



# Eurovacuum EVC Series

Dry Running Claw Vacuum Pump



## **Eurovacuum EVC Series** Dry Running Claw Vacuum Pumps

**Eurovacuum** Company is offering its various products to meet industrial vacuum needs.

Eurovacuum Company is founded in 2006, with over 30 year experiences in the vacuum Industry its founders have been putting their best efforts continuously to produce high quality Dry Running Claw Vacuum Pumps, with diverse range of capacity for use in: Packaging, CNC Routing, Wood Works, Pneumatic Conveying, Holding & Lifting, Pick and Place, Medical & Lab., Plastics Industries, Central Vacuum Systems.

The EVC-Series pumps are dry contact-less vacuum pumps with modular constructions consisting of compartments: pumping and gear chambers are separated by using labyrinth seals., As two claws rotate in opposite direction, the air will be sucked in the pumping chamber, compressed and discharged under pressure. In gear chamber, two gears for synchronizing of claws rotation will be placed with appropriate oil lubrication. A built in anti-suck back valve installed in inlet flange will prevent the air from flowing back into the vacuum chamber when the pump is shutdown. The pumps are directly driven by a flanged motor via a coupling. The claws and compression chamber have a TFE (Teflon) coating to protect the pump against corrosion from water in the pumped gasses.

### **Advantages to the User**

- High pumping speed
- The pumping chamber is oil free
- Corrosion protection by Teflon coating
- Air-cooling, no water required
- Low space requirement, easy to install
- Very little maintenance is needed
- Maintenance-friendly
- Compact design
- Anti-Suckback valve to secure the vacuum in the system
- The two claws are running contact free
- Direct drive, Design requires no belts
- Wide range of accessories available for easy adaptation

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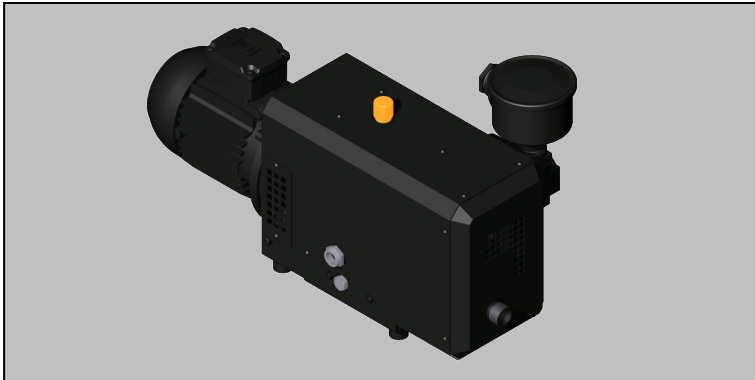
## Eurovacuum EVC Series

### Dry running Claw Vacuum Pump

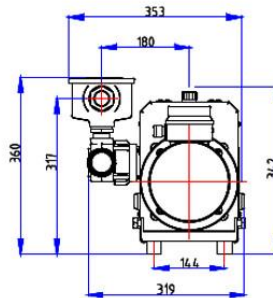
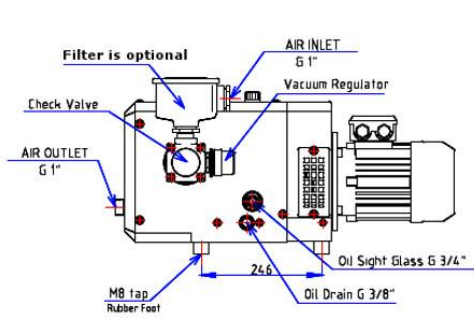
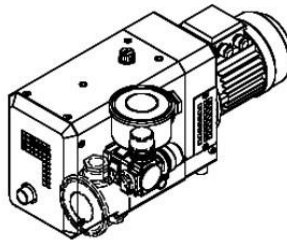
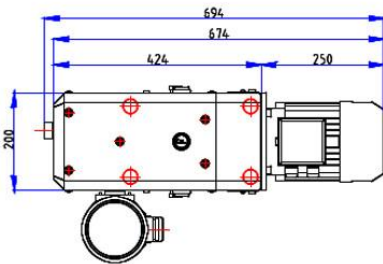
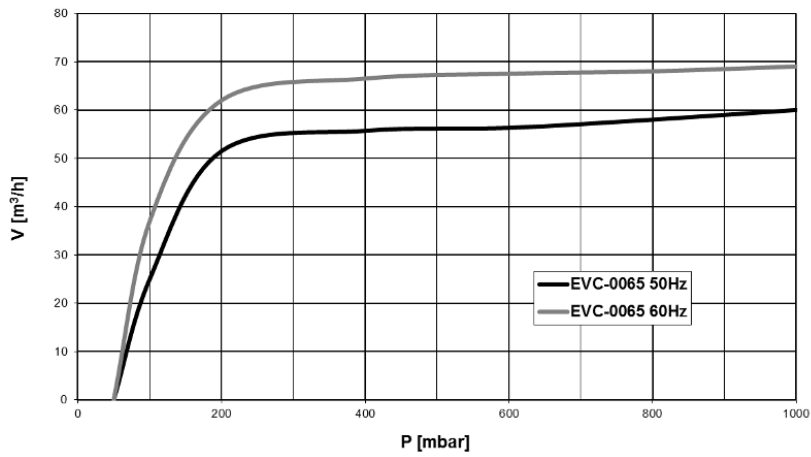
• EVC-0065	4
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**Pumping speed curve**





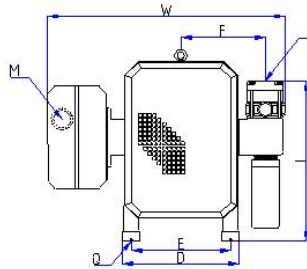
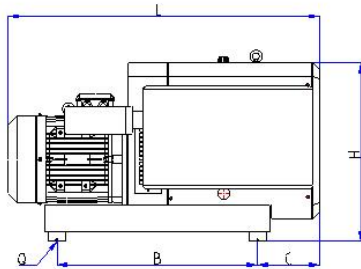
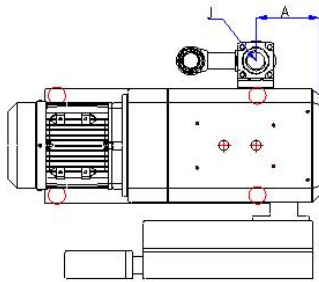
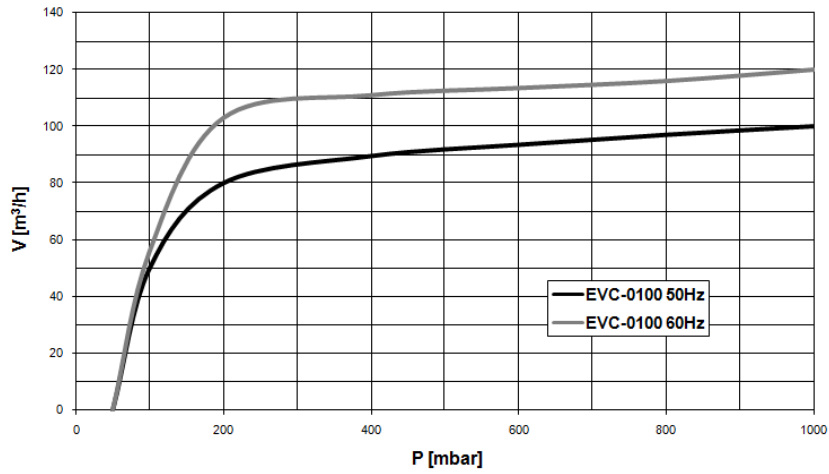
## TYPE EVC-0065

Technical Data		EVC-0065		EVC-0065
		50 Hz	60 Hz	50 Hz
Nominal displacement	m <sup>3</sup> /h	60	60	60
Ultimate pressure max.	mbar	90	90	10
Pressure continuous running	mbar	90 to 1000	90 to 1000	10 to 1000
Motor power	kW	1,1	1,5	2,2
Nominal speed	rpm	2850	3450	2850
Noise level	dB(A)	74	76	76
Oil filling gear housing	ltr	0,4	0,4	0,8
Weight	kg	86	90	180
Admissible ambient temp.	°C	5 to 40	5 to 40	5 to 40
Connection	Inlet	G(BSP)	1"	1"
	Outlet	G(BSP)	1"	1"

Ordering Information	EVC-0065		EVC-0065
	50 Hz	60 Hz	50 Hz
<b>Three phase motor</b> 400V, 50Hz (IE2) 400V, 60Hz (IE2)	601051	601052	601251
Other Voltages/Frequencies	Upon request		
Vacuum regulate valve	0612000		0612000
Gasket set	06049000		2x 06049000
Maintenance kit	06050000		2x 06050000
Inlet dust filter, paper cartridge	04800		04800
Gearbox oil type EV-Gear Oil-150	100500		100500



**Pumping speed curve**



Dimensions	L	W	H	B	C	E	D	F	A	I	J	M	Q
EVC-0100	698	525	368	440	98	224	254	201	128	334	1-1/2"	1-1/2"	4xM8

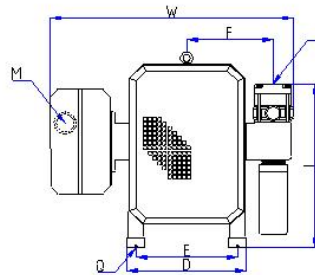
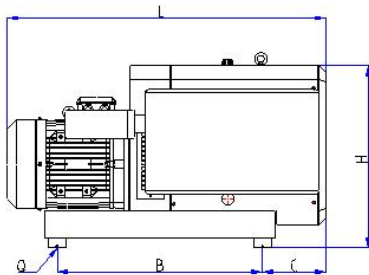
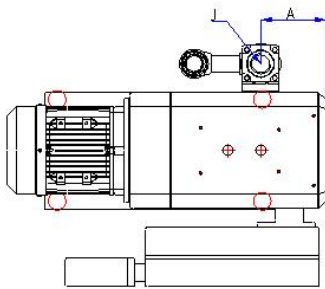
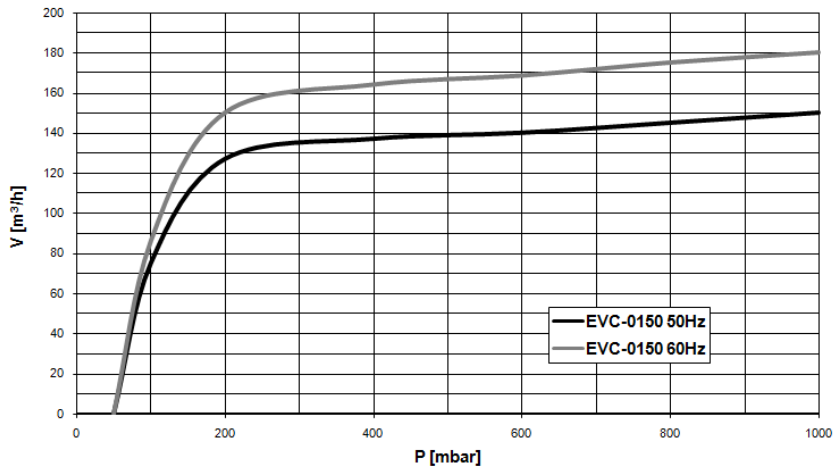
## TYPE EVC-0100

Technical Data		EVC-0100		EVCD-0100
		50 Hz	60 Hz	50 Hz
Nominal displacement	m <sup>3</sup> /h	100	120	100
Ultimate pressure max.	mbar	50	50	5
Pressure continuous running	mbar	160 to 1000	160 to 1000	10 to 1000
Motor power	kW	2,2	2,6	3,3
Nominal speed	rpm	2850	3450	2850
Noise level	dB(A)	78	82	79
Oil filling gear housing	ltr	0,5	0,5	1,0
Weight	kg	108	113	290
Admissible ambient temp.	°C	5 to 40	5 to 40	5 to 40
Connection	Inlet	NPT	1½"	1½"
	Outlet	NPT	1½"	1½"

Ordering Information	EVC-0100		EVCD-100
	50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)	602.001	602.002	602.201
Other Voltages/Frequencies	Upon request		
Vacuum regulate valve	602.010		602.010
Exhaust damper	602.011		602.011
Gasket set	602.012		602.212
Maintenance kit	602.013		602.213
Inlet dust filter, paper cartridge	602.025		602.025
Gearbox oil type EV-Gear Oil-150	100.500		100.501



**Pumping speed curve**



Dimensions	L	W	H	B	C	E	D	F	A	I	J	M	Q
EVC-0150	751	525	368	440	122	224	254	201	144	334	1-1/2"	1-1/2"	4xM8



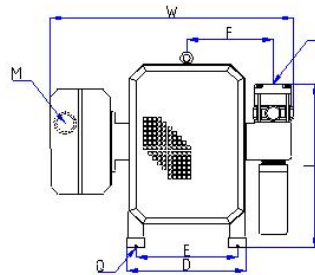
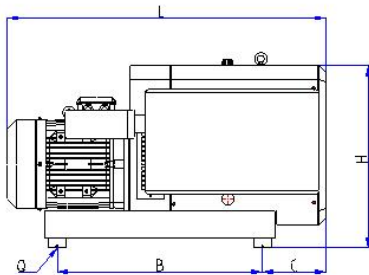
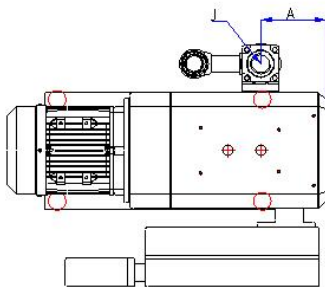
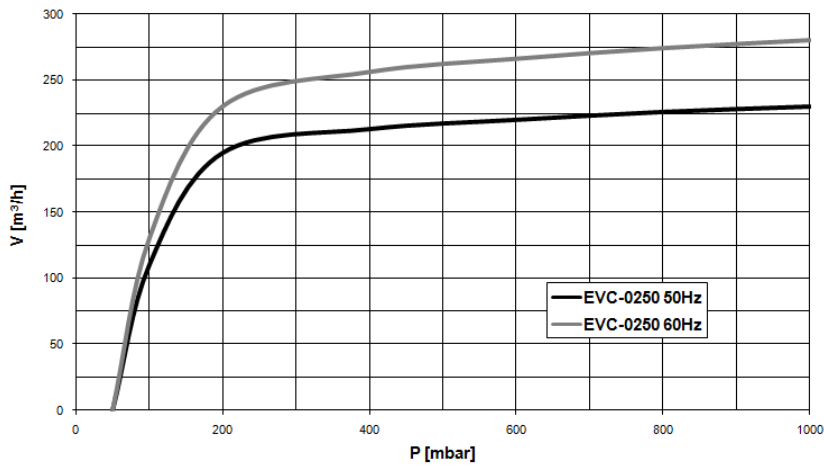
## TYPE EVC-0150

Technical Data		EVC-0150		EVC-0150
		50 Hz	60 Hz	50 Hz
Nominal displacement	m <sup>3</sup> /h	150	180	150
Ultimate pressure max.	mbar	50	50	5
Pressure continuous running	mbar	160 to 1000	160 to 1000	10 to 1000
Motor power	kW	3,0	3,6	5,2
Nominal speed	rpm	2850	3450	2850
Noise level	dB(A)	79	82	80
Oil filling gear housing	ltr	0,5	0,5	1,0
Weight	kg	121	125	280
Admissible ambient temp.	°C	5 to 40	5 to 40	5 to 40
Connection	Inlet	NPT	1½"	1½"
	Outlet	NPT	1½"	1½"

Ordering Information	EVC-0150		EVC-0150
	50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)	603.001	603.002	603.201
Other Voltages/Frequencies	Upon request		
Vacuum regulate valve	603.010		603.010
Exhaust damper	603.011		602.011
Gasket set	603.012		603.212
Maintenance kit	603.013		603.213
Inlet dust filter, paper cartridge	602.025		602.025
Gearbox oil type EV-Gear Oil-150	100.500		100.501



**Pumping speed curve**



Dimensions	L	W	H	B	C	E	D	F	A	I	J	M	Q
EVC-0250	884	698	524	590	167	292	342	249	180	471	2"	2"	4xM10

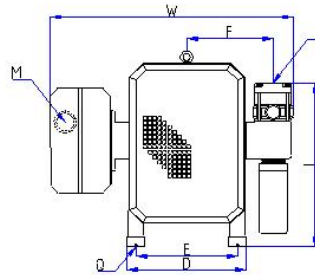
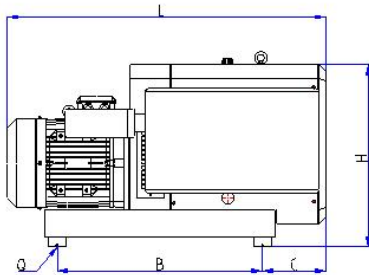
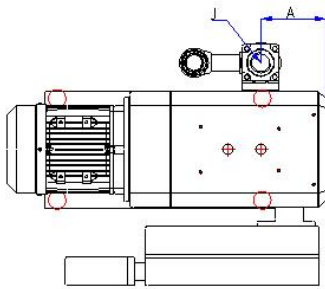
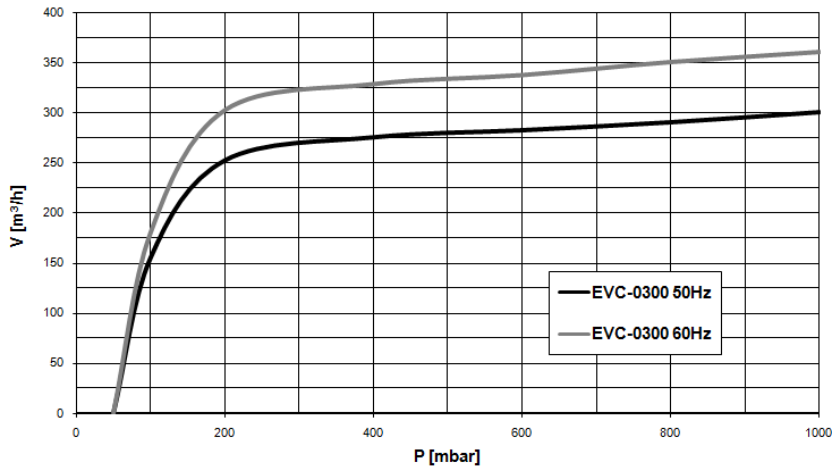
## TYPE EVC-0250

Technical Data		EVC-0250		EVCD-0250
		50 Hz	60 Hz	50 Hz
Nominal displacement	m <sup>3</sup> /h	234	282	234
Ultimate pressure max.	mbar	50	50	5
Pressure continuous running	mbar	180 to 1000	180 to 1000	10 to 1000
Motor power	kW	4,0	4,8	5,1
Nominal speed	rpm	2850	3450	2850
Noise level	dB(A)	78	82	79
Oil filling gear housing	ltr	0,75	0,75	1,25
Weight	kg	218	224	350
Admissible ambient temp.	°C	5 to 40	5 to 40	5 to 40
Connection	Inlet	NPT	2"	2"
	Outlet	NPT	2"	1½"

Ordering Information	EVC-0250		EVCD-0250
	50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)	604.001	604.002	604.201
Other Voltages/Frequencies	Upon request		
Vacuum regulate valve	604.010		604.010
Exhaust damper	604.011		602.011
Gasket set	604.012		604.212
Maintenance kit	604.013		604.213
Inlet dust filter, paper cartridge	50.800		50.800
Gearbox oil type EV-Gear Oil-150	100.500		100.501



**Pumping speed curve**



Dimensions	L	W	H	B	C	E	D	F	A	I	J	M	Q
EVC-0300	916	698	524	590	182	292	342	249	187	471	2"	2"	4Xm10

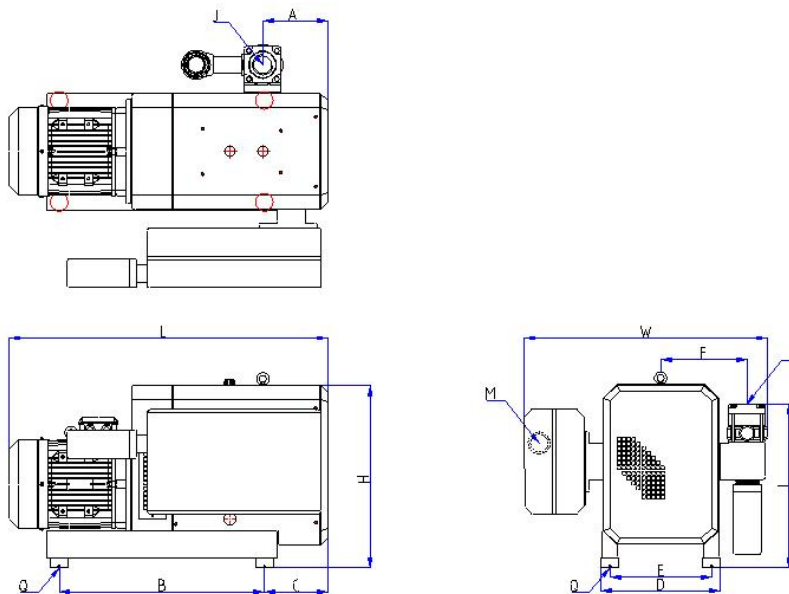
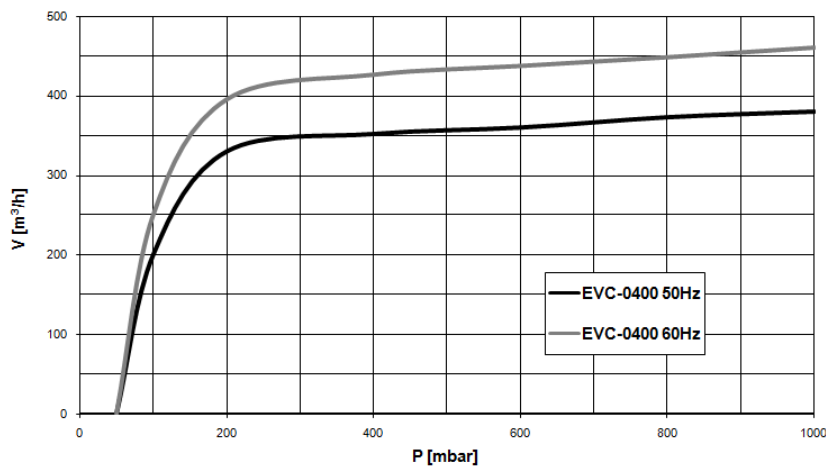
## TYPE EVC-0300

Technical Data		EVC-0300		EVCD-0300
		50 Hz	60 Hz	50 Hz
Nominal displacement	m <sup>3</sup> /h	300	360	300
Ultimate pressure max.	mbar	50	50	5
Pressure continuous running	mbar	180 to 1000	180 to 1000	10 to 1000
Motor power	kW	5,5	6,6	6,75
Nominal speed	rpm	2850	3450	2850
Noise level	dB(A)	79	83	81
Oil filling gear housing	ltr	0,75	0,75	1,5
Weight	kg	235	248	450
Admissible ambient temp.	°C	5 to 40	5 to 40	5 to 40
Connection	Inlet	NPT	2"	2"
	Outlet	NPT	2"	1½"

Ordering Information	EVC-0300		EVCD-0300
	50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)	605.001	605.002	605.201
Other Voltages/Frequencies	Upon request		
Vacuum regulate valve	605.010		605.010
Exhaust damper	605.011		603.011
Gasket set	605.012		605.212
Maintenance kit	605.013		605.213
Inlet dust filter, paper cartridge	50.800		50.800
Gearbox oil type EV-Gear Oil-150	100.500		100.501



**Pumping speed curve**

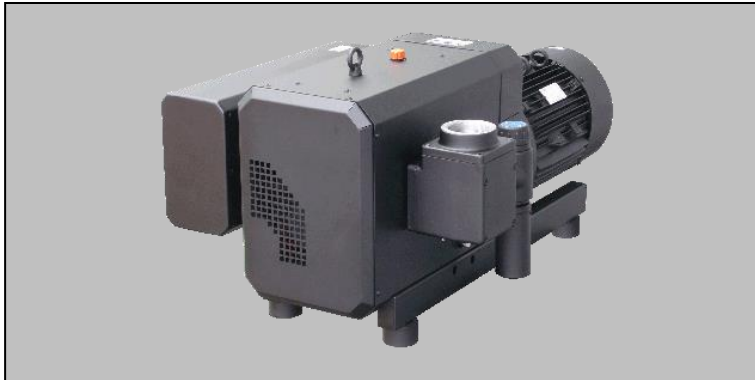


Dimensions	L	W	H	B	C	E	D	F	A	I	J	M	Q
EVC-0400	1001	899	544	800	133	292	372	284	205	468	3"	3"	4xM12

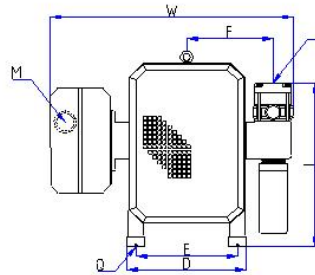
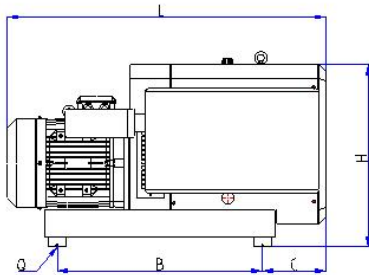
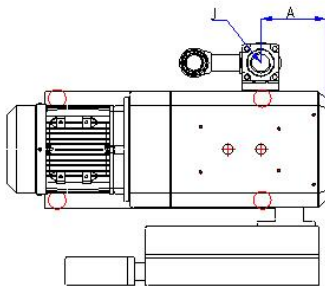
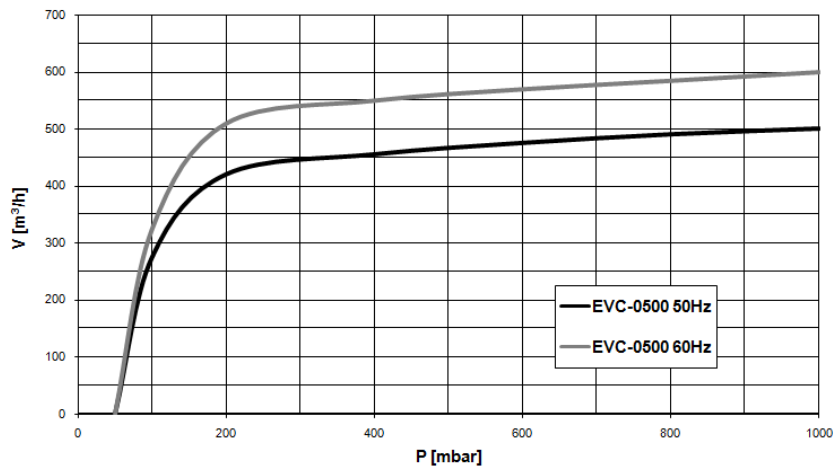
## TYPE EVC-0400

Technical Data		EVC-0400		EVCD-0400
		50 Hz	60 Hz	50 Hz
Nominal displacement	m <sup>3</sup> /h	400	480	400
Ultimate pressure max.	mbar	50	50	5
Pressure continuous running	mbar	200 to 1000	200 to 1000	10 to 1000
Motor power	kW	7,5	9,0	11,5
Nominal speed	rpm	2850	3450	2850
Noise level	dB(A)	82	85	84
Oil filling gear housing	ltr	0,75	0,75	1,5
Weight	kg	280	312	550
Admissible ambient temp.	°C	5 to 40	5 to 40	5 to 40
Connection	Inlet	NPT	3"	3"
	Outlet	NPT	3"	3"

Ordering Information	EVC-0400		EVCD-0400
	50 Hz	60 Hz	50 Hz
<b>Three phase motor</b> 400V, 50Hz (IEC) 400V, 60Hz (IEC)	606.001	606.002	606.201
Other Voltages/Frequencies	Upon request		
Vacuum regulate valve	606.010		606.010
Exhaust damper	606.011		604.011
Gasket set	606.012		606.212
Maintenance kit	606.013		606.213
Inlet dust filter, paper cartridge	120.800		120.800
Gearbox oil type EV-Gear Oil-150	100.500		100.501



**Pumping speed curve**



Dimensions	L	W	H	B	C	E	D	F	A	I	J	M	Q
EVC-0500	1058	899	544	800	152	292	372	284	215	468	3"	3"	4xM12



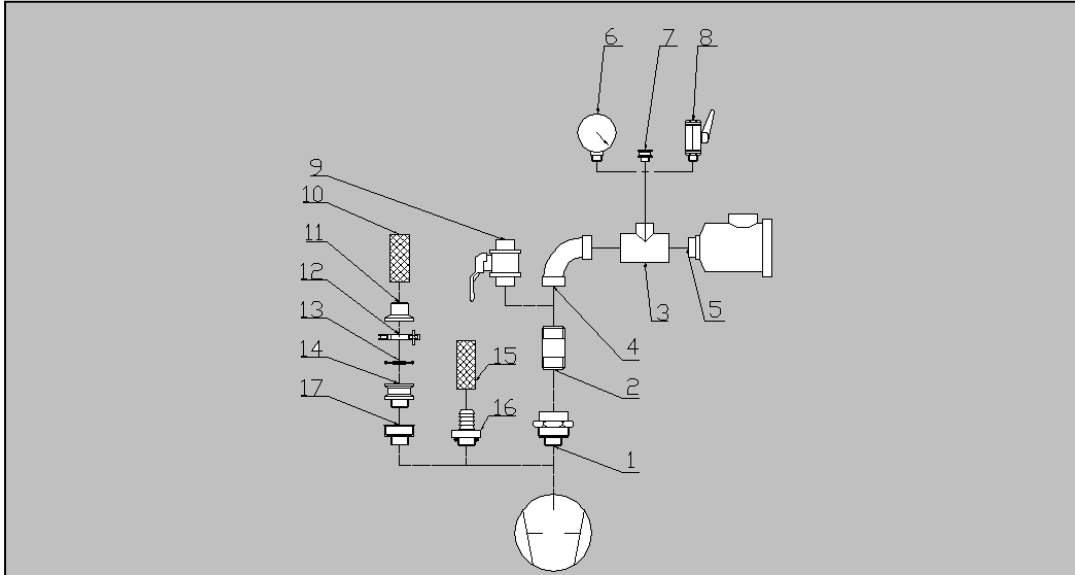
## TYPE EVC-0500

Technical Data		EVC-0500		EVCD-0500
		50 Hz	60 Hz	50 Hz
Nominal displacement	m <sup>3</sup> /h	500	600	500
Ultimate pressure max.	mbar	50	50	5
Pressure continuous running	mbar	200 to 1000	200 to 1000	10 to 1000
Motor power	kW	9,0	11,0	13,0
Nominal speed	rpm	2850	3450	2850
Noise level	dB(A)	82	85	84
Oil filling gear housing	ltr	0,75	0,75	1,5
Weight	kg	285	317	600
Admissible ambient temp.	°C	5 to 40	5 to 40	5 to 40
Connection	Inlet	NPT	3"	3"
	Outlet	NPT	3"	3"

Ordering Information	EVC-0500		EVCD-0500
	50 Hz	60 Hz	50 Hz
<b>Three phase motor</b> 400V, 50Hz (IEC) 400V, 60Hz (IEC)	607.001	607.002	607.201
Other Voltages/Frequencies	Upon request		
Vacuum regulate valve	607.010		607.010
Exhaust damper	607.011		604.011
Gasket set	607.012		607.212
Maintenance kit	607.013		607.213
Inlet dust filter, paper cartridge	120.800		120.800
Gearbox oil type EV-Gear Oil-150	100.500		100.501

## EVC Series accessories

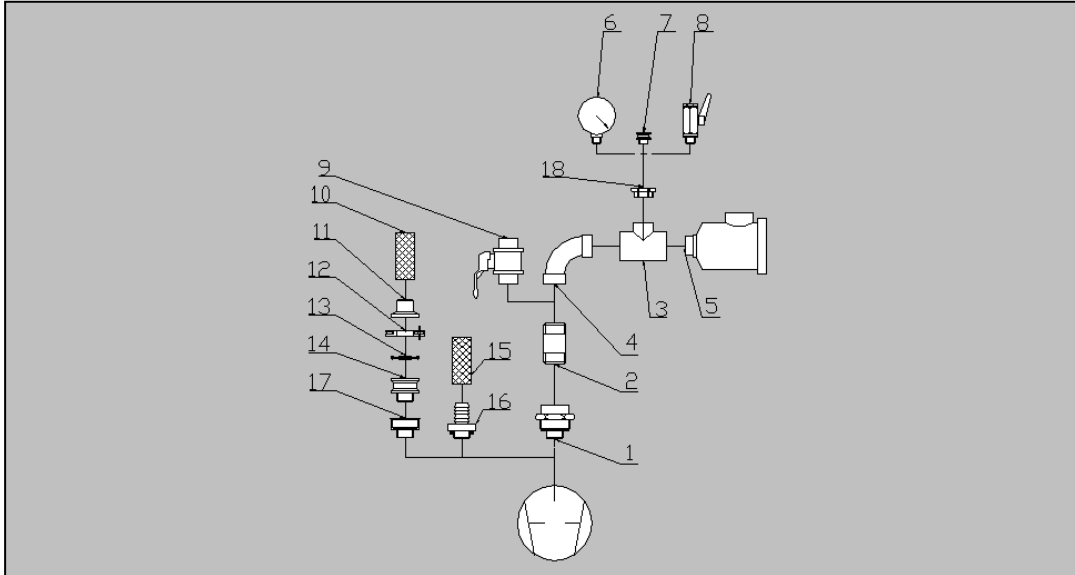
Connection fittings for EVC-0060, EVC-0100 & EVC-0150



Item	Description	Connection	Ordering No.
1	Rotatable flange	1½"M-1½"F	602.020
2	Adapter piece	1½"M-1½"M	602.021
3	T-piece	1½"F-½"F-1½"F	602.022
4	Elbow	1½"F-1½"F	602.023
4a	Elbow	1½"F-1½"M	602.024
5	Inlet dust filter, paper cartridge	1½"M-1½"F	602.025
6	Manometer 0 to -1 bar	½"M	119.006
7	KF Adapter	½"M-DN16KF	211.367
8	Ball valve	½"M-½"F	119.007
9	Ball valve	1½"F-1½"F	602.026
10	Flexible hose	40 mm	119.209
11	Hose connection	DN40KF-40mm	211.404
12	Clamping ring	DN40KF	211.004
13	Centering ring	DN40KF	211.063
14	KF Adapter	1"M-DN40KF	211.369
15	Flexible hose	38mm	602.028
16	Hose connection	1½"M-38mm	602.029
17	Adapter piece	1½"M-1"F	602.030

## EVC Series accessories

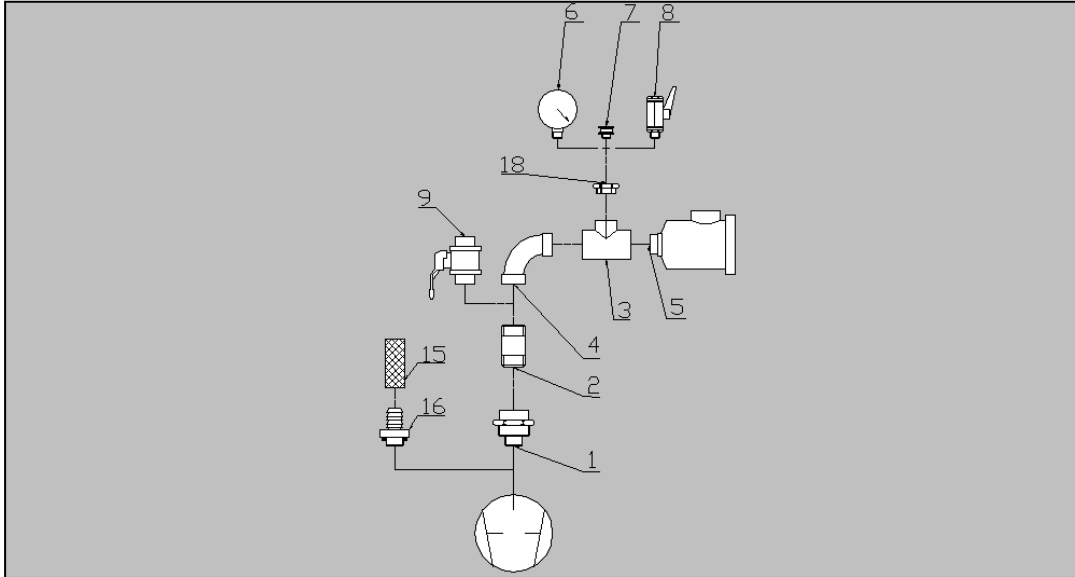
Connection fittings for EVC-0250, EVC-0300



Item	Description	Connection	Ordering No.
1	Rotatable flange	2"M-2"F	119.201
2	Adapter piece	2"M-2"M	119.202
3	T-piece	2"F-2"F-2"F	119.203
4	Elbow	2"F-2"F	119.204
4a	Elbow	2"F-2"M	119.205
5	Inlet dust filter, paper cartridge	2"M-2"F	50.800
6	Manometer 0 to -1 bar	½"M	119.006
7	KF Adapter	½"M-DN16KF	211.367
8	Ball valve	½"M-½"F	119.007
9	Ball valve	2"F-2"F	119.208
10	Flexible hose	40mm	119.209
11	Hose connection	DN40KF-40mm	211.404
12	Clamping ring	DN40KF	211.004
13	Centering ring	DN40KF	211.063
14	KF Adapter	1½"M-DN40KF	211.369
15	Flexible hose	50mm	119.210
16	Hose connection	2"M-50mm	119.211
17	Adapter piece	2"M-1½"F	119.212
18	Adapter piece	2"M-½"F	119.213

## EVC Series accessories

Connection fittings for EVC-0400, EVC-0500



Item	Description	Connection	Ordering No.
1	Rotatable flange	3"M-3"F	119.301
2	Adapter piece	3"M-3"M	119.302
3	T-piece	3"F-2"F-3"F	119.303
4	Elbow	3"F-3"F	119.304
4a	Elbow	3"F-3"M	119.305
5	Inlet dust filter, paper cartridge	3"M-3"F	120.800
6	Manometer 0 to -1 bar	½"M	119.006
7	KF Adapter	½"M-DN16KF	211.367
8	Ball valve	½"M-½"F	119.007
9	Ball valve	3"F-3"F	119.308
15	Flexible hose	76mm	119.310
16	Hose connection	2"M-76mm	119.311
18	Adapter piece	2"M-½"F	119.313

## EVC Series dust filters

Dust filters for the inlet side of the EVC-Series vacuum pumps



These dust filters can be mounted on the intake side of the EVC-Series vacuum pumps to protect the pump against: dust, powders, chips, etc.

The filters consists of a steel housing with a lid and quick locking clamps.

Quick changing of cartridges is possible and the filters have a high separation ratio.

The housings are suitable to be fitted with four different kind of filters:

### Paper cartridge

Separates particles down to 5 µm. Specially suitable for dry processes. We use this filter as standard.

### Polyester cartridge

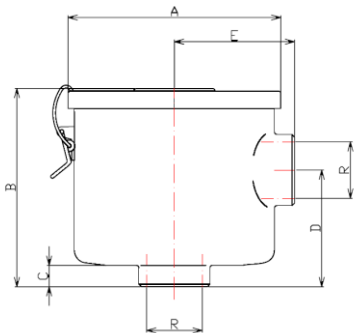
Separates particles down to 10 µm. Specially suitable for moist processes.

### Metal cartridge

Separates particles down to 30 µm, like pieces of: plastic, paper, food Materials, etc.

### Activated charcoal cartridge

Absorbs vapours of high molecular weight, like: acid and solvent vapours, alkaline solutions, etc.

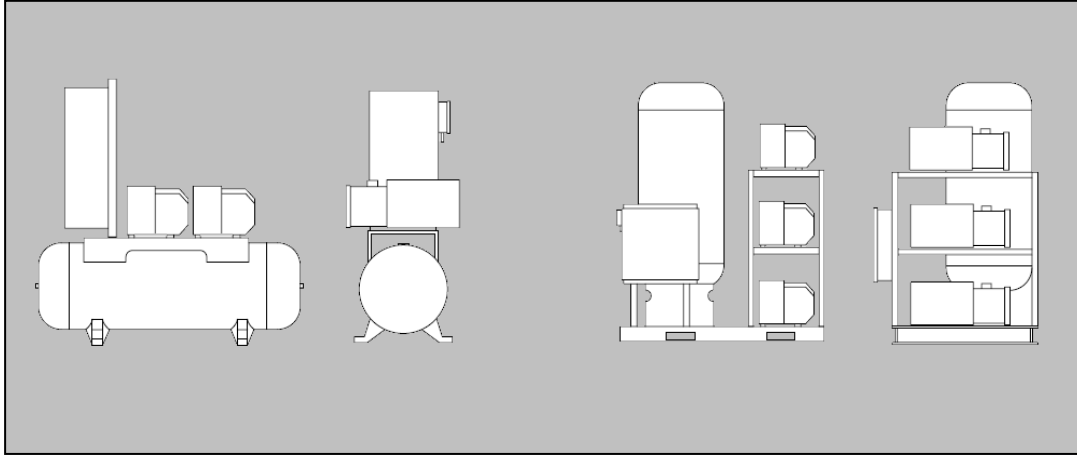


Type	Dimensions in mm						Weight kg
	øR	øA	B	C	D	E	
602.025	G 1½"	170	170	18	124	100	2,10
50.800	G 2"	200	240	18	124	114	3,80
120.800	G 3"	270	180	50	145	165	12,50

Dust Filter	Housing with paper cartridge	Paper cartridge	Polyester cartridge	Metal cartridge	Activated charcoal cartridge
G 1½" for EVC-0060 to 0150	602.025	602.0251	602.0252	602.0253	602.0254
G 2" for EVC-0250 to 0300	50.800	50.8001	50.8101	50.8201	50.8301
G 3" for EVC-0400 to 0500	120.800	120.8001	120.8101	120.8201	120.8301

## EVC Central Vacuum Systems

EVC Central Vacuum Systems for use in factories and hospitals



Double system, 2 pumps

Double systems are commonly used in the Industry and offer the advantage of supplying a continuous vacuum more economical than a number of small vacuum units. It also compensates large vacuum variations in the number of vacuum consumers.

Triple system, 3 pumps

Triple systems are commonly used in hospitals and offer the same advantages as the double system. The third pump also offers an extra safety factor for when one of the pumps is switched off by an error or for service purpose. This way there is always a vacuum present, systems are according to DIN EN 737-3

We also have Single systems, 1 pump, available for small systems that need a buffer tank.

At request we will design a special system that meet your requirements.

The following extra options are available from us:

- Dust filters
- Bacterial filters and residue condensate traps
- Pneumatic or electromagnetic blocking valves
- Mobile systems build on wheels
- Stainless steel buffer tank
- Stainless steel piping
- Connections to buildings central control room

The systems are supplied as full assembled and tested, so they are Plug & Play.

On your request we can also offer onsite installation and take care of removing your old system when needed.