



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.

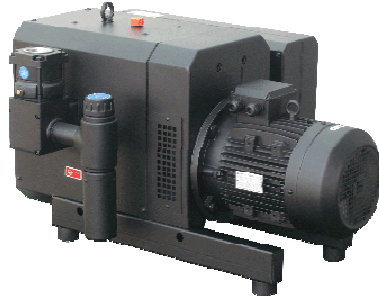
Eurovacuum Company is founded in 2006, with over 30 year experiences in the vacuum Industry its founders have been putting their best efforts continuously to produce high quality Dry Running Claw Vacuum Pumps, with diverse range of capacity for use in: Packaging, CNC Routing, Wood Works, Pneumatic Conveying, 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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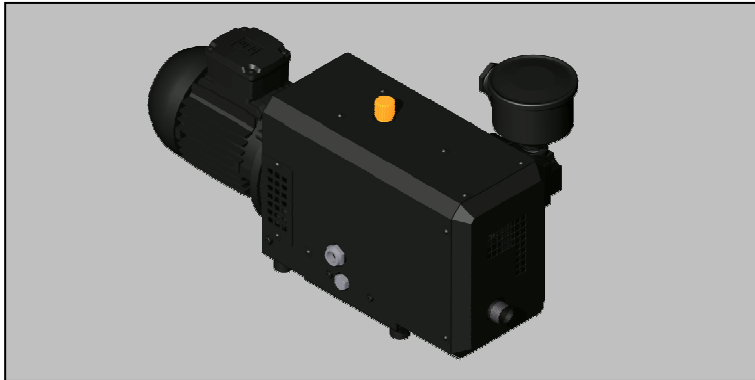
Eurovacuum EVC Series

Dry running Claw Vacuum Pump

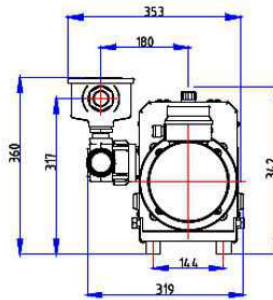
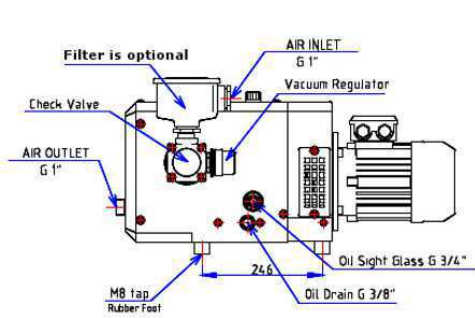
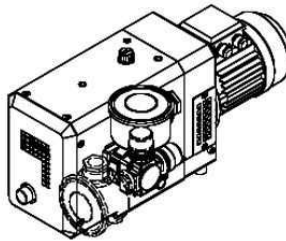
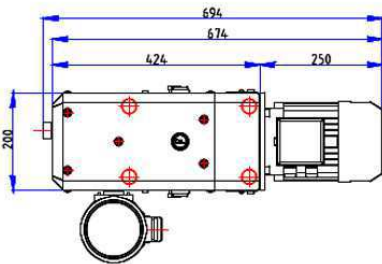
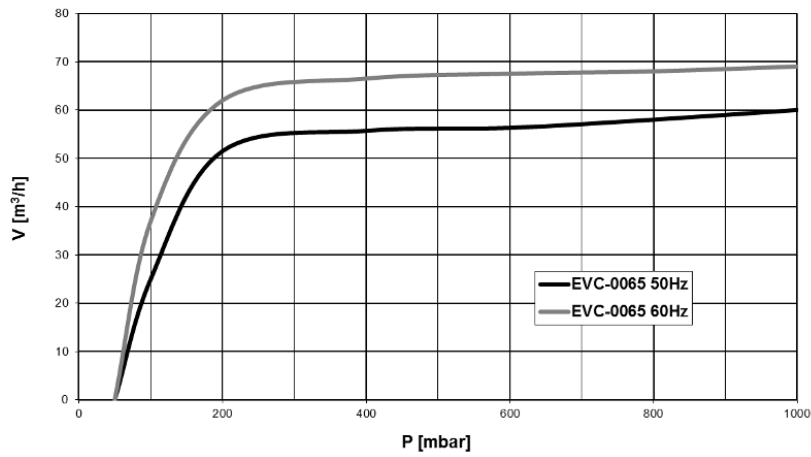
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Pumping speed curve



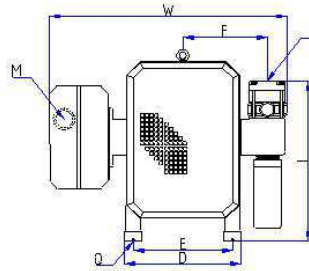
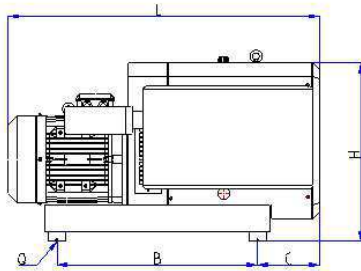
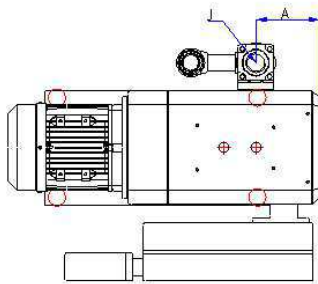
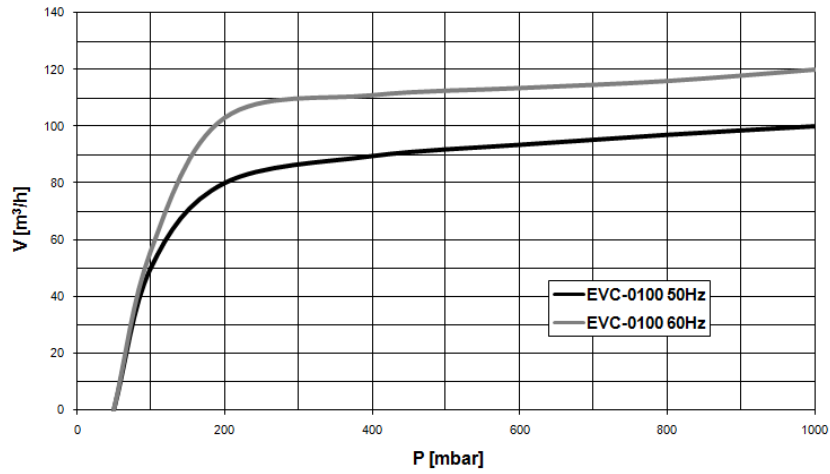
TYPE EVC-0065

Technical Data		EVC-0065		TwinClaw-0065
		50 Hz	60 Hz	50 Hz
Nominal displacement	m ³ /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		TwinClaw-0065
		50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IE2) 400V, 60Hz (IE2)		601051	601052	601351
Other Voltages/Frequencies		Upon request		
Vacuum regulate valve		06012000		06012000
Gasket set		06049000		on request
Overhaul kit		06050000		on request
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

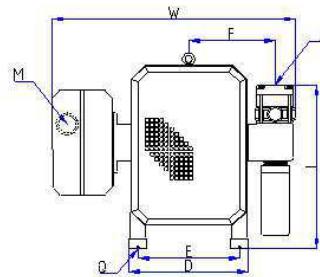
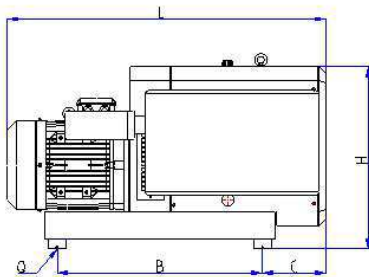
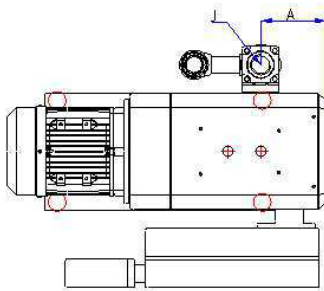
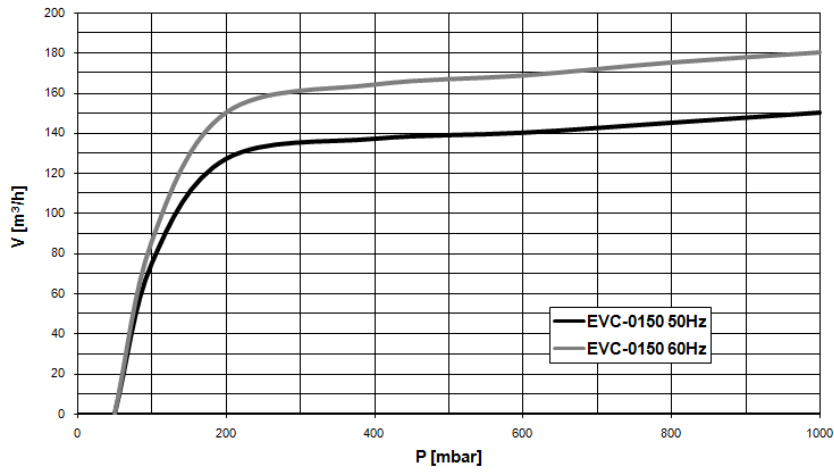
TYPE EVC-0100

Technical Data		EVC-0100		TwinClaw-0100
		50 Hz	60 Hz	50 Hz
Nominal displacement	m ³ /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		TwinClaw-100
		50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)		602001	602002	602301
Other Voltages/Frequencies		Upon request		
Vacuum regulate valve		10012000		10012000
Gasket set		10049000		on request
Overhaul kit		10050000		on request
Inlet dust filter, paper cartridge		602025		602025
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-0150	751	525	368	440	122	224	254	201	144	334	1-1/2"	1-1/2"	4xM8

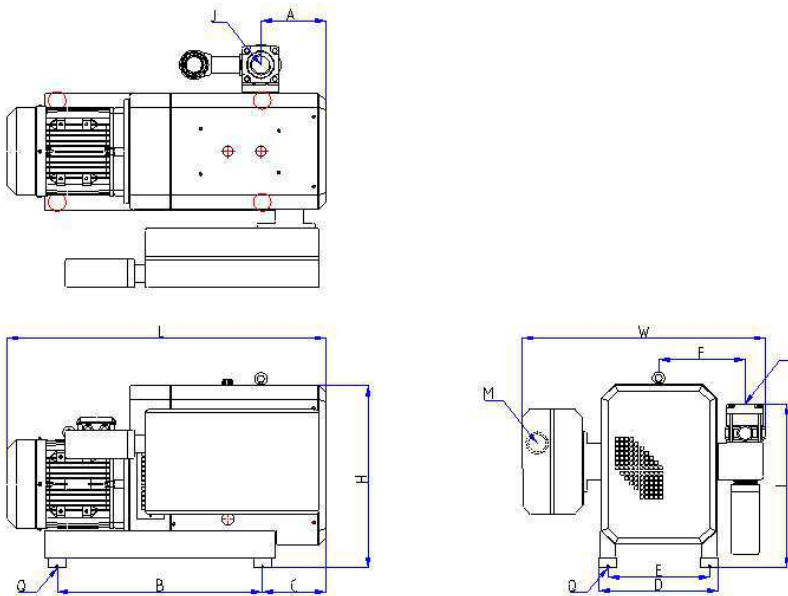
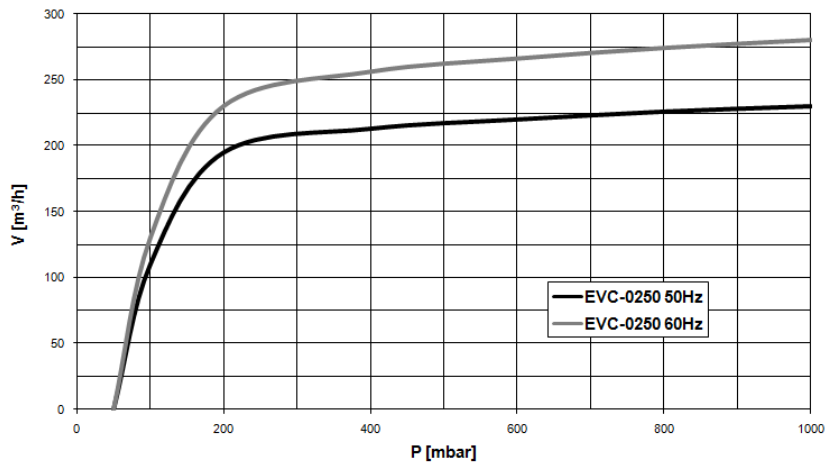
TYPE EVC-0150

Technical Data		EVC-0150		TwinClaw-0150
		50 Hz	60 Hz	50 Hz
Nominal displacement	m ³ /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		TwinClaw-0150
		50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)		603001	603002	603301
Other Voltages/Frequencies		Upon request		
Vacuum regulate valve		10012000		10012000
Gasket set		10049000		on request
Overhaul kit		10050000		on request
Inlet dust filter, paper cartridge		602025		602025
Gearbox oil type EV-Gear Oil-150		100500		100501



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

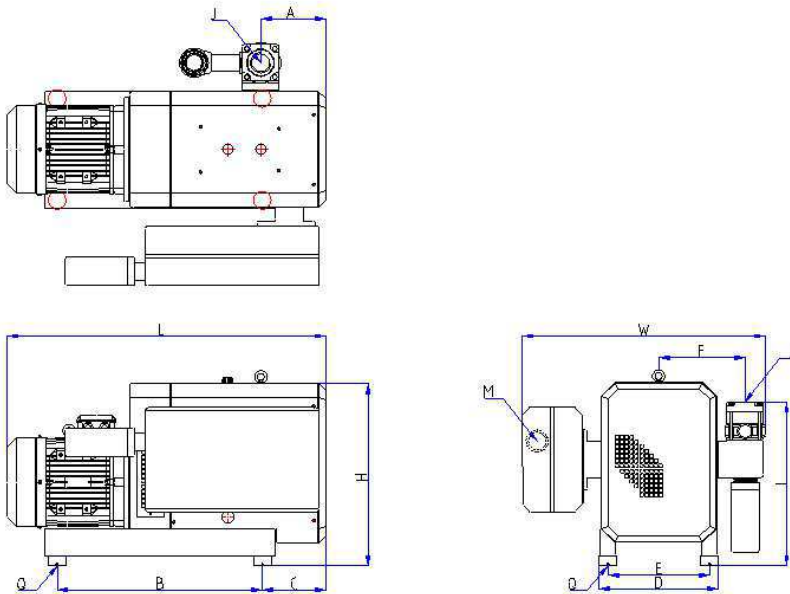
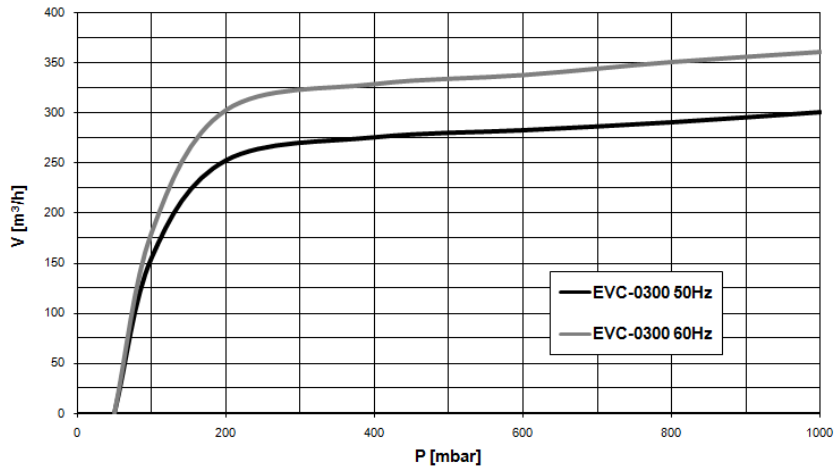
TYPE EVC-0250

Technical Data		EVC-0250		TwinClaw-0250
		50 Hz	60 Hz	50 Hz
Nominal displacement	m ³ /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"	2"
	Outlet	NPT 2"	2"	1½"

Ordering Information		EVC-0250		TwinClaw-0250
		50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)		604001	604002	604301
Other Voltages/Frequencies		Upon request		
Vacuum regulate valve		25012000		25012000
Gasket set		25049000		on request
Overhaul kit		25050000		on request
Inlet dust filter, paper cartridge		50800		50800
Gearbox oil type EV-Gear Oil-150		100500		2x100500



Pumping speed curve

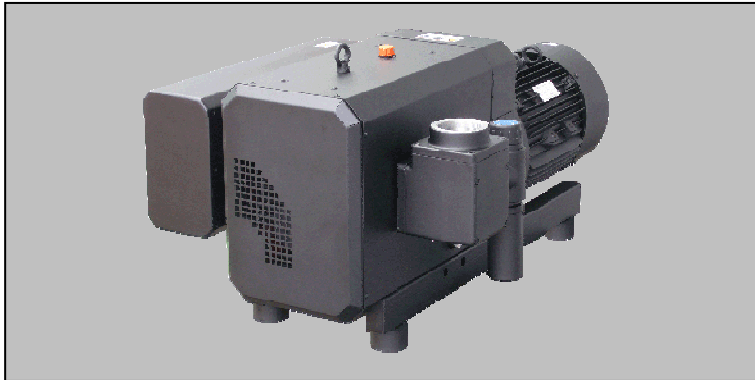


Dimensions	L	W	H	B	C	E	D	F	A	I	J	M	Q
EVC-0300	916	698	524	590	182	292	342	249	187	471	2"	2"	4Xm10

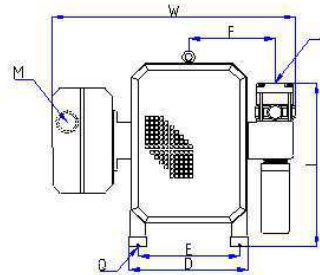
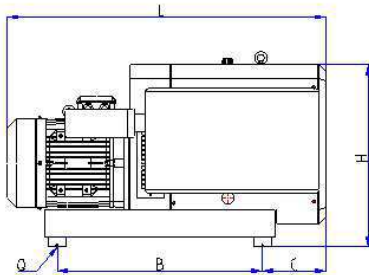
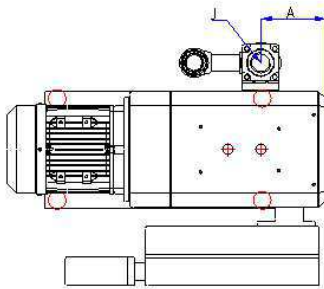
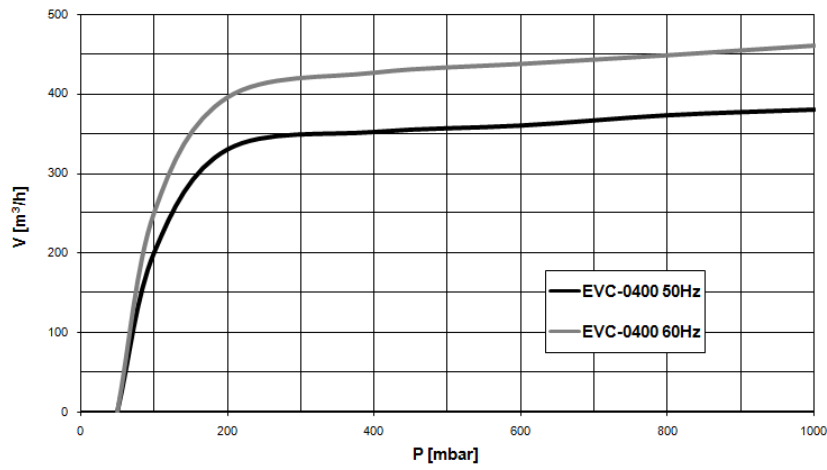
TYPE EVC-0300

Technical Data		EVC-0300		TwinClaw-0300
		50 Hz	60 Hz	50 Hz
Nominal displacement	m ³ /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"	2"
	Outlet	NPT 2"	2"	1½"

Ordering Information	EVC-0300		TwinClaw-0300
	50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)	605001	605002	605301
Other Voltages/Frequencies	Upon request		
Vacuum regulate valve	25012000		25012000
Gasket set	25049000		on request
Overhaul kit	25050000		on request
Inlet dust filter, paper cartridge	50800		50800
Gearbox oil type EV-Gear Oil-150	100500		2x 100500



Pumping speed curve

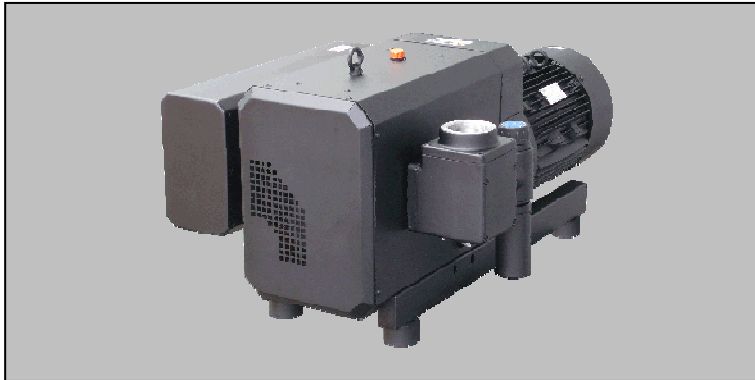


Dimensions	L	W	H	B	C	E	D	F	A	I	J	M	Q
EVC-0400	1001	899	544	800	133	292	372	284	205	468	3"	3"	4xM12

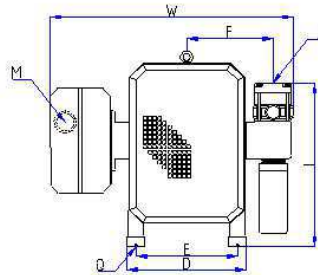
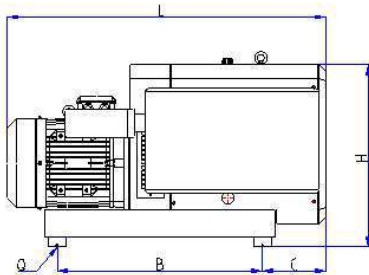
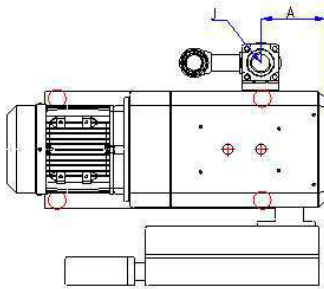
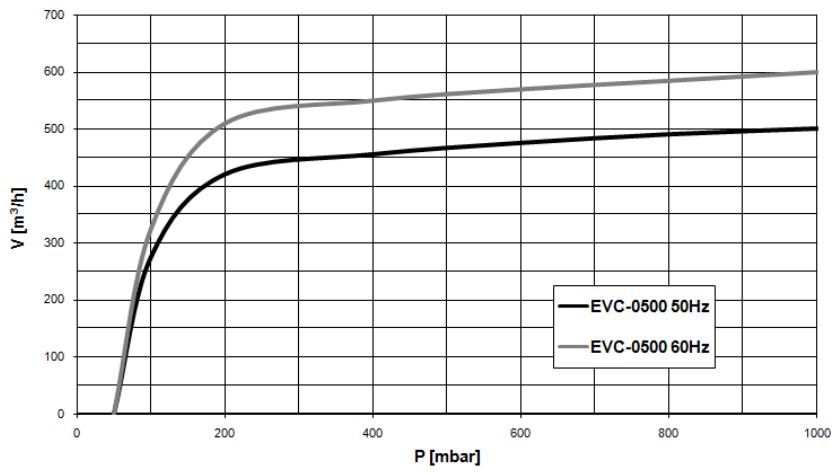
TYPE EVC-0400

Technical Data		EVC-0400		TwinClaw-0400
		50 Hz	60 Hz	50 Hz
Nominal displacement	m ³ /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"	NPT 3"	NPT 3"
	Outlet	NPT 3"	NPT 3"	NPT 3"

Ordering Information		EVC-0400		TwinClaw-0400
		50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)		606001	606002	606301
Other Voltages/Frequencies		Upon request		
Vacuum regulate valve		25012000		25012000
Gasket set		40049000		on request
Overhaul kit		40050000		on request
Inlet dust filter, paper cartridge		120800		120800
Gearbox oil type EV-Gear Oil-150		100500		2x 100500
High temperature grease		40049899		40049899



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

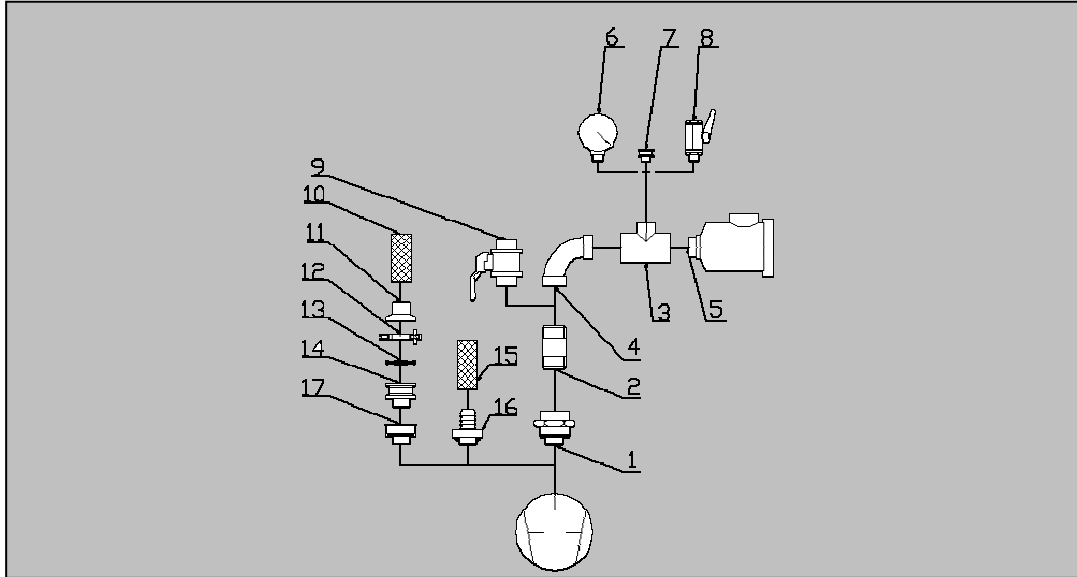
TYPE EVC-0500

Technical Data		EVC-0500		TwinClaw-0500
		50 Hz	60 Hz	50 Hz
Nominal displacement	m ³ /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		TwinClaw-0500
		50 Hz	60 Hz	50 Hz
Three phase motor 400V, 50Hz (IEC) 400V, 60Hz (IEC)		607001	607002	607301
Other Voltages/Frequencies		Upon request		
Vacuum regulate valve		25012000		25012000
Gasket set		40049000		on request
Overhaul kit		40050000		on request
Inlet dust filter, paper cartridge		120800		120800
Gearbox oil type EV-Gear Oil-150		100500		2x 100500
High temperature grease		40049899		40049899

EVC Series accessories

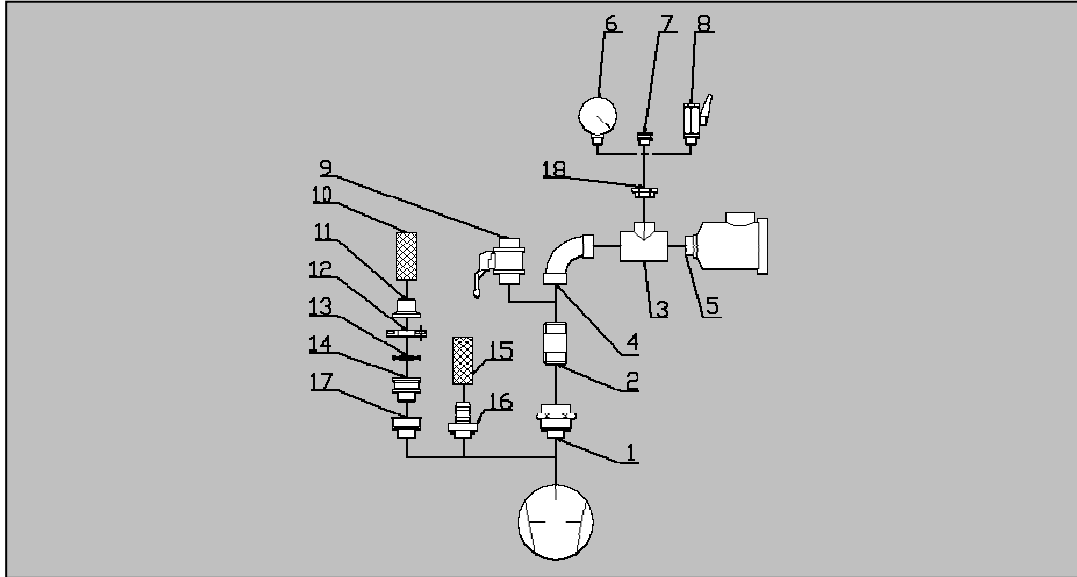
Connection fittings for EVC-0060, EVC-0100 & EVC-0150



Item	Description	Connection	Ordering No.
1	Rotatable flange	1½"M-1½"F	602020
2	Adapter piece	1½"M-1½"M	602021
3	T-piece	1½"F-½"F-1½"F	602022
4	Elbow	1½"F-1½"F	602023
4a	Elbow	1½"F-1½"M	602024
5	Inlet dust filter, paper cartridge	1½"M-1½"F	602025
6	Manometer 0 to -1 bar	½"M	119006
7	KF Adapter	½"M-DN16KF	211-367
8	Ball valve	½"M-½"F	119007
9	Ball valve	1½"F-1½"F	602026
10	Flexible hose	40 mm	119209
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	602028
16	Hose connection	1½"M-38mm	602029
17	Adapter piece	1½"M-1"F	602030

EVC Series accessories

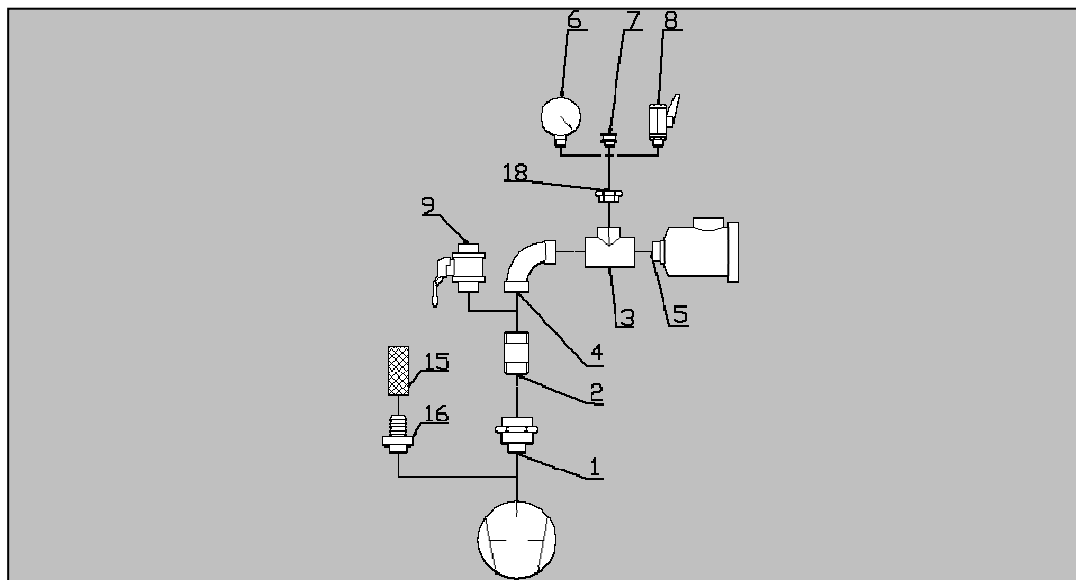
Connection fittings for EVC-0250, EVC-0300



Item	Description	Connection	Ordering No.
1	Rotatable flange	2"M-2"F	119201
2	Adapter piece	2"M-2"M	119202
3	T-piece	2"F-2"F-2"F	119203
4	Elbow	2"F-2"F	119204
4a	Elbow	2"F-2"M	119205
5	Inlet dust filter, paper cartridge	2"M-2"F	50800
6	Manometer 0 to -1 bar	½"M	119006
7	KF Adapter	½"M-DN16KF	211-367
8	Ball valve	½"M-½"F	119007
9	Ball valve	2"F-2"F	119208
10	Flexible hose	40mm	119209
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	119210
16	Hose connection	2"M-50mm	119211
17	Adapter piece	2"M-1½"F	119212
18	Adapter piece	2"M-½"F	119213

EVC Series accessories

Connection fittings for EVC-0400, EVC-0500



Item	Description	Connection	Ordering No.
1	Rotatable flange	3"M-3"F	119301
2	Adapter piece	3"M-3"M	119302
3	T-piece	3"F-2"F-3"F	119303
4	Elbow	3"F-3"F	119304
4a	Elbow	3"F-3"M	119305
5	Inlet dust filter, paper cartridge	3"M-3"F	120800
6	Manometer 0 to -1 bar	½"M	119006
7	KF Adapter	½"M-DN16KF	211-367
8	Ball valve	½"M-½"F	119007
9	Ball valve	3"F-3"F	119308
15	Flexible hose	76mm	119310
16	Hose connection	2"M-76mm	119311
18	Adapter piece	2"M-½"F	119313

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

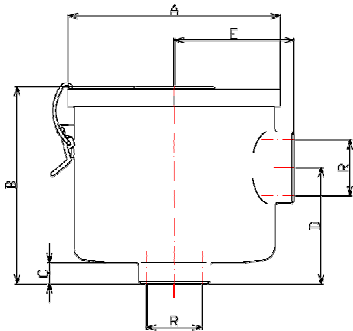
Separates particles down to 10 µm. Specially suitable for moist processes.

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.

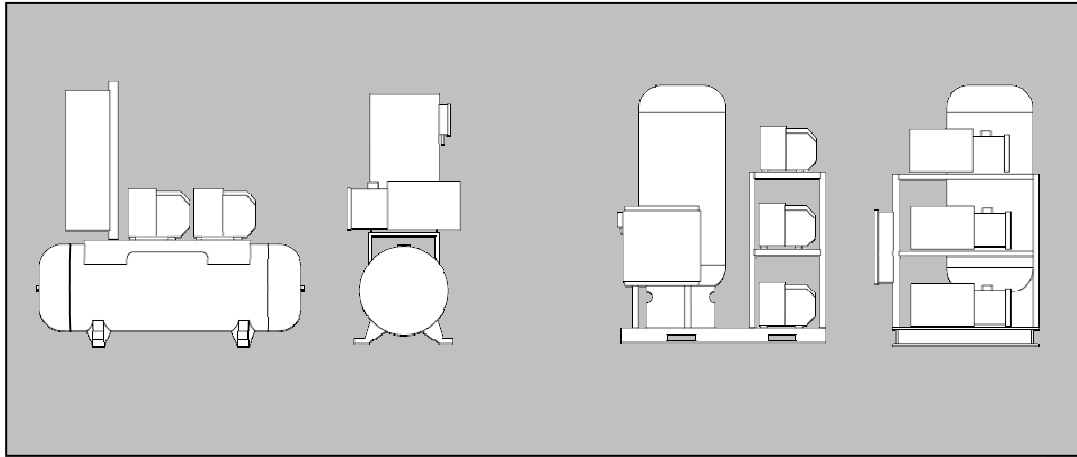


Type	Dimensions in mm						Weight kg
	øR	øA	B	C	D	E	
04800	G 1"	133	102	17	53	78	0,96
602025	G 1½"	170	188	18	124	100	2,1
50800	G 2"	200	258	18	124	114	3,8
120800	G 3"	270	230	50	145	165	12,5

Dust Filter	Housing with paper cartridge	Paper cartridge	Polyester cartridge	Metal cartridge	Activated charcoal cartridge
G 1" for EVC-0060 & 0065	04800	208001	208101	208201	208301
G 1½" for EVC-0100 & 0150	602025	6020251	6020252	6020253	6020254
G 2" for EVC-0250 & 0300	50800	508001	508101	508201	508301
G 3" for EVC-0400 & 0500	120800	1208001	1208101	1208201	1208301

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.

