup>	241.3 cfm	492 m³.h <sup>-1</sup>	289.6 cfm
Pumping speed at 1 mbar inlet pressure *	215 m³.h <sup>-1</sup>	126.5 cfm	258 m³.h <sup>-1</sup>	151.8 cfm
End vacuum - without gas ballast	≤ 1.10 <sup>-1</sup> mbar		≤ 0.08 torr	
End vacuum - with opened gas ballast	≤ 1 mbar		≤ 0.75 torr	
Water vapor permitted maximum pressure *	16.6 mbar		13.8 mbar	
Water vapor capacity *	3.3 kg.h <sup>-1</sup>			
Oil type	MV99S synthetic oil			
Oil capacity	10 l			
Noise level	72 dB(A)		74 dB(A)	
Motor voltage	3 ph	400/690V Δ/Y		460V Y
Motor power		9 kW		11 kW 15 hp
Rotation speed	966 rpm		1170 rpm	
Motor version	IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection	DN80			
Outlet connection	3"			
Weight with oil	385 kg		849 lb	

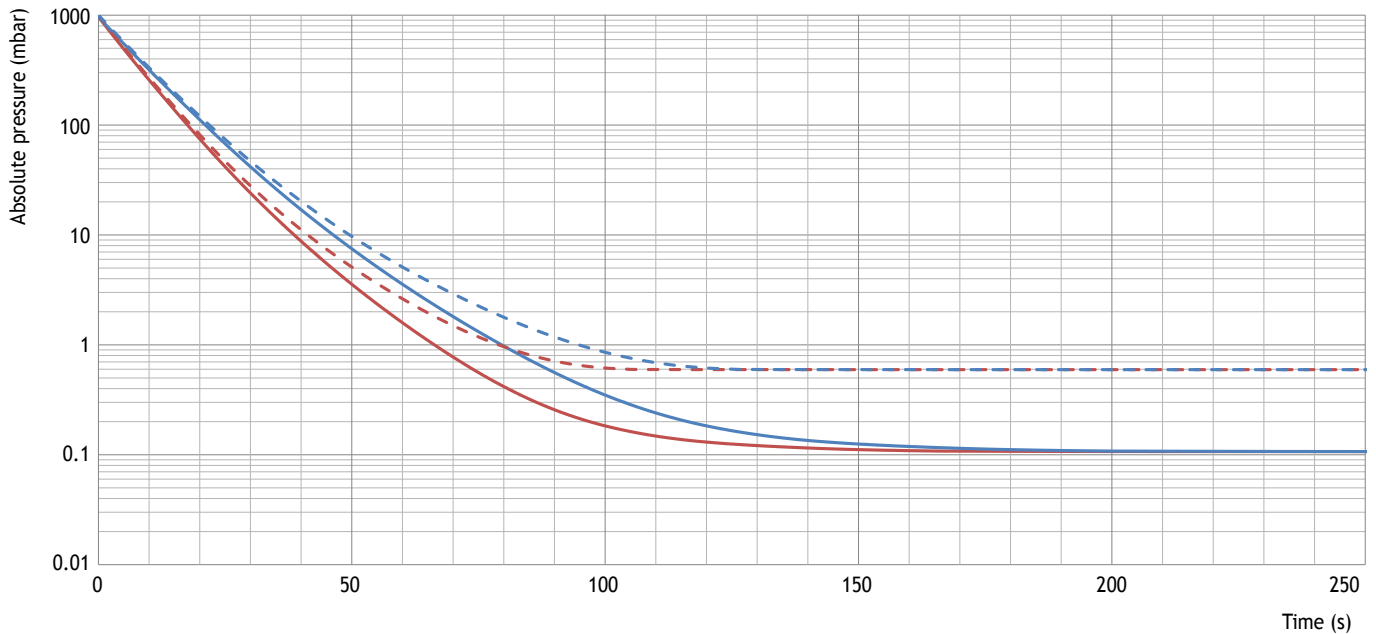
\* Measurements according to Pneurop 6602 specifications - 20 °C

## Dimensions : mm (inch)

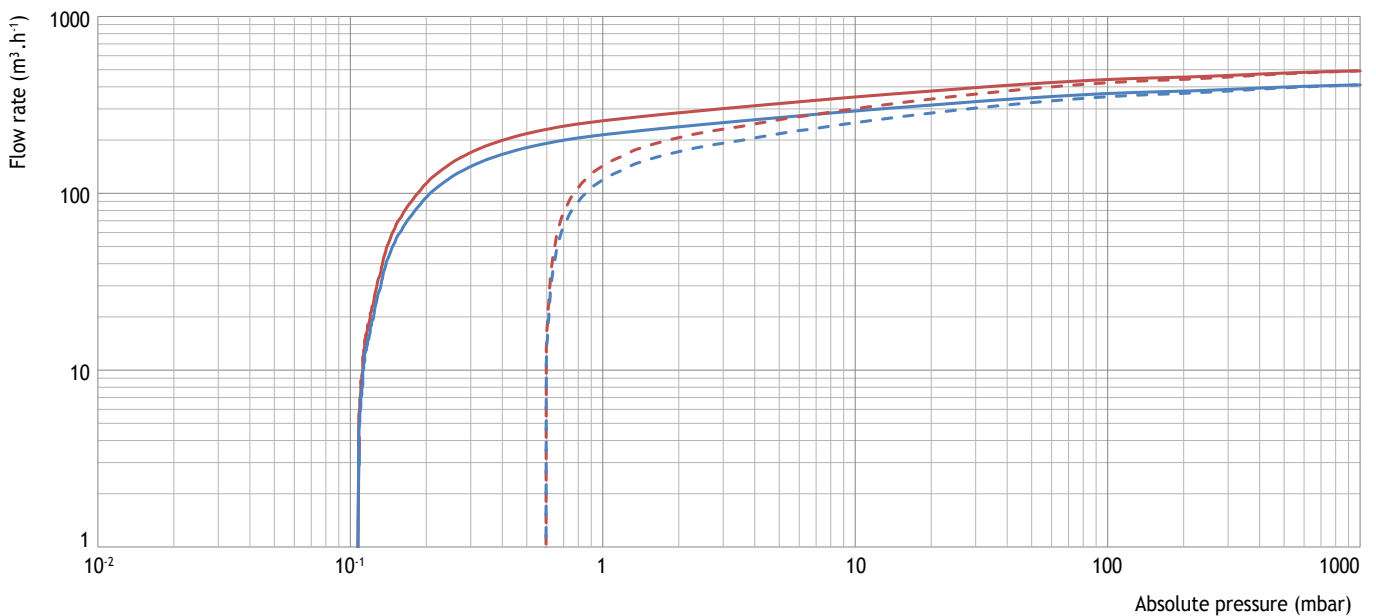


# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves



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


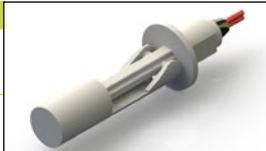

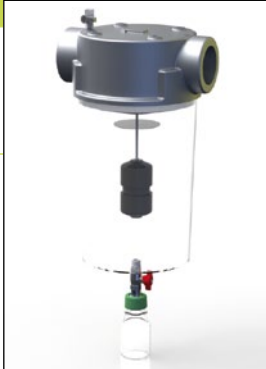
--- 60 Hz - with opened gas ballast  
--- 50 Hz - with opened gas ballast

## Pump references

	EVISA E400.3
<b>HV type</b> for 3-ph 400/690V 50Hz or 3-ph 460V 60Hz supply	<b>821174</b>
<b>MV type</b> with end vacuum 3 mbar for 3-ph 400/690V 50Hz or 3-ph 460V 60Hz supply	<b>817964</b>

*The pumps are delivered with the amount of oil required for their operation.*

## Accessory and option references

		EVISA E400.3
<b>1</b> Gas ballast		<b>1</b> Gas ballast for condensable vapor pumping <b>723978</b>
<b>2</b> Oil level safety		<b>Additional filter for gas ballast</b> <b>617710</b> <b>2</b> Oil level safety with float <b>623314</b>
<b>3</b> 301 type suction filter		Timer box for oil level safety base mounting <b>670810</b> Oil level safety and temperature indicator with bimetal thermostat NC opening at 120° C <b>623317</b> <b>PT100 temperature sensor + temperature display</b> <b>618255</b>
<b>4</b> Liquid trap 5NG with mechanical float and optional bottle		<b>3</b> Vacuum-tight suction filter 3" / DN80 - 301 type straight-through filter paper cartridge polyester cartridge carbon cartridge <b>717369</b> <b>717370</b> <b>717371</b> Vacuum meter fitted on filter <b>617536</b> Vacuum-tight suction filter ST301 straight-through / polycarbonate paper cartridge polyester cartridge <b>361627</b> <b>620166</b> Deflector for filters CT 301 and ST 301 <b>215696</b> Bracket for mural fixing for filters CT and ST <b>617512</b> Flanges for filters CT and ST <b>617513</b> Liquid trap 4NG 465 m <sup>3</sup> .h <sup>-1</sup> G2"1/2 polycarbonate cylinder / without float polycarbonate cylinder / with float painted steel cylinder / without float painted steel cylinder / with float <b>719920</b> <b>720811</b> <b>719437</b> <b>720812</b> <b>4</b> Liquid trap 5NG 650 m <sup>3</sup> .h <sup>-1</sup> G3" polycarbonate cylinder / without float polycarbonate cylinder / with float painted steel cylinder / without float painted steel cylinder / with float <b>717786</b> <b>720813</b> <b>717740</b> <b>720814</b> optional pyrex bottle 250 cc under trap <b>615441</b> optional pyrex bottle 500 cc under trap <b>615442</b> optional pyrex bottle 1000 cc under trap <b>615443</b>

# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



12 000 hour  
preventive  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket	720346
3 000 hour usual maintenance with cartridge VITON gasket	718379
12 000 hour preventive maintenance	617658
Gasket set	618060

## Accessory and option references

5  
Elevated  
base frame  
for 1 pump



		EVISA E400.3
Liquids trap 4NG / 5NG	Electro-pneumatic automatic drain with control board	816002
	Electrical automatic drain with control board	816003
	Flanges DN80 for liquids trap 5NG type	617513
Base frame assembly height 200 mm		618251
5 Elevated base frame height 525 mm - for 1 pump		617613
Direct starter	without control panel 3-ph 400V	770501
	with LG7 start and stop system 3-ph 400V	719239
Star/delta starter 400V+N+E		718390
with: 1 electric atmospheric pressure valve (230V - 50Hz)		617496
or: 1 pneumatic atmospheric pressure valve (6 bar)		618257
Exhaust double elbow mounting		623534
Special vacuum hose (1 m) with flanges DN80		617833
Special vacuum hose (0.6 m) DN80		618269
Special vacuum hose (1.5 m) MM 3"		719925
Special vacuum hose (4 m) M 3" - DN80		618573
Double acting electric butterfly cast iron valve DN80 with electric actuator 5/2 NF - 230V 50Hz		617522
Double acting pneumatic butterfly cast iron valve DN80 with electric actuator 5/2 NF - 230V 50Hz		617253
ALU adapter M 3" / DN80 ISO K		117130
ALU adapter DN80 ISO K		117129
ALU clamping collar		4 x 361653
Centering ring ALU / Perbunan		361650
Stainless steel hose (0.5 m) DN80 ISO K		361651
Stainless steel hose (1 m) DN80 ISO K		361652

# EVISA E500.3 HV



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.

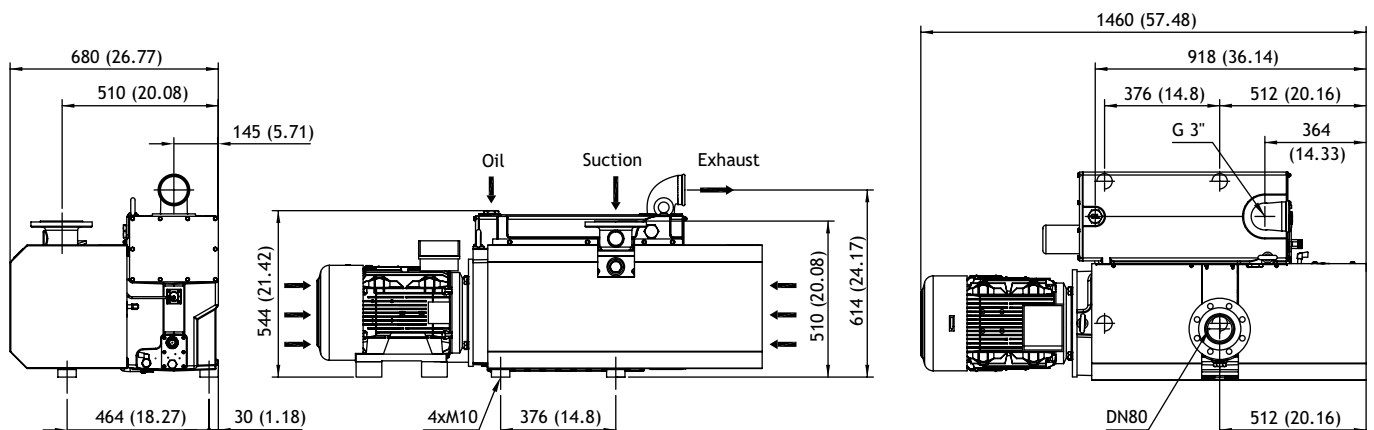
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $1 \cdot 10^{-1}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	513 m³ .h <sup>-1</sup>	302 cfm	616 m³ .h <sup>-1</sup>	362.6 cfm
Pumping speed *	496 m³ .h <sup>-1</sup>	291.6 cfm	595 m³ .h <sup>-1</sup>	350.2 cfm
Pumping speed at 1 mbar inlet pressure *	266 m³ .h <sup>-1</sup>	156.6 cfm	320 m³ .h <sup>-1</sup>	188.3 cfm
End vacuum - without gas ballast	≤ 1.10 <sup>-1</sup> mbar		≤ 0.08 torr	
End vacuum - with opened gas ballast	≤ 1 mbar		≤ 0.75 torr	
Water vapor permitted maximum pressure *	4.7 mbar		3.9 mbar	
Water vapor capacity *	0.9 kg.h <sup>-1</sup>			
Oil type	MV99S synthetic oil			
Oil capacity	10 l			
Noise level	73 dB(A)		75 dB(A)	
Motor voltage	3 ph	400/690V Δ/Y	460V Y	
Motor power	11 kW		13.2 kW	20 hp
Rotation speed	970 rpm		1175 rpm	
Motor version	IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection	DN80			
Outlet connection	3"			
Weight with oil	430 kg		949 lb	

\* Measurements according to Pneurop 6602 specifications - 20 °C

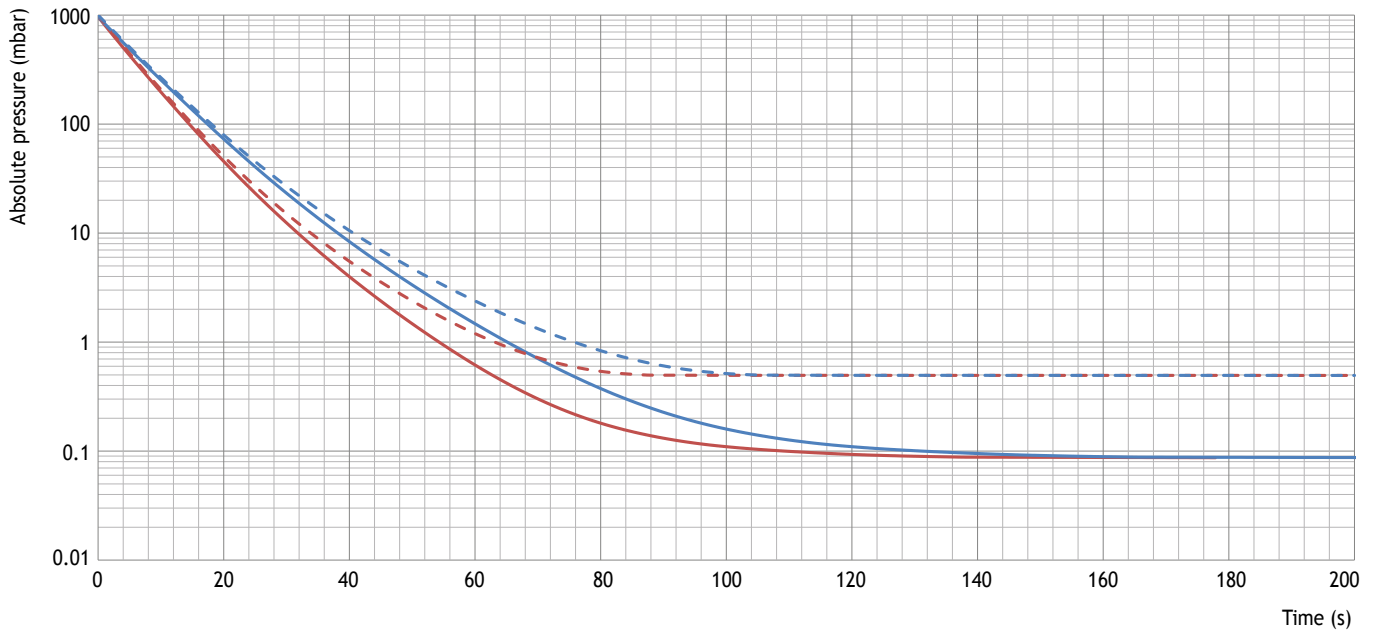
## Dimensions : mm (inch)



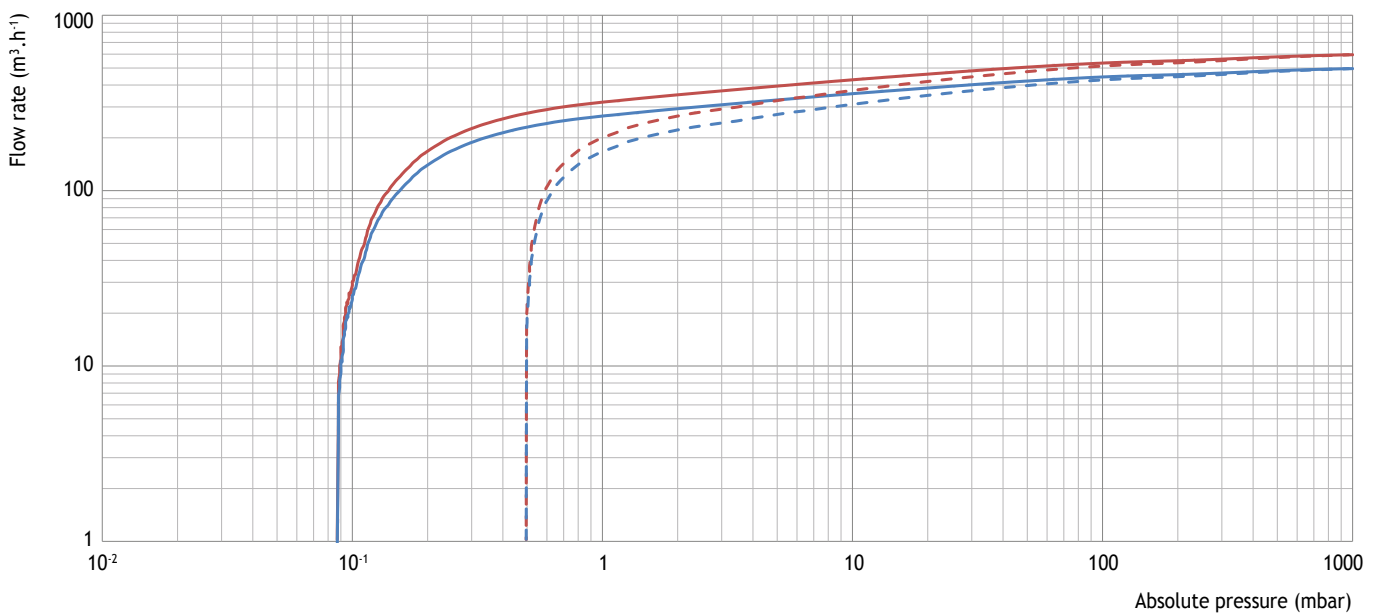


# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves



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


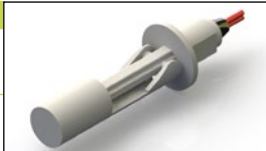

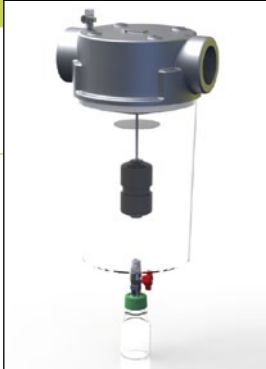
--- 60 Hz - with opened gas ballast  
--- 50 Hz - with opened gas ballast

## Pump references

	EVISA E500.3
<b>HV type</b> for 3-ph 400/690V 50Hz or 3-ph 460V 60Hz supply	<b>821175</b>
<b>MV type</b> with end vacuum 3 mbar for 3-ph 400/690V 50Hz or 3-ph 460V 60Hz supply	<b>817154</b>

*The pumps are delivered with the amount of oil required for their operation.*

## Accessory and option references

		EVISA E500.3
<b>1</b> Gas ballast 	<b>1 Gas ballast</b> for condensable vapor pumping	<b>723973</b>
	<b>Additional filter for gas ballast</b>	<b>617710</b>
<b>2</b> Oil level safety 	<b>2 Oil level safety with float</b>	<b>623314</b>
	<b>Timer box for oil level safety</b> bae mounting	<b>670810</b>
<b>3</b> 301 type suction filter 	<b>Oil level safety and temperature indicator</b> with bimetal thermostat NC opening at 120° C	<b>623317</b>
	<b>PT100 temperature sensor + temperature display</b>	<b>618255</b>
<b>4</b> Liquid trap 5NG with mechanical float and optional bottle 	<b>3 Vacuum-tight suction</b> paper cartridge	<b>717369</b>
	<b>filter 3" / DN80 - 301 type</b> polyester cartridge	<b>717370</b>
	straight-through filter carbon cartridge	<b>717371</b>
	<b>Vacuum-tight suction filter ST 301</b> paper cartridge	<b>361627</b>
	straight-through / polycarbonate polyester cartridge	<b>620166</b>
	<b>Deflector for filters CT 301 and ST 301</b>	<b>215696</b>
	<b>Flanges 3" / DN80 for filters CT and ST</b>	<b>617513</b>
	<b>Vacuum-tight suction filter CT 401</b> paper cartridge	<b>361106</b>
	4" - 884 m <sup>3</sup> .h <sup>-1</sup> straight-through polyester cartridge	<b>362234</b>
	<b>Vacuum-tight suction filter ST 401</b> paper cartridge	<b>362277</b>
	4" - 884 m <sup>3</sup> .h <sup>-1</sup> straight-through polyester cartridge	<b>362710</b>
	<b>Deflector for filters CT 401 and ST 401</b>	<b>215696</b>
	<b>Flanges 4" / DN100 for filters CT and ST</b>	<b>617514</b>
	<b>Bracket for mural fixing for filters CT and ST</b>	<b>617512</b>
	<b>Vacuum meter fitted on filter</b>	<b>617536</b>
	<b>4 Liquid trap 5NG</b> polycarbonate cylinder / without float	<b>717786</b>
	650 m <sup>3</sup> .h <sup>-1</sup> polycarbonate cylinder / with float	<b>720813</b>
	G3" painted steel cylinder / without float	<b>717740</b>
	painted steel cylinder / with float	<b>720814</b>
	optional pyrex bottle 250 cc under trap	<b>615441</b>
	optional pyrex bottle 500 cc under trap	<b>615442</b>
	optional pyrex bottle 1000 cc under trap	<b>615443</b>

# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



12 000 hour  
preventive  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket	720346
3 000 hour usual maintenance with cartridge VITON gasket	718379
12 000 hour preventive maintenance	617661
Gasket set	618060

## Accessory and option references

5  
Elevated  
base frame  
for 1 pump



		EVISA E500.3
Liquids trap 5NG	Electro-pneumatic automatic drain with control board	816002
	Electrical automatic drain with control board	816003
	Flanges DN80 for liquids trap 5NG type	617513
Base frame assembly height 200 mm		618251
5 Elevated base frame height 525 mm - for 1 pump		617613
Direct starter	without control panel 3-ph 400V	719237
	with LG7 start and stop system 3-ph 400V	719239
Star/delta starter 400V+N+E		718391
with: 1 electric atmospheric pressure valve (230V - 50Hz)		617496
or: 1 pneumatic atmospheric pressure valve (6 bar)		618257
Exhaust double elbow mounting		623534
Special vacuum hose (1 m) with flanges DN80		617833
Special vacuum hose (0.6 m) DN80		618269
Special vacuum hose (1.5 m) MM 3"		719925
Special vacuum hose (4 m) M 3" - DN80		618573
Double acting electric butterfly cast iron valve DN80 with electric actuator 5/2 NF - 230V 50Hz		617522
Double acting pneumatic butterfly cast iron valve DN80 with electric actuator 5/2 NF - 230V 50Hz		617253
ALU adapter M 3" / DN80 ISO K		117130
ALU adapter DN80 ISO K		117129
ALU clamping collar		4 x 361653
Centering ring ALU / Perbunan		361650
Stainless steel hose (0.5 m) DN80 ISO K		361651
Stainless steel hose (1 m) DN80 ISO K		361652

# EVISA E600.3 HV



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.

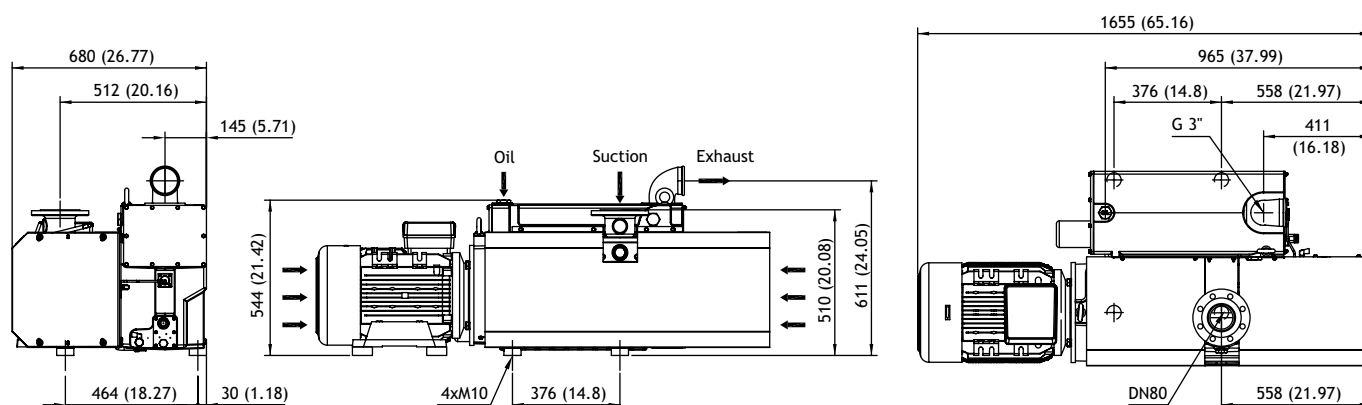
- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum:  $1 \cdot 10^{-1}$  mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

## Characteristics

	50 Hz		60 Hz	
Nominal air flow rate	634.9 m³.h <sup>-1</sup>	373.7 cfm	769.2 m³.h <sup>-1</sup>	452.8 cfm
Pumping speed *	581 m³.h <sup>-1</sup>	342 cfm	696 m³.h <sup>-1</sup>	409.7 cfm
Pumping speed at 1 mbar inlet pressure *	308 m³.h <sup>-1</sup>	181.3 cfm	370 m³.h <sup>-1</sup>	217.8 cfm
End vacuum - without gas ballast	≤ 1.10 <sup>-1</sup> mbar		≤ 0.08 torr	
End vacuum - with opened gas ballast	≤ 1 mbar		≤ 0.75 torr	
Water vapor permitted maximum pressure *	7.9 mbar		6.5 mbar	
Water vapor capacity *	2 kg.h <sup>-1</sup>			
Oil type	MV99S synthetic oil			
Oil capacity	10 l			
Noise level	74 dB(A)		76 dB(A)	
Motor voltage	3 ph	400/690V Δ/Y	460V Y	
Motor power		15 kW	17 kW	25 hp
Rotation speed	974 rpm		1180 rpm	
Motor version	IP55 motor	IE2 F-class	IP55 motor	F-class
Inlet connection	DN80			
Outlet connection	3"			
Weight with oil	500 kg		1102 lb	

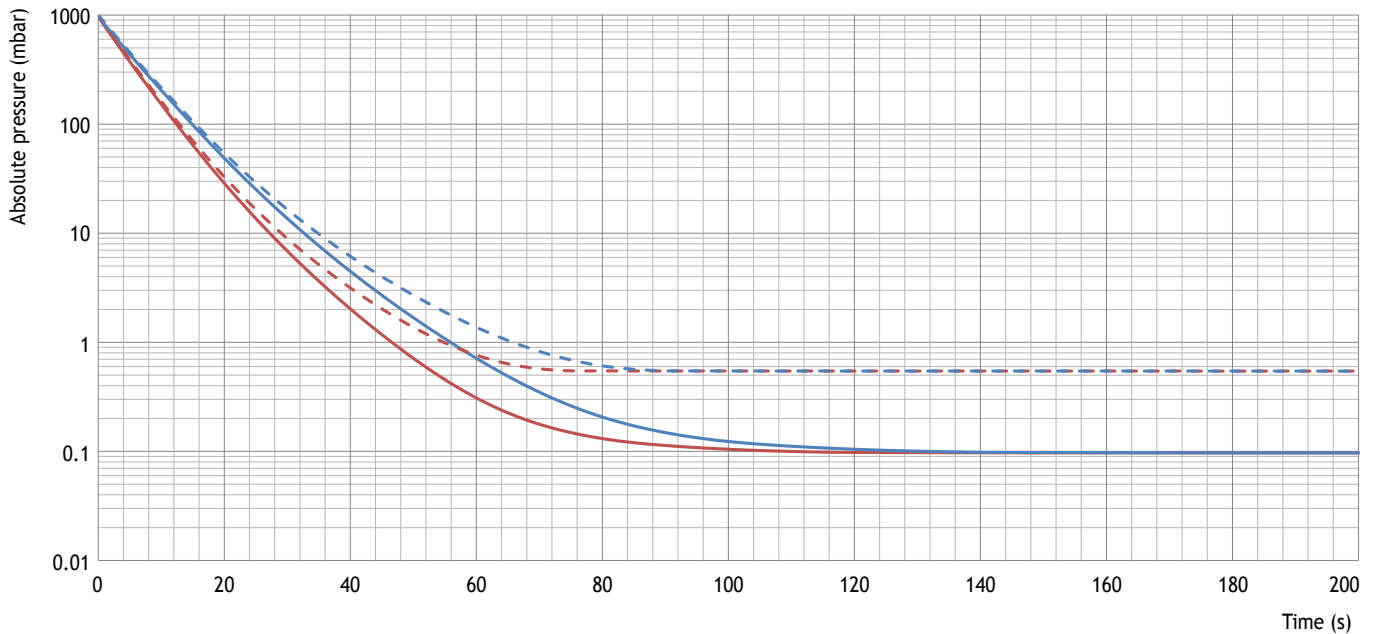
\* Measurements according to Pneurop 6602 specifications - 20 °C

## Dimensions : mm (inch)

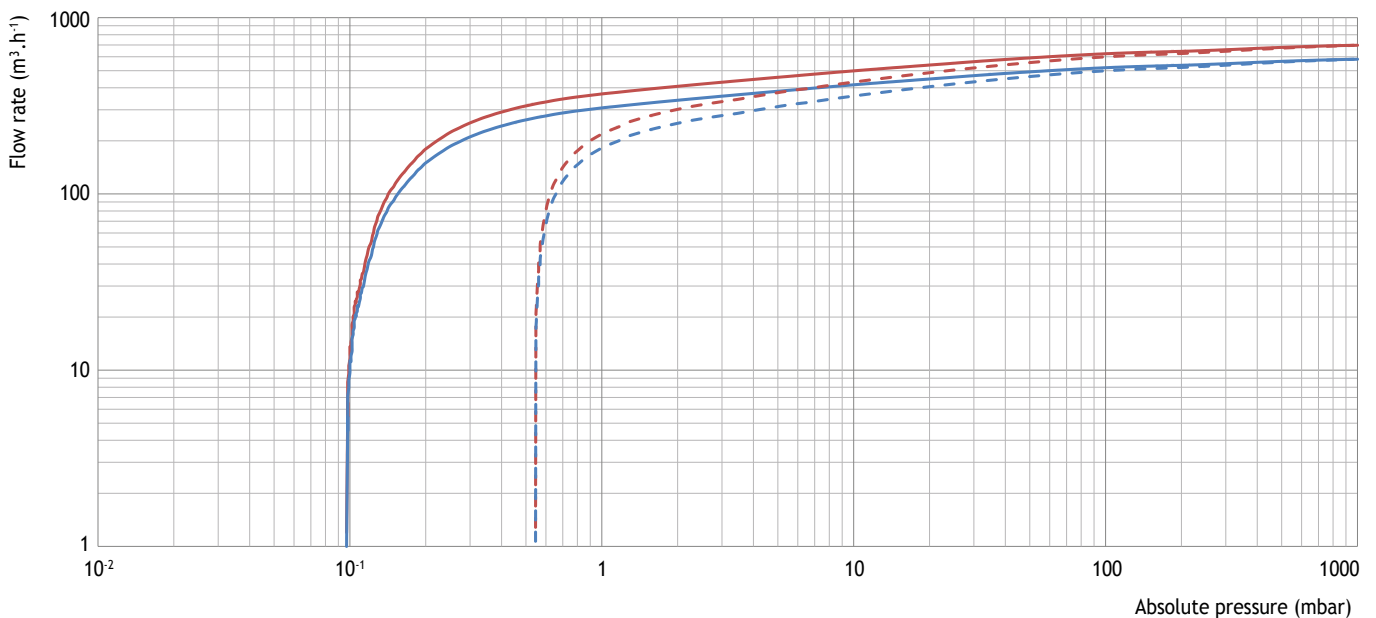


# Lubricated vane vacuum pumps

## Pumping speed on 1000 l vessel



## Performance curves



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


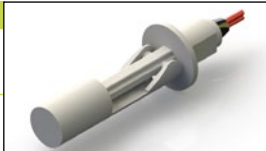

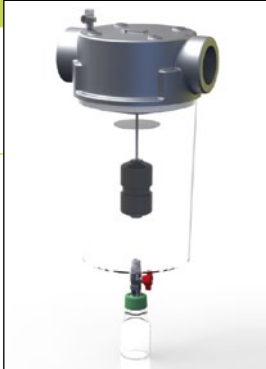
- - 60 Hz - with opened gas ballast  
- - 50 Hz - with opened gas ballast

## Pump references

	EVISA E600.3
<b>HV type</b> for 3-ph 400/690V 50Hz or 3-ph 460V 60Hz supply	<b>821176</b>
<b>MV type</b> with end vacuum 3 mbar for 3-ph 400/690V 50Hz or 3-ph 460V 60Hz supply	<b>818167</b>

*The pumps are delivered with the amount of oil required for their operation.*

## Accessory and option references

		EVISA E600.3
<b>1</b> Gas ballast		<b>1</b> Gas ballast for condensable vapor pumping <b>723956</b>
<b>2</b> Oil level safety		Additional filter for gas ballast <b>617710</b> <b>2</b> Oil level safety with float <b>623314</b>
<b>3</b> 401 type suction filter		Timer box for oil level safety bae mounting <b>670810</b> Oil level safety and temperature indicator with bimetal thermostat NC opening at 120° C <b>623317</b> PT100 temperature sensor + temperature display <b>618255</b>
<b>4</b> Liquid trap 5NG with mechanical float and optional bottle		Vacuum-tight suction filter 3" / DN80 - 301 type straight-through filter paper cartridge <b>717369</b> polyester cartridge <b>717370</b> carbon cartridge <b>717371</b> Vacuum-tight suction filter ST 301 straight-through / polycarbonate paper cartridge <b>361627</b> polyester cartridge <b>620166</b> Deflector for filters CT 301 and ST 301 <b>215696</b> Flanges 3" / DN80 for filters CT and ST <b>617513</b> <b>3</b> Vacuum-tight suction filter CT401 4" - 884 m <sup>3</sup> .h <sup>-1</sup> straight-through paper cartridge <b>361106</b> polyester cartridge <b>362234</b> Vacuum-tight suction filter ST 401 4" - 884 m <sup>3</sup> .h <sup>-1</sup> straight-through paper cartridge <b>362277</b> polyester cartridge <b>362710</b> Deflector for filters CT 401 and ST 401 <b>215696</b> Flanges 4" / DN100 for filters CT and ST <b>617514</b> Bracket for mural fixing for filters CT and ST <b>617512</b> Vacuum meter fitted on filter <b>617536</b> <b>4</b> Liquid trap 5NG 650 m <sup>3</sup> .h <sup>-1</sup> G3" polycarbonate cylinder / without float <b>717786</b> polycarbonate cylinder / with float <b>720813</b> painted steel cylinder / without float <b>717740</b> painted steel cylinder / with float <b>720814</b> optional pyrex bottle 250 cc under trap <b>615441</b> optional pyrex bottle 500 cc under trap <b>615442</b> optional pyrex bottle 1000 cc under trap <b>615443</b>

# Lubricated vane vacuum pumps

## Maintenance kit

3 000 hour  
usual  
maintenance



3 000 hour usual maintenance with cartridge silicone gasket	720347
3 000 hour usual maintenance with cartridge VITON gasket	720243
12 000 hour preventive maintenance	619095
Gasket set	620348

12 000 hour  
preventive  
maintenance



## Accessory and option references

5  
Elevated  
base frame  
for 1 pump



		EVISA E600.3
Liquids trap 5NG	Electro-pneumatic automatic drain with control board	816002
	Electrical automatic drain with control board	816003
	Flanges DN80 for liquids trap 5NG type	617513
Base frame assembly height 200 mm		618251
5 Elevated base frame height 525 mm - for 1 pump		617613
Direct starter	without control panel 3-ph 400V	719238
	with LG7 start and stop system 3-ph 400V	719239
Star/delta starter 400V+N+E		718392
with: 1 electric atmospheric pressure valve (230V - 50Hz)		617496
or: 1 pneumatic atmospheric pressure valve (6 bar)		618257
Exhaust double elbow mounting		623534
Special vacuum hose (1 m) with flanges DN80		617833
Special vacuum hose (0.6 m) DN80		618269
Special vacuum hose (1.5 m) MM 3"		719925
Special vacuum hose (4 m) M 3" - DN80		618573
Double acting electric butterfly cast iron valve DN80 with electric actuator 5/2 NF - 230V 50Hz		617522
Double acting pneumatic butterfly cast iron valve DN80 with electric actuator 5/2 NF - 230V 50Hz		617253
ALU adapter M 3" / DN80 ISO K		117130
ALU adapter DN80 ISO K		117129
ALU clamping collar		4 x 361653
Centering ring ALU / Perbunan		361650
Stainless steel hose (0.5 m) DN80 ISO K		361651
Stainless steel hose (1 m) DN80 ISO K		361652



# General conditions of sale and guarantee - Sales contract

## GENERAL POINTS

The orders noted and the commitments taken by the Representatives or Agents, are only binding on our company after its WRITTEN ACCEPTANCE.

The orders only become final after forwarding of an acknowledgment of receipt. They imply the acceptance of the present general conditions of sale notwithstanding any contrary clauses of our customers that have not been expressly accepted in writing.

The role of our company consists in manufacturing the equipment. It is not for it to appreciate the appropriateness of the choice of any equipment as regards its final destination or the use to which it is allocated.

Any information that we may be led to provide is only given in the framework of our productions and for information, and does not consist of indications regarding the choice of the equipment or the final use for which it is destined. In no case can our liability be incurred if there is no sale of equipment.

Our activity consists in manufacturing products ordered by our customers and it is not for us to appreciate the appropriateness of an order for the use to which it is destined by the purchaser.

The present general conditions and the special conditions insofar as the latter are not contrary to the present general conditions and still comply with general contract law and competition law can be completed by the Customer general conditions of purchase expressly accepted by the Supplier.

Any derogation to the present general conditions is subject to our express and written acceptance.

## TRANSFER OF OWNERSHIP - RESERVATION OF OWNERSHIP TRANSFER OF RISK

The merchandise shall remain our property up until the full payment of its price in principal and interest. Failing the payment of the price on the agreed due date, we shall be able to take back the merchandise, the sale being declared void if this seems proper to us, and the deposits already paid shall remain acquired by us in return for the enjoyment of the merchandise from which the purchaser will have benefited.

The purchaser becomes responsible for the merchandise as soon as it is collected from our factory, the transfer of possession leading to the transfer of risks. The purchaser undertakes, consequently, to take out, as at present, an insurance contract covering the risks of loss, theft or destruction of the merchandise.

## INTELLECTUAL PROPERTY AND KNOW-HOW FOR DOCUMENTS AND PRODUCTS

All intellectual property rights as well as know-how incorporated into forwarded documents, delivered products and provided services shall remain the exclusive property of our company.

## STUDIES AND PROJECTS

The studies and documents of any nature passed on or sent remain entirely our property. They cannot lead to communication or to execution by a third party.

## CANCELLATION OF A CONFIRMED ORDER

The cancellation or termination of an order in the course of execution for a cause outside our control, including force majeure, shall render the customer the debtor in respect to Mil's of compensation that, in no case, shall be less than 20% of the amount of the order, whatever may be its state of advancement, and any deposit already paid shall be kept as cover.

## RETURNS

No merchandise can be returned to the Company Mil's without the agreement of the latter.

## DELIVERY AND PRICE

THE DELIVERY IS DEEMED MADE IN OUR FACTORIES OR STORES. It is made by the direct handing-over to the customer, by simple notice of availability, or by handing-over to a shipper or to a carrier appointed by the customer or, failing such appointment, chosen by us.

The delivery times are given for information and are not guaranteed. Delivery delays do not give the purchaser

the right to cancel the sale or to refuse the merchandise. They cannot give rise to retention, compensation, penalty or damages.

## THE PRICES ARE UNDERSTOOD TO EXCLUDE TAX FOR THE EQUIPMENT NOT PACKED TAKEN IN OUR FACTORIES OR STORES, THOSE PRICES ARE IN EUROS.

## CONDITIONS OF USE

All equipment is delivered accompanied by technical instructions that we recommend should be followed. If these instructions are not attached, they will be immediately forwarded on simple request.

## PAYMENT CONDITION

In case of no negotiation before ordering, the payment term is by swift transfer at reception of invoice, with minimum of 60 € net. (Payments are made in euros unless otherwise stipulated in the agreement).

It is expressly agreed and failing timely request for postponement and granted by us, the failure to pay our invoices by the date indicated on the said invoices and by the date resulting from the application of our general sales conditions, if it is after the first date, shall lead to :

1. the immediate payability on the amounts remaining due,
2. the interests calculated at a rate equal to 15% per year and any legal costs.
3. in accordance to the law n° 2012-387 dated 22/03/2012 and to the modification of L 441-3 article of Commerce Code: "for any payment effected after the deadline, a penalty charge will be legally due, for recovery costs, to the creditor. The amount of this charge is stated at 40 € by the Decree dated 02/10/2012."

We do not grant discount for early payment, unless it has been negotiated at the time of the order.

Notification of the customer situation :

In case the deterioration of the customer situation is noticed by any means and/or certified by a significant delay in payment or when the financial situation is appreciably different from the available data, the delivery will be made only in compensation for an immediate payment.

## TRANSPORT

All transport operations, insurance, customs, handling carried out ARE PAYABLE BY AND AT THE RISKS OF THE PURCHASER who is responsible for checking the shipments on arrival and for taking action, if appropriate, against the carriers.

In the case of dispatch ensured by us, this shall be made carriage due, full responsibility resting with the purchaser.

Our company, at the request of the customer, shall insure the merchandise against transport risks, and shall invoice, as a supplement, the cost of this insurance.

## GUARANTEE OF THE EQUIPMENT

Our merchandise is guaranteed one year, as from the date IT IS MADE AVAILABLE, against any construction defect or any fault in the material.

In all cases, if the equipment is used by several teams, the period of the guarantee is necessarily reduced by half. For the components that are not of our manufacture, we are not substituted in the conditions of guarantee of the supplier constructor.

The guarantee does not apply to replacements or to repairs that could result from normal wear of the instruments, deterioration or accidents due to a defect in surveillance or installation and improper use. Likewise are excluded from the field of application of the guarantee, deteriorations resulting from damage during transport, falls, or violent shocks.

The guarantee is limited to the free replacement, in our workshops, of the machine pieces or parts recognised as defective due to material fault or manufacturing defect, with the exclusion of labour. The pieces replaced remain our property.

The transport costs, the outward as the return journey, are to be paid by the customer.

The guarantee ceases if the instruments are modified or repaired outside our workshops. The passage through our

workshops does not lead to the extension of the period of initial guarantee of the machine. Replacement parts or remade pieces are guaranteed 6 months, as from the delivery date after our intervention. The guarantee shall not apply in the event of non-payment by the customer and he cannot take advantage of it or postpone his payments.

## LOAN OF EQUIPMENT

Our company may have to lend some material for a determined duration under conditions defined in a loan contract. At the end of the agreed period, the customer shall notify if the material on loan will be returned or ordered.

In the absence of any notification within this period, the sale shall be deemed to be effective, as the customer will be presumed to have accepted the delivered product.

## ELIMINATION OF WASTE

"In accordance with article 18 of the decree N° 2005-829 of July 20th, 2005 relating to the composition of the electrical and electronic equipment, the customer will be responsible for the financing and organisation of the elimination of waste from this equipment under the conditions defined in articles 21 and 22 of the said decree. In case of control, the producer may ask his customer to send him the documents establishing he fulfils, as regard this equipment, all the obligations transferred with the sales contract.

If the customer fails to forward these documents, he will be presumed to be liable for non-fulfilment of the obligations he is responsible for and the manufacturer reserves the right to ask him compensation for any damage that he could suffer thereby".

## DISPUTES

In the case of disagreement relating to a delivery or its payment, the Lyon Commercial Court is the sole competent, whatever may be the sales conditions and the method of payment chosen, even in the case of proceedings against the guarantor or more than one defendant. The applicable law, regarding the seller and the buyer respective obligations, is the French law.

## SPECIAL CONDITIONS

The special conditions and those that may be indicated in the documentations, quotes or prices forwarded only modify the sales conditions on the precise points to which they relate. The general sales and guarantee conditions of our company are those accepted by the Fédération des Industries Mécaniques et Transformatrices de Métaux (Federation of Mechanical Industries and Metal Transformers), on condition that they are not contrary to what precedes.

The FIM professional business conditions are registered in the Commercial Court in Paris under N° 2005048625.

## MODIFICATION OF GENERAL CONDITIONS OF SALES AND GUARANTEE

The seller reserves the right to modify, at any time, the herein general conditions of sales and guarantee and, in such case, the modified conditions will apply to any order set after the modification date, this, even for complementary or supplementary orders referring to previous operations.



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