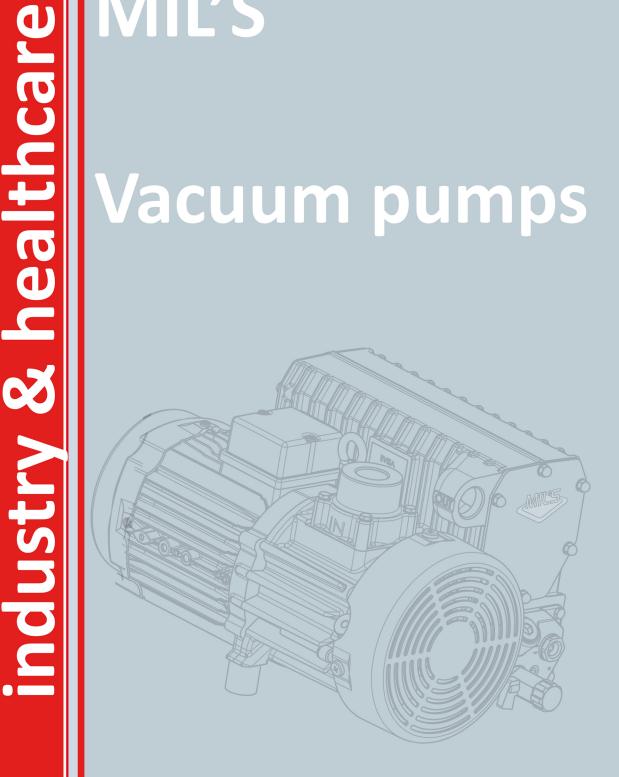
MIL'S

Vacuum pumps



Since 1926

Designer and manufacturer for industry and healthcare application

2

LUBRICATED TECHNOLOGY

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MIL'S General conditions of sales and 96 guarantee - Sales contact





PACKAGING

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



ENVIRONMENTAL ENGINEERING

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



FOOD AND BEVERAGE INDUSTRY

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



CHEMICAL AND PHARMACEUTICAL INDUSTRIES

- Degasing
- Distillation
- Drying and freeze drying
- Packaging



WOOD INDUSTRY

- Coating, bonding
- Holding and lifting
- Impregnation

MIL'S: made in

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

Our 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, oilless vacuum pumps, blowers, roots) allow us to answer to any requirement of vacuum solutions for Industry or Healthcare.

50 Hz	
Nominal air flow rate m ³ .h ⁻¹ - cfm	
End vacuum	mbar
Without gas ballast	torr
Motor power 1-ph	
Motor power 3-ph	
Special version ATEX	
Special version OXYGEN	
<u> </u>	
60 Hz	
·	
60 Hz	mbar
60 Hz Nominal air flow rate m³.h ⁻¹ - cfm	mbar torr
60 Hz Nominal air flow rate m³.h ⁻¹ - cfm End vacuum	
60 Hz Nominal air flow rate m³.h¹- cfm End vacuum Without gas ballast	
Nominal air flow rate m³.h¹- cfm End vacuum Without gas ballast Motor power 1-ph	

Evisa 25.2	Evisa 25.R	Evisa 40.2	Evisa 40.R	Evisa 65.R
30 - 17.7	28 - 16.4	47.7 - 28.1	44 - 25.9	68 - 40
≤ 5.10 ⁻¹ ≤ 3,8.10 ⁻¹	$\leq 6.10^{-2}$ $4,5.10^{-2}$	$\leq 5.10^{-1}$ $\leq 3.8.10^{-1}$	$\leq 6.10^{-2}$ $4,5.10^{-2}$	$\leq 6.10^{-2}$ $4,5.10^{-2}$
0.75 kW	0.75 kW	1.10 kW	1.10 kW	N.A
0.75 kW	0.75 kW	1.10 kW	1.10 kW	1.5 kW
N.A	N.A	N.A	N.A	ATEX
OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN
Evisa 25.2	Evisa 25.R	Evisa 40.2	Evisa 40.R	Evisa 65.R
35.3 - <i>20.8</i>	33 - 19.4	57.2 - <i>33.7</i>	53 - 31.2	81.6 - 48
≤ 5.10 ⁻¹ ≤ 3,8.10 ⁻¹	$\leq 8.10^{-2}$ 6.10^{-2}	≤ 5.10 ⁻¹ ≤ 3,8.10 ⁻¹	$\leq 6.10^{-2}$ 4.5×10^{-2}	$\leq 6.10^{-2}$ 4.5×10^{-2}
0.9 kW	0.9 kW	1.30 kW	N.A	N.A
0.9 kW	0.9 kW	1.30 kW	1.32 kW	1.8 kW
N.A	N.A	N.A	N.A	ATEX
OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN

100 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 ISO 13485 certified and answers to all quality criterias of a modern producer.

PLASTIC AND COMPOSITE INDUSTRIES

- Degasing
- Pneumatic conveying
- Resin transfer
- · Vacuum bagging

GLASS INDUSTRY

- Coating
- Forming

SOLAR AND ENERGY INDUSTRIES

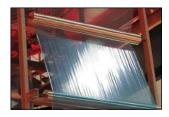
- Coating
- Handling
- Lamination
- · Oil degasing
- · Power engineering

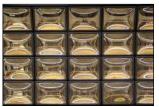
HEALTHCARE

- Surgery
- Obstetrics
- Anesthesia, resuscitation

GENERAL PURPOSE

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











Selection tool EVISA

Evisa 100.R	Evisa 150.R	Evisa 200.R	Evisa 300.R	Evisa 350.R	Evisa 400.R	Evisa 500.R	Evisa 600.R
100 - 58.8	132 - 77.7	200 - 117.7	300 - 176.5	360 - 211.9	426 - 250.7	513 - <i>302</i>	635 - <i>373.7</i>
$\leq 6.10^{-2}$ 4.5×10^{-2}	$\leq 8.10^{-2}$ 6.10^{-2}	$\leq 6.10^{-2}$ $4,5.10^{-2}$	$\leq 6.10^{-2}$ $4,5.10^{-2}$	≤ 1.10 ⁻¹ 8.10 ⁻²			
N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
2.2 kW	3 kW	4 kW	5.5 kW	7.5 kW	9 kW	11 kW	13 kW
ATEX	N.A	ATEX	ATEX	N.A	N.A	N.A	N.A
OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN
Evisa 100.R	Evisa 150.R	Evisa 200.R	Evisa 300.R	Evisa 350.R	Evisa 400.R	Evisa 500.R	Evisa 600.R
120 - 70.6	156 - 91.8	240 - 141.3	360 - 211.8	432 - 254.3	511 - 300.8	616 - 362.6	769 - 452.8
$\leq 6.10^{-2}$ 4.5×10^{-2}	≤ 8.10 ⁻² 6.10 ⁻²	$\leq 6.10^{-2}$ 4.5×10^{-2}	$\leq 6.10^{-2}$ $4,5 \times 10^{-2}$	≤ 1.10 ⁻¹ 8.10 ⁻²			
N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
2.64 kW	3.6 kW	4.8 kW	6.6 kW	9 kW	10.8 kW	13.2 kW	15.6 kW
ATEX	N.A	ATEX	ATEX	N.A	N.A	N.A	N.A
OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN	OXYGEN

High performance oil-flooded vacuum pumps



New generation of vacuum pumps with fast pumping speed due to 6.10⁻² mbar absolute end vacuum

High flow rate at 1 mbar

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

Installation near operators





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



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

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





Possible customisation of the protection cover

Options:

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





EVISA E25.2 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 silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum: 5.10⁻¹ mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

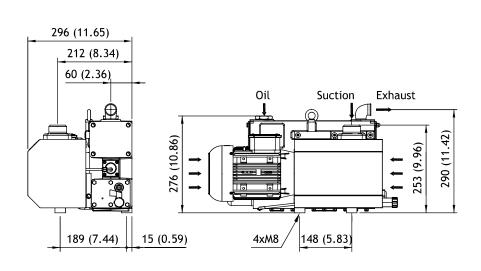
Technical characteristics

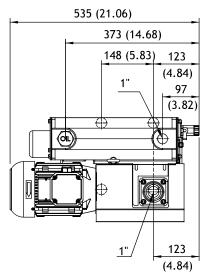
			50 Hz	60 Hz
	Nominal flow rate n	n³.h ⁻¹ - <i>cfm</i>	30 - 17,7	35,3 - 20,8
	PNEUROP pumping	speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	28 - 16,5	33,6 - 19,8
	Pumping speed at 1	mbar inlet pressure ⁽¹⁾ m ³ .h ⁻¹ - cfm	9,8 - <i>5,8</i>	11,7 - 6,9
	Without gas ballast	End vacuum mbar - torr	≤ 5.10 ⁻¹ - ≤ 3,8.10 ⁻¹	≤ 5.10 ⁻¹ - ≤ 3,8.10 ⁻¹
E25.2	e	End vacuum mbar - torr	≤ 2 - 1,5	≤ 2 - 1,5
HV	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	16,9 - 12	18,7 - 13,5
		Water vapor capacity kg.h ⁻¹	0.27	0.36
	100 % synthetic oil		MV99S	MV99S
	Oil capacity - qt		1,5 - <i>1,58</i>	1,5 - <i>1,58</i>
	Noise level dB(A)		60	62

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

GEOGRAPHIC ZONE		EUR	ОРЕ	ASIA MIDDLE-EAST	SOUTH AMERICA	USA
	Number of phases	1	3	3	3	3
	Voltage V	230	230 / 400	220/380	190 / 380	208-230/460
Electrical motor	Period Hz	50	50	60	50	60
motor	Motor power	0,75 kW	0,75 kW	0,9 kW	0,75 kW	1,50 HP
	Rotation speed min ⁻¹	1500	1500	1800	1500	1800
Inlet conne	ction	1" BSP	1" BSP	1" BSP	1" NPT	1" NPT
Outlet conn	nection	1" BSP	1" BSP	1" BSP	1" NPT	1" NPT
Weight witl	h oil kg - lb	39 - <i>86</i>	39 - 86	44 - 97	44 - 97	44 - 97

Dimensions mm (inch)





References

E25.2 HV

	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 1ph, 230V-50Hz	821148 + 770800	821148
EUROPE 3ph, 230/400V-50Hz	821151 + 770800	821151
ASIA / MIDDLE EAST 3ph,220/380V-60Hz	823858 + 770800	823858
SOUTH AMERICA / USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824055 + 770800	824055



Maintenance kits

3 000 hour usual maintenance with silicone o'ring for oil mist filter	720341
3 000 hour usual maintenance with viton o'ring for oil mist filter	718374
12 000 hour preventive maintenance	615484



3 000 hour usual maintenance

12 000 hour preventive maintenance



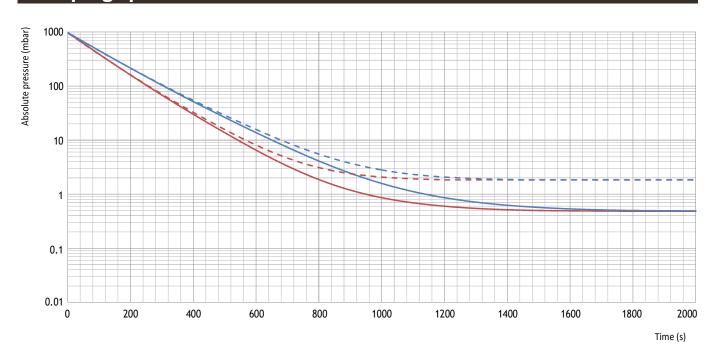


EVISA E25.2 HV

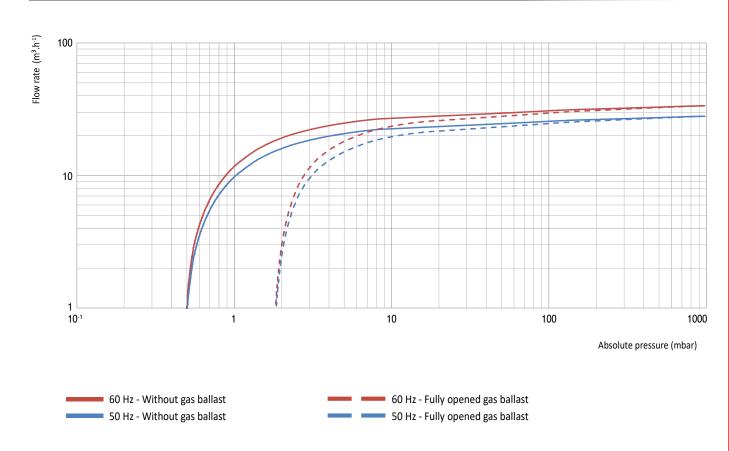
Accessories and Options

1 Oil Level Safety	(OLS) wi	th float	616111		
Timer box for oil le	vel safet	y (base mounting)	670810		
Oil level safety and with bimetal thermos	-	ature indicator ening at 120°C - Max 24V	623315		
Oil Level Safety and	PT100	temperature sensor	623975		
PT100 temperature	sensor		623980		
		Paper cartridge	715347	Oil level safety	
2 3/4" BSP suction filter Type 76		Polyester cartridge	715348		
Туре 70		Carbon cartridge	715349		
Vacuum gauge fitte	d on filt	er cover	617536		
3/4" BSP paper/pa	per doul	ole filtration 76PA + 76PA	670613		
3/4" BSP polyester	/carbon	double filtration 76PO + 76CH	670616		
	Alumini	um head / plexiglass cylinder / without mechanical float	724793		
	Alumini	um head / plexiglass cylinder / with mechanical float	724794		
	Alumini	um head / Pyrex cylinder / without mechanical float	724807		
3 Liquid trap 100	Alumini	um head / Pyrex cylinder / with mechanical float	724808		
48 m ³ .h ⁻¹	Stainles	s steel head / Pyrex cylinder / without mechanical float	724795		
1" BSP	Stainles	s steel head / Pyrex cylinder / with mechanical float	724796	suction filter	
	Pyrex b	ottle 250 ml under trap assembly	615441	type 76	
	Pyrex b	ottle 500 ml under trap assembly	615442		
	Pyrex b	ottle 1000 ml under trap assembly	615443		
Electro-pneumatic	automat	tic drain with control board	816002		
Electrical automatic	c drain v	vith control board	816003		
Adjusting valve fitted on T-square			713840		
Vacuum hose (0,6 r	n) FF 3/4	1" BSP	606086		
Vacuum hose (1 m)	FF 3/4"	BSP	604422		
Vacuum hose (1,5 r	n) FF 3/4	1" BSP	618264		
Vacuum hose (2 m)	FF 3/4"	BSP	616085		
Vacuum hose (3 m)	FF 3/4"	BSP	670010		
Vacuum hose (4 m)	FF 3/4"	BSP	618131		
Suction hose with r	non-retu	rn valve (1 m)	770151	3 Liquid trap 100	
Exhaust double elb	ow mou	nting	624163	with mechanical	
Base frame assemb	ly heigh	t 150 mm	670804	stop and	
		For 1 pump	617610	optional bottle	
Elevated base fr	ame	For 2 pumps	619543		
(H=525 mm)		For 3 pumps	619546		
	Withou	it regulation contact 3-ph 400V + E	770495		
	Withou	it regulation contact 3-ph 230V + E	770496		
Direct starter	Withou	it regulation contact 1-ph 230V + E	770503		
(wall mounting)	With regulation contact LG7 3-ph 400V		710422		
	With regulation contact LG7 3-ph 230V		710430		
	With re	egulation contact LG7 1-ph 230V	710428		
Control board with for warm up and de	FLEXO s	olenoid valve 3-ph, 400V+ N	770811	4 Elevated base frame	
Control board with for degasing cycle	FLEXO s	olenoid valve 3-ph, 400V + N	770818	for 2 pumps	
) with O	N/OFF switch -1-ph 230V + E	363052		
	,				

Pumping speed on 1000 l vessel



Performance curves







The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump with the end vacuum of 6.10⁻² mbar
- Compactness and noise level optimized for an easy integration in machines
- High water vapor pumping capacity with finely adjustable gas ballast
- Designed for light onsite maintenance without piping disconnection
- Integrated oil mist filter on the exhaust

Technical characteristics

			50 Hz	60 Hz
	Nominal flow rate m	3.h ⁻¹ - cfm	28 - 16,4	33 - 19,4
	PNEUROP pumping	speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	26 - 15,3	31 - 18,2
	Pumping speed at 1	mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	18,6 - 10,9	20,8 - 12,2
	Without gas ballast	End vacuum mbar - torr	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 8.10 ⁻² - 6.10 ⁻²
Opened gas ballast 1,5 rotation	End vacuum mbar - torr	≤ 6.10 ⁻¹ - 4,5.10 ⁻¹	≤ 6.10 ⁻¹ - 4,5.10 ⁻¹	
		Water vapor permitted maximum pressure mbar - torr	7,3 - <i>5,5</i>	13 - 9,8
	1,5 rotation	Water vapor capacity kg.h ⁻¹	0,11	0,24
	Fully opened gas	End vacuum mbar - torr	≤ 6 - <i>4,5</i>	≤ 6.0 - <i>4,5</i>
		Water vapor permitted maximum pressure mbar - torr	130 - 97	180 - <i>135</i>
	Dallast	Water vapor capacity kg.h ⁻¹	2,1	3,6
	Without gas ballast	End vacuum mbar - torr	≤ 2 - 1,5	≤ 2 - 1,5
505 B		End vacuum mbar - torr	≤ 3- 2,2	≤ 3 - 2,2
E25.R	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	88 - 66	114 - 85
	Dallast	Water vapor capacity kg.h ⁻¹	1,4	2,2
	100 % synthetic oil		MV99S	MV99S
	Oil capacity - qt		1 - 1,1	1- 1,1
	Noise level dB(A)		59	63

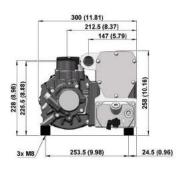
 $^{^{} ext{(1)}}$ Measurements according to PNEUROP 6602 specifications - 20°C

GEOGRAPHIC ZONE		EUR	ОРЕ	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
	Number of phases	1	3	3	3	3	3
Electrical motor	Voltage ∨	230	230 / 400	220 / 380	190 / 380	208-230/460	200 / 380
	Period Hz	50	50	50 / 60	50	60	50/60
	Motor power	0,75 kW	0,75 kW	0,75 / 0,90 kW	0,75 kW	1,50 HP	0,75 / 0,90 kW
	Rotation speed min ⁻¹	1500	1500	1500/1800	1500	1800	1500/1800
Inlet connection (2)		1" BSP	1" BSP	1" BSP	1" NPT	1" NPT	1" BSP
Outlet connection (3)		1" BSP	1" BSP	1" BSP	1" NPT	1" NPT	1" BSP
Weight with	Weight with oil kg - lb		30 - 66,2	30 - 66,2	30,8 - 67,9	30,8 - <i>67,9</i>	30,8 - <i>67,9</i>

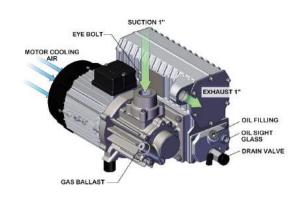
⁽²⁾ DN 25 ISO-KF adaptation flange can be supplied, see accessories

⁽³⁾ DN 25 ISO-KF connector can be supplied, see accessories

Dimensions mm (inch)







References

	E25	E25.R HV		5.R
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 1ph, 230V-50Hz	824179	824181	824183	824185
EUROPE / ASIA 3ph, 230/400V-50Hz, 220/380V-50/60Hz	824091	824187	824090	824189
SOUTH AMERICA / USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824094	824191	824193	824195
JAPAN 3ph, 200/380V-50/60Hz	824096	824197	824199	824201

Oxygen version available - Contact us

HV accessories - KF connection



Suction filter
DN25KF -Type 100

Suction flange DN25KF		625029
	Paper cartridge	625030
1 Suction filter DN25KF - Type 100	Polyester cartridge	625031
	Carbon cartridge	625032
Aluminium clamping ring DN25KF	361638	
Stainless steel / Viton DN25KF centering	361641	
Stainless steel DN25KF hose - 0,5 m	361644	
Stainless steel DN25KF hose - 1 m	361645	
Elbow DN25KF	333827	
Equal T-square DN25KF	333828	
Manual ball valve DN25KF	333829	
Solenoid valve DN25KF	333830	
Exhaust adapter 1" BSP - DN25KF		625019

Maintenance kits

3 000 hour usual maintenance with silicone o'ring for oil mist filter	724572
3 000 hour usual maintenance with viton o'ring for oil mist filter	724573
12 000 hour preventive maintenance	724583

3 000 hour usual maintenance





EVISA E25.R

Accessories and Options

Additional rubber f	oot		625169
1 Oil Level Safety	(OLS) wi	th float	625020
PT100 temperature	625021		
NC bimetal temperature safety - opening at 120°C - Max 24V			625022
		Paper cartridge	714975
1" BSP suction fi	ilter	Polyester cartridge	714976
Type 100		Carbon cartridge	714977
Ø63 vacuum gauge	fitted o	n filter	617536
1" BSP polyester/ca	arbon do	puble filtration 100PO + 100CH	625023
Adjusting valve fitte	ed on T-s	square MF 1" BSP	714979
	Alumini	um head / plexiglass cylinder / without mechanical float	724793
	Alumini	um head / plexiglass cylinder / with mechanical float	724794
	Alumini	um head / Pyrex cylinder / without mechanical float	724807
Liquid trap 100	Alumini	um head / Pyrex cylinder / with mechanical float	724808
48 m³.h ⁻¹	Stainles	s steel head / Pyrex cylinder / without mechanical float	724795
1" BSP	Stainles	s steel head / Pyrex cylinder / with mechanical float	724796
	Pyrex b	ottle 250 ml under trap assembly	615441
	Pyrex b	ottle 500 ml under trap assembly	615442
	Pyrex bottle 1000 ml under trap assembly		
Electro-pneumatic	automat	ic drain with control board	816002
Electrical automatic	c drain w	vith control board	816003
Vacuum hose (0,6 r	n) MF 1'	'BSP	618265
Vacuum hose (1 m)	MF 1" E	BSP	617372
Vacuum hose (1,5 r	n) MF 1'	'BSP	618266
Vacuum hose (2 m)	MF 1" E	BSP	616179
Suction hose (1m) I	MM 1" v	vith no return valve	714980
No return valve MF	1" BSP		618457
Base frame assemb	ly (H=15	60 mm)	625012
		For 1 pump	625013
4 Elevated base fr (H=525 mm)	ame	For 2 pumps	625014
		For 3 pumps	625015
	Withou	t regulation contact 3-ph 400V + E	770495
	Withou	rt regulation contact 1-ph 230V + E	770503
Direct starter (wall mounting)	With re	egulation contact LG7 3-ph 400V + N + E	710422
(wan mounting)	With re	gulation contact LG7 1-ph 230V + E	710428
	With re	egulation contact LG7 + OLS Timer 3-ph 400V + N + E	724576
With regulation contact LG7 + OLS Timer 1-ph 230V + E			724577
	•	on contact LG7 and Flexo valve system - 3-ph 400V + N + E	724578
	_	on contact LG7 and Flexo valve system - 1-ph 230V + E	724579
Electrical cable (3m) with O	N/OFF switch -1-ph 230V + E	625016
Direct starter suppo	ort for b	ase fixation	625017





suction filter type 100

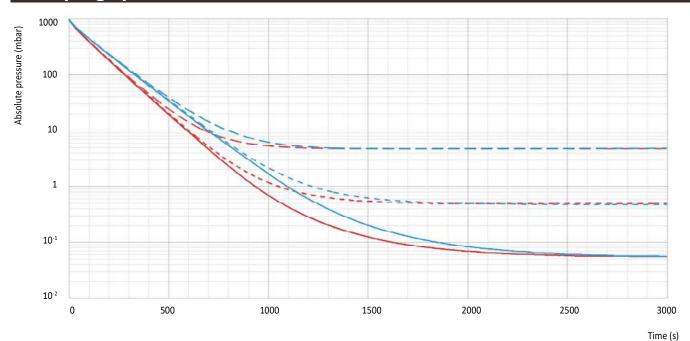


Liquid trap 100 with mechanical stop and optional bottle

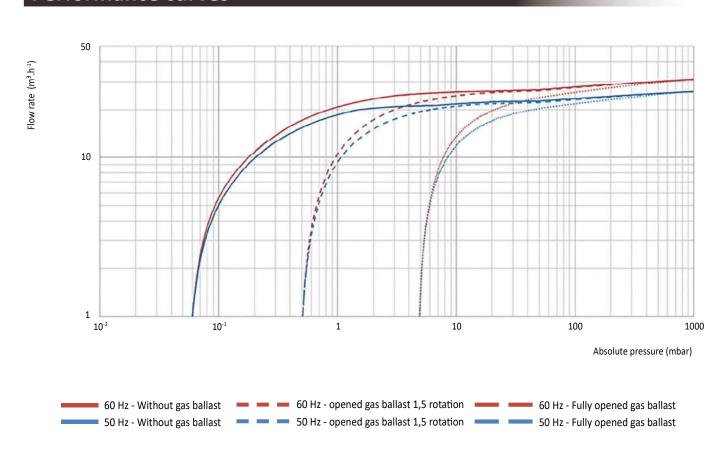


Elevated base frame for 2 pumps

Pumping speed on 1000 l vessel



Performance curves







EVISA E40.2 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 silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum : 5.10⁻¹ mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust

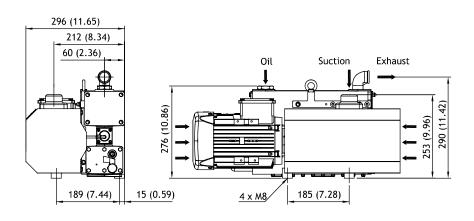
Technical characteristics

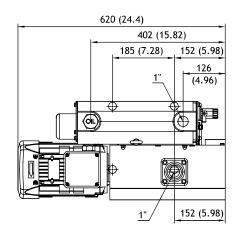
			50 Hz	60 Hz
	Nominal flow rate	m³.h ⁻¹ - <i>cfm</i>	47,7 - 28,1	57,2 - <i>33,7</i>
	PNEUROP pumping	g speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	41,5 - 24,4	49,8- 29,3
	Pumping speed at	1 mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	14,4 - 8,47	11,7 - 6,9
	Without gas ballas	t End vacuum mbar - torr	≤ 5.10 ⁻¹ - ≤ 3,8.10 ⁻¹	≤ 5.10 ⁻¹ - ≤ 3,8.10 ⁻¹
E40.2		End vacuum mbar - torr	≤ 1,5 - 1,13	≤ 1,5 - 1,13
HV	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	14,8 - 10,5	16,6 - 12
		Water vapor capacity kg.h ⁻¹	0,37	0,49
	100 % synthetic oil		MV99S	MV99S
	Oil capacity - qt		1,5 - <i>1,58</i>	1,5 - <i>1,58</i>
	Noise level dB(A)		62	64

 $^{^{(1)}}$ Measurements according to PNEUROP 6602 specifications - $20^{\circ}C$

GE	OGRAPHIC ZONE	EUROPE	EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA
	Number of phases	1	3	3	3	3
	Voltage V	230	230 / 400	265/460	190 / 380	208-230/460
Electrical motor	Period Hz	50	50	60	50	60
illotoi	Motor power	1,1 kW	1,1 kW	1,3 kW	1,10 kW	2 HP
	Rotation speed min ⁻¹	1500	1500	1800	1500	1800
Inlet connection		1" BSP	1" BSP	1" BSP	1" NPT	1" NPT
Outlet connection		1" BSP	1" BSP	1" BSP	1" NPT	1" NPT
Weight with oil kg - /b		52 - 115	52 - 115	52 - 115	35 - 77,2	35 - 77,2

Dimensions mm (inch)





References

E40.2 HV

	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 1ph, 230V-50Hz	821149 + 770826	821149
EUROPE 3ph, 230/400V-50Hz	821152 + 770826	821152
ASIA / MIDDLE EAST 3ph,220/380V-60Hz	823859 + 770826	823859
SOUTH AMERICA / USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824056 + 770826	824056



Maintenance kits

3 000 hour usual maintenance with silicone o'ring for oil mist filter	720341
3 000 hour usual maintenance with viton o'ring for oil mist filter	718374
12 000 hour preventive maintenance	615485



3 000 hour usual maintenance

12 000 hour preventive maintenance



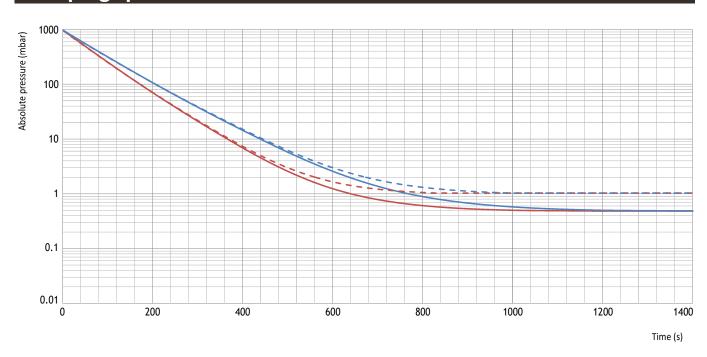


EVISA E40.2 HV

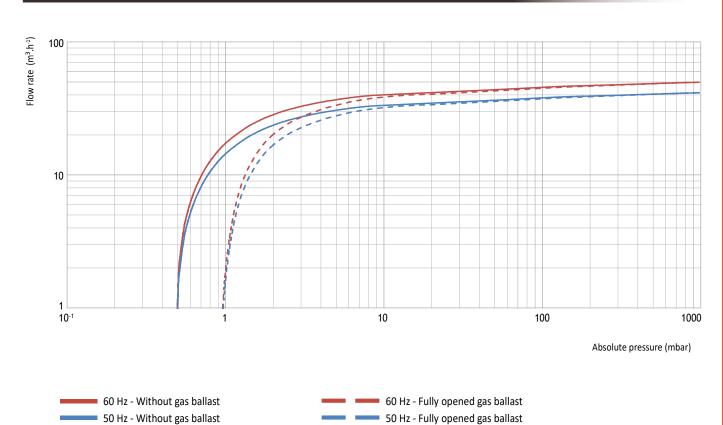
Accessories and Options

	(OLS) with			
Timer box for oil le	vel safety (base mounting)	670810	
Oil level safety and with bimetal thermos	•	re indicator ng at 120°C - Max 24V	623315	113
Oil Level Safety and	PT100 ten	nperature sensor	623975	
PT100 temperature	sensor		623980	
	Pa	aper cartridge	714975	Oil level safe
2 1" BSP suction fi Type 100	l iter Po	olyester cartridge	714976	
1ype 100	C	arbon cartridge	714977	
Vacuum gauge fitte	d on filter		617536	
1" BSP polyester/po	olyester do	uble filtration 100PO + 100PO	622167	
	Aluminium	n head / plexiglass cylinder / without mechanical float	724793	
	Aluminium	n head / plexiglass cylinder / with mechanical float	724794	
	Aluminium	n head / Pyrex cylinder / without mechanical float	724807	
Liquid trap 100	Aluminium	n head / Pyrex cylinder / with mechanical float	724808	
48 m ³ .h ⁻¹	Stainless s	teel head / Pyrex cylinder / without mechanical float	724795	
1" BSP		teel head / Pyrex cylinder / with mechanical float	724796	
	Pyrex bott	le 250 ml under trap assembly	615441	2 suction filt
	Pyrex bott	le 500 ml under trap assembly	615442	type 10
Pyrex bottle 1000 ml under trap assembly			615443	
Electro-pneumatic	automatic	drain with control board	816002	
Electrical automation	drain with	n control board	816003	
Adjusting valve fitt	ed on T-sq	uare	714979	
Vacuum hose (0,6 n	n) FF 1" BS	P	618265	
Vacuum hose (1 m)	FF 1" BSP		617372	
Vacuum hose (1,5 n		P	618266	100
ALU adapter M1" /	DN25 KF		117133	
ALU clamping colla			361638	
Centering ring INO	(/VITON		361641	
Stainless steel hose	(0,5 m) Di	N25 KF	361644	
Stainless steel hose	(1 m) DN2	5 KF	361645	3 Liquid trap 1
Base frame assemb	ly height 1	50 mm	670804	with mechanic
		For 1 pump	617610	stop a
Elevated base fr	ame	For 2 pumps	619543	optional bot
(H=525 mm)		For 3 pumps	619546	
	Without r	egulation contact 3-ph 400V + E	770496	
	Without r	egulation contact 3-ph 230V + E	770497	
Direct starter (wall mounting)	Without r	egulation contact 1-ph 230V + E	770504	500 F-24
	With regulation contact LG7 3-ph 400V		710423	
	With regulation contact LG7 3-ph 230V		710431	
	With regu	lation contact LG7 1-ph 230V	710435	
Control board with for warm up and de		enoid valve 3-ph, 400V+ N	770812	
Control board with for degasing cycle	FLEXO sole	enoid valve 3-ph, 400V + N	770819	Elevated base fram
			363052	· ·

Pumping speed on 1000 l vessel



Performance curves









The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump with the end vacuum of 6.10⁻² mbar
- Compactness and noise level optimized for an easy integration in machines
- High water vapor pumping capacity with finely adjustable gas ballast
- Designed for light onsite maintenance without piping disconnection
- · Integrated oil mist filter on the exhaust

Technical characteristics

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

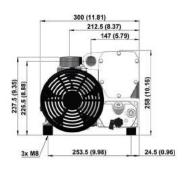
⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

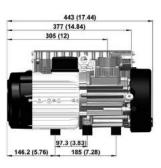
GEOGRAPHIC		EUR	ОРЕ	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
	Number of phases	1	3	3	3	3	3
	Voltage V	230	230 / 400	220 / 380	190 / 380	208-230/460	200 / 380
Electrical motor	Period Hz	50	50	50 / 60	50	60	50/60
illotoi	Motor power	1,10 kW	1,10 kW	1,10 / 1,32 kW	1,10 kW	2 HP	1,10 / 1,32 kW
	Rotation speed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

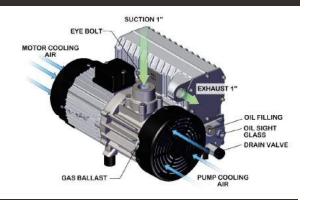
⁽²⁾ DN 40 ISO-KF adaptation flange can be supplied, see accessories

⁽³⁾ DN 25 ISO-KF connector can be supplied, see accessories

Dimensions mm (inch)







References

	K HV	E4	0.R
WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
824180	824182	824184	824186
824093	824188	824092	824190
824095	824192	824194	824196
824097	824198	824200	824202
_	824180 824093 824095	824180 824182 824093 824188 824095 824192	WITH GAS BALLAST WITHOUT GAS BALLAST WITH GAS BALLAST 824180 824182 824184 824093 824188 824092 824095 824192 824194

Oxygen version available - Contact us

HV Accessories - KF connection



Suction filter DN40KF -Type 100

Suction flange DN40KF	625018	
	Paper cartridge	625009
1 Suction filter DN40KF - Type 100	Polyester cartridge	625010
	Carbon cartridge	625011
Aluminium clamping ring DN40KF	361639	
Stainless steel / Viton DN40KF centering	361642	
Stainless steel DN40KF hose - 0,5 m	361646	
Stainless steel DN40KF hose - 1 m	361647	
Elbow DN40KF	333818	
Equal T-square DN40KF		333819
Manual ball valve DN40KF	333820	
Solenoid valve DN40KF	333821	
Exhaust adapter 1" BSP - DN25KF	625019	

Maintenance kits

3 000 hour usual maintenance with silicone o'ring for oil mist filter	724572
3 000 hour usual maintenance with viton o'ring for oil mist filter	724573
12 000 hour preventive maintenance	724574



3 000 hour usual maintenance



12 000 hour preventive



EVISA E40.R

Accessories and Options

Oil Level Safety (OLS) with float 625020	Additional rubber fo	ot .	625169			
NC bimetal temperature safety - opening at 120°C - Max 24V 625022	1 Oil Level Safety	OLS) with float	625020			
2 1" BSP suction filter Type 100 Paper cartridge	PT100 temperature	sensor	625021			
Tile SpS suction filter Type 100 Polyester cartridge Carbon cartridge Tile SpS polyester/carbon double filtration 100PO + 100CH Adjusting valve fitted on T-square MF I" BSP Aluminium head / plexiglass cylinder / without mechanical float Aluminium head / plexiglass cylinder / without mechanical float Aluminium head / Pyrex cylinder / without mechanical float Aluminium head / Pyrex cylinder / without mechanical float Aluminium head / Pyrex cylinder / without mechanical float Aluminium head / Pyrex cylinder / without mechanical float Aluminium head / Pyrex cylinder / with mechanical float Aluminium head / Pyrex cylinder / without mechanical float Aluminium head / Pyrex cylinder / without mechanical float T24807 I 'BSP Stainless steel head / Pyrex cylinder / without mechanical float Pyrex bottle 250 ml under trap assembly Electro-pneumatic automatic drain with control board Electrical automatic drain with control board Electrical automatic drain with control board Stainless steel head / Pyrex cylinder / without mechanical float Pyrex bottle 1000 ml under trap assembly Pyrex bottle 250 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Electrical automatic drain with control board Electrical automatic drain with control board Stainless Steel head / Pyrex cylinder / with mechanical float Stainless Steel head / Pyrex cylinder / with mechanical float Pyrex bottle 1000 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Electrical automatic drain with control board Electrical automatic drain with control board Stainless Steel head / Pyrex cylinder / with mechanical float Stainless Steel head / Pyrex cylinder / with mechanical float Pyrex bottle 1000 ml under trap assembly Electrical automatic drain with control board Stainless Steel head / Pyrex cylinder / with mechanical float Pyrex bottle 1000 ml under trap assembly Electrical automatic drain with control board St	NC bimetal tempera	ture safety - opening at 120°C - Max 24V	625022			
Type 100 Polyester cartridge Garbon cartridge ### Sprolyester/carbon double filtration 100PO + 100CH ### 1			714975			
Carbon cartridge ### Octobro		Polyester cartridge	714976			
1" BSP polyester/carbon double filtration 100PO + 100CH Adjusting valve fitted on T-square MF 1" BSP Aluminium head / plexiglass cylinder / without mechanical float Aluminium head / plexiglass cylinder / with mechanical float Aluminium head / plexiglass cylinder / with mechanical float Aluminium head / Pyrex cylinder / with mechanical float Aluminium head / Pyrex cylinder / with mechanical float 48 m².h² 1"BSP Stainless steel head / Pyrex cylinder / with mechanical float Pyrex bottle 250 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Electro-pneumatic automatic drain with control board Electrical automatic drain with control board 816002 Electrical automatic drain with control board Vacuum hose (0,6 m) MF 1" BSP 618265 Vacuum hose (1 m) MF 1" BSP 618266 Vacuum hose (2 m) MF 1" BSP 618272 Vacuum hose (2 m) MF 1" BSP 618457 Base frame assembly height 150 mm 625012 Elevated base frame (H=525 mm) For 1 pump For 2 pumps 625013 For 3 pumps 625014 For 3 pumps 625015 Without regulation contact LG7 a-ph 400V + N + E Without regulation contact LG7 a-ph 400V + N + E With regulation contact LG7 a-ph 400V + N + E With regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E	Type 100	Carbon cartridge	714977			
Adjusting valve fitted on T-square MF 1" BSP Aluminium head / plexiglass cylinder / without mechanical float Aluminium head / plexiglass cylinder / with mechanical float Aluminium head / Pyrex cylinder / with mechanical float Aluminium head / Pyrex cylinder / with mechanical float T24807 Aluminium head / Pyrex cylinder / with mechanical float T24808 Aluminium head / Pyrex cylinder / without mechanical float T24808 Stainless steel head / Pyrex cylinder / without mechanical float T24796 Pyrex bottle 250 ml under trap assembly Pyrex bottle 250 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Electro-pneumatic automatic drain with control board Electrical automatic drain with control board Electrical automatic drain with control board S16003 Vacuum hose (0,6 m) MF 1" BSP Sucuum hose (1,5 m) MF 1" BSP Sucuum hose (1,5 m) MF 1" BSP Suction hose (2 m) MF 1" BSP Suction hose (2 m) MF 1" BSP Suction hose (2 m) MF 1" BSP Suction hose (1m) MM 1" with no return valve No return valve MF 1" BSP Elevated base frame (H=525 mm) For 2 pumps For 2 pumps For 2 pumps Ec50112 For 3 pumps G25012 Without regulation contact 1-ph 230V + E Without regulation contact LG7 - ph 230V + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Electrical cable (3m) with ON/OFF switch - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch - 1-ph 230V + E	Ø63 vacuum gauge f	itted on filter	617536			
Aluminium head / plexiglass cylinder / without mechanical float Aluminium head / plexiglass cylinder / with mechanical float Aluminium head / Pyrex cylinder / with mechanical float Aluminium head / Pyrex cylinder / with mechanical float T24807 Aluminium head / Pyrex cylinder / with mechanical float T24808 Stainless steel head / Pyrex cylinder / with mechanical float T24795 T34808 T34808 Stainless steel head / Pyrex cylinder / with mechanical float T24795 T24796 Pyrex bottle 250 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 1000 ml moder trap 41000 ml moder trap 41000 ml moder trap 41000 ml moder 10000 ml moder 1000 ml moder 1000 ml moder 1000 ml moder 1000	1" BSP polyester/ca	bon double filtration 100PO + 100CH	625023			
Aluminium head / plexiglass cylinder / with mechanical float Aluminium head / Pyrex cylinder / without mechanical float 724807 Aluminium head / Pyrex cylinder / without mechanical float 724808 Aluminium head / Pyrex cylinder / with mechanical float 724808 Aluminium head / Pyrex cylinder / with mechanical float 724808 Stainless steel head / Pyrex cylinder / with mechanical float 724795 Stainless steel head / Pyrex cylinder / with mechanical float Pyrex bottle 250 ml under trap assembly 615441 Pyrex bottle 500 ml under trap assembly 615442 Pyrex bottle 500 ml under trap assembly 615443 Electro-pneumatic automatic drain with control board 816002 Electrical automatic drain with control board 816003 Vacuum hose (0,6 m) MF 1" BSP 618265 Vacuum hose (1 m) MF 1" BSP 618266 Vacuum hose (1,5 m) MF 1" BSP 616179 Suction hose (1m) MM 1" with no return valve No return valve MF 1" BSP 616179 Suction hose (1m) MM 1" with no return valve No return valve MF 1" BSP 616179 Elevated base frame (H=525 mm) Elevated base frame (H=525 mm) For 2 pumps 625013 For 3 pumps 625014 For 3 pumps 625015 Without regulation contact 1-ph 230V + E With regulation contact LG7 - ph 230V + E With regulation contact LG7 - DLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E	Adjusting valve fitte	714979				
Aluminium head / Pyrex cylinder / without mechanical float 724808 Aluminium head / Pyrex cylinder / with mechanical float 724808 Aluminium head / Pyrex cylinder / with mechanical float 724808 Tires of Stainless steel head / Pyrex cylinder / with mechanical float 724795 Stainless steel head / Pyrex cylinder / with mechanical float 724796 Pyrex bottle 250 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Fires bottle 1000 ml under tr		Aluminium head / plexiglass cylinder / without mechanical float	724793			
Aluminium head / Pyrex cylinder / with mechanical float 724808 8 m³.h¹ Stainless steel head / Pyrex cylinder / without mechanical float 724796 Pyrex bottle 250 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Electro-pneumatic automatic drain with control board Electrical automatic drain with control board 816002 Electrical automatic drain with control board 816003 Vacuum hose (0,6 m) MF 1" BSP 617372 Vacuum hose (1,5 m) MF 1" BSP 618265 Vacuum hose (2,5 m) MF 1" BSP 618266 Vacuum hose (2 m) MF 1" BSP 618179 Suction hose (1m) MM 1" with no return valve No return valve MF 1" BSP 618457 Base frame assembly height 150 mm 625012 Elevated base frame (H=525 mm) For 2 pumps For 2 pumps 625013 For 3 pumps 625015 Without regulation contact 1-ph 230V + E With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 1-ph 230V + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E		Aluminium head / plexiglass cylinder / with mechanical float	724794			
As m³.1¹ 1"BSP Stainless steel head / Pyrex cylinder / without mechanical float Pyrex bottle 250 ml under trap assembly Pyrex bottle 250 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Electro-pneumatic automatic drain with control board Electrical automatic drain with control board Electrical automatic drain with control board Stainless steel head / Pyrex cylinder / with mechanical float Pyrex bottle 1000 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Electrical automatic drain with control board Electrical automatic drain with control board Stainless Stainless Stainless Electrical automatic drain with control board Stainless Stainless Stainless Electrical for a min stainless Electrical cable (Price Vision Mr 1" BSP Stainless Stainless Stainless Electrical cable (Price Vision Mr 1" BSP Stainless Stainless Stainless Electrical cable (Price Vision Mr 1" BSP Stainless Stainless Electrical cable (Price Vision Mr 1" BSP Stainless Stainless Electrical for Stainless Electrical cable (Price Vision Mr 1" BSP Stainless Stainless Electrical Cable (Price Vision Mr 1" BSP Stainless Stainless Electrical for Stainless Electrical cable (Price Vision Mr 1" BSP Stainless Stainless Electrical for Stainless Electrical Cable (Price Vision Mr 1" BSP Stainless Stainless Electrical for Stainless Electrical Cable (Price Vision Mr 1" BSP Stainless Stainless Electrical for Stainless Electrical Cable (Price Vision Mr 1" BSP Stainless Electrical for Stainless Electrical for Stainless Electrical Cable (Price Vision Mr 1" BSP Stainless Electrical for Stainless Electrical for Stainless Electrical for Stainl		Aluminium head / Pyrex cylinder / without mechanical float	724807			
Stainless steel head / Pyrex cylinder / with mechanical float Pyrex bottle 250 ml under trap assembly Pyrex bottle 500 ml under trap assembly Pyrex bottle 1000 ml under trap assembly Fyrex bottle 1000 ml under trap assembly Figure bottle 1000 ml under trap assembly bottle 1000 ml assembly Figure bottle 1000 ml under trap assembly Figure bottle 1000 ml under trap assembly Figure bottle 1000 ml under trap assembly bottle 1000 ml assembly Figure bottle 1000 ml under trap assembly bottle 1000 ml assembly Figure bottle 1000 ml under trap assembly bottle 1000 ml assembly bottle 1000 ml assembly Figure bottle 1000 ml under trap assembly bottle 1000 ml assembly Figure bottle 1000 ml under trap assembly b	3 Liquid trap 100	Aluminium head / Pyrex cylinder / with mechanical float	724808			
Pyrex bottle 250 ml under trap assembly 615441		Stainless steel head / Pyrex cylinder / without mechanical float	724795			
Pyrex bottle 500 ml under trap assembly Pyrex bottle 1000 ml under trap assembly 615443 Electro-pneumatic automatic drain with control board Electrical automatic drain with control board 816003 Vacuum hose (0,6 m) MF 1" BSP 618265 Vacuum hose (1 m) MF 1" BSP 618266 Vacuum hose (2 m) MF 1" BSP 616179 Suction hose (1m) MM 1" with no return valve No return valve MF 1" BSP 618457 Base frame assembly height 150 mm 625012 Elevated base frame (H=525 mm) Without regulation contact 3-ph 400V + E With regulation contact LG7 1-ph 230V + E With regulation contact LG7 + OLS Timer 1-ph 230V + E With regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E	1"BSP	Stainless steel head / Pyrex cylinder / with mechanical float	724796			
Pyrex bottle 1000 ml under trap assembly 615443		Pyrex bottle 250 ml under trap assembly	615441			
Electrical automatic drain with control board Electrical automatic drain with control board 816003 Vacuum hose (0,6 m) MF 1" BSP Vacuum hose (1 m) MF 1" BSP Vacuum hose (1,5 m) MF 1" BSP Vacuum hose (2 m) MF 1" BSP Suction hose (1m) MM 1" with no return valve No return valve MF 1" BSP Elevated base frame (H=525 mm) Without regulation contact 1-ph 230V + E Direct starter (wall mounting) With regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) witch ON/OFF switch -1-ph 230V + E Electrical c		Pyrex bottle 500 ml under trap assembly	615442			
Electrical automatic drain with control board Vacuum hose (0,6 m) MF 1" BSP Vacuum hose (1 m) MF 1" BSP Vacuum hose (1,5 m) MF 1" BSP Vacuum hose (2 m) MF 1" BSP Suction hose (2 m) MF 1" BSP Suction hose (1 m) MM 1" with no return valve No return valve MF 1" BSP Elevated base frame (H=525 mm) For 1 pump For 2 pumps For 3 pumps C25012 Without regulation contact 3-ph 400V + E With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E	Pyrex bottle 1000 ml under trap assembly		615443			
Vacuum hose (0,6 m) MF 1" BSP 618265 Vacuum hose (1 m) MF 1" BSP 617372 Vacuum hose (2,5 m) MF 1" BSP 618266 Vacuum hose (2 m) MF 1" BSP 616179 Suction hose (1m) MM 1" with no return valve 714980 No return valve MF 1" BSP 618457 Base frame assembly height 150 mm 625012 I Elevated base frame (H=525 mm) For 1 pump 625013 For 2 pumps 625014 625015 Without regulation contact 3-ph 400V + E 770496 770496 Without regulation contact LG7 3-ph 400V + N + E 710423 710423 With regulation contact LG7 1-ph 230V + E 710435 724570 With regulation contact LG7 + OLS Timer 3-ph 400V + N + E 724570 724571 Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E 724580 724581 Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016 625016	Electro-pneumatic a	816002				
Vacuum hose (1 m) MF 1" BSP 617372 Vacuum hose (1,5 m) MF 1" BSP 618266 Vacuum hose (2 m) MF 1" BSP 616179 Suction hose (1m) MM 1" with no return valve 714980 No return valve MF 1" BSP 618457 Base frame assembly height 150 mm 625012 It is a separate assembly height 150 mm 625013 It is a separate assembly height 150 mm 625013 It is a separate assembly height 150 mm 625013 It is a separate assembly height 150 mm 625013 It is a separate assembly height 150 mm 625012 It is a separate assembly height 150 mm 625013 It is a separate assembly height 150 mm 625013 It is a separate assembly height 150 mm 625014 For 2 pumps 625014 For 2 pumps 625015 Without regulation contact 3-ph 400V + E 770496 With regulation contact LG7 3-ph 400V + N + E 710423 With regulation contact LG7 4 OLS Timer 3-ph 400V + N + E 724570 With regulation contact LG7 and Flexo valve 724571 Direct starter with regulation contact LG7 and Flexo valve 724581	Electrical automatic	816003				
Vacuum hose (1,5 m) MF 1" BSP Vacuum hose (2 m) MF 1" BSP Suction hose (1m) MM 1" with no return valve No return valve MF 1" BSP Base frame assembly height 150 mm For 1 pump For 2 pumps For 3 pumps Capture (H=525 mm) Without regulation contact 3-ph 400V + E With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E With regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 618266 625012 618266 625013 625013 625013 625013 625013 625013 625013 625014 625013 625014 625013 625014 625013 625014 625013 625014 625014 625013 625014 6250	Vacuum hose (0,6 m	618265				
Vacuum hose (2 m) MF 1" BSP Suction hose (1m) MM 1" with no return valve No return valve MF 1" BSP 618457 Base frame assembly height 150 mm For 1 pump For 2 pumps For 3 pumps 625013 Without regulation contact 3-ph 400V + E Without regulation contact 1-ph 230V + E With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016	Vacuum hose (1 m) MF 1" BSP		617372			
Suction hose (1m) MM 1" with no return valve No return valve MF 1" BSP Base frame assembly height 150 mm For 1 pump For 2 pumps For 3 pumps 625015 Without regulation contact 3-ph 400V + E With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016 For 1 pump For 2 pumps 625014 For 2 pumps 625015 770496 Without regulation contact 1-ph 230V + E 770504 With regulation contact LG7 3-ph 400V + N + E 770504 With regulation contact LG7 3-ph 400V + N + E 770423 With regulation contact LG7 + OLS Timer 3-ph 400V + N + E 7704570 With regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E For 1 pump For 2 pumps 625013 For 2 pumps 625015 770496 With regulation contact LG7 3-ph 400V + N + E 770504 With regulation contact LG7 3-ph 400V + N + E 770504 770504 The contact LG7 3-ph 400V + N + E 770504 The contact LG7 3-ph 400V + N + E 770504 The contact LG7 3-ph 400V + N + E 770504 The contact LG7 3-ph 400V + N + E 770504 770504 The contact LG7 3-ph 400V + N + E 770504 The contact LG7 3-ph 400V + N + E 770504 The contact LG7 3-ph 400V + N + E 770504 The contact LG7 3-ph 400V + N + E For 2 pumps For 2 pumps 625015 For 3 pumps 625015 770496 With regulation contact LG7 3-ph 400V + N + E 770504 The contact LG7 4-ph 230V + E 770504 The contact LG7 4-ph	Vacuum hose (1,5 m) MF 1" BSP	618266			
No return valve MF 1" BSP Base frame assembly height 150 mm For 1 pump For 2 pumps For 3 pumps 625013 Without regulation contact 3-ph 400V + E With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E Total T	Vacuum hose (2 m)	MF 1" BSP	616179			
Base frame assembly height 150 mm For 1 pump 625013 For 2 pumps 625014 For 3 pumps 625015 Without regulation contact 3-ph 400V + E 770496 With regulation contact 1-ph 230V + E 710423 With regulation contact LG7 3-ph 400V + N + E 710423 With regulation contact LG7 1-ph 230V + E 710435 With regulation contact LG7 + OLS Timer 3-ph 400V + N + E 724570 With regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E 724581 Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016	Suction hose (1m) N	IM 1" with no return valve	714980			
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Elevated base frame (H=525 mm) For 2 pumps For 3 pumps 625015 Without regulation contact 3-ph 400V + E With regulation contact 1-ph 230V + E With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 1-ph 230V + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625015 For 2 pumps For 2 pumps For 2 pumps For 2 pumps 625015 770496 770504 770504 770504 770423 770423 770423 770423 770423 770435 770435 770435 770496 770504 770604 770504 770504 770604 770606 770606 770606 770606 7706	Base frame assembl	y height 150 mm	625012			
(H=525 mm) For 2 pumps For 3 pumps 625015 Without regulation contact 3-ph 400V + E Without regulation contact 1-ph 230V + E With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 1-ph 230V + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016	Tlayated base for		625013			
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Direct starter (wall mounting) Without regulation contact 1-ph 230V + E With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 1-ph 230V + E With regulation contact LG7 1-ph 230V + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E T24570 With regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016		For 3 pumps	625015			
Direct starter (wall mounting) With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 1-ph 230V + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E T24570 With regulation contact LG7 + OLS Timer 1-ph 230V + E T24571 Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016		Without regulation contact 3-ph 400V + E	770496			
(wall mounting) With regulation contact LG7 3-ph 400V + N + E With regulation contact LG7 1-ph 230V + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E T24570 With regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016	5	Without regulation contact 1-ph 230V + E	770504			
With regulation contact LG7 1-ph 230V + E With regulation contact LG7 + OLS Timer 3-ph 400V + N + E With regulation contact LG7 + OLS Timer 1-ph 230V + E T24570 With regulation contact LG7 + OLS Timer 1-ph 230V + E T24571 Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016		With regulation contact LG7 3-ph 400V + N + E	710423			
With regulation contact LG7 + OLS Timer 1-ph 230V + E 724571 Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016	()	With regulation contact LG7 1-ph 230V + E	710435			
Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016		With regulation contact LG7 + OLS Timer 3-ph 400V + N + E	724570			
for warm up and degasing system - 3-ph 400V + N + E Direct starter with regulation contact LG7 and Flexo valve for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016		With regulation contact LG7 + OLS Timer 1-ph 230V + E	724571			
for warm up and degasing system - 1-ph 230V + E Electrical cable (3m) with ON/OFF switch -1-ph 230V + E 625016		<u> </u>				
			724581			
Direct starter support for base fixation 625017	Electrical cable (3m)	with ON/OFF switch -1-ph 230V + E	625016			
	Direct starter suppo	rt for base fixation	625017			



Oil Level Safety



suction filter type 100

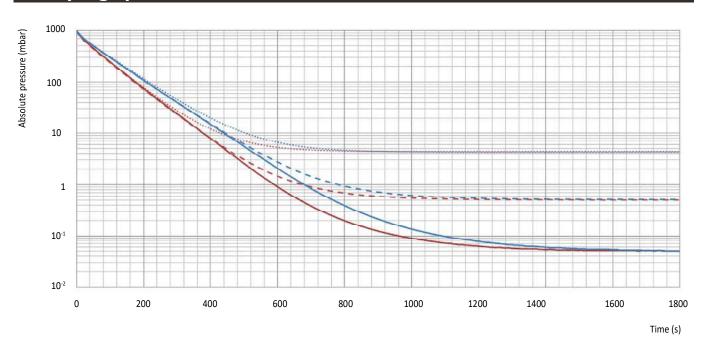


Liquid trap 100 with mechanical stop and optional bottle

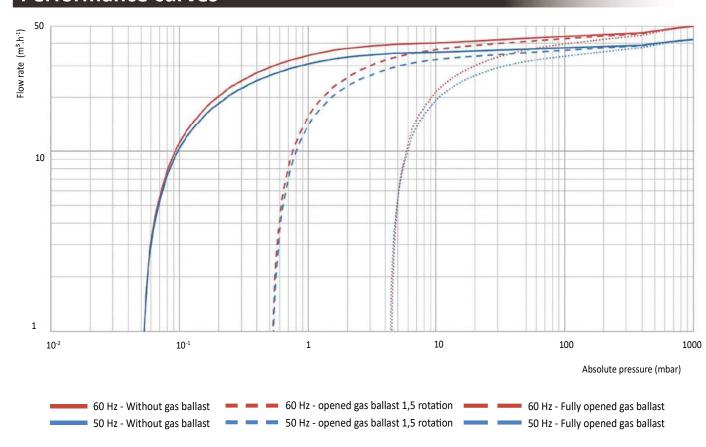


Elevated base frame for 2 pumps

Pumping speed on 1000 l vessel



Performance curves





EVISA E65. R

The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump with the end vacuum of 6.10⁻² mbar
- Compactness and noise level optimized for an easy integration in machines
- High water vapor pumping capacity with finely adjustable gas hallast
- Designed for light onsite maintenance without piping disconnection
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

			50 Hz	60 Hz
	Nominal flow rate m	³ .h ⁻¹ - <i>cfm</i>	68 - 40	81,6 - 48
	PNEUROP pumping	speed ⁽¹⁾ m ³ .h ⁻¹ - cfm	65 - <i>38,2</i>	78 - <i>45,9</i>
	Pumping speed at 1	mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	40 - 23.5	48 - 28,2
	Without gas ballast	End vacuum mbar - torr	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - <i>4,5.10</i> ⁻²
	Opened gas ballast 3 rotations	End vacuum mbar - torr	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹
E65.R		Water vapor permitted maximum pressure mbar - torr	50 - <i>37,5</i>	42 - <i>31,5</i>
HV		Water vapor capacity kg.h ⁻¹	2	1,9
	Fully opened gas ballast	End vacuum mbar - torr	≤3-2,3	≤ 3 - 2,3
		Water vapor permitted maximum pressure mbar - torr	80 - <i>60</i>	67 - 50
	Sanust	Water vapor capacity kg.h ⁻¹	3	3
	Without gas ballast	End vacuum mbar - torr	≤3 - 2,3	≤ 3 - 2,3
ECE D		End vacuum mbar - torr	≤5 - <i>3,8</i>	≤ 5 - <i>3,8</i>
E65.R	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	49 - 36,7	43 - 32,2
	Sanust	Water vapor capacity kg.h ⁻¹	1,7	1,7
	100 % synthetic oil		MV99S	MV99S
	Oil capacity I - qt		3 - <i>3,2</i>	3 - 3,2
	Noise level dB(A)		67	72

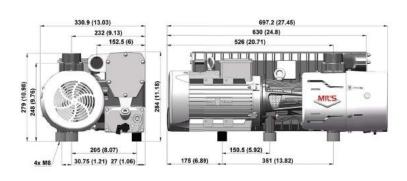
⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

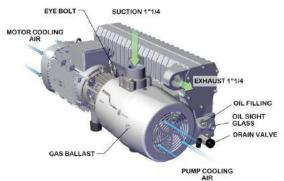
GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
	Number of phases	3	3	3	3	3
Electrical motor	Voltage V	230 / 400	220 / 380	190 / 380	208-230 / 460	200 / 380
	Period Hz	50	60	50	60	50/60
motor	Motor power	1,50 kW	1,80 kW	1,50 kW	3 HP	1,50 / 1,80 kW
	Rotation speed min ⁻¹	1500	1800	1500	1800	1500/1800
Inlet connection (2)		1''1/4 BSP	1''1/4 BSP	1''1/4 NPT	1''1/4 NPT	1''1/4 BSP
Outlet connection (3)		1" 1/4 BSP	1" 1/4 BSP	1" 1/4 NPT	1" 1/4 NPT	1''1/4 BSP
Weight with oil kg - /b		63,4 - 139,8	71,6 - 157,9	78,5 - 173,1	78,5 - 173,1	63,4 - 139,8

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

⁽³⁾ DN 40 ISO-KF connector can be supplied, see accessories

Dimensions mm (inch)





References

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

JAPAN version - Contact us Oxygen version available - Contact us

HV Accessories - KF connection



Suction filter DN40KF -Type 100

Suction flange DN40KF	625018			
	Paper cartridge	625009		
1 Suction filter DN40KF - Type 100	Polyester cartridge	625010		
	Carbon cartridge	625011		
Aluminium clamping ring DN40KF		361639		
Stainless steel / Viton DN40KF centering	361642			
Stainless steel DN40KF hose - 0,5 m	361646			
Stainless steel DN40KF hose - 1 m		361647		
Elbow DN40KF	Elbow DN40KF			
Equal T-square DN40KF	Equal T-square DN40KF			
Manual ball valve DN40KF	333820			
Solenoid valve DN40KF		333821		
Exhaust adapter 1"1/4 BSP - DN40KF		625109		

Maintenance kits

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

724601

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

724602

12 000 hour preventive maintenance

724603



3 000 hour usual maintenance

12 000 hour preventive maintenance





EVISA E65. R

4 Elevated base frame

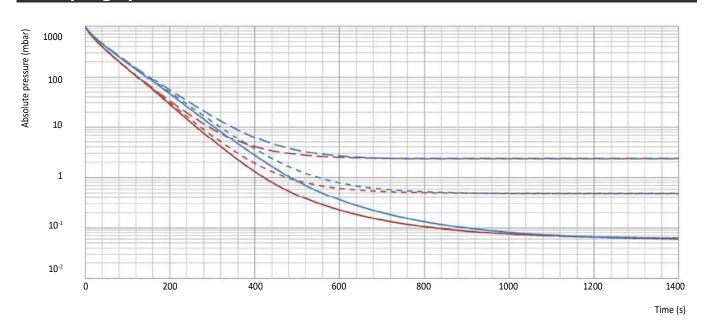
for 2 pumps

Accessories and Options

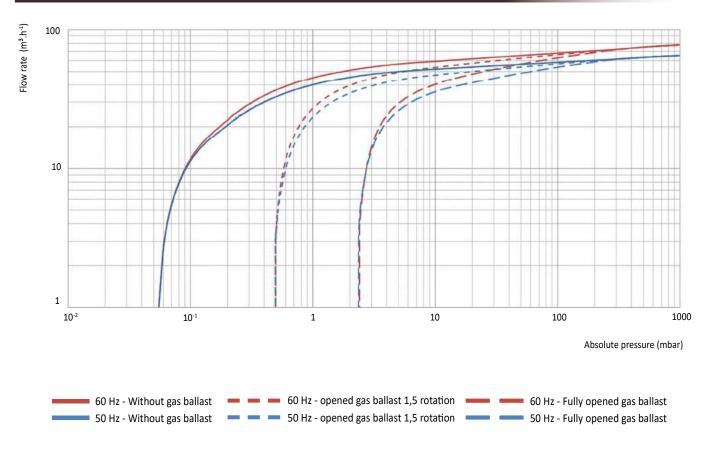
1	Oil Level Safety	(OLS) wi	th float	625369	
РТ	100 temperature	sensor		625021	
NC	bimetal tempera	ature saf	ety - opening at 120°C - Max 24V	625022	
	4114 fa 343	611.	Paper cartridge	706192	
2	1"1/4 BSP suction Type 126	on filter	Polyester cartridge	709398	Oil Level Safety
	1,00 120		Carbon cartridge	710521	
Ø1	26 vacuum gauge	e fitted o	n filter	617536	
1"	1/4 BSP polyeste	/carbon	double filtration 126PO + 126CH	670617	
Ad	ljusting valve fitte	d on T-s	quare	713841	
		Alumin	ium head / plexiglass cylinder / without mechanical float	724797	
		Alumin	ium head / plexiglass cylinder / with mechanical float	724798	
		Alumin	ium head / Pyrex cylinder / without mechanical float	724811	
3	Liquid trap 125	Alumin	ium head / Pyrex cylinder / with mechanical float	724812	
	120 m³.h ⁻¹	Stainles	ss steel head / Pyrex cylinder / without mechanical float	724799	
	1"1/4 BSP	Stainles	ss steel head / Pyrex cylinder / with mechanical float	724800	
		Pyrex b	ottle 250 ml under trap assembly	615441	suction filter
		Pyrex b	ottle 500 ml under trap assembly	615442	type 126
		Pyrex b	ottle 1000 ml under trap assembly	615443	
Ele	ectro-pneumatic a	utomat	c drain with control board	816002	
Ele	ectrical automatic	drain w	ith control board	816003	
Va	cuum hose (0,6 n	n) MF 1"	1/4 BSP	670650	
Va	cuum hose (1 m)	MF 1"1/	4 BSP	607058	
Va	cuum hose (1,5 n	n) MF 1"	1/4 BSP	610457	
Su	ction hose (1m) N	/M 1"1/	4 with no return valve	770152	
Ex	haust double elbe	ow moui	nting	625480	
Ва	se frame assemb	ly height	150 mm	625209	
	Flores diberes 6		For 1 pump	625210	
4	Elevated base fr (H=525 mm)	ame	For 2 pumps	625211	
	(525)		For 3 pumps	625212	Liquid trap 125
		Withou	it regulation contact 3-ph 400V	770496	with mechanical
	rect starter all mounting)	Withou	it regulation contact 3-ph 230V	770498	stop and optional bottle
(w	an mounting)	With re	egulation contact LG7 3-ph 400V	710423	optional bottle
		With re	egulation contact LG7 3-ph 230V	710432	
	ntrol board with warm up and de		plenoid valve 3-ph ,400V + N rcle	770813	
	ntrol board with degasing cycle	FLEXO so	olenoid valve 3-ph ,400V + N	770820	

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Pumping speed on 1000 l vessel



Performance curves





EVISA E100.R

The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump with the end vacuum of 6.10⁻² mbar
- Compactness and noise level optimized for an easy integration in machines
- High water vapor pumping capacity with finely adjustable gas ballast
- Designed for light onsite maintenance without piping disconnection
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

			50 Hz	60 Hz
	Nominal flow rate m	3.h ⁻¹ - <i>cfm</i>	100 - 58,8	120 - 70,6
	PNEUROP pumping	speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	96 - 56,5	115 - 67,7
	Pumping speed at 1	mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	52 - 30,6	62 - <i>36,5</i>
	Without gas ballast	End vacuum mbar - torr	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - 4,5.10 ⁻²
	Opened gas ballast 3 rotations	End vacuum mbar - torr	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹
E100.R		Water vapor permitted maximum pressure mbar - torr	59 - 44,2	49 - 36,7
HV		Water vapor capacity kg.h ⁻¹	3,4	3,2
ΠV	Fully opened gas ballast	End vacuum mbar - torr	≤ 2 - 1,5	≤ 2 - 1,5
		Water vapor permitted maximum pressure mbar - torr	95 - 71,2	79 - 59,2
		Water vapor capacity kg.h ⁻¹	5,5	5,2
	Without gas ballast	End vacuum mbar - torr	≤3-2,3	≤3-2,3
E400 D		End vacuum mbar - torr	≤ 5 - 3,8	≤5-3,8
E100.R	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	69 - 51,7	60 - 45
	Dallast	Water vapor capacity kg.h ⁻¹	3,8	3,8
	100 % synthetic oil		MV99S	MV99S
	Oil capacity - qt		3 - 3,2	3 - 3,2
	Noise level dB(A)		67	69
(1)		NEUDOD CCO2 anasifiantiana 20°C		

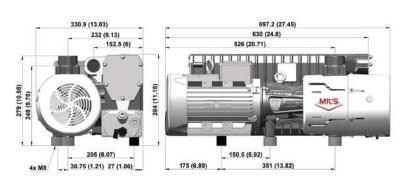
 $^{^{} ext{(1)}}$ Measurements according to PNEUROP 6602 specifications - 20°C

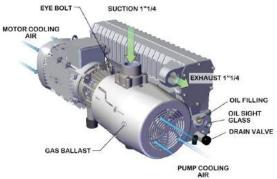
GE	OGRAPHIC ZONE	EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
	Number of phases	3	3	3	3	3
	Voltage V	230 / 400	220 / 380	190 / 380	208-230 / 460	200 / 380
Electrical motor	Period Hz	50	60	50	60	50 / 60
motor	Motor power	2,20 kW	2,64 kW	2,20 kW	5 HP	2,20 / 2,64 kW
	Rotation speed min ⁻¹	1500	1800	1500	1800	1500/1800
Inlet connec	ction ⁽²⁾	1''1/4 BSP	1''1/4 BSP	1''1/4 NPT	1''1/4 NPT	1''1/4 BSP
Outlet connection (3)		1" 1/4 BSP	1" 1/4 BSP	1'' 1/4 NPT	1" 1/4 NPT	1''1/4 BSP
Weight with oil kg - lb		67,2 - 148,2	67,2 - 148,2	85 , 5 - <i>188,5</i>	85 , 5 - <i>188,5</i>	67,2 - 148,2

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

⁽³⁾ DN 40 ISO-KF connector can be supplied, see accessories

Dimensions mm (inch)





References

	E100.R HV		E10	00.R
	WITH GAS BALLAST WITHOUT GAS BALLAST		WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 230/400V-50Hz	824251	824252	824249	824250
SOUTH AMERICA/ USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824259	824260	824257	824258
ASIA / MIDDLE-EAST 3ph, 220/380V-60Hz	824267	824268	824265	824266

JAPAN version - Contact us Oxygen version available - Contact us

HV Accessories - KF connection



Suction filter DN40KF -Type 100

Suction flange DN40KF		
Paper cartridge	625009	
Polyester cartridge	625010	
Carbon cartridge	625011	
	361639	
Stainless steel / Viton DN40KF centering ring		
Stainless steel DN40KF hose - 0,5 m		
Stainless steel DN40KF hose - 1 m		
Elbow DN40KF		
Equal T-square DN40KF		
Manual ball valve DN40KF		
Solenoid valve DN40KF		
	625109	
	Polyester cartridge Carbon cartridge	

Maintenance kits

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

724601

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

724602

12 000 hour preventive maintenance

724604



3 000 hour usual maintenance

12 000 hour preventive maintenance





EVISA E100.R

Accessories and Options

1 Oil Level Safet	y (OLS) with float	625369			
PT100 temperatur	PT100 temperature sensor				
NC bimetal tempe	rature safety - opening at 120°C - Max 24V	625022			
	Paper cartridge	706192			
2 1"1/4 BSP suct Type 126	Polyester cartridge	709398			
1 ype 120	Carbon cartridge	710521			
Ø126 vacuum gau	Ø126 vacuum gauge fitted on filter				
1"1/4 BSP polyest	670617				
Adjusting valve fit	ted on T-square	713841			
	Aluminium head / plexiglass cylinder / without mechanical float	724797			
	Aluminium head / plexiglass cylinder / with mechanical float	724798			
	Aluminium head / Pyrex cylinder / without mechanical float	724811			
3 Liquid trap 125	Aluminium head / Pyrex cylinder / with mechanical float	724812			
120 m³.h ⁻¹	Stainless steel head / Pyrex cylinder / without mechanical float	724799			
1"1/4 BSP	Stainless steel head / Pyrex cylinder / with mechanical float	724800			
	Pyrex bottle 250 ml under trap assembly	615441			
	Pyrex bottle 500 ml under trap assembly	615442			
	Pyrex bottle 1000 ml under trap assembly				
Electro-pneumation	816002				
Electrical automat	Electrical automatic drain with control board				
Vacuum hose (0,6	m) MF 1"1/4 BSP	670650			
Vacuum hose (1 m	n) MF 1"1/4 BSP	607058			
Vacuum hose (1,5	m) MF 1"1/4 BSP	610457			
Suction hose (1m)	MM 1"1/4 with no return valve	770152			
Exhaust double ell	bow mounting	625480			
Base frame assem	bly height 150 mm	625209			
Flouritad be	For 1 pump	625210			
4 Elevated base (H=525 mm)	For 2 pumps	625211			
	For 3 pumps	625212			
	Without regulation contact 3-ph 400V	770497			
Direct starter (wall mounting)	Without regulation contact 3-ph 230V	770498			
(wan mounting)	With regulation contact LG7 3-ph 400V	710424			
	With regulation contact LG7 3-ph 230V				
	Control board with FLEXO solenoid valve 3-ph, 400V + N for warm up and degasing cycle				
Control board with for degasing cycle	Control board with FLEXO solenoid valve 3-ph, 400V + N for degasing cycle				





suction filter type 126

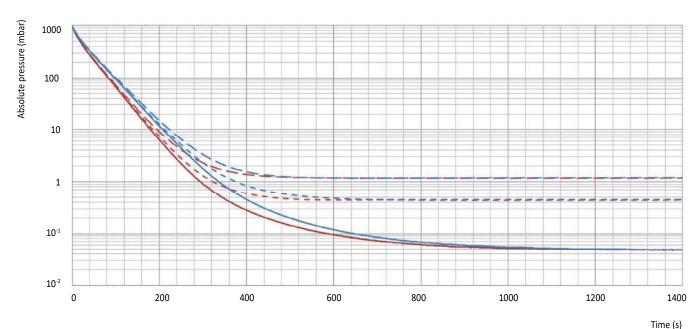


Liquid trap 125 with mechanical stop and optional bottle

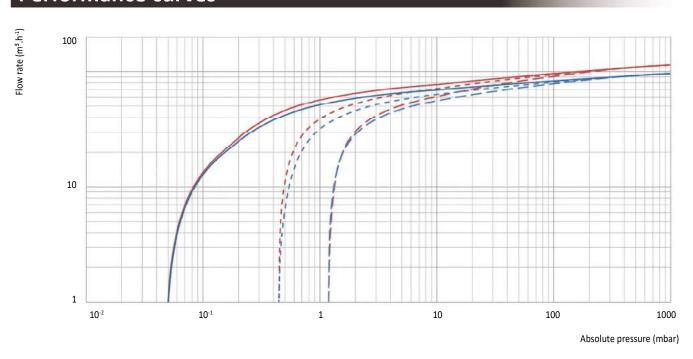


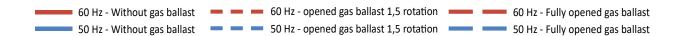
Elevated base frame for 2 pumps

Pumping speed on 1000 l vessel



Performance curves







EVISA E150. R



The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum: 8.10⁻² mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

			50 Hz	60 Hz
	Nominal flow rate r	n³.h-¹ - <i>cfm</i>	132 - 77,7	156 - 91,8
	PNEUROP pumping	speed (1) m ³ .h ⁻¹ - cfm	125 - 73,6	150 - 88,3
	Pumping speed at 1	mbar inlet pressure (1) m³.h-1 - cfm	95 - <i>55,9</i>	114 - 67,1
	Without gas ballast	End vacuum mbar - torr	≤ 8.10 ⁻² - <i>6.10</i> ⁻²	≤ 8.10 ⁻² - 6.10 ⁻²
E150.R	Fully opened gas ballast	End vacuum mbar - torr	≤ 2 - <i>1,5</i>	≤ 2 - 1,5
HV		Water vapor permitted maximum pressure mbar - torr	58,8 - 44,1	70,3 - 52,8
		Water vapor capacity kg.h ⁻¹	4,2	6,2
	Without gas ballast	End vacuum mbar - torr	≤ 3 -2,3	≤ 3 - 2,3
E150.R		End vacuum mbar - torr	≤ 5 - <i>3,8</i>	≤ 5 - 3,8
ET20'K	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	41 - 30,7	49 - 36,7
		Water vapor capacity kg.h ⁻¹	2,9	4,3
	100 % synthetic oil		MV99S	MV99S
	Oil capacity I - qt		5 - <i>5,3</i>	5 - 5,3
	Noise level dB(A)		69	72

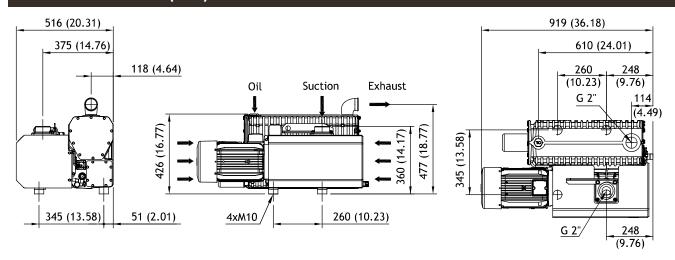
⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

GEO	GEOGRAPHIC ZONE		SOUTH AMERICA	USA
	Number of phases	3	3	3
	Voltage V	230 / 400	190 / 380	208-230 / 460
Electrical motor	Period Hz	50	50	60
motor	Motor power	3 kW	3 kW	5 HP
	Rotation speed min ⁻¹	1000	1000	1200
Inlet connection (2)		2" BSP	2" NPT	2" NPT
Outlet connection (2)		2" BSP	2" NPT	2" NPT
Weight wit	:h oil kg - /b	154 - <i>340</i>	174 - 384	174 - 384

⁽²⁾ DN 50 ISO-KF connector can be supplied, see accessories

^{(2) 260/460}V 60 Hz only

Dimensions mm (inch)



References

	E150.R HV		E15	50.R
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 230/400V-50Hz	823857 + 624229	823857	823856 + 624229	823856
SOUTH AMERICA / USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824059 + 624229	824059	Contact us	Contact us

For booster direct mounting: contact us

Special versions

	E150.R HV		E150.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
OXYGEN with Fomblin oil 3ph, 230/400V-50Hz	823871 + 624229	823871	823870 + 624229	823870
EVISA H₂O 3ph, 230/400V-50Hz	Contact us	Contact us	823869 + 624229	823869

Maintenance kits

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



3 000 hour usual maintenance

12 000 hour preventive maintenance





EVISA E150.R

Accessories and Options

Oil Level Safety (O	LS) with float	624245	
Timer box for oil leve	el safety (base mounting)	670810	
NC bimetal tempera	ture safety - opening at 120°C + SNH - Max 24V	624246	
Oil Level Safety and	PT100 temperature sensor	624247	
PT100 temperature s	624248		
	Paper cartridge	715350	
2 2" BSP suction filter Type 201	Polyester cartridge	715351	
1 ype 201	Carbon cartridge	715352	
Vacuum gauge fitted	on filter	617536	
2" BSP paper/paper	double filtration 201PA + 201PA	670615	
2" BSP polyester/car	bon double filtration 201PO + 201CH	670618	
	Aluminium head / polycarbonate cylinder / without float	724801	
	Aluminium head / polycarbonate cylinder / with float	724802	
	Stainless steel head/ Pyrex cylinder / without float	724803	
Liquid trap 200	Stainless steel head / Pyrex cylinder / with float	724804	
340 m³.h ⁻¹ 2" BSP	Pyrex bottle 250 ml under trap assembly	615441	
2 531	Pyrex bottle 500 ml under trap assembly	615442	
	Pyrex bottle 1000 ml under trap assembly	615443	
	Bracket for wall fixing	619907	
Electro-pneumatic automatic drain with control board		816002	
Electrical automatic	drain with control board	816003	
Adjusting valve fitted	d on T-square	713842	
Vacuum hose (0,6 m		618149	
Vacuum hose (1 m) I		606099	
Vacuum hose (1,5 m		607592	
• •	on-return valve (1 m)	770154	
Exhaust double elbo	w mounting	622788	
Base frame assembly		670806	
4 Elevated base fran		617612	
(H=525 mm)	For 2 pumps	619545	
	Without regulation contact 3-ph 400V	770499	
Direct starter	Without regulation contact 3-ph 230V	770500	
(wall mounting)	With regulation contact LG7 3-ph 400V	710426	
	With regulation contact LG7 3-ph 230V	710434	
Control board with F for warm up and deg	ELEXO solenoid valve 3-ph, 400V + N asing cycle	770815	
Control board with F for degasing cycle	ELEXO solenoid valve 3-ph, 400V + N	770822	V
Aluminium adapter	M2" / DN50 KF	117132	
Aluminium clamping	collar DN50 KF	361640	
Centering ring stainle	ess steel / VITON	361643	
Stainless steel hose		361648	
Stainless steel hose		361649	



Oil Level Safety



suction filter type 201

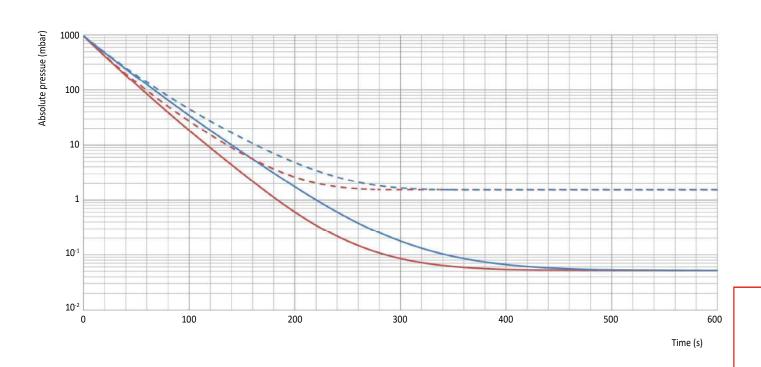


Liquid trap 200 with mechanical stop and optional bottle

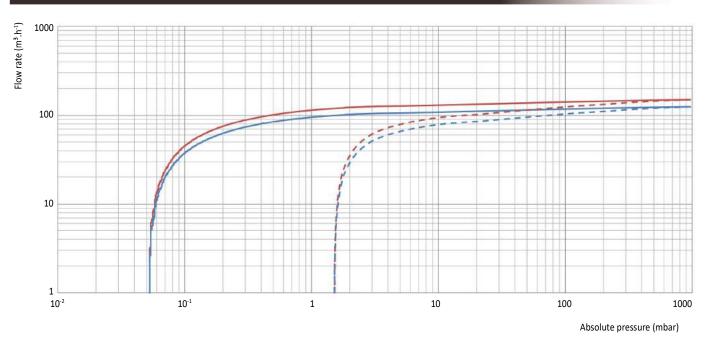


Elevated base frame for 2 pumps

Pumping speed on 1000 l vessel



Performance curves







EVISA E200.R



The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum: 6.10⁻² mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

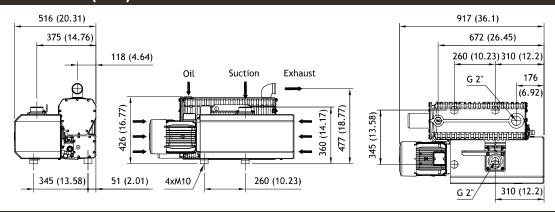
			50 Hz	60 Hz
	Nominal flow rate	m³.h-¹ - <i>cfm</i>	200 - 117,7	240 - 141,3
	PNEUROP pumping	g speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	190 - 111,8	228 - 134,2
	Pumping speed at	1 mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	134 - 78,9	161 - 94,8
	Without gas ballas	t End vacuum mbar - torr	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - <i>4,5.10</i> ⁻²
E200.R	Fully opened gas ballast	End vacuum mbar - torr	≤ 1 - 0,75	≤ 1 - 0,75
HV		Water vapor permitted maximum pressure mbar - torr	20,2 - 15,1	21,3 - 15,9
		Water vapor capacity kg.h ⁻¹	2,2	2,8
	Without gas ballas	t End vacuum mbar - torr	≤3-2,3	≤ 3 - 2,3
E200.R		End vacuum mbar - torr	≤ 5 - <i>3,8</i>	≤ 5 - 3,8
EZUU.K	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	14 - 10,5	15 - 11,2
		Water vapor capacity kg.h ⁻¹	1,5	2
	100 % synthetic oil		MV99S	MV99S
	Oil capacity I - qt		5 - <i>5,3</i>	5 - <i>5,3</i>
	Noise level dB(A)		71	77

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

GEC	OGRAPHIC ZONE	EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
	Number of phases	3	3	3	3	3
	Voltage ∨	230 / 400	220 / 380	190 / 380	208-230 / 460	220 / 380
Electrical motor	Period Hz	50	60	50	60	50 / 60
	Motor power	4 kW	4,8 kW	4 kW	7,5 HP	4 / 4,8 kW
	Rotation speed min ⁻¹	1500	1800	1500	1800	1500 / 1800
Inlet conne	ection ⁽²⁾	2" BSP	2" BSP	2" NPT	2" NPT	2" BSP
Outlet connection (2)		2" BSP	2" BSP	2" NPT	2" NPT	2" BSP
Weight with oil kg - /b		143 - <i>316</i>	158 - <i>349</i>	174 - 384	174 - 384	160 - 353

⁽²⁾ DN 50 ISO-KF connector can be supplied, see accessories

Dimensions mm (inch)



References

	E200.R HV		E200.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 230/400V-50Hz	823766 + 624229	823766	823830 + 624229	823830
SOUTH AMERICA / USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824060 + 624229	824060	Contact us	Contact us
ASIA / MIDDLE - EAST 3ph, 220/380V-50/60Hz	823835 + 624229	823835	823833 + 624229	823833

Special versions

JAPAN Version: contact us

	E200.R HV		E200.R	
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
CONDENSABLE VAPOUR PUMPING	823864		823837	
(small propeller)	+	823864	+	823837
3ph, 230/400V-50Hz	624229		624229	
OXYGEN with Fomblin oil 3ph, 230/400V-50Hz	823873 + 624229	823873	823872 + 624229	823872
EVISA H₂O 3ph, 230/400V-50Hz	Contact us	Contact us	823845 + 624229	823845

For booster direct mounting: contact us

Maintenance kits

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



3 000 hour usual maintenance

12 000 hour preventive maintenance





EVISA E200. R

Accessories and Options

1 Oil Level Safety (OLS	5) with float	624245	
Timer box for oil level	670810		
NC bimetal temperatur	624246		
Oil Level Safety and PT	100 temperature sensor	624247	0.5
PT100 temperature ser	nsor	624248	1
	Paper cartridge	715350	
2 2" BSP suction filter Type 201	Polyester cartridge	715351	
Type 201	Carbon cartridge	715352	
Vacuum gauge fitted or	n filter	617536	
2" BSP paper/paper do	puble filtration 201PA + 201PA	670615	
2" BSP polyester/carbo	on double filtration 201PO + 201CH	670618	
	Aluminium head / polycarbonate cylinder / without float	724801	
	Aluminium head / polycarbonate cylinder / with float	724802	
	Stainless steel head/ Pyrex cylinder / without float	724803	
3 Liquid trap 200	Stainless steel head / Pyrex cylinder / with float	724804	
340 m³.h ⁻¹	Pyrex bottle 250 ml under trap assembly	615441	
	Pyrex bottle 500 ml under trap assembly	615442	
	Pyrex bottle 1000 ml under trap assembly	615443	
	Bracket for wall fixing	619907	
Electro-pneumatic auto	816002		
Electrical automatic drain with control board		816003	
Adjusting valve fitted on T-square		713842	
Vacuum hose (0,6 m) FF 2" BSP		618149	
Vacuum hose (1 m) FF 2" BSP		606099	
Vacuum hose (1,5 m) F	F 2" BSP	607592	
Suction hose with non-	return valve (1 m)	770154	
Exhaust double elbow	mounting	622788	
Base frame assembly h	eight 150 mm	670806	
4 Elevated base frame	For 1 pump	617612	
(H=525 mm)	For 2 pumps	619545	
	Without regulation contact 3-ph 400V	770499	
Direct starter	Without regulation contact 3-ph 230V	770500	
(wall mounting)	With regulation contact LG7 3-ph 400V	710426	
	With regulation contact LG7 3-ph 230V	710434	
Control board with FLE for warm up and degas	XO solenoid valve 3-ph, 400V + N ing cycle	770815	
Control board with FLE for degasing cycle	XO solenoid valve 3-ph, 400V + N	770822	
Aluminium adapter M2" / DN50 KF		117132	
Aluminium clamping collar DN50 KF		361640	
Centering ring stainless	steel / VITON	361643	
Stainless steel hose (0,		361648	
Stainless steel hose (1		361649	



Oil Level Safety



suction filter type 201

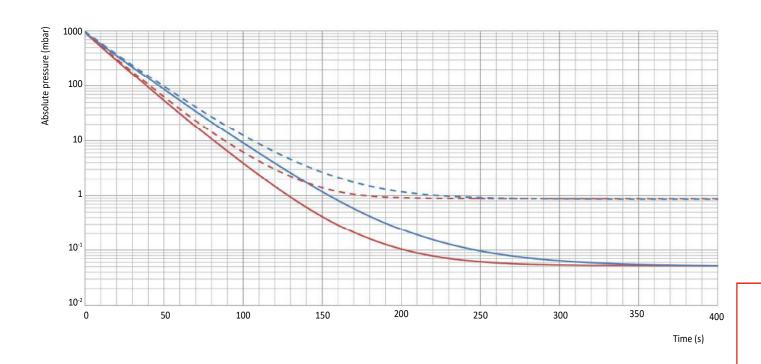


Liquid trap 200 with mechanical stop and optional bottle

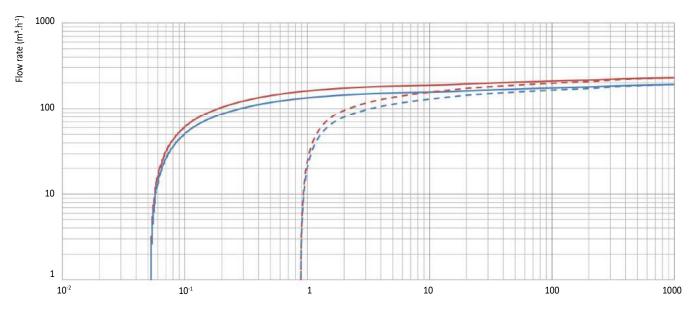


Elevated base frame for 2 pumps

Pumping speed on 1000 l vessel



Performance curves



Absolute pressure (mbar)





EVISA E300.R



The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum: 6.10⁻² mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

			50 Hz	60 Hz
	Nominal flow rate	m ³ .h ⁻¹ - cfm	300 - 176,5	360 - 211,8
	PNEUROP pumpin	g speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	280 - <i>165</i>	336 - 198
	Pumping speed at	1 mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	171 - <i>101</i>	205 - 121
	Without gas ballas	t End vacuum mbar - torr	≤ 6.10 ⁻² - <i>4,5.10</i> ⁻²	≤ 6.10 ⁻² - 4,5.10 ⁻²
E300.R		End vacuum mbar - torr	≤ 2 - 1,5	≤ 2 - 1,5
HV	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	18,6 - 13,9	20 - 15
		Water vapor capacity kg.h ⁻¹	2,3	3
	Without gas ballas	t End vacuum mbar - torr	≤3-2,3	≤3-2,3
E300.R	e	End vacuum mbar - torr	≤ 5 - 3,8	≤5-3,8
	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	13 - 9,7	14 - 10,5
	banast	Water vapor capacity kg.h ⁻¹	1,6	2
	100 % synthetic oil		MV99S	MV99S
	Oil capacity - qt		5 - 5,3	5 - 5,3
	Noise level dB(A)		72	76

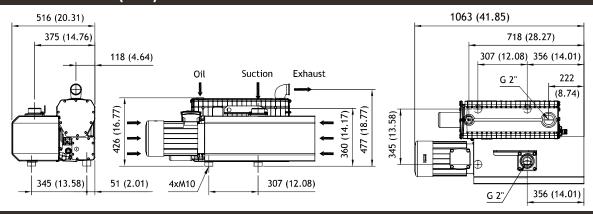
⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

Versions

GEO	OGRAPHIC ZONE	EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
	Number of phases	3	3	3	3	3
	Voltage V	230 / 400	220 / 380	190 / 380	208-230 / 460	220 / 380
Electrical motor	Period Hz	50	60	50	60	50 / 60
motor	Motor power	5,5 kW	6,6 kW	5,5 kW	10 HP	5,5 / 6,6 kW
	Rotation speed min ⁻¹	1500	1800	1500	1800	1500 / 1800
Inlet conne	ection ⁽²⁾	2" BSP	2" BSP	2" NPT	2" NPT	2" BSP
Outlet con	nection ⁽²⁾	2" BSP	2" BSP	2" NPT	2" NPT	2" BSP
Weight wit	h oil kg - <i>lb</i>	172 - <i>380</i>	182 - 402	198 - 437	198 - 437	179 - 395

⁽²⁾ DN 50 ISO-KF connector can be supplied, see accessories

Dimensions mm (inch)



References

	E300.R HV		E30	00.R
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 230/400V-50Hz	823767 + 624229	823767	823831 + 624229	823831
SOUTH AMERICA / USA 3ph, 190/380V-50Hz, 208-230/460V-60Hz	824061 + 624229	824061	Contact us	Contact us
ASIA / MIDDLE-EAST 3ph, 220/380V-60Hz	823836 + 624229	823836	823834 + 624229	823834

JAPAN version : contact us

Special versions

	E300.R HV		E30	00.R
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
CONDENSABLE VAPOUR PUMPING (small propeller) 3ph, 230/400V-50Hz	824287 + 624229	824287	823838 + 624229	823838
OXYGEN with Fomblin oil 3ph, 230/400V-50Hz	823875 + 624229	823875	823874 + 624229	823874
EVISA H₂O 3ph, 230/400V-50Hz	Contact us	Contact us	823846 + 624229	823846

For booster direct mounting: contact us

Maintenance kits

3 000 hour usual maintenance with silicone o'ring for oil mist filter	724079
3 000 hour usual maintenance with viton o'ring for oil mist filter 724080	
12 000 hour preventive maintenance	724053
Gasket set	624231
3 000 hour usual maintenance for OXYGEN version	724090
12 000 hour preventive maintenance for OXYGEN version	724088



3 000 hour usual maintenance

preventive maintenance



EVISA E300.R

Accessories and Options

1 Oil Level Safety (OLS	s) with float	624245
Timer box for oil level safety (base mounting)		670810
NC bimetal temperatur	624246	
Oil Level Safety and PT1	100 temperature sensor	624247
PT100 temperature sen	sor	624248
	Paper cartridge	715350
2 2" BSP suction filter Type 201	Polyester cartridge	715351
1906 201	Carbon cartridge	715352
Vacuum gauge fitted or	n filter	617536
2" BSP paper/paper do	uble filtration 201PA + 201PA	670615
2" BSP polyester/carbo	n double filtration 201PO + 201CH	670618
	Aluminium head / polycarbonate cylinder / without float	724801
	Aluminium head / polycarbonate cylinder / with float	724802
	Stainless steel head/ Pyrex cylinder / without float	724803
3 Liquid trap 200	Stainless steel head / Pyrex cylinder / with float	724804
340 m³.h ⁻¹ 2" BSP	Pyrex bottle 250 ml under trap assembly	615441
_ 50.	Pyrex bottle 500 ml under trap assembly	615442
•	Pyrex bottle 1000 ml under trap assembly	615443
•	Bracket for wall fixing	619907
Electro-pneumatic aut	816002	
Electrical automatic dr	816003	
Adjusting valve fitted of	713842	
Vacuum hose (0,6 m) FF 2" BSP		618149
Vacuum hose (1 m) FF	606099	
Vacuum hose (1,5 m) FF 2" BSP		607592
Suction hose with non-	-retunr valve (1 m)	770154
Exhaust double elbow	mounting	622788
Base frame assembly h	neight 150 mm	670806
4 Elevated base frame	For 1 pump	617612
(H=525 mm)	For 2 pumps	619545
	Without regulation contact 3-ph 400V	770499
Direct starter	Without regulation contact 3-ph 230V	770500
(wall mounting)	With regulation contact LG7 3-ph 400V	710426
	With regulation contact LG7 3-ph 230V	710434
Control board with FLEX for warm up and degasi	XO solenoid valve 3-ph, 400 + N ng cycle	770815
Control board with FLEX for degasing cycle	XO solenoid valve 3-ph, 400 + N	770822
Aluminium adapter M2	117132	
Aluminium clamping co	361640	
Centering ring stainless	steel / VITON	361643
Stainless steel hose (0,5	5 m) DN50 KF	361648
Stainless steel hose (1 r		361649



Oil Level Safety



suction filter type 201

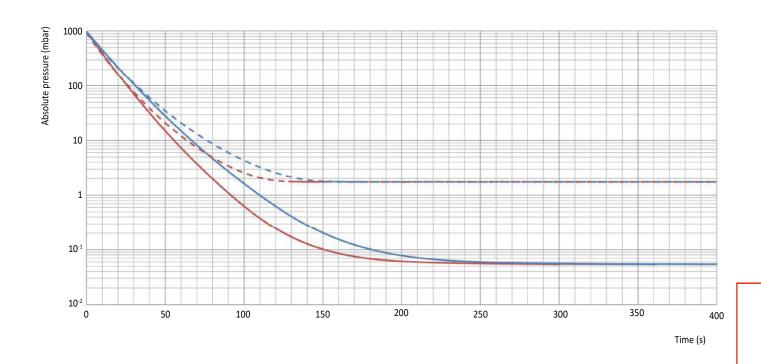


Liquid trap 200 with mechanical stop and optional bottle

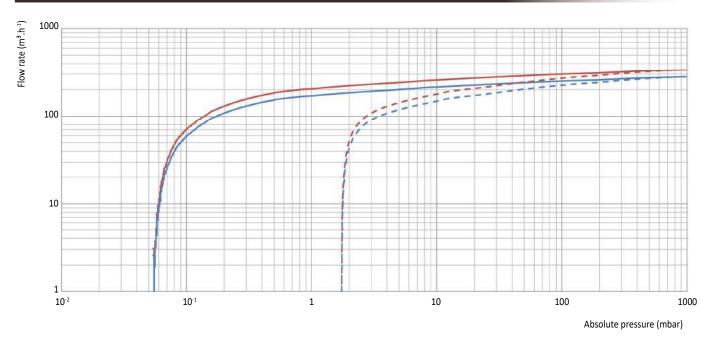


Elevated base frame for 2 pumps

Pumping speed on 1000 l vessel



Performance curves







EVISA E350.R



The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum: 1.10⁻¹ mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

			50 Hz	60 Hz
	Nominal flow rate	m³.h-¹ - cfm	360 - 211,9	432 - 254,3
	PNEUROP pumping	g speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	341 - 200,7	409 - 240,7
	Pumping speed at	1 mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	179 - 105,3	215 - <i>126,5</i>
	Without gas ballas	t End vacuum mbar - torr	≤ 1.10 ⁻¹ - 8.10 ⁻²	≤ 1.10 ⁻¹ - 8.10 ⁻²
E350.R		End vacuum mbar - torr	≤ 1 - 0,75	≤ 1 - 0,75
HV	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	12,5 - 9,9	13,5 - 10,1
		Water vapor capacity kg.h ⁻¹	2	2,6
	Without gas ballas	t End vacuum mbar - torr	≤3 - 2,3	≤3-2,3
ESEA D		End vacuum mbar - torr	≤ 5 - <i>3,8</i>	≤5-3,8
E350.R	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	8,7 - <i>6,5</i>	9,4 - 7
	ballast	Water vapor capacity kg.h ⁻¹	1,4	1,8
	100 % synthetic oil		MV99S	MV99S
	Oil capacity I - qt		14 - 14,8	14 - 14,8
	Noise level dB(A)		72	76

 $^{^{(1)}}$ Measurements according to PNEUROP 6602 specifications - 20° C

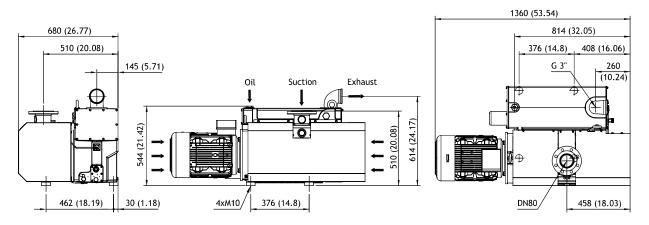
Versions

GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST
	Number of phases	3	3
-1	Voltage ∨	400 / 690	380
Electrical motor	Period Hz	50	60
motor	Motor power	7,5 kW	9 kW
	Rotation speed min ⁻¹	1000	1200
Inlet conne	ection ⁽²⁾	DN80 / 3" BSP	DN80 / 3" BSP
Outlet connection (2)		3" BSP	3" BSP
Weight with oil kg - /b		363 - 801	788 <i>- 834</i>

⁽²⁾ DN 80 ISO-K connector can be supplied, see accessories

^{(2) 460}V - 60 Hz 3-ph only

Dimensions mm (inch)



References

	E350.R HV		E3!	50.R
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 400/690V-50Hz	823923 + 724214	823923	823922 + 724214	823922
ASIA / MIDDLE-EAST 3ph, 380V-60Hz	contact us	contact us	contact us	contact us

EVISA H,O version: contact us

Maintenance kits

3 000 hour usual maintenance with viton o'rings for oil mist filters	724184	
12 000 hour preventive maintenance	724200	
Gasket set	624486	



3 000 hour usual maintenance

12 000 hour preventive maintenance





EVISA E350. R

Accessories and Options

Accessories and Options				
1 Oil Level Safety (OLS)	624398			
Additional filter for gas b	617710			
Timer box for oil level saf	670810			
NC bimetal temperature	safety - opening at 120°C - Max 24V	624389		
Oil Level Safety and PT10	0 temperature sensor	624405		
PT100 temperature senso	or	624388		
all non and a file	Paper cartridge	717369		
2 3" BSP suction filter Type 301	Polyester cartridge	717370		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Carbon cartridge	717371		
Vacuum gauge fitted on fi	ilter	617536		
Vacuum-tight suction filte	er Paper cartridge	361627		
ST301 straight-through	Polyester cartridge	620166		
Deflector for filters CT 30	1 and ST 301	215696		
Bracket for mural fixing for	or filters CT, ST & Liquid trap	617512		
Flanges DN 80 for filters (CT, ST & Liquid trap	617513		
	Aluminium head/ polycarbonate cylinder / without float	724809		
3 Liquid trap 300	Aluminium head / polycarbonate cylinder / with float	724810		
696 m³.h ⁻¹	Pyrex bottle 250 ml under trap assembly	615441		
3" BSP	Pyrex bottle 500 ml under trap assembly	615442		
	Pyrex bottle 1000 ml under trap assembly	615443		
Electro-pneumatic autom	natic drain with control board	816002		
Electrical automatic drain	816003			
Vacuum hose (0,6 m) DN8	618269			
Vacuum hose (1 m) DN80	617833			
Vacuum hose (1,5 m) MM	719925			
Vacuum hose (4 m) M 3"	BSP - DN80	618573		
Base frame assembly heigh	ght 200 mm	618251		
Elevated base frame (H=525 mm)	For 1 pump	617613		
Direct starter	Without regulation contact 3-ph 400V	770500		
(wall mounting)	With regulation contact LG7 3-ph 400V	713746		
Star / Delta starter 400V	+ N + E (without pressure valve)	718389		
- Electrical unloadir	ng valve (230V-50Hz)	617496		
- Pneumatic unload	ling valve (6 bar)	618257		
Exhaust double elbow mo		623534		
Double acting electric but with electric actuator 5/2	617522			
Double acting pneumatic with electric actuator 5/2	617523			
Aluminium adapter M3"	117130			
Aluminium adapter DN80	117129			
Aluminium clamping colla	4 X 361653			
Centering ring Aluminium	n / PERBUNAN	361650		
Stainless steel hose (0,5 n	n) DN80 ISO K	361651		
Stainless steel hose (1 m	361652			



Oil Level Safety



suction filter type 301

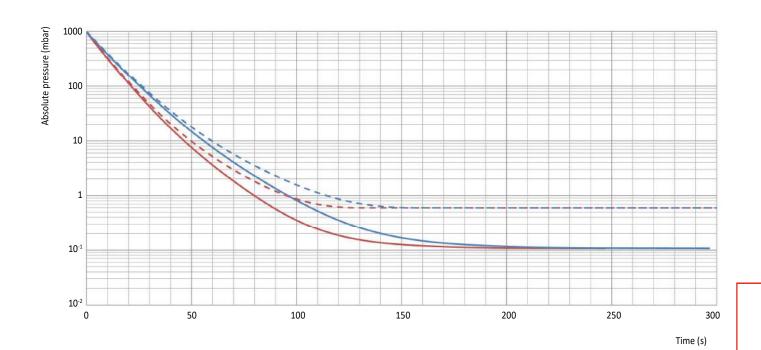


Liquid trap 300 with mechanical stop and optional bottle

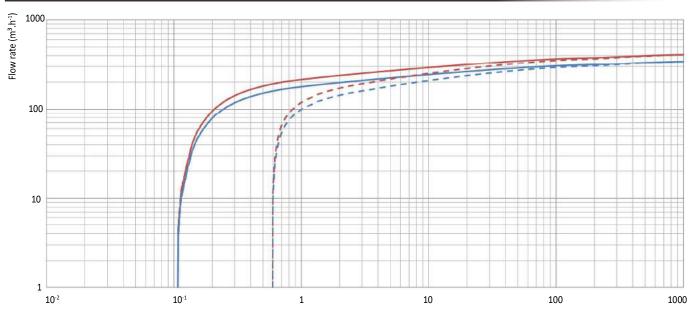


Elevated base frame for 1 pump

Pumping speed on 1000 l vessel



Performance curves



Absolute pressure (mbar)





EVISA E400.R



The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum: 1.10⁻¹ mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

			50 Hz	60 Hz
	Nominal flow rate	m³.h⁻¹ - <i>cfm</i>	426 - 250,7	511 - 300,8
	PNEUROP pumpin	g speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	410 - 241,3	492 - 289,6
	Pumping speed at	1 mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	215 - <i>126,5</i>	258 - 151,8
	Without gas ballas	t End vacuum mbar - torr	≤ 1.10 ⁻¹ - 8.10 ⁻²	≤ 1.10 ⁻¹ - 8.10 ⁻²
E400.R	Fully opened gas ballast	End vacuum mbar - torr	≤ 1 - 0,75	≤ 1 - 0,75
HV		Water vapor permitted maximum pressure mbar - torr	11,9 - 8,9	12,9 - 9,6
		Water vapor capacity kg.h ⁻¹	2,3	3
	Without gas ballas	t End vacuum mbar - torr	≤ 3 -2,3	≤ 3 - 2,3
E400.R		End vacuum mbar - torr	≤ 5 - 3,8	≤ 5 - <i>3,8</i>
L400.K	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	8,3 - <i>6,2</i>	9 - 6,7
	Water vapor capacity kg.h ⁻¹	1.6	2	
	100 % synthetic oil		MV99S	MV99S
	Oil capacity I - qt		14 - 14,8	14 - <i>14,8</i>
	Noise level dB(A)		72	76

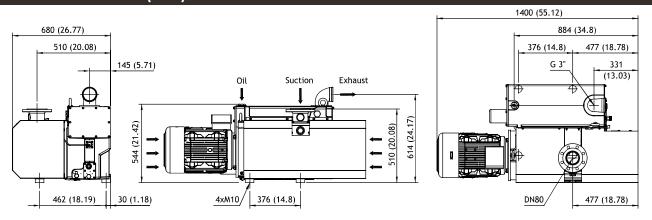
 $^{^{} ext{(1)}}$ Measurements according to PNEUROP 6602 specifications - 20° C

Versions

GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST
	Number of phases	3	3
	Voltage V	400 / 690	380
Electrical motor	Period Hz	50	60
motor	Motor power	9 kW	10,8 kW
	Rotation speed min ⁻¹	1000	1200
Inlet conne	ection ⁽²⁾	DN80 / 3" BSP	DN80 / 3" BSP
Outlet con	nection ⁽²⁾	3" BSP	3" BSP
Weight with oil kg - /b		408 - 900	433 - 955

⁽²⁾ DN 80 ISO-K connector can be supplied, see accessories

Dimensions mm (inch)



References

	E400.R HV		E40	00.R
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 400/690V-50Hz	823919 + 724214	823919	823918 + 724214	823918
ASIA / MIDDLE-EAST 3ph, 380V-60Hz	Contact us	Contact us	Contact us	Contact us

EVISA H,O version: contact us

Maintenance kits

3 000 hour usual maintenance with viton o'rings for oil mist filters	724184
12 000 hour preventive maintenance	724195
Gasket set	624479



3 000 hour usual maintenance

12 000 hour preventive maintenance





EVISA E400. R

Accessories and Options

	•		
Oil Level Safety (OLS) wi	624398		
Additional filter for gas ball	617710		
Timer box for oil level safet	670810		
NC bimetal temperature safe	fety - opening at 120°C - Max 24V	624389	
Oil Level Safety and PT100 t	temperature sensor	624405	
PT100 temperature sensor		624388	
- all pop .: (ii)	Paper cartridge	717369	
2 3" BSP suction filter Type 301	Polyester cartridge	717370	
	Carbon cartridge	717371	
Vacuum gauge fitted on filte	er	617536	
Vacuum-tight suction filter	Paper cartridge	361627	
ST301 straight-through	Polyester cartridge	620166	
Deflector for filters CT 301 a	and ST 301	215696	
Bracket for mural fixing for	filters CT, ST & Liquid trap	617512	
Flanges DN 80 for filters CT,		617513	
	Aluminium head/ polycarbonate cylinder / without float	724809	
3 Liquid trap 300	Aluminium head / polycarbonate cylinder / with float	724810	
696 m ³ .h ⁻¹	Pyrex bottle 250 ml under trap assembly	615441	
3" BSP	Pyrex bottle 500 ml under trap assembly	615442	
	Pyrex bottle 1000 ml under trap assembly		
Electro-pneumatic automat	ic drain with control board	816002	
Electrical automatic drain w	816003		
Vacuum hose (0,6 m) DN80		618269	
Vacuum hose (1 m) DN80		617833	
Vacuum hose (1,5 m) MM 3" BSP		719925	
Vacuum hose (4 m) M 3" BSP - DN80		618573	
Base frame assembly height		618251	
Elevated base frame (H=525 mm)	For 1 pump	617613	
	Without regulation contact 3-ph 400V	770500	
4	With regulation contact LG7 3-ph 400V	713746	
Star / Delta starter 400V + I	N + E (without pressure valve)	718389	
- Electrical unloading	valve (230V-50Hz)	617496	
- Pneumatic unloadin	g valve (6 bar)	618257	
Exhaust double elbow mou		623534	
Double acting electric butte with electric actuator 5/2 N	617522		
Double acting pneumatic but with electric actuator 5/2 N	617523		
Aluminium adapter M3" /	117130		
Aluminium adapter DN80 IS	117129		
Aluminium clamping collar	4 X 361653		
Centering ring Aluminium /	361650		
Stainless steel hose (0,5 m)	361651		
Stainless steel hose (1 m) D	361652		





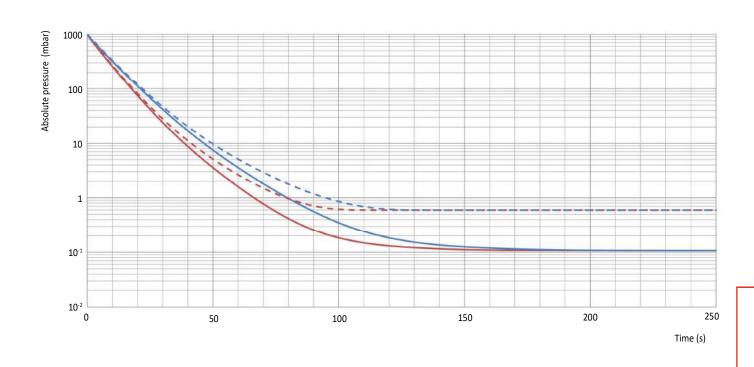
suction filter type 301



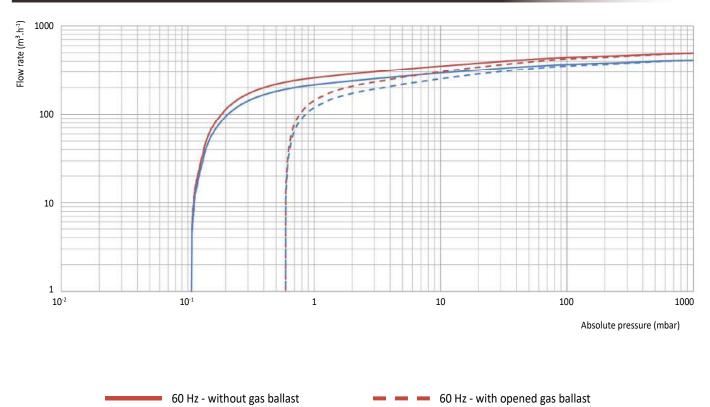
Liquid trap 300 with mechanical stop and optional bottle



Elevated base frame for 1 pump



Performance curves



50 Hz - without gas ballast

50 Hz - with opened gas ballast



EVISA E500.R



The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum: 1.10⁻¹ mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

			50 Hz	60 Hz
	Nominal flow rate	m³.h⁻¹- cfm	513 - <i>302</i>	616 - 362,6
	PNEUROP pumping	g speed ⁽¹⁾ m ³ .h ⁻¹ - cfm	496 - 291,6	595 - 350,2
	Pumping speed at	1 mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	266 - 156,6	320 - 188,3
	Without gas ballas	t End vacuum mbar - torr	≤ 1.10 ⁻¹ - 8.10 ⁻²	≤ 1.10 ⁻¹ - 8.10 ⁻²
E500.R	Fully opened gas ballast	End vacuum mbar - torr	≤ 1 - 0,75	≤ 1 - 0,75
HV		Water vapor permitted maximum pressure mbar - torr	11,3 - 8,4	12,2 - 9,1
		Water vapor capacity kg.h ⁻¹	2,7	3,5
	Without gas ballas	t End vacuum mbar - torr	≤ 3 -2,3	≤3-2,3
E500.R		End vacuum mbar - torr	≤ 5 - 3,8	≤ 5 - 3,8
E300.K	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	7,9 - <i>5,9</i>	8,5 - 6,4
	Danast	Water vapor capacity kg.h ⁻¹	1,9	2,4
	100 % synthetic oil		MV99S	MV99S
	Oil capacity I - qt		14 - 14,8	14 - 14,8
	Noise level dB(A)		73	77

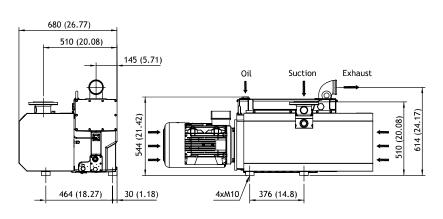
⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

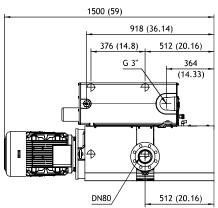
Versions

GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST
	Number of phases	3	3
	Voltage ∨	400 / 690	380
Electrical motor	Period Hz	50	60
motor	Motor power	11 kW	13,2 kW
	Rotation speed min ⁻¹	1000	1200
Inlet conne	ction (2)	DN80 / 3" BSP	
Outlet connection (2)		3" BSP	3" BSP
Weight with oil kg - /b		462 - 1019	497 - 1096

⁽²⁾ DN 80 ISO-K connector can be supplied, see accessories

Dimensions mm (inch)





References

	E500.R HV		E5(00.R
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 400/690V-50Hz	823913 + 723973	823913	823912 + 723973	823912
ASIA / MIDDLE-EAST 3ph, 380V-60Hz	Contact us	Contact us	Contact us	Contact us

EVISA H₂O version : contact us

Maintenance kits

3 000 hour usual maintenance with viton o'rings for oil mist filters	724184
12 000 hour preventive maintenance	724191
Gasket set	624479



3 000 hour usual maintenance

12 000 hour preventive maintenance





EVISA E500. R

Accessories and Options

Accessories a		
1 Oil Level Safety (OLS) wi	624398	
Additional filter for gas bal	617710	
Timer box for oil level safet	670810	
NC bimetal temperature sa	fety - opening at 120°C - Max 24V	624389
Oil Level Safety and PT100	temperature sensor	624405
PT100 temperature sensor		624388
	Paper cartridge	717369
2 3" BSP suction filter Type 301	Polyester cartridge	717370
Type 301	Carbon cartridge	717371
Vacuum gauge fitted on filt	er	617536
Vacuum-tight suction filter	Paper cartridge	361627
ST301 straight-through	Polyester cartridge	620166
Deflector for filters CT 301	and ST 301	215696
Bracket for mural fixing for	filters CT, ST & Liquid trap	617512
Flanges DN 80 for filters CT	, ST & Liquid trap	617513
	Aluminium head/ polycarbonate cylinder / without float	724809
Liquid trap 300	Aluminium head / polycarbonate cylinder / with float	724810
696 m ³ .h ⁻¹	Pyrex bottle 250 ml under trap assembly	615441
3" BSP	Pyrex bottle 500 ml under trap assembly	615442
	Pyrex bottle 1000 ml under trap assembly	615443
Electro-pneumatic automat	tic drain with control board	816002
Electrical automatic drain v	vith control board	816003
Vacuum hose (0,6 m) DN80	618269	
Vacuum hose (1 m) DN80		617833
Vacuum hose (1,5 m) MM 3	719925	
Vacuum hose (4 m) M 3" B	SP - DN80	618573
Base frame assembly heigh	t 200 mm	624328
4 Elevated base frame (H=525 mm)	For 1 pump	624329
Direct starter	Without regulation contact 3-ph 400V	719238
(wall mounting)	With regulation contact LG7 3-ph 400V	719239
Star / Delta starter 400V +	N + E (without pressure valve)	718392
- Electrical unloading	valve (230V-50Hz)	617496
- Pneumatic unloadir	ng valve (6 bar)	618257
Exhaust double elbow mou	inting	623534
Double acting electric butte with electric actuator 5/2 N	•	617522
Double acting pneumatic b with electric actuator 5/2 N	utterfly cast iron valve DN80 IF 230V-50Hz	617523
Aluminium adapter M3" /	117130	
Aluminium adapter DN80 I	117129	
Aluminium clamping collar	4 X 361653	
Centering ring Aluminium /	PERBUNAN	361650
Stainless steel hose (0,5 m)	361651	
Stainless steel hose (1 m) D	N80 ISO K	361652





suction filter type 301

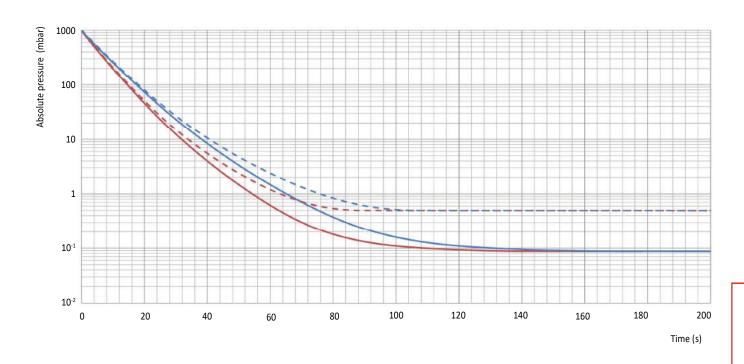


Liquid trap 300 with mechanical stop and optional bottle

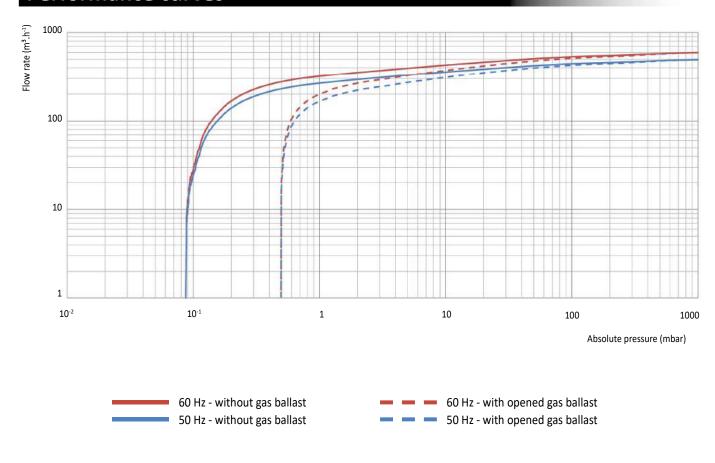


Elevated base frame for 1 pump

Pumping speed on 1000 l vessel



Performance curves





EVISA E600.R



The lubricated rotary vane pumps EVISA are designed to be used in a wide range of industrial and healthcare applications.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

- Single stage vacuum pump
- Continuous operation from atmospheric pressure to end vacuum: 1.10⁻¹ mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- IE3 motor

Technical characteristics

			50 Hz	60 Hz
	Nominal flow rate	m³.h ⁻¹ - cfm	634.9 - <i>373,7</i>	769,2 - 452,8
	PNEUROP pumping	g speed ⁽¹⁾ m ³ .h ⁻¹ - cfm	581 - 342	696 - 409,7
	Pumping speed at	1 mbar inlet pressure ⁽¹⁾ m ³ .h ⁻¹ - cfm	308 - 181,3	370 - 217,8
	Without gas ballas	t End vacuum mbar - torr	≤ 1.10 ⁻¹ - 8.10 ⁻²	≤ 1.10 ⁻¹ - 8.10 ⁻²
E600.R		End vacuum mbar - torr	≤ 1 - 0,75	≤ 1 - 0,75
HV	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	18,8 - 14,1	22 - 16,5
		Water vapor capacity kg.h ⁻¹	5,6	8,1
	Without gas ballas	t End vacuum mbar - torr	≤ 3 - 2,3	≤ 3 - <i>2,3</i>
E600.R		End vacuum mbar - torr	≤5-3,8	≤ 5 - <i>3,8</i>
LUUU.K	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	13,1 - 9,8	15,4 - 11,5
	Dallast	Water vapor capacity kg.h ⁻¹	3,9	5,6
	100 % synthetic oil		MV99S	MV99S
	Oil capacity - qt		14 - 14,8	14 - 14,8
	Noise level dB(A)		74	78

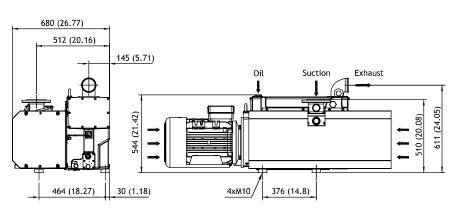
⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

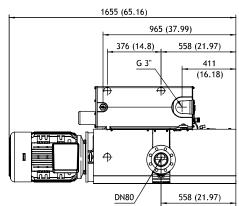
Versions

GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST
	Number of phases	3	3
	Voltage ∨	400 / 690	380
Electrical motor	Period Hz	50	60
motor	Motor power	13 kW	15,6 kW
	Rotation speed min ⁻¹	1000	1200
Inlet conne	ection (2)	DN80 / 3" BSP	DN80 / 3" BSP
Outlet connection (2)		3" BSP	3" BSP
Weight with oil kg - lb		531 - 1171	531 - 1171

⁽²⁾ DN 80 ISO-K connector can be supplied, see accessories

Dimensions mm (inch)





References

	E600.R HV		E60	00.R
	WITH GAS BALLAST	WITHOUT GAS BALLAST	WITH GAS BALLAST	WITHOUT GAS BALLAST
EUROPE 3ph, 400/690V-50Hz	823880 + 723956	823880	823885 + 723956	823885
ASIA / MIDDLE-EAST 3ph, 380V-60Hz	Contact us	Contact us	Contact us	Contact us

EVISA H₂O version : contact us

Maintenance kits

3 000 hour usual maintenance with viton o'rings for oil mist filters	724139
12 000 hour preventive maintenance HV pump	624394
12 000 hour preventive maintenance	624393
Gasket set	624395



3 000 hour usual maintenance

12 000 hour preventive maintenance





EVISA E600. R

Accessories and Options

1 Oil Level Safety (OLS) with float 624398				
Additional filter for gas ball	617710			
Timer box for oil level safet	670810			
	fety - opening at 120°C - Max 24V	624389		
Oil Level Safety and PT100		624405		
PT100 temperature sensor	·	624388		
_	Paper cartridge	717369		
2 3" BSP / DN80 suction fi	Iter Polyester cartridge	717370		
Type 301	Carbon cartridge	717371		
Vacuum gauge fitted on filt	er	617536		
Vacuum-tight suction filter	Paper cartridge	361627		
ST301 straight-through	Polyester cartridge	620166		
Deflector for filters CT 301	and ST 301	215696		
Bracket for mural fixing for	filters CT, ST & Liquid trap	617512		
Flanges DN 80 for filters CT	, ST & Liquid trap	617513		
	Aluminium head/ polycarbonate cylinder / without float	724809		
3 Liquid trap 300	Aluminium head / polycarbonate cylinder / with float	720810		
696 m³.h ⁻¹	Pyrex bottle 250 ml under trap assembly	615441		
3" BSP	Pyrex bottle 500 ml under trap assembly	615442		
	Pyrex bottle 1000 ml under trap assembly	615443		
Electro-pneumatic automat	tic drain with control board	816002		
Electrical automatic drain v	vith control board	816003		
Vacuum hose (0,6 m) DN80	618269			
Vacuum hose (1 m) DN80	617833			
Vacuum hose (1,5 m) MM 3	719925			
Vacuum hose (4 m) M 3" BS	618573			
Base frame assembly heigh	t 200 mm	618251		
4 Elevated base frame (H=525 mm)	For 1 pump	617613		
Direct starter	Without regulation contact 3-ph 400V	719237		
(wall mounting)	With regulation contact LG7 3-ph 400V	719239		
Star / Delta starter 400V +	N + E (without pressure valve)	718391		
- Electrical unloading	valve (230V-50Hz)	617496		
- Pneumatic unloadin	g valve (6 bar)	618257		
Exhaust double elbow mou	nting	623534		
Double acting electric butte with electric actuator 5/2 N	617522			
Double acting pneumatic be with electric actuator 5/2 N	617523			
Aluminium adapter M3" /	117130			
Aluminium adapter DN80 IS	117129			
Aluminium clamping collar	4 X 361653			
Centering ring Aluminium /	361650			
Stainless steel hose (0,5 m)	361651			
Stainless steel hose (1 m) D	N80 ISO K	361652		





suction filter type 301

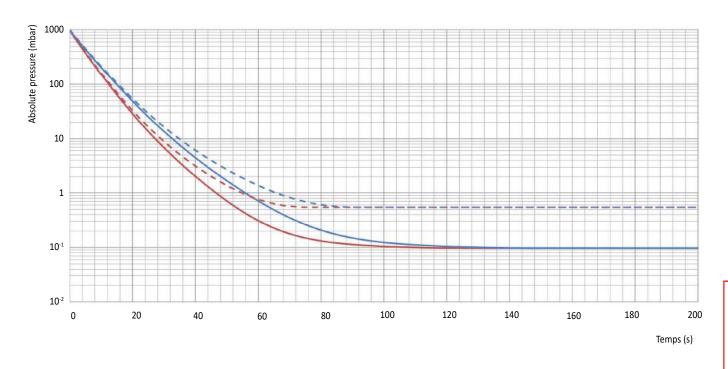


Liquid trap 300 with mechanical stop and optional bottle

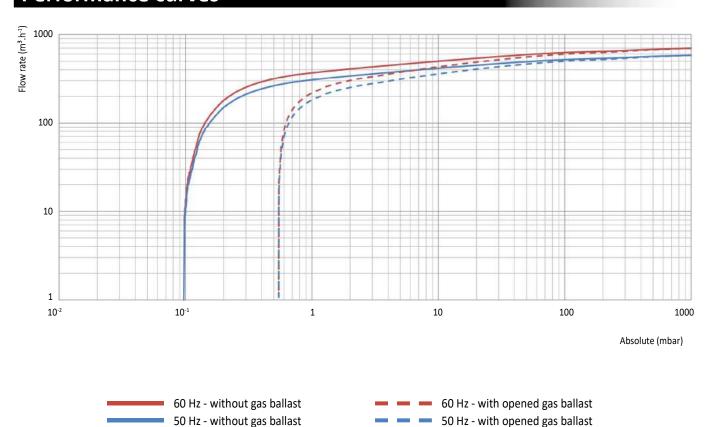


Elevated base frame for 1 pump

Pumping speed on 1000 l vessel



Performance curves





EVISA ATEX

Directive 94/9/EC Classification of equipment						
Use ATEX Gategory Level of protection preserving						
Gas-prone		M1 Maximum mine gas content	Very high	Powered up		
mines		M2 Outside a certain value	High	Powered down		
Ï	II	1G	Very high			
		2G	High			
Surface industries		3G	Normal	Powered		
		1D	Very high	up		
		2D	High			
		3D	Normal			

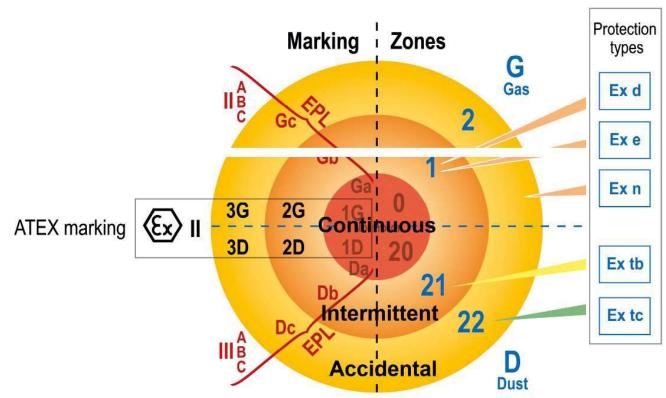
IEC 60079-0 Classification of equipment Equipment Protection Level (EPL)					Zones
Use	Equipment group	EPL	Level of protection	If ATEX present	60079-10
Gas-prone	gas conte	Ma Maximum mine gas content	Very high	Powered up	
mines		Mb Outside a certain value	High	Powered down	
Explosive		Ga	Very high		0
gas	II B	Gb	High		1
atmospheres	/ c	Gc	Reinforced	Powered	2
Explosive dust atmospheres		Da	Very high	up	20 IP6X
	III B	Db	High	0	21 IP6X
	/ \	Dc	Reinforced		22 IP5X

IIIA: combustible particles in suspension

IIIC: conductive dust

IIIB: non-conductive dust (electrical resistivity >10³Ω.m)

EPL: Equipment protection level



I: Methane

IIA: Propane

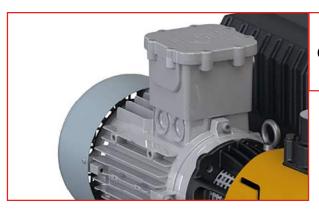
IIB: Ethylene
IIC: Hydrogen, Acetylene

The zoning and field of application of equipment (its protection type) is determined by the site manager where the equipment is installed.

Temperature class	T1	T2	Т3	T4	T5	Т6
Ignition temperature	> 450°C	> 300°C	> 200°C	> 135°C	> 100°C	> 85°C
Max. permissible surface temperature for the equipment	450°C	300°C	200°C	135°C	100°C	85°C

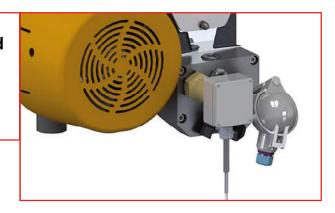
MIL'S Lubricated rotary vane vacuum pumps ATEX

High performance ATEX oil-flooded vacuum pumps



Gas & dust certified electrical motor

PT100 temperature sensor as standard equipment Optional oil level sensor Fixation on reinforced metallic flange





Oil mist filters designed for ATEX areas

50 Hz	Evisa 65.R HV Atex	Evisa 100.R HV Atex	Evisa 200.R HV Atex	Evisa 300.R H Atex
Nominal air flow rate m ³ .h ⁻¹ - cfm	68 - 40	100 - 58,8	200 - 117,7	300 - 176,5
End vacuum mbar - torr - Gast ballast closed	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - 4,5.10 ⁻¹
End vacuum mbar - torr - Gast ballast opened	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹	≤ 1 - 0,75	≤2-1,5
Motor power	1,5 kW	2,2 kW	4 kW	5.5 kW

EVISA E65.R ATEX



II 2/2 D c,k,b IIIC T135°C Db/Db



EVISA ATEX lubricated vane pumps are designed for a wide range of applications in potentially explosive atmospheres. Depending on the model, they can be installed in gas or dust zone.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

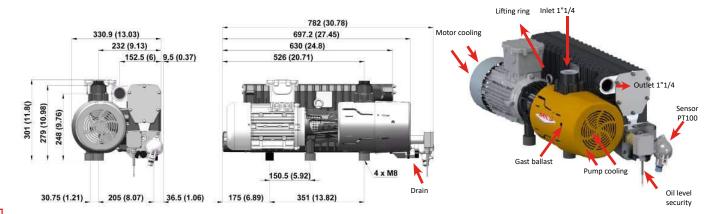
- Single stage vacuum pump with an end vacuum of 6.10⁻² mbar
- Compactness and noise level optimized for an easy integration in machines
- High water vapor pumping capacity with finely adjustable gas ballast
- Integrated oil mist filter on the exhaust
- Standard temperature safety control by intrinsically safe PT100

Technical characteristics

			50 Hz
	Nominal flow rate m	68 - <i>40</i>	
	PNEUROP pumping	speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	65 - 38,2
	Pumping speed at 1	mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	40 - 23,5
	Closed gas ballast	End vacuum mbar - torr	≤ 6.10 ⁻² - 4,5.10 ⁻²
		End vacuum mbar - torr	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹
	Opened gas ballast 3 rotations	Water vapor permitted maximum pressure $mbar - torr$	50 - <i>37,5</i>
		Water vapor capacity kg.h ⁻¹	2
	Fully opened gas ballast	End vacuum mbar - torr	≤ 3 - 2,3
E65.R		$ \begin{tabular}{ll} \textbf{Water vapor permitted maximum pressure} \ mbar - torr \\ \end{tabular}$	80 - 60
ATEX		Water vapor capacity kg.h ⁻¹	3
HV	100 % synthetic oil		MV99S
	Oil capacity - qt		3 - 3,2
	Noise level dB(A)		67
		Voltage	3ph - 230 / 400 V 50 Hz
	Electrical motor	Motor power	1,50 kW
		Rotation speed min ⁻¹	1500
	Inlet connection		1"1/4 BSP
	Outlet connection		1"1/4 BSP
	Weight with oil kg -	lb	63,4 - 139,8
(1) A 4		IEUDOD CC02:fiti 208C	

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

Dimensions mm (inch)



References

E65.R ATEX HV	WITH GAS BALLAST
DUST ZONE II2D c,k,b IIIC T135°C Db/Db	824384
GAS ZONE II2/2G c,k,b IIB T4 Gb/Gb	824388
DUST AND GAS ZONE II2/2G c,k,b IIB T4 Gb/Gb - II2D c,k,b IIIC T135°C Db/Db	824392

Accessories and options

Oil level security	333172	
Constitute filtran	Paper cartridge 126PA	625470
Suction filter	Carbon cartridge 126CH	625471
Zone ATEX ZONE IIGD c IIIC T4 X	Polyester cartridge 126PO	619884
Stainless steel inlet or outlet hose -	619886	
Elevated base frame H = 150 mm	625209	
Flame arrester DN50	625417	
PT100 intrinsically safe power supply (assembly out of atex zone) - Output 0-10V		362640

724609

Maintenance kits

3 000 hours usual maintenance 724608

12 000 hours preventive maintenance

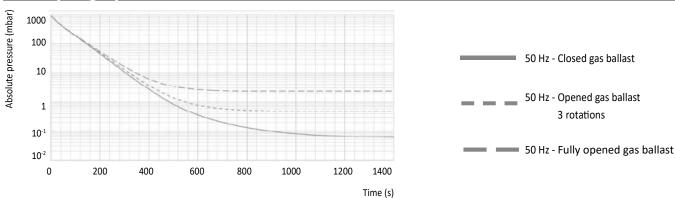


3 000 hours usual maintenance

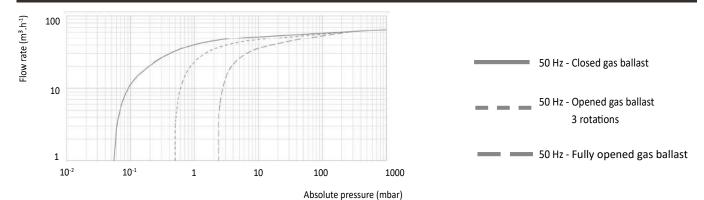
12 000 hours preventive maintenance



Pumping speed on 1000 I vessel

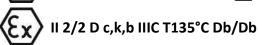


Performance curves - 50 Hz





II 2/2 G c,k,b IIB T4 Gb/Gb EVISA E100. R ATEX





EVISA ATEX lubricated vane pumps are designed for a wide range of applications in potentially explosive atmospheres. Depending on the model, they can be installed in gas or dust zone.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

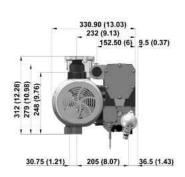
- Single stage vacuum pump with an end vacuum of 6.10⁻² mbar
- Compactness and noise level optimized for an easy integration in machines
- High water vapor pumping capacity with finely adjustable gas ballast
- Integrated oil mist filter on the exhaust
- Standard temperature safety control by intrinsically safe PT100

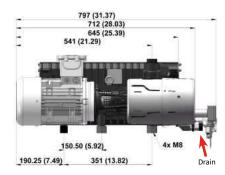
Technical characteristics

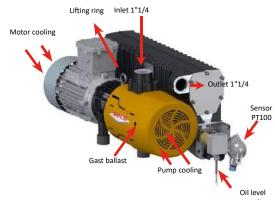
			50 Hz
	Nominal flow rate m	100 - 58,8	
	PNEUROP pumping	speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	96 - 56,5
	Pumping speed at 1	mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	52 - 30,6
	Closed gas ballast	End vacuum mbar - torr	≤ 6.10 ⁻² - 4,5.10 ⁻²
		End vacuum mbar - torr	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹
	Opened gas ballast 3 rotations	Water vapor permitted maximum pressure ${\it mbar}$ - $torr$	59 - 44,2
		Water vapor capacity kg.h ⁻¹	3,4
	Fully opened gas ballast	End vacuum mbar - torr	≤ 2 - 1,5
E100.R		$\textbf{Water vapor permitted maximum pressure} \ \textbf{mbar} - torr$	95 - 71,2
ATEX		Water vapor capacity kg.h ⁻¹	5,5
HV	100 % synthetic oil		MV99S
	Oil capacity I - qt	3 - 3,2	
	Noise level dB(A)	Noise level dB(A)	
		Voltage	230 / 400 V 50 Hz - 3ph
	Electrical motor	Motor power	2,20 kW
		Rotation speed min ⁻¹	1500
	Inlet connection	1''1/4 BSP	
	Outlet connection	1''1/4 BSP	
	Weight with oil kg -	b IEUROP 6602 specifications - 20°C	67,2 - 148,2

Measurements according to PNEUROP 6602 specifications - 20°C

Dimensions mm (inch)







References

E100.R ATEX HV	WITH GAS BALLAST
DUST ZONE II2D c,k,b IIIC T135°C Db/Db	824385
GAS ZONE II2/2G c,k,b IIB T4 Gb/Gb	824389
DUST AND GAS ZONE II2/2G c,k,b IIB T4 Gb/GB - II2D c,k,b IIIC T135°C Db/Db	824393

Accessories and options

Oil level security	333172	
Custian filton	Paper cartridge 126PA	625470
Suction filter	Carbon cartridge 126CH	625471
Zone ATEX ZONE IIGD c IIIC T4 X	Polyester cartridge 126PO	619884
Stainless steel inlet or outlet hose -	619886	
Elevated base frame H = 150 mm	625209	
Flame arrester DN50	625417	
PT100 intrinsically safe power supply (assembly out of atex zone) - Output 0-10V		362640

Maintenance kits

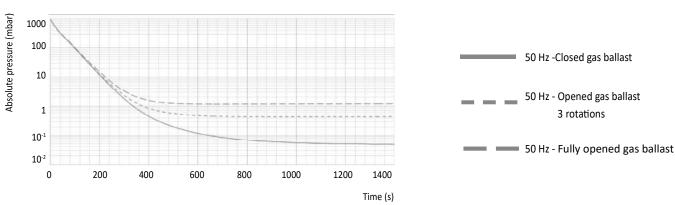
724608 3 000 hours usual maintenance 724610 12 000 hours preventive maintenance

3 000 hours usual maintenance

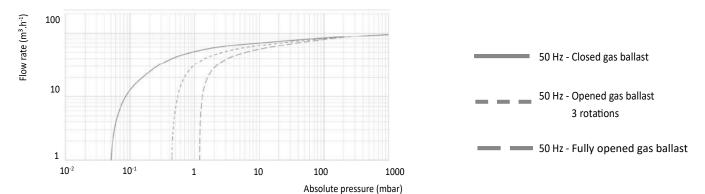
12 000 hours preventive maintenance



Pumping speed on 1000 I vessel



Performance curves





II 2/2 G c,k,b IIB T4 Gb/Gb EVISA E200.R ATEX





EVISA ATEX lubricated vane pumps are designed for a wide range of applications in potentially explosive atmospheres. Depending on the model, they can be installed in gas or dust zone.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are very silent and extremely robust.

- Single stage vacuum pump with an end vacuum of 6.10⁻² mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- Standard temperature safety control by intrinsically safe PT100

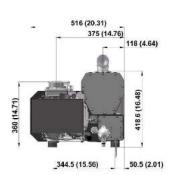
N° INERIS-EQEN: 033438/17

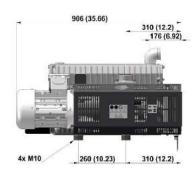
Technical characteristics

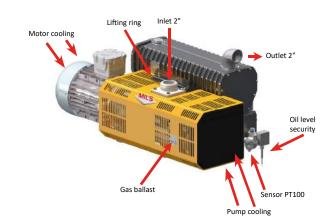
			50 Hz	
	Nominal flow rate r	n³.h ⁻¹ - <i>cfm</i>	200 - 117,7	
	PNEUROP pumping	190 - 111,8		
	Pumping speed at 1	mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	134 - 78,9	
	Closed gas ballast	End vacuum mbar - torr	≤ 6.10 ⁻² - 4,5.10 ⁻²	
		End vacuum mbar - torr	≤1-0,75	
	Fully opened gas ballast	Water vapor permitted maximum pressure mbar - torr	20,2 - 15,1	
	ballast	Water vapor capacity kg.h ⁻¹	2,2	
E200.R	100 % synthetic oil	MV99S		
ATEX	Oil capacity - qt		5 - 5,3	
HV	Noise level dB(A)	71		
		Voltage	3ph - 230 / 400 V 50 Hz	
	Electrical motor	Motor power	4 kW	
		Rotation speed min ⁻¹	1500	
	Inlet connection		2'' BSP	
	Outlet connection	2" BSP		
	Weight with oil kg -	143 - 316		

 $^{^{} ext{(1)}}$ Measurements according to PNEUROP 6602 specifications - 20° C

Dimensions mm (inch)







References

E200.R ATEX HV	WITH GAS BALLAST
DUST ZONE II2D c,k,b IIIC T135°C Db/Db	824386
GAS ZONE II2/2G c,k,b IIB T4 Gb/Gb	824390
DUST AND GAS ZONE II2/2G c,k,b IIB T4 Gb/Gb - II2D c,k,b IIIC T135°C Db/Db	824394

Accessories and options

Oil level security	333172	
Suction filter Zone ATEX ZONE IIGD c IIIC T4 X	Paper cartridge 201PA	625472
	Carbon cartridge 201CH	625473
	Polyester cartridge 201PO	619885
Stainless steel inlet or outlet hose -	619887	
Elevated base frame H = 150 mm		670806
Flame arrester DN80		625422
PT100 intrinsically safe power supply (assembly out of atex zone) - Output 0-10V		362640

Maintenance kits

724885 3 000 hours usual maintenance 724887 12 000 hours preventive maintenance

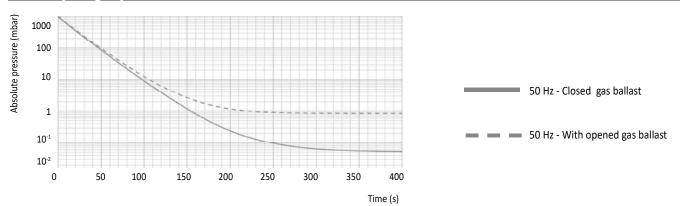


3 000 hours usual maintenance

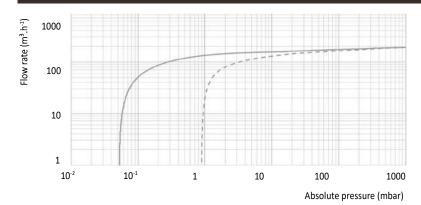
12 000 hours preventive maintenance



Pumping speed on 1000



Performance curves



50 Hz - Closed gas ballast

50 Hz - With opened gas ballast



II 2/2 G c,k,b IIB T4 Gb/Gb EVISA E300.R ATEX



II 2/2 D c,k,b IIIC T135°C Db/Db



N° INERIS-EQEN: 033438/17

EVISA ATEX lubricated vane pumps are designed for a wide range of applications in potentially explosive atmospheres. Depending on the model, they can be installed in gas or dust zone.

They can run continuously from atmospheric pressure to ultimate vacuum.

They are silent and extremely robust.

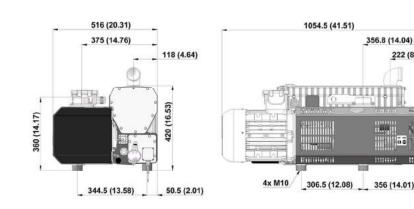
- Single stage vacuum pump with an end vacuum of 6.10⁻² mbar
- High pumping speed even at low pressure
- Integrated oil mist filter on the exhaust
- Standard temperature safety control by intrinsically safe PT100

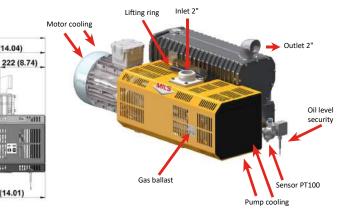
Technical characteristics

			50 Hz
	Nominal flow rate m	300 - 176,5	
	PNEUROP pumping	speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>	280 - <i>165</i>
	Pumping speed at 1	mbar inlet pressure (1) m ³ .h ⁻¹ - cfm	171 - 101
	Without gas ballast	End vacuum mbar - torr	≤ 6.10 ⁻² - 4,5.10 ⁻²
	- 11	End vacuum mbar - torr	≤ 2 - 1,5
	Fully opened gas ballast	$ \begin{tabular}{ll} \textbf{Water vapor permitted maximum pressure } mbar - torr \\ \end{tabular}$	18,6 - 13,9
		Water vapor capacity kg.h ⁻¹	2,3
E300.R	100 % synthetic oil		MV99S
ATEX	Oil capacity - qt		5 - 5,3
HV	Noise level dB(A)	72	
	Electrical motor	Voltage	3ph - 230 / 400 V ⁽²⁾ ou 3ph - 400/690V ⁽³⁾ 50 Hz
	Liectrical motor	Motor power	5,5 kW
		Rotation speed min ⁻¹	1500
	Inlet connection		2" BSP
	Outlet connection		2" BSP
	Weight with oil kg -	lb	172 - 380

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

Dimensions mm (inch)





⁽²⁾ Dust or gas zone model

⁽³⁾ Dust and gas zone model

References

E300.R ATEX HV	WITH GAS BALLAST
DUST ZONE II2D c,k,b IIIC T135°C Db/DBb	824387
GAS ZONE II2/2G c,k,b IIB T4 Gb/Gb	824391
DUST AND GAS ZONE II2/2G c,k,b IIB T4 Gb/Gb - II2D c,k,b IIIC T135°C Db/Db	824395

Accessories and options

Oil level security	333172	
Custian filton	Paper cartridge 201PA	625472
Suction filter Zone ATEX ZONE IIGD c IIIC T4 X	Carbon cartridge 201CH	625473
	Polyester cartridge 201PO	619885
Stainless steel inlet or outlet hose -	619887	
Elevated base frame H = 150 mm	670806	
Flame arrester DN80	625422	
PT100 intrinsically safe power supply (assembly out of atex zone) - Output 0-10V		362640

Maintenance kits

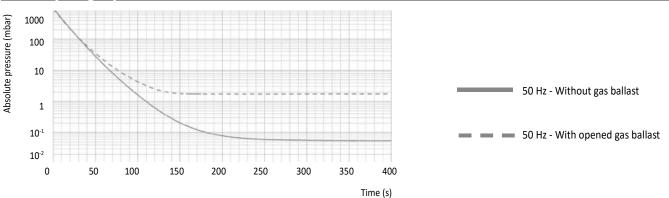
724886 3 000 hours usual maintenance 724888 12 000 hours preventive maintenance



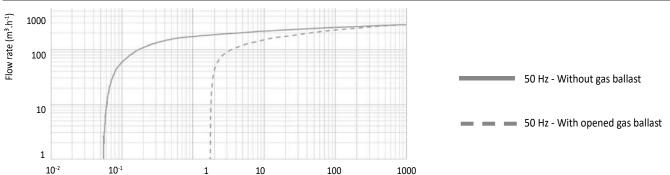
3 000 hours usual maintenance

12 000 hours preventive maintenance

Pumping speed on 1000 I vessel



Performance curves



Absolute pressure (mbar)







Single stage oil sealed rotary vane pump with an end vacuum of 2 mbar and high and stable pumping speed.

- Compactness and noise level optimized for an easy integration in machines
- Available with 1-ph and 3-ph motor
- Standard built-in oil mist filter and gas ballast
- Delivered with 100% synthetic oil for heavy duty applications and long term operation
- Designed for light onsite maintenance



Technical characteristics

		К04		К08		K12	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Nominal flow rate n	n³.h ⁻¹ *	4	4,8	8 9 12		14	
	End vacuum mbar		2	2		2	
With gas ballast	Water vapor permitted maximum pressure mbar	N.A		N.A		35	
	Water vapor capacity kg.h ⁻¹	N	.A	N	.А	0	.3
100 % synthetic oil		MV	998	MV99S MV99S		99S	
Oil capacity		0,0	065	0	,2	0,	,4
Noise level dB(A) 48 52 58		60	62	64			

^{*} Measurements according to PNEUROP 6002 specifications - 20 $^{\circ}\text{C}$

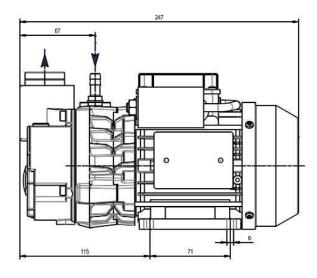
Versions

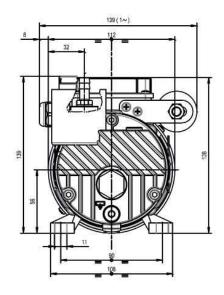
ROTOMIL'S		К04		К08		К12	
	Number of phases	1	3	1	3	1	3
	Voltage V	230	230 / 400	230	230 / 400	230	230 / 400
Electrical motor	Period Hz	50 (60)	50 (60)	50 (60)	50 (60)	50 (60)	50 (60)
motor	Motor power kW	0,12 (0,15)	0,12 (0,15)	0,25 (0,3)	0,25 (0,3)	0.45 (0,55)	0,37 (0,45)
	Rotation speed min ⁻¹	2800	3300	2800	3300	2800	3300
Inlet connection		G 1/8''	G 1/8''	G 3/8"	G 3/8"	G 1/2''	G 1/2''
Outlet connection		G 1/8"	G 1/8"	G 3/8"	G 3/8"	G 1/2''	G 1/2''
Weight with oil kg		5,4	5,4	10	9	14	12,5

^{*} Measurements according to EN ISO 2151 - K specifications - 20 °C

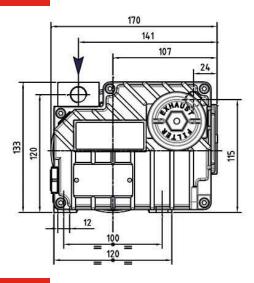
Dimensions mm (inch)

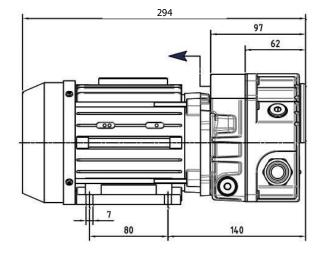
K04



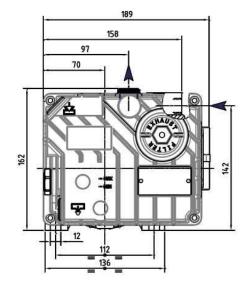


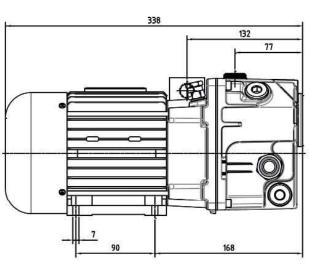
K08





K12







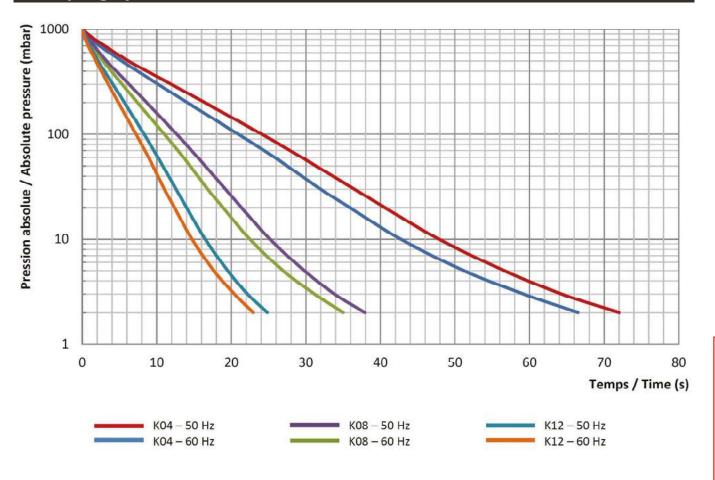
References

	К04	К08	K12
1-ph - 230V 50/60 Hz	824224	824226	824288
3-ph - 230 / 400V 50/60 Hz	824225	824227	824289

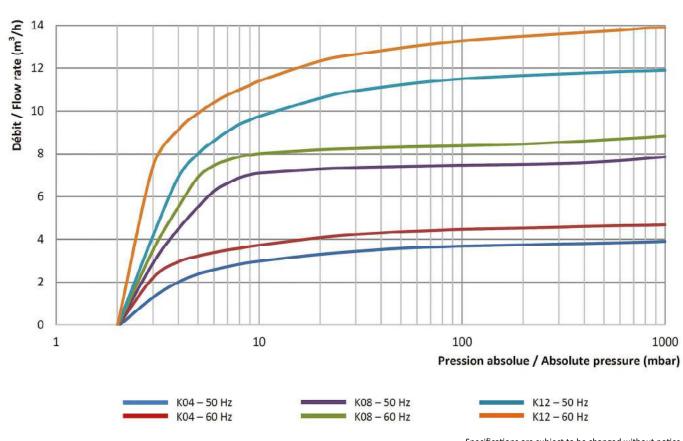
Accessories

			K04	К08	K12
Inlet filter not mounted (Paper cartridge) 39PA - G3/8"		333512	333512	333512	
Inlet hose MF 1/4"	(l.1000 mm)		670177	670177	670177
Inlet hose MF 1/2"	(l.1000 mm)		712931	712931	712931
Inlet hose MF 3/8"	(l.1000 mm)		618981	618981	618981
	without regulation	1-ph, 230V	770502	770502	770503
		3-ph, 400V	770573	770573	770573
Direct starter	with regulation contact LG7	1-ph, 230V	710427	710427	710428
		3-ph, 400V	710421	710421	710421
Safety valve + vacuum gauge mounted		670069	670069	670069	
Base frame assembly		670019	670019	670019	
Electrical cable (3m) with plug - 1ph - 230V		363052	363052	363052	

Pumping speed on 1000 l vessel



Performance curves





High performance oil-less vacuum pumps





INNOVATION 1

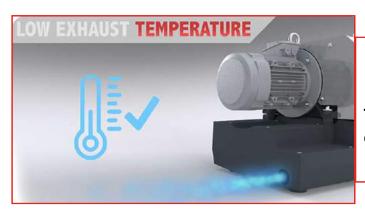
SIRELLA.R oil less claw vacuum pump is a contactless technology designed to insure a very low noise level.

Corrosion resistant claws and chamber



INNOVATION 2

The SIRELLA.R has the best efficiency in the market which brings energy cost saving for the end users



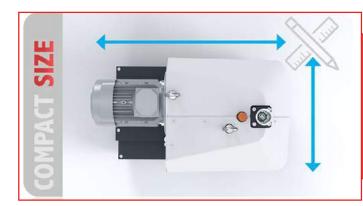
INNOVATION 3

The exhaust temperature is lower than other similar pumps

INNOVATION 4

Access to the claws is easy in order to clean them in case of pollution





INNOVATION 5

The SIRELLA.R has been studied to simplify the pump replacement due to its compact dimensions



SIRELLA.RS

Compatible with VFC variable frequency converter for electricity cost saving

Operation from 25 Hz to 70 Hz

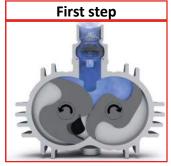
Built-in or separate VFC into electrical board for central vacuum systems

SIRELLA SL100.R

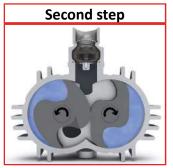


- Contactless technology
- Low noise level
- High efficiency
- Low exhaust temperature
- Easy access and low maintenance
- Compact size
- PT100 temperature sensor included

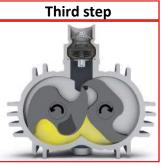
Working principle



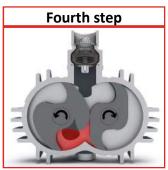
claws trap a volume of gas at the inlet



claws convey gas to the exhaust



gas is compressed (compression chamber)



Gas is discharged

Technical characteristics

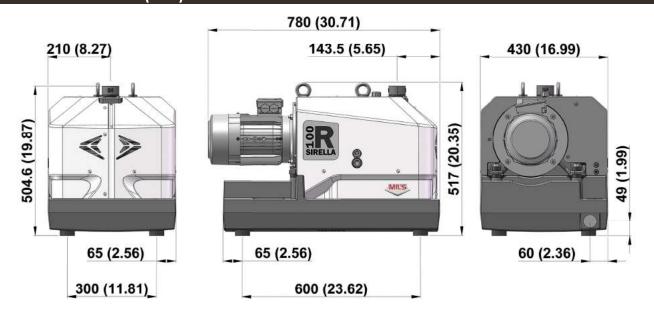
Sirella SL100.R	50 Hz	60 Hz
Pneurop pumping speed (1) m ³ .h ⁻¹ - cfm	90 - 53	108 - 63,6
End vacuum mbar - torr	60 - 45	60 - 45
Continuous end vacuum mbar - torr	60 - 45	60 - 45
Gear box oil capacity MB150S 100 % synthetic l $$ - $$ qt	0,7 - 0,74	0,7 - 0,74
Noise level dB(A)	69	71

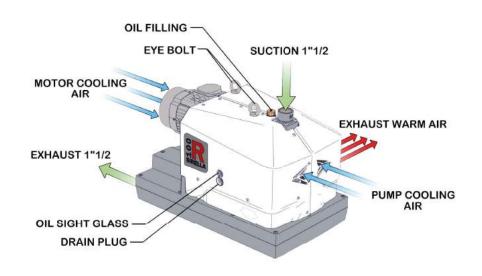
 $^{^{(1)}}$ Measurements according to PNEUROP 6602 specifications - 20°C

Versions

GEOGRAPHIC ZONE		EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
	Number of phases	3	3	3	3	3
	Voltage ∨	230 / 400	220 / 380	190 / 380	208-230 / 460	200 / 380
Electrical motor	Period Hz	50	60	50	60	50 / 60
	Motor power	2,20 kW	2,64 kW	2,20 kW	3,5 HP	2,20 / 2,64 kW
	Rotation speed min ⁻¹	3000	3600	3000	3600	3000/3600
Inlet connection (2)		1''1/2 BSP	1''1/2 BSP	1''1/2 NPT	1''1/2 NPT	1''1/2 BSP
Outlet connection	(2)	1" 1/2 BSP	1''1/2 BSP	1''1/2 NPT	1"1/2 NPT	1''1/2 BSP
Weight with oil kg	- Ib	170 - <i>375</i>	174 - 384	174 - <i>384</i>	174 - <i>384</i>	174 - 384

Dimensions mm (inch)





	Sirella SL100.R
EUROPE 3ph, 230/400V-50Hz	824410
ASIA / MIDDLE EAST 3ph, 220/380V-60Hz	824427
SOUTH AMERICA / USA 3ph, 208-230/460V-60Hz	824418

Maintenance kits

Gear box oil MB150S	1 liter can 619626

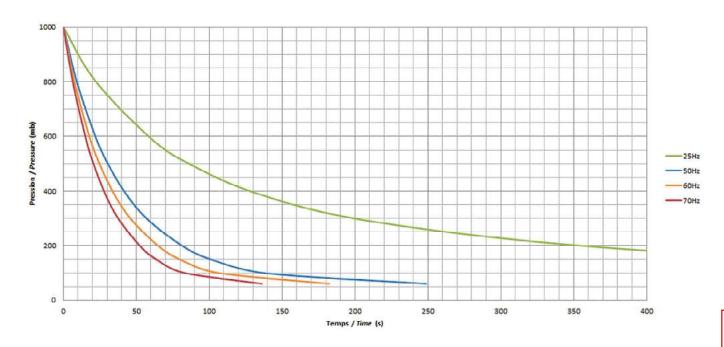
Accessories and Options

			SL100.R
Constant vacuum solenoid valve - electronic control of the end vacuum			625547
1 Adjusting valve fitte	d on T-square (without filter)		723341
_		Paper cartridge	625570
2 Fitted suction filter type 126	Polyester cartridge		625571
		Carbon cartridge	625572
Vacuum gauge fitted on	Vacuum gauge fitted on filter		
Suction hose (I : 1500 m	m)		625573
	Mish out requilation contest	3ph, 400V- 50HZ	770497
Direct starter (wall mounting)	without regulation contact	thout regulation contact 3ph, 230V- 50HZ	
	Mith requisition contact I C7	3ph, 400V- 50HZ	710424
	With regulation contact LG7	3ph, 230V- 50HZ	710432

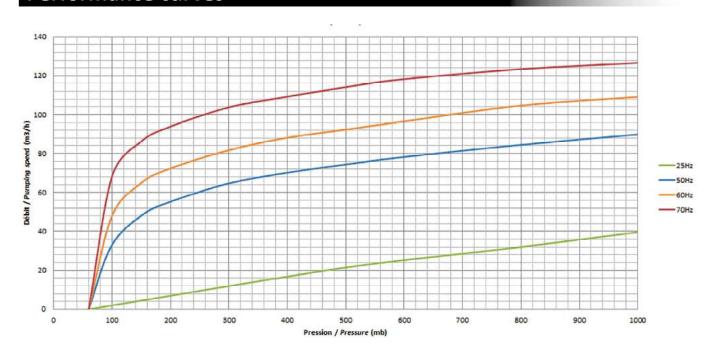




Pumping speed on 1000 l vessel



Performance curves



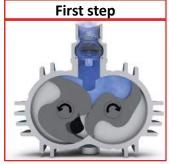
SIRELLA SL150.R 🐔





- Low noise level
- High efficiency
- Low exhaust temperature
- Easy access and low maintenance
- Compact size
- PT100 temperature sensor included

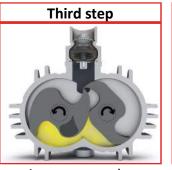
Working principle



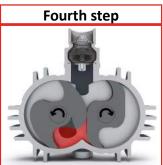
claws trap a volume of gas at the inlet



claws convey gas to the exhaust



gas is compressed (compression chamber)



Gas is discharged

Technical characteristics

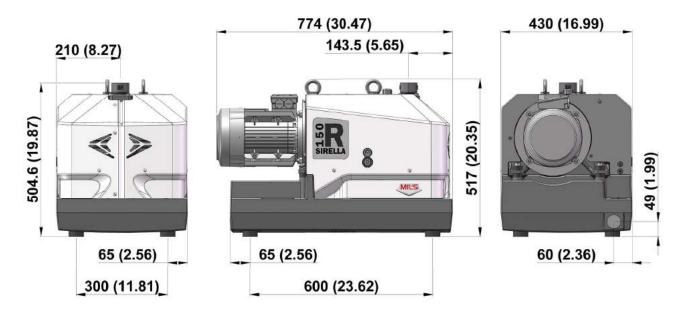
50 Hz	60 Hz
140 - 82,4	164 - <i>96,5</i>
50 - 37,5	50 - 37,5
150 - 112,5	150 - 112,5
0,7 - 0,74	0,7 - 0,74
69	71
	140 - <i>82,4</i> 50 - <i>37,5</i> 150 - <i>112,5</i> 0,7 - <i>0,74</i>

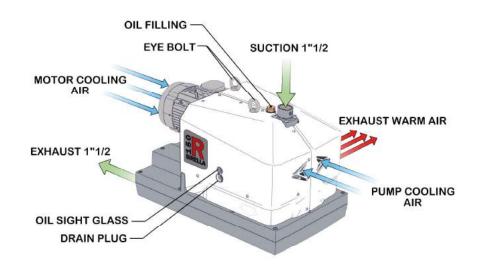
 $^{^{(1)}}$ Measurements according to PNEUROP 6602 specifications - 20° C

Versions

GEOGR	APHIC ZONE	EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
	Number of phases	3	3	3	3	3
	Voltage V	230 / 400	220 / 380	190 / 380	208-230 / 460	200 / 380
Electrical motor	Period Hz	50	60	50	60	50 / 60
	Motor power	3 kW	3,60 kW	3 kW	5 HP	3 / 3,60 kW
	Rotation speed min ⁻¹	3000	3600	3000	3600	3000/3600
Inlet connection		1''1/2 BSP	1''1/2 BSP	1''1/2 NPT	1''1/2 NPT	1''1/2 BSP
Outlet connection		1" 1/2 BSP	1''1/2 BSP	1''1/2 NPT	1"1/2 NPT	1''1/2 BSP
Weight with oil kg	- Ib	180 - 397	190 - 419	190 - 419	190 - 419	190 - 419

Dimensions mm (inch)





	Sirella SL150.R
EUROPE 3ph, 230/400V-50Hz	824411
ASIA / MIDDLE EAST 3ph, 220/380V-60Hz	824428
SOUTH AMERICA / USA 3ph, 208-230/460V-60Hz	824419

Maintenance kits

Gear box oil MB150S 1 liter can 619626

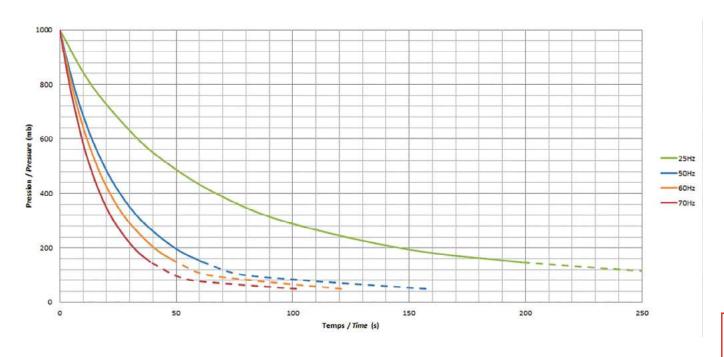
Accessories and Options

			SL150.R	
Constant vacuum sole	625547			
1 Adjusting valve fitte	1 Adjusting valve fitted on T-square (without filter)			
_		Paper cartridge	619891	
2 Fitted suction filter type 201		619892		
		619893		
Vacuum gauge fitted on	Vacuum gauge fitted on filter			
Suction hose (I : 1500 m	nm)	_	625574	
	With out we wild in a contest	3ph, 400V- 50HZ	770498	
Direct starter	Without regulation contact	3ph, 230V- 50HZ	770499	
(wall mounting)	With regulation contact I C7	3ph, 400V- 50HZ	710425	
	With regulation contact LG7	3ph, 230V- 50HZ	710433	

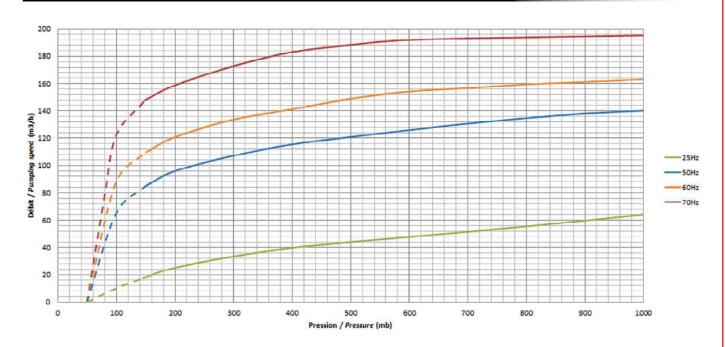




Pumping speed on 1000 l vessel



Performance curves

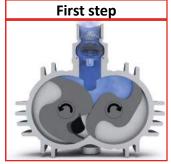


SIRELLA SL300.R 🕺



- Contactless technology
- Low noise level
- High efficiency
- Low exhaust temperature
- Easy access and low maintenance
- Compact size
- PT100 temperature sensor included

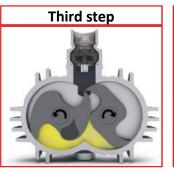
Working principle



claws trap a volume of gas at the inlet



claws convey gas to the exhaust



gas is compressed (compression chamber)



Gas is discharged

Technical characteristics

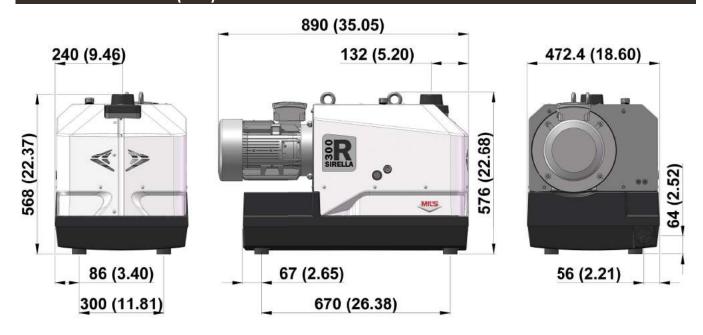
Sirella SL300.R	50 Hz	60 Hz
Pneurop pumping speed (1) m ³ .h ⁻¹ - cfm	260 - 153	312 - 183.6
End vacuum mbar - torr	50 - 37,5	50 - 37,5
Continuous end vacuum mbar - torr	150 - 112,5	150 - 112,5
Gear box oil capacity MB150S 100 % synthetic l $$ - $$ qt	1 - 1,06	1 - 1,06
Noise level dB(A)	70	72

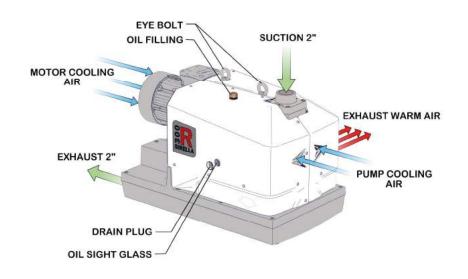
⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

Versions

GEOGR	APHIC ZONE	EUROPE	ASIA MIDDLE-EAST	SOUTH AMERICA	USA	JAPAN
	Number of phases	3	3	3	3	3
	Voltage V	230 / 400	220 / 380	190 / 380	208-230 / 460	200 / 380
Electrical motor	Period Hz	50	60	50	60	50 / 60
	Motor power	5,5 kW	6,6 kW	5,5 kW	9 HP	5,5 / 6,6 kW
	Rotation speed min ⁻¹	3000	3600	3000	3600	3000/3600
Inlet connection		2" BSP	2" BSP	2" NPT	2" NPT	2" BSP
Outlet connection		2" BSP	2" BSP	2" NPT	2" NPT	2" BSP
Weight with oil kg	- Ib	300 - 662	315 - 695	315 - 695	315 - 695	315 - 695

Dimensions mm (inch)





	Sirella SL300.R
EUROPE 3ph, 230/400V-50Hz	824412
ASIA / MIDDLE EAST 3ph, 220/380V-60Hz	824429
SOUTH AMERICA / USA 3ph, 208-230/460V-60Hz	824420

Maintenance kits

Gear box oil MB150S 1 liter can 619626	
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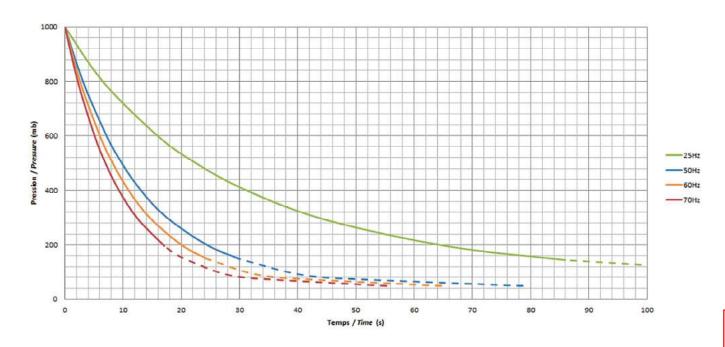
Accessories and Options

			SL300.R
Constant vacuum sole	Constant vacuum solenoid valve - electronic control of the end vacuum		
1 Adjusting valve fitte	d on T-square (without filter)		713842
		Paper cartridge	715350
2 Fitted suction filter type 201	Polyester cartridge		715351
		Carbon cartridge	715352
Vacuum gauge fitted on	filter		617536
Suction hose (I: 1500 m	nm)		625575
	Without regulation contact	3ph, 400V- 50HZ	770499
Direct starter (wall mounting)	without regulation contact	3ph, 230V- 50HZ	770500
	With regulation contact LG7	3ph, 400V- 50HZ	710426
	with regulation contact EG/	3ph, 230V- 50HZ	710434

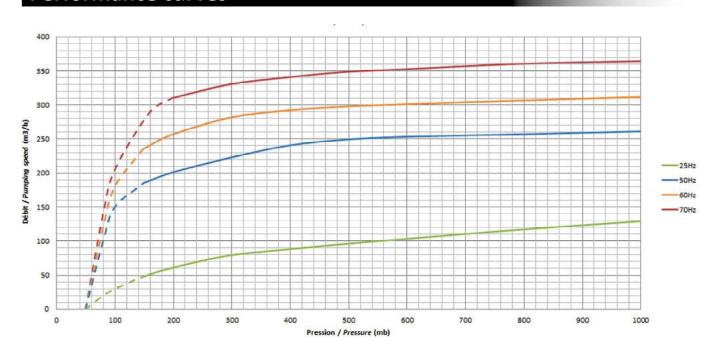




Pumping speed on 1000 l vessel



Performance curves







Compatible with VFC variable frequency converter for electricity cost saving

Operation from 25 Hz to 70 Hz

Built-in or separate VFC into electrical board for central vacuum systems

- Contactless technology
- Low noise level, compact size and high efficiency
- Low exhaust temperature
- Easy access and low maintenance
- PT100 temperature sensor





Technical characteristics

Sirella RS	SL100.RS	SL150.RS	SL300.RS	
Pneurop pumping speed (1) m ³ .h ⁻¹ - cfm	40 to 126 - 23 to 74	64 to 195 - <i>37 to 115</i>	129 to 312 - 76 to 184	
End vacuum mbar - torr	60 - 45	50 - <i>37.5</i>	50 - <i>37.5</i>	
Continuous end vacuum mbar - torr	150 - 112,5	150 - 112,5	150 - 112,5	
Gear oil capacity MB150S 100 % synthetic - qt	0,7 - 0,74	0,7 - 0,74	0,7 - 0,74	
Noise level dB(A)	72	72	72	

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

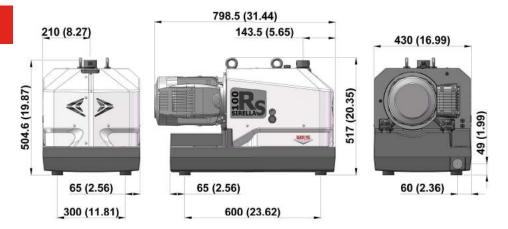
Versions

SI	RELLA	SL100.RS	SL150.RS	SL300.RS
	Number of phases	3	3	3
	Voltage V	380 to 480	380 to 480	380 to 480
Electrical motor	Period Hz (*)	45 to 66	45 to 66	45 to 66
	Max motor power	3.5 kW	4.5 kW	6.6 kW
Rotation speed min ⁻¹		1500 to 4200	1500 to 4200	1500 to 3600
Inlet connection		1"1/2 BSP or NPT	1"1/2 BSP or NPT	2" BSP or NPT
Outlet connection		1"1/2 BSP or NPT	1"1/2 BSP or NPT	2" BSP or NPT
Weight with oil kg	- Ib	177 - 390	200 - 441	316 - 697

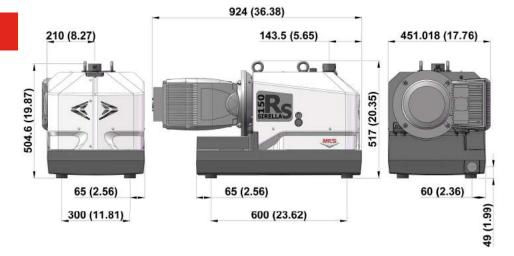
^(*) Admissible frequency for power sypply of the VFC

Dimensions mm (inch)

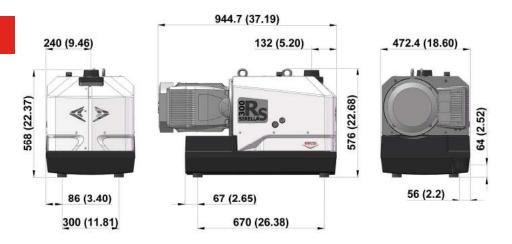




SL150.RS



SL300.RS



	SL100.RS	SL150.RS	SL300.RS
BSP CONNECTIONS	824413	824414	824415
NPT CONNECTIONS	824430	824431	824432

Liquid traps

- Optimized protection of vacuum pumps
- High efficiency to drain liquids in vacuum pipeline
- Model with stainless steel mechanical float (cutting the flow in the event of excessively large liquid overflow) to protect the pumping group
- Plexiglas, polycarbonate or PYREX bowls
- 316L stainless steel version available for liquid traps type 100 / 125 / 200
- Wall fixation or head fitting on machine frame

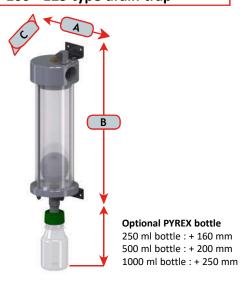
Options

- Glass (pyrex) bottle fixed under the trap to drain condensates
- Fitting of an automatic liquid drain under the trap : allows to drain the system without stopping the process

Dimensions (mm)

	Α	В	С	Tank
Liquid trap type 100	125	415	137	2 L
Liquid trap type 125	125	415	137	2 L
Liquid trap type 200	230	495	220	7 L
Liquid trap type 250	230	495	220	7 L
Liquid trap type 300	345	647	290	16 L
Liquid trap type 400	345	647	290	16L

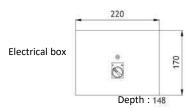
100 - 125 type drain trap

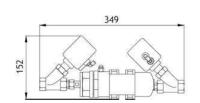


200 - 250 - 300 - 400 type drain trap



Automatic drain





References and characteristics

Aluminium head Plexiglas cylinder	100	125
Flow rate m ³ /h	48	120
Inlet / Outlet BSPP	1"	1" 1/4
Drain valve outlet	G 1/2"	G1/2"
Without mechanical float	724793	724797
With mechanical float	724794	724798

Aluminium head Pyrex cylinder	100	125
Flow rate m ³ /h	48	120
Inlet / Outlet BSPP	1"	1" 1/4
Drain valve outlet	G1/2"	G1/2"
Without mechanical float	724807	724811
With mechanical float	724808	724812

Aluminium head Polycarbonate cylinder	200	250	300	400
Flow rate m ³ /h	340	408	696	835
Inlet / Outlet BSPP	2"	2" 1/2	3"	4"
Drain valve outlet	G1/2"	G1/2"	G1/2"	G1/2"
Without mechanical float	724801	724805	724809	724813
With mechanical float	724802	724806	724810	724814

316L stainless steel head Pyrex cylinder	100	125	200
Flow rate m ³ /h	48	120	340
Inlet / Outlet BSPP	1"	1" 1/4	2"
Drain valve outlet	G1/2"	G1/2"	G1/2"
Without mechanical float	724795	724799	724803
With mechanical float	724796	724800	724804

Options	100	125	200	250	300	400
250 ml PYREX bottle	615441					
500 ml PYREX bottle			615	442		
1000 ml PYREX bottle	615443					
Bracket for wall fixing	Included 619907			617512		
Flanges DN80				617513		
Flanges DN100						617514
	Electro-pneumatic with control board					816002
Automatic drain	Electro-pneumatic with control board (2I)				821664	
	Electrical with control board				816003	

Vacuum sealed suction filters



The suction filters prevent the entry of solid particles into the pump, ensuring its longevity

- One or two 1/4" differential taps for gauges (depending on model)
- Vacuum level: 1,3 x10⁻³ mbar (except filters 25 / 38 / 51)
- Running temperature (continous) : -15 °C to +100 °C
- Low pressure drop

Different configurations are available with 3 types of cartridges:

- Polyester : for all uses, resists humidity (efficiency : 99% at 5 μ)
- Paper: for dry gases (efficiency: 99% at 2 μ)
- Carbon: to eliminate odors and absorb some contaminants (efficiency: 99% at 10 μ)

Characteristics and dimensions (mm)



			Dime	nsions	(mm)		Filter flow	Filter element flow	Weight
Right-angle filters	Inlet - Outlet	Α	В	С	D	Ε	m³.h ⁻¹	m³.h ⁻¹	kg
39 PA / PO / CH	3/8" - BSPP	85	54	54	46	76	31	43	0,4
76 PA / PO / CH	3/4" - BSPP	103	76	76	64	83	43	94	1,4
100 PA / PO / CH	1" - BSPP	111	83	83	67	83	60	94	1,4
126 PA / PO / CH	1" 1/4 - BSPP	105	105	105	114	133	102	196	2,3
201 PA / PO / CH	2" - BSPP	260	114	114	127	235	298	493	6,8
251 PA / PO / CH	2" 1/2 - BSPP	271	130	130	140	235	357	493	6,8
DN40KF - 100 PA / PO / CH	DN40 - KF	183	117	187	127		136	195	2
ammy file			Dime	nsions	(mm)		Filter flow	Filter element flow	Weight
ATEX filters	Inlet - Outlet	Α	В	С	D	Ε	m³.h ⁻¹	m³.h ⁻¹	0,4 1,4 1,4 2,3 6,8 6,8
126 PA / PO / CH ATEX ZONE IIGD c IIIC T4 X	1"1/4 - BSPP	169	114	122	-	-	102	196	2,3

2" - BSPP

285

127

222

298

493

6,8

201 PA / PO / CH

			Dime	nsions	(mm)		Filter flow	Filter element flow	Weight
Straight-through filters	Inlet - Outlet	Α	В	С	D	E	m³.h ⁻¹	m³.h ⁻¹	kg
25 PA / PO	1/4"	86	16	64	16	-	7	14	0,23
38 PA / PO	3/8"	86	16	64	16	-	10	14	0,23
51 PA/ PO	1/2"	98	22	64	22		10	14	0,23
CT201 PA / PO	2" - BSPP	325	275	229	229	228	298	495	7,2
CT251 PA / PO	2"1/2 - BSPP	325	275	229	229	228	357	495	6,8
CT301 PA / PO	3" - BSPP	473	404	343	328	228	510	969	14
CT401 PA / PO	4" - BSPP	473	404	343	328	228	884	969	12
CT601 PA / PO	6" - BSPP	483	363	483	249	254	1870	1870	20
ST201 PA / PO	2"1 - BSPP	413	362	229	315	228	298	495	7,2
ST251 PA / PO	2"1/2 - BSPP	413	362	229	315	228	357	495	6,8
ST301 PA / PO	3" - BSPP	502	432	343	356	228	510	969	13
ST401 PA / PO	4" - BSPP	502	432	343	356	228	884	969	11

Right-angle filters	76	100	126	201	251	
Right-angle filter	Paper cartridge	76PA 357893	100PA 360595	126PA 357894	201PA 357895	251PA 357896
	Polyester cartridge	76PO 357910	100PO 362235	126PO 362236	201PO 362237	251PO 362238
	Carbon cartridge	76CH 610515	100CH 616194	126CH 610516	201CH 610517	251CH 610518





Straight-through filters with steel cylinder		25	38	51	CT201	CT251	CT301	CT401	СТ601
Straight-through filter	Paper cartridge	25PA 358225	38PA 362243	51PA 357947	CT201PA 362015	CT251PA 362016	CT301PA 357897	CT401PA 361106	CT601PA 361310
	Polyester cartridge	25PO	38PO	51PO					
		362241	362244	357948	362231	362232	362233	362234	361392

Straight-through polycarbonate cy		ST201	ST251	ST301	ST401
	Danar cartridge	ST201PA	ST251PA	ST301PA	ST401PA
Straight-through	Paper cartridge	362245	362246	361627	362277
filter	Delvector contrides		ST251PO	ST301PO	ST401PO
	Polyester cartridge		332895	620166	362710

Accessories for CT & ST straight-through filters	201	251	301	401		
Bracket for mural fixing	619	907	617	512		
Polycarbonate cylinder kit	362	248	362	250		
Flanges			617513	617514		
Vacuum gauge fitted on filter	617536					

ATEX filters		126	201
ATEX filter ZONE IIGD c IIIC T4 X	Paper cartridge	126PA 625470	201PA 625472
	Polyester cartridge	126PO 625471	201PO 625473
	Carbon cartridge	126CH 619884	201CH 619885





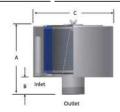
Silent suction filters

Cilous Chan Coulo		Dimensions (mm)			Filter flow	Weight	Complete filter with	Paper cartrigde		
Silent filter	lent filter Outlet		В	С	m³.h-1	kg	paper cartrigde reference	designation & reference		
FS25	1/4"	70	17	64	7	0,11	358226	04	358227	
FS50	1/2"	95	95	83	20	0,23	360390	06	357950	
FS75	3/4"	96	32	155	43	0,9	357920	14	357924	
FS100	1"	96	33	155	60	0,9	362638	18P	357925	
FS125	1"1/4	171	41	156	119	1,5	357921	18P	357925	
FS200	2"	304	60	260	230	6,3	357922	230P	357926	
FS250	2"1/2	314	67	260	332	6,5	357923	230P	357926	

FS25 and FS50 Silent filter



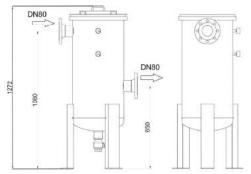
FS75 TO FS250 Silent filter

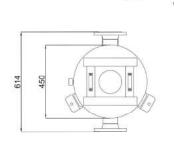


Dust separator with removable bag

- High steel painted filter
- Movable polyamid bag, 80 μ mesh, capacity: 55 l
- Quick easy fixing of the bag
- Movable cover with observation window
- Highly efficient protection for pumps running in very dusty environment

Dimensions (mm)





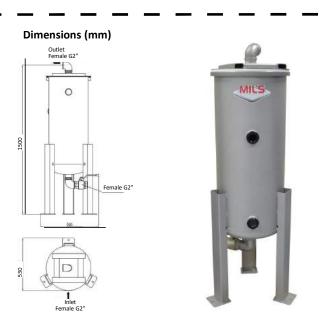
Dust separator
Separator
Replacement bag

718548 361714

Liquid cyclonic separator

- High steel painted tank or stainless steel tank with take-down upper part
- Up and down sight glasses
- Evacuation by manual ball valve

Liquid cyclonic separato	or
Carbon steel separator	616113
Stainless-steel separator	619058



"SPIRACIER" special hoses, vacuum switches & vacuum gauges



Flexible transparent **PVC** hose with galvanized steel spiral

Special vacuum "SPIRACIER" hoses with 2 rotating nuts

•											
Crimped hose	1/2 " Ø 14	3/4 " Ø 20	1 " Ø 25	1 " 1/4 Ø 30	1 " 1/2 Ø 35	2 " Ø 45	2 " 1/2 Ø 64	DN80	DN100		
600 mm	670633	606086	618265	670650	618267	618149	618956	618269	618270		
1 000 mm	612919	604422	617372	607058	606455	606099	618957	617833	617834		
1 500 mm	616362	618264	618266	610457	618268	607592	618661	-	-		

Special vacuum "SPIRACIER" hoses with 2 rotating nuts

Hose by the meter	1/2 " Ø 14	3/4 " Ø 20	1 " Ø 25	1 " 1/4 Ø 30	1 " 1/2 Ø 35	2 " Ø 45	2 " 1/2 Ø 64	DN80	DN100
Hose by the meter	059656	056350	063088	056351	056352	056353	061707	063091	061412
Fitting set *	618271	618082	618083	618084	618085	618086	618958	618272	618273

^{* 2} bushings + clamps and 2 FF rotating nuts + gaskets

BRASS straight unions

Straight unions	1/4 "	3/8 "	1/2 "	3/4 "	1"	1 "1/4	1 " 1/2	2"
MM equal	352610	350470	350473	350476	350477	350480	350482	350484
	3/8 - 1/4"	1/4" - 1/2"	1/2"- 3/4"	3/4 "- 1"	1"- 1"1/4	1"1/4 - 1"1/2	1"1/2 - 2"	
ММ	350468	350469	350474	353551	350478	350481	350483	

Check valve

Check valve	3/8 "	1/2 "	3/4 "	1"	1 " 1/4	1 "1/2
Brass check valve	654225	654226	654227	654903	654904	654905

Mechanical vacuum switches

- Adjustable threshold
- Adjustable hysteresis

Mechanical vacuum switches		
Vacuum switch	Hysteresis mini 130 mbar	352997
Vacuum switch	Hysteresis mini 30 mbar	357549

Vacuum gauges

- Working pressure:
- -1/0 bar

Vacuum gauges	
Ø50 vertical connection 1/4"	363032
Ø63 vertical connection 1/4"	357037

Vacuum solenoid valves

References								
	Size	G1/2 "	G3/4 "	G1	" G1	" 1/4	G1 "1/2	G2
Vacuum solenoid valve	Reference	AD-15 360023	AD-20 360024	AD-2 3606	_	D-35 0025	AD-40 360026	AD-
	Time	-	11 s.	11 9	i. 1	.2 s.	26 s.	26
Ball valve with electric	ER Plus Brass	-	360761	3613	02 36	1337	361335	361
actuator 230V - 50 Hz supply	Time	-	12 s.	12 9	s. 2	26 s.	26 s.	12
	ER Plus Stainless steel	-	361164	3612	50 36	1165	361338	361
2-ways ball valve with	Reference	360873	360874	3608	75 35	9528	360876	360
pneumatic actuator	Pilot	electric a	ctuator 5/2	- 230V - 50	OHz		359	959
immediate opening	Flow reducer	flow redu	ıcer (openir	ng / closing	speed)		2 x 36	0758
	Size	DN65 (2"1/2)	DN80 (3")	DN1(N125 (5")	DN150 (6")	
4 Double acting butterfly valve	Reference	360873	360874	3608	75 35	9528	360876	
with pneumatic actuator	Pilot	electric actuator 5/2 - 230V - 50Hz 359			959			
immediate opening	Flow reducer	flow reducer (opening / closing speed) 2 x 36					60758	
Butterfly valve with electric	Time	-	- 12 s. 12 s.		-			
actuator 230V - 50 Hz supply	ER Plus	-	- 334154 361613		13	-		
,								
	Size	G3/8 "	G1/2 "	G3/4 "	G1 "	G1 " 1/4	G1 "1/2	G
	NO	359322	359390	359391	359354	358798	359392	358
Angle-seat valve, pneumatic	NC NC	359321	359352	359387	359388	358799	359389	359
control, immediate opening		Banjo solenoid v	alve 3/2 NF - 230	V - 50 Hz 1/8"	Banjo	solenoid valve	3/2 NF - 230V - 50	Hz 1/4"
	Pilot	·	359928			35	9929	
	Size	G3/8 "	G1/2 "	G3/4 "	G1 "	G1 " 1/4	G1 "1/2	G
	3126							
7 Manual ball valve		350945	350946	350947	350948	350949	350950	350
	Ci=o	DNEO	DNSO	DN100	DN12F	DN1E0		
	Size	DN50	DN80	DN100	DN125	DN150		
8 Manual butterfly valve		361304	360467	361351	361347	361348	_	
	2		3				4	
			7		<u> </u>		8	









Home made vertical vacuum receivers



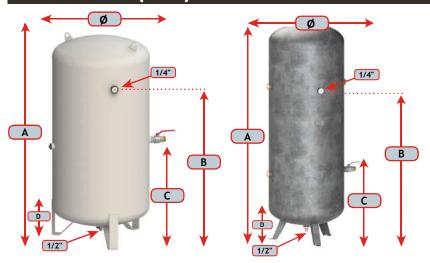
1 inlet and 1 outlet for painted version, or 2 inlets and 2 outlets in galvanized version.

Equipment included:

- 1 vacuum gauge 0 1013 mbar
- 1 manual drain valve
- 1 manual network valve

Also available in horizontal version (on request)

Dimensions (mm) and references



Vertical vacuum receiver	Network	Dimensions (mm)					Weight
vertical vacuum receiver	valve	Α	В	С	D	Ø	kg
Painted receiver - 500 I	1"1/4	1815	1455	872	200	650	120
Painted receiver - 1000 I	1"1/2	1800	1450	850	170	850	210
Painted receiver - 2000 I	2"	2100	1600	850	170	1200	340
Galvanized receiver - 500 l	1"1/4	2055	1665	785	155	600	125
Galvanized receiver - 1000 l	1"1/2	2350	1520	770	145	800	220
Galvanized receiver - 2000 I	2"	2490	1755	770	200	1100	400

Receiver with equipment		500 l 1000 l		2000 I
Steel painted receiver	710486	710488	722341	
Galvanized receiver	Galvanized receiver			710617
Automatic drain	Electropneumatic		816002	
See page 88 for dimensions	Electric		816003	

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 Company MIL'S after 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 Company MIL'S general conditions of purchase expressly accepted by the Supplier. It is the responsability of the Customer to ensure compliance with local regulatory requirements.

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 Customer will have benefited.

The Customer 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 Company Mil's.

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, instigated by the customer, in the course of execution for a cause outside our control, including force majeure, shall render the customer the debtor in respect to Company Mil's of compensation that, in no case, shall be less than 20% of the amount of the order and also less than the amounts of purchases and time already spent and this, whatever be the state of play, and furthermore any deposit already paid shall be kept as cover.

RETURNS

No merchandise can be returned to 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.

In accordance with agreement between the Parties at the time order.

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

Company MIL'S may on no account be held responsible in case of installation by third party, improper or not compliant with Company MIL'S recommendations in the technical notice, neither in case of improper use of the material regarding instruction given in this technical notice.

Company MIL'S reserves the right to modify technical specifications at any time and without notice of its manufactured materials.

PAYMENT CONDITION

In case of no negotiation before ordering, the payment term is by swift transfer, within eight days, at reception of invoice, with minimum of $60 \in \text{net}$. (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 after the deadline indicated on the said invoices, shall lead to:

- 1. the immediate payability on the amounts remaining due,
- the interests calculated at a rate equal to 15% per year and any legal costs.
- 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.

TRANSPOR

All transport operations, insurance, customs, handling carried out ARE PAYABLE BY AND AT THE RISKS OF THE CUSTOMER 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 Customer.

GUARANTEE OF THE EQUIPMENT

Except the cases of legal guarantee that one cannot be interfered with, 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 on videous theeks.

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 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

Company MIL'S 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.

FLIMINATION 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, Company MIL'S 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 Company MIL'S reserves the right to ask him compensation for any damage that she could suffer thereby".

INSURANCE COVERING OUR LIABILITY

Our company has taken out an insurance policy covering the pecuniary consequences of our legal liability and this in the following way:

Civil Liability for Operations: \in 10,000,000 per claim, all physical injury, and tangible and intangible losses inclusive, with:

€ 2,500,000 for "inexcusable conduct" per claim and per year of insurance

€ 500,000 for physical injury and for tangible and intangible losses resulting from pollution, per claim and per year of insurance.

© 5,000,000 for tangible and intangible losses other than from pollution, per claim and with the following sub-limits:

- € 300,000 for non-consecutive intangible losses per claim.
- € 100,000 for tangible losses pertaining to property of others and consequential intangible losses, per claim.
- € 30,000 for theft by a servant or agent per claim.

Civil Liability for Delivered Products/ Product recalls:

 $\ \in \ 3,000,000, \ all \ physical injury, tangible and intangible losses inclusive, per claim and per year of insurance, with:$

€500,000 for non-consecutive intangible losses including removal/reinstallation expenses engaged by third parties, per claim and per year of insurance.

 ${\mathfrak E}$ 300,000 forrecall costs engaged by third parties and by the policy holder, per claim and per year of insurance.

Company MIL'S responsibility will not be engaged for amounts exceeding the guaranteed amounts, which is expressly agreed by the Customer. Company MIL'S may (if applicable) be lead to subscribe complementary guarantee, on Customer's specific request and Customer's sole expense: he will exclusively assume the costs.

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.

VIGILANCE system

The Customer must put forward, without any delay, to the vigilance system correspondent complete information about any incident, real or potential (further to decree 96/32 definition), involving a medical device provided by Company MIL'S. The Customer, if necessary, will have to cooperate in the implementation of all warning measures.

TRACEABILITY

The Customer must ensure the maintenance of traceability of all the medical devices delivered by MIL'S, including devices by their own customers and dealers, in order that the information concerning the product can be obtain, at any time on Company MIL'S or any competent authorities' requirement. In accordance with 93/42/CEE directive, the records referring to traceability have to be kept, at least during the device life and anyway during five years.

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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YOUR REPRES	SENTATIVE:	



