



VAKUUM BOHEMIA

vacuum pumps, vacuum systems, blowers, compressors, repairs

VAKUUM BOHEMIA s.r.o.

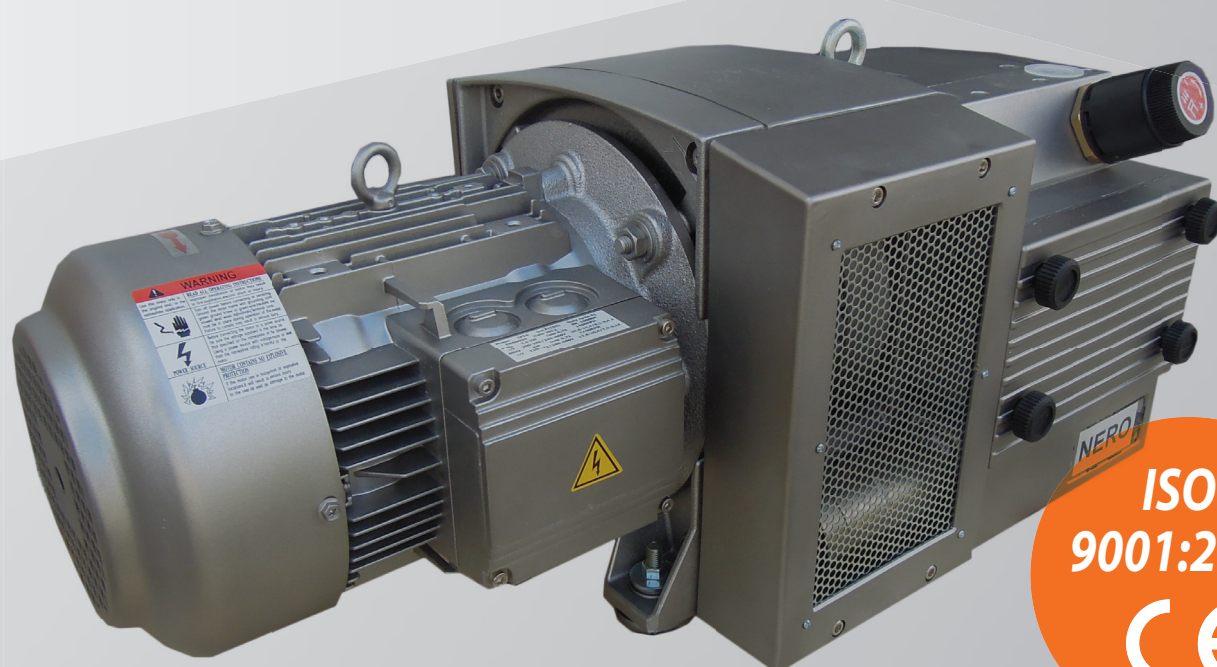
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NERO

DRY VACUUM PUMPS AND COMPRESSORS



ISO
9001:2001



DRY VANE VACUUM PUMPS



NERO

OVERVIEW OF PRODUCTS

Description:

NERO vacuum pumps are absolutely oil-free vacuum pumps working on the principle of rotating graphite vanes. Vacuum pumps are designated NV. Vacuum pumps can work as compressors. The compressor versions are designated ND.

Vacuum pumps are designed for continuous operation. They are primarily used for vacuum handling, suction and movement of air and dry gases which are not aggressive, poisonous or explosive in their pure form or mixed with other substances. Vacuum pumps NERO are air-cooled.

Pumping speed up to 8 m³/h:



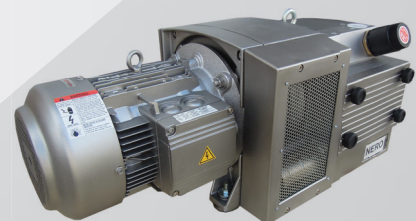
Model	Pumping speed (m ³ /h)	Max. vacuum (mbar)	Power (kW)	Noise (dB)	Weight (kg)	Number of phases (φ)
NV 1004	4	150	0,18	59	7	3f
NV 1008	8	150	0,35	60	12	1f a 3f

Pumping speed up to 40 m³/h:



Model	Pumping speed (m ³ /h)	Max. vacuum (mbar)	Power (kW)	Noise (dB)	Weight (kg)	Number of phases (φ)
NV 1010	10	150	0,37	58	22	1f a 3f
NV 1016	16	150	0,55	59	26	1f a 3f
NV 1025	25	150	0,75	60	31	1f a 3f
NV 1040	40	150	1,25	65	38	3f

Pumping speed up to 140 m³/h:



Model	Pumping speed (m ³ /h)	Max. vacuum (mbar)	Power (kW)	Noise (dB)	Weight (kg)	Number of phases (φ)
NV 1060	56	100	2,4	70	69	3f
NV 1080	68	100	2,4	71	70	3f
NV 1100	98	100	3	74	102	3f
NV 1140	130	100	4	76	113	3f



NV 1004 - NV 1008

TECHNICAL DATA

Pumps up to 8 m³/h:



NERO vacuum pumps are designed for industrial use. Vacuum are designed for continuous operation and are an ideal source of vacuums in applications requiring exhaust air to be absolutely oil-free.

Main advantages:

- air-cooled
- exhaust air is absolutely oil-free
- compact design
- high efficiency
- simple maintenance and long service life

The vacuum pump can continuously pump air in a range of 150 mbar (abs) to 1 bar (abs). The pump may be used to create both vacuums and positive pressure.

Technical data:

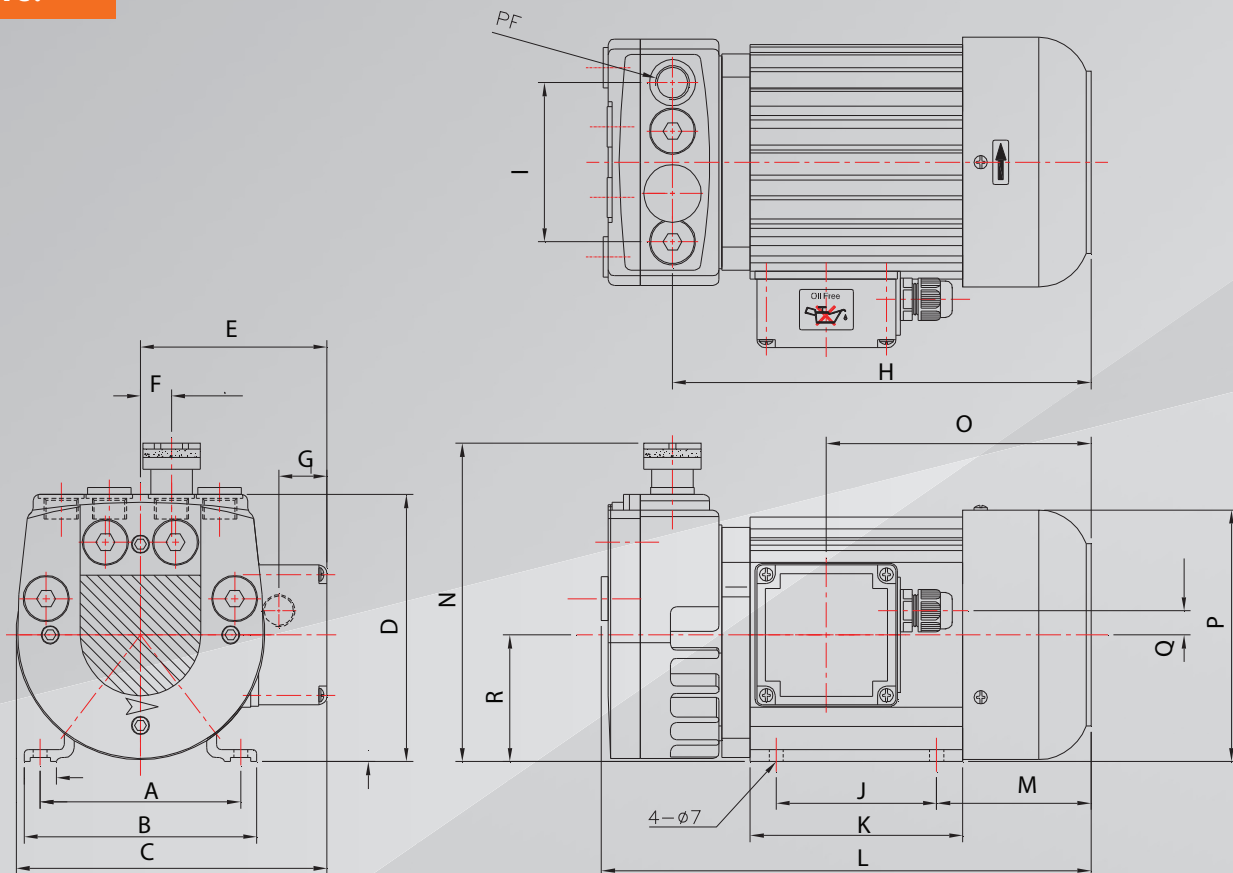
Model		NV 1004	NV 1008
Pumping speed [m ³ /h]	50 Hz	4	8
	60 Hz	4,8	8,8
Maximum vacuum [mbar (abs)]		150	150
Motor power [kW]	50 Hz	0,18	0,35
	60 Hz	0,22	0,42
Voltage [V]	50 Hz	Δ 200 -255	Y 264 - 440
	60 Hz	Δ 220 -275	Y 380 - 480
Noise [dB(a)]	50 Hz	59	60
	60 Hz	61	61
Weight [kg]		7,5	12



NV 1004 - NV 1008

TECHNICAL DATA

Schematic:



Dimensions in mm:

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	PF
NV 1004	100	116	154	126	92	15	24	202	75	80	106	234	77	152	132	125	12	1/4
NV 1008	100	116	155	133	93	15,5	24	209	79	80	106	244	77	158	132	125	12	3/8

Operating environment:

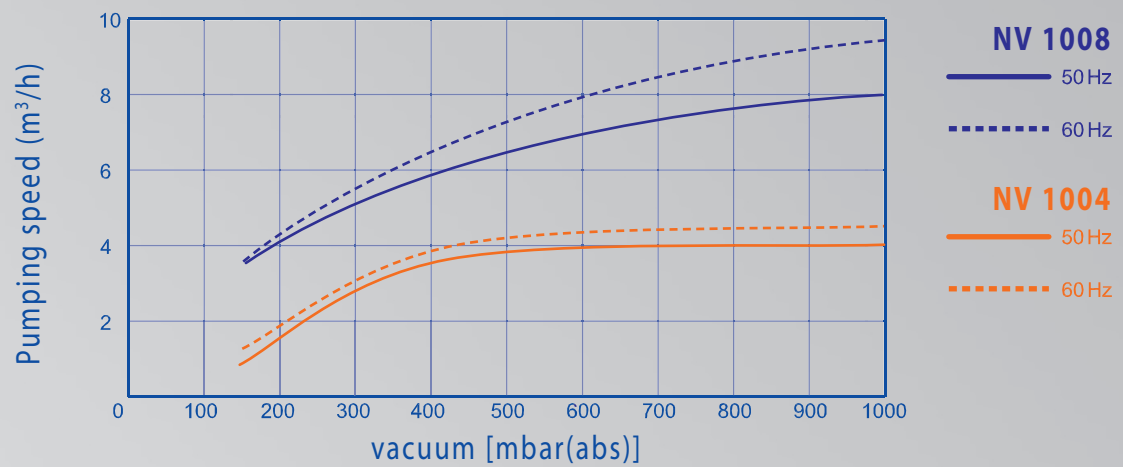
- Surrounding temperature: 0°C ~ +40°C
- Temperature of intake air: -5°C ~ +40°C
- Maximum elevation above sea level: 800 m
- Maximum air humidity: 80%
- The vacuum pump may be placed on a horizontal base unmounted, or it can be mounted with screws.



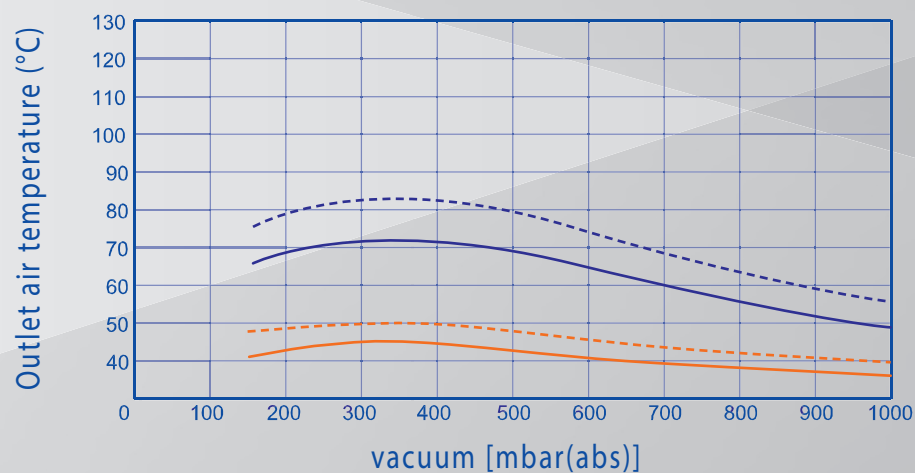
NV 1004 - NV 1008

PUMPING CHARACTERISTICS

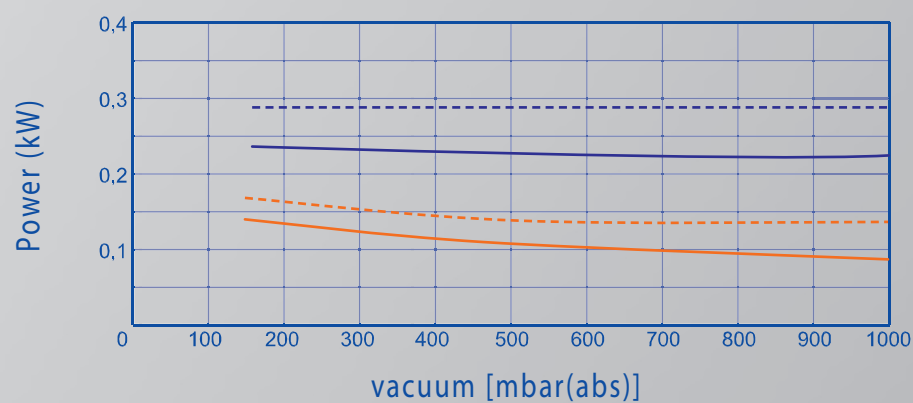
Pumping speed:



Temperature:



Power consumed:



Data is given for an outlet atmospheric pressure of 1 bar (abs), temperature of 20 °C, density 1.2 Kg/m³, deviation 10%



NV 1010 - NV 1040

TECHNICAL DATA

Pumps up to 40 m³/h:



NERO vacuum pumps are designed for industrial use. Vacuum are designed for continuous operation and are an ideal source of vacuums in applications requiring exhaust air to be absolutely oil-free.

Main advantages:

- air-cooled
- exhaust air is absolutely oil-free
- compact design
- high efficiency
- simple maintenance and long service life

The vacuum pump can continuously pump air in a range of 150 mbar (abs) to 1 bar (abs). The pump may be used to create both vacuums and positive pressure.

Technical data:

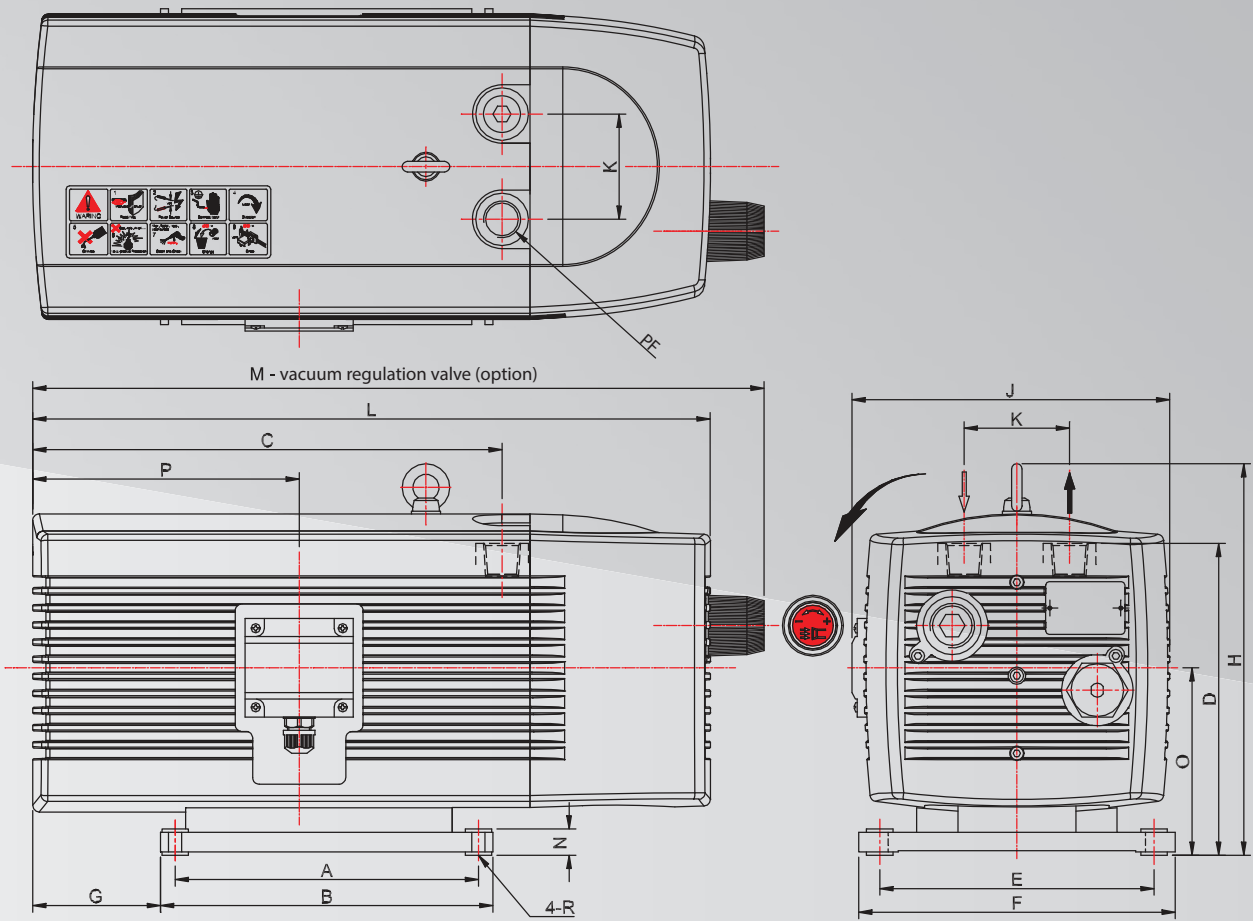
Model		NV 1010	NV 1016	NV 1025	NV 1040
Pumping speed [m³/h]	50 Hz	10	16	25	40
	60 Hz	12	19	30	48
Maximum vacuum [mbar (abs)]		150	150	150	150
Motor power [kW]	50 Hz	0,37	0,55	0,75	1,25
	60 Hz	0,45	0,7	0,9	1,5
Noise [dB(A)]	50 Hz	58	59	60	65
	60 Hz	60	61	62	68
Weight [kg]		22	26	31	38
Voltage [V]	50 Hz	Δ 200 - 255		Y 264 - 440	
	60 Hz	Δ 220 - 275		Y 380 - 480	
Motor speed [rpm]	50 Hz	1500			
	60 Hz	1800			



NV 1010 - NV 1040

TECHNICAL DATA

Schematic:



Dimensions in mm:

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	PF
NV 1010	202	233	308	200	125	157	91	275	232	75	433	465	20	130	167	9	1/2"
NV 1016	202	233	327	200	125	157	91	275	232	75	458	490	20	130	167	9	
NV 1025	220	252	353	230	190	240	123	295	243	80	513	555	20	143	192	9	3/4"
NV 1040	220	252	400	230	208	240	123	295	243	80	570	516	20	143	223	9	

Operating environment:

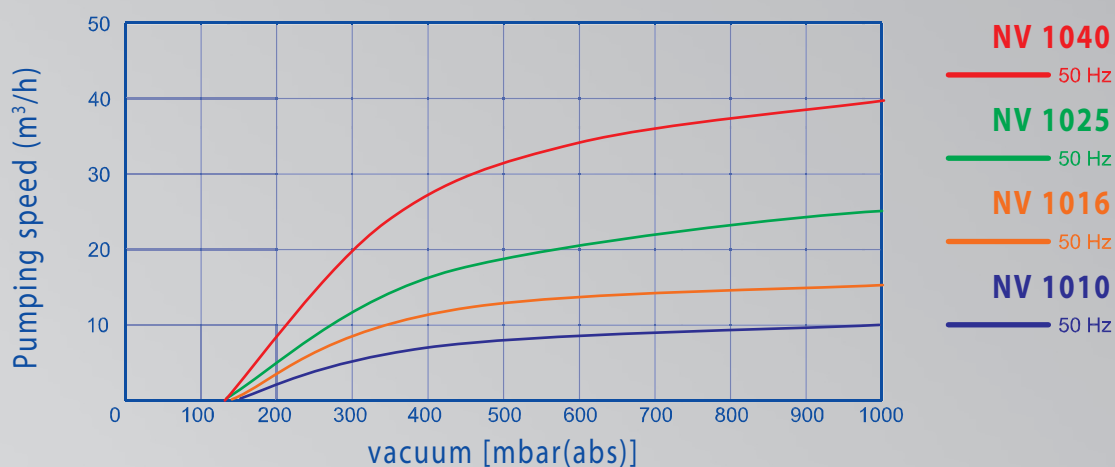
- Surrounding temperature: 0°C ~ +40°C
- Temperature of intake air: -5°C ~ +40°C
- Maximum elevation above sea level: 800 m
- Maximum air humidity: 80%
- The vacuum pump may be placed on a horizontal base unmounted, or it can be mounted with screws.



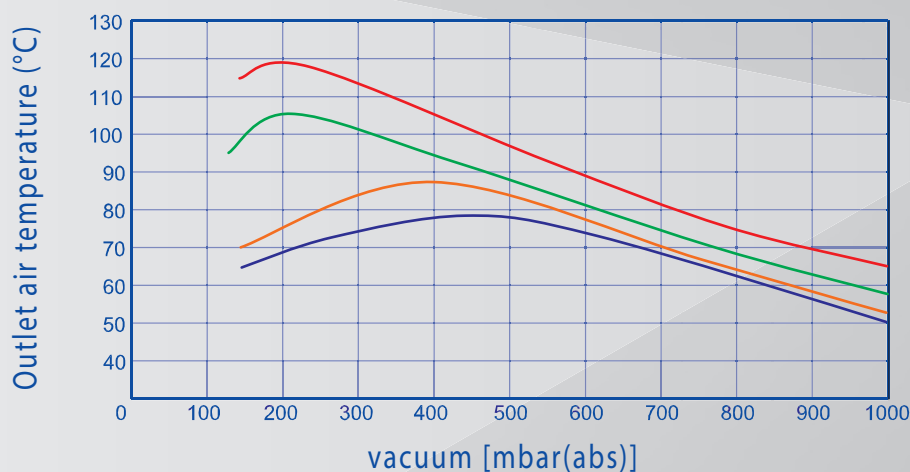
NV 1010 - NV 1040

PUMPING CHARACTERISTICS

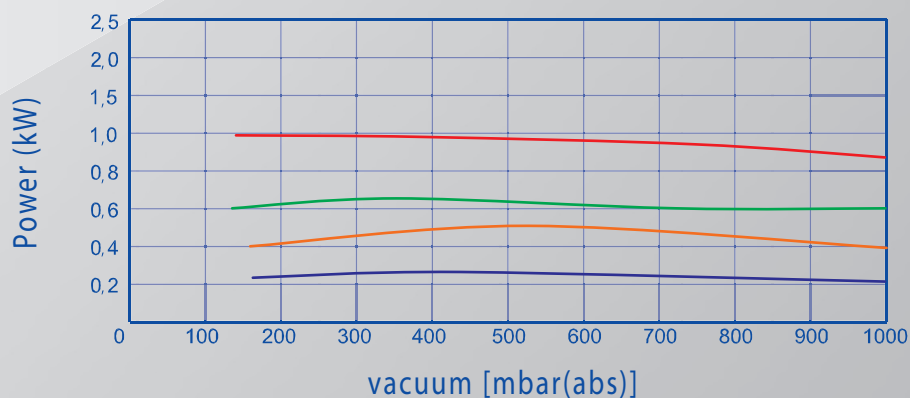
Pumping speed:



Temperature:



Power consumed:



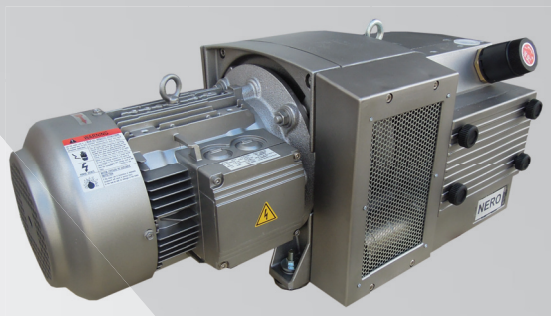
Data is given for an outlet atmospheric pressure of 1 bar (abs), temperature of 20 $^{\circ}\text{C}$, density 1.2 Kg/m^3 , deviation 10%



NV 1060 - NV 1140

TECHNICAL DATA

Pumps up to 140 m³/h:



NERO vacuum pumps are designed for industrial use. Vacuum are designed for continuous operation and are an ideal source of vacuums in applications requiring exhaust air to be absolutely oil-free.

Main advantages:

- air-cooled
- exhaust air is absolutely oil-free
- compact design
- high efficiency
- simple maintenance and long service life

The vacuum pump can continuously pump air in a range of 150 mbar (abs) to 1 bar (abs). The pump may be used to create both vacuums and positive pressure.

Technical data:

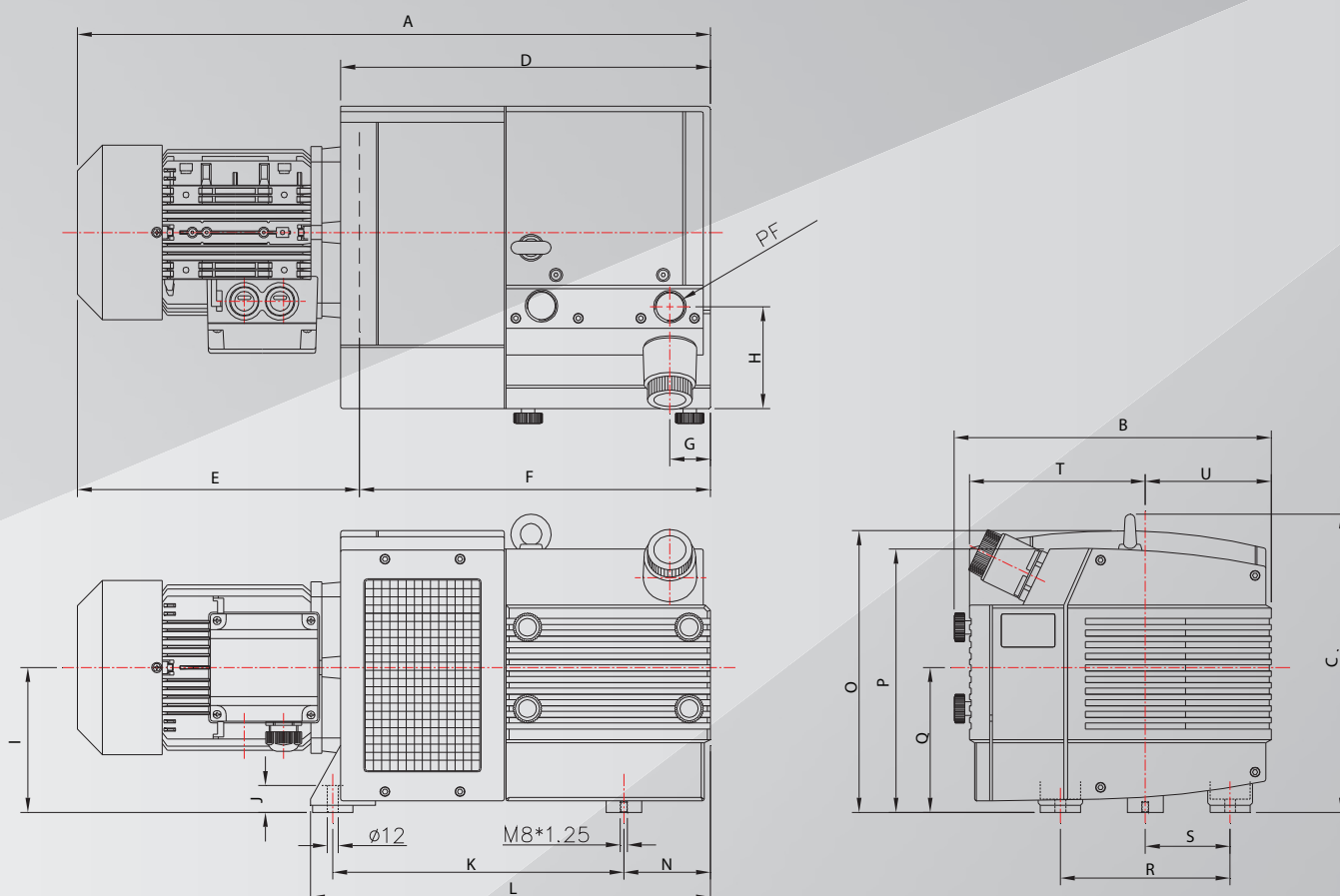
Model		NV 1060	NV 1080	NV 1100	NV 1140
Pumping speed [m³/h]	50 Hz	56	68	98	130
	60 Hz	66	79	112	154
Maximum vacuum [mbar(abs)]		100	100	100	100
Motor power [kW]	50 Hz	2,4	2,4	3	4
	60 Hz	3	3	3,5	4,8
Noise [dB(A)]	50 Hz	70	71	74	76
	60 Hz	72	75	77	79
Weight [kg]		69	70	102	113
Voltage [V]	50 Hz	Δ 200 - 255		Y 364 - 440	
	60 Hz	Δ 220 - 275		Y 380 - 480	
Motor speed [rpm]	50 Hz	1450			
	60 Hz	1740			



NV 1060 - NV 1140

TECHNICAL DATA

Schematic:



Dimensions in mm:

Model	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	U	PF
NV 1060	709	355	333.5	414	316	393	46	114	162	30	326	448	97	315	294	162	190	95	197	141	1"
NV 1080	709	355	333.5	414	316	393	46	114	162	30	326	448	97	315	294	162	190	95	197	141	
NV 1100	858	470	336	535	357	501	57	127	162	30	397	560	139	327	294	162	245	122.5	223	230	3/2"
NV 1140	895	470	336	535	395	501	57	127	162	30	397	560	139	327	294	162	245	122.5	223	230	

Operating environment:

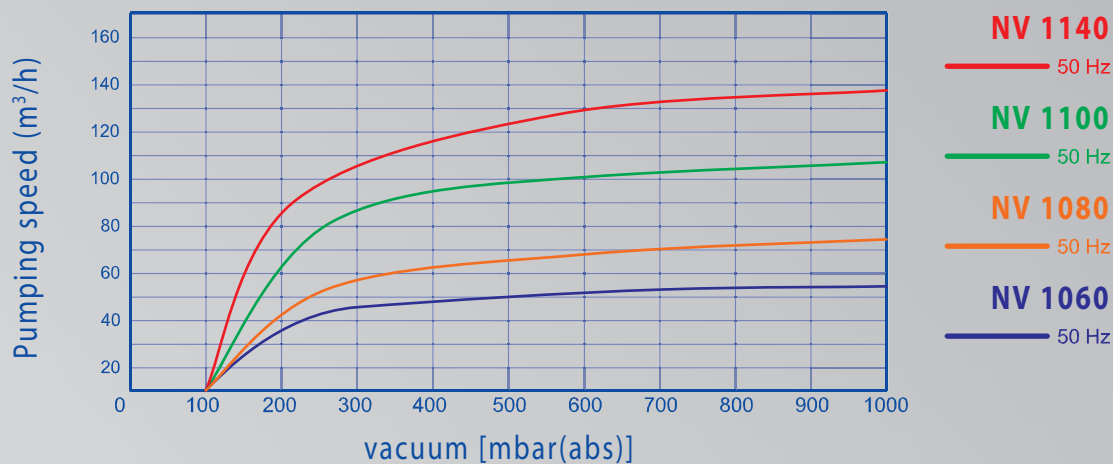
- Surrounding temperature: 0°C ~ +40°C
- Temperature of intake air: -5°C ~ +40°C
- Maximum elevation above sea level: 800 m
- Maximum air humidity: 80%
- The vacuum pump may be placed on a horizontal base unmounted, or it can be mounted with screws.



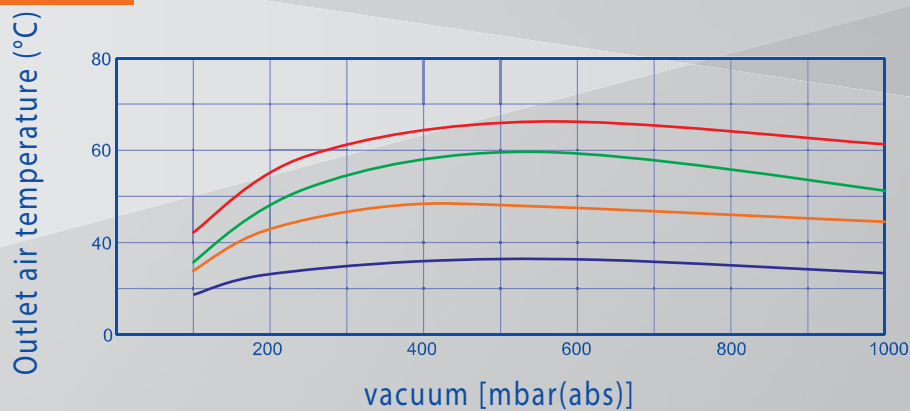
NV 1060 - NV 1140

PUMPING CHARACTERISTICS

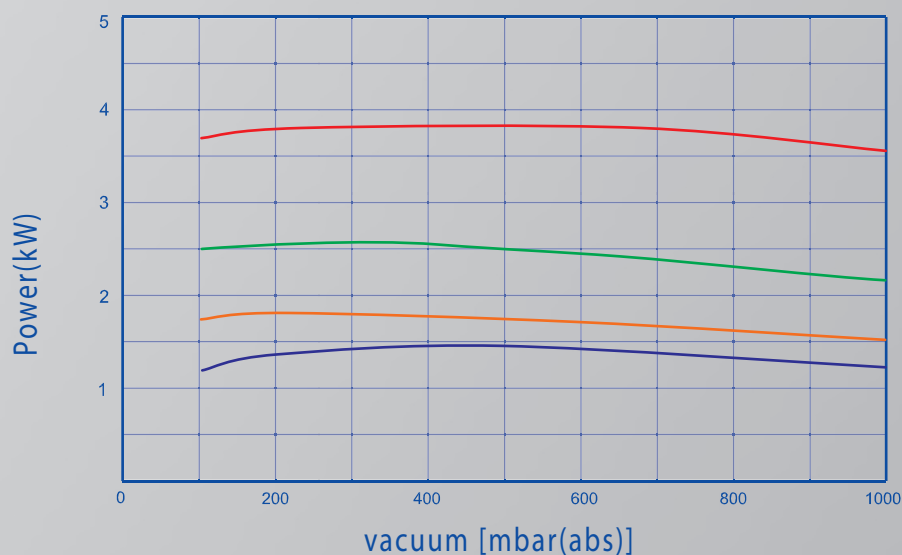
Pumping speed:



Temperature:



Power consumed:



Data is given for an outlet atmospheric pressure of 1 bar (abs), temperature of 20 $^{\circ}\text{C}$, density 1.2 Kg/m^3 , deviation 10%



NERO ACCESSORIES

Suction filters:



A filter can be placed in front of the internal fine filter for use in high dust environments.

Order no.	Type	Connection
CSL 842	NV 1004	G 3/4
	NV 1008	
	NV 1010	
	NV 1016	
CSL 843	NV 1025	G 5/4
	NV 1040	
CSL 849	NV 1060	G 5/4
	NV 1080	
	NV 1100	
CSL 851	NV 1140	G 2 1/2

Vacuum regulation valve:



The valve enables manual setting of suction pressure. Adjustable from 100 mbar (abs) to 1000 mbar (abs).

Order no.	Type	Connection
VRV 3/8	NV 1004	G 3/8
	NV 1008	
VRV 1	NV 1010	G 1
	NV 1016	
	NV 1025	
	NV 1040	
	NV 1060	
	NV 1080	
VRV 3/2	NV 1100	G 1 1/2
	NV 1140	

Non-return valve:



The non-return valve functions as an additional safety feature. The non-return valve serves as protection against reverse seepage of air into the evacuated pipe.

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