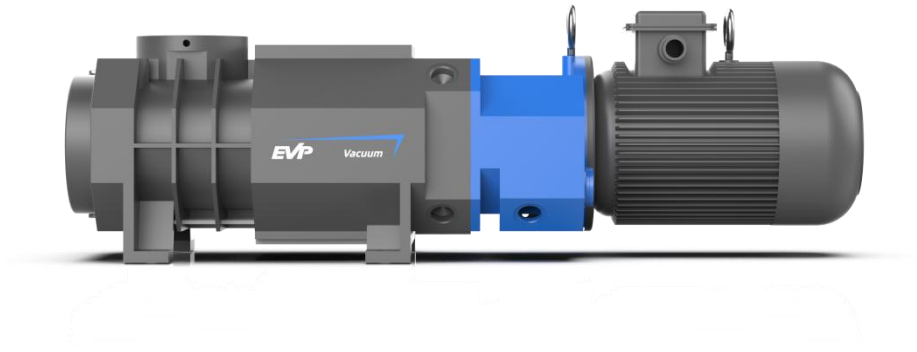


EDSE & EDSV Series Dry Screw Vacuum Pump



Introduction:

EVP is committed to the production and sales of different kinds of vacuum pumps, vacuum valves and vacuum fittings, provides first-class vacuum equipment solutions for global customers. The inspiration for the creation of EVP's brand comes from the mission "deliver **E**astern **V**acuum **P**roducts to all over the world", emphasizing the confidence and vitality from the East.

The name EDSE comes from **E**VP **D**ry **S**crew vacuum pump of **E**qual pitch, and the name EDSV comes from **E**VP **D**ry **S**crew vacuum pump of **V**ariable pitch. It embodies the wisdom of the East, its design and color matching with oriental aesthetics, which continues to win the reputation of "Created in China".

EDSE & EDSV series dry screw vacuum pump can pump condensable vapors, and when equipped with purging system it can even used in application to pump gas with oil vapor or something residue. They offer a number of advantages over the traditional vacuum pump design. This pump is oil-free and water-free, considered as environment friendly pump.

Features:

1. Oil-free and water-free, dry running makes clean vacuum.
2. Can achieve ultimate vacuum as low as 2Pa(50hz), 1Pa(60hz).
3. Quiet operation: Equipped with special silencer, lower noise.
4. No metal contact between screw and casing ensures long lifespan.
5. Easy operation and easy maintenance.

Main application:

EDSE and EDSV series dry screw vacuum pump has widely used in chemical application, pharmaceutical processing, solvent recovery, crystallization, vacuum coating, petroleum, semiconductor market, etc.



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Technical data:

Model	Flow rate 50/60Hz			Ultimate vacuum 50/60Hz	Motor power 50/60 Hz	Rotary speed 50/60Hz	Inlet DIA	Silencer outlet DIA	Gear cavity volume	Cooling water volume	Weight
	m ³ /h	CFM	L/s	Pa	kW	rpm	mm	mm	L	L/min	kg
EDSE-50	180/216	105/127	50/60	2/1	7.5	2900 /3550	65	50	0.85	2.5	295
EDSE-70	250/300	147/176	70/84		7.5		80	50	0.85	2.6	350
EDSE-110	400/480	235/282	110/132		15		100	80	1.4	2.8	480
EDSE-150	540/650	317/382	150/180		18.5		150	80	2	3	520
EDSE-200	720/850	423/500	200/240		22		150	100	2	4	680
EDSV-70	250/300	147/176	70/84		7.5		65	50	0.85	2.5	295
EDSV-110	400/480	235/282	110/132		7.5		80	50	0.85	2.6	350
EDSV-160	576/690	339/406	160/192		15		100	80	1.4	2.8	480
EDSV-220	792/950	466/559	220/264		18.5/22		150	80	2	3	520
EDSV-330	1188/1425	699/839	330/396		30		150	100	2	4	680
EDSV-280	1008/1210	593/712	280/336	100/70	22		150	80	2	3.2	520
EDSV-300	1080/1290	635/758	300/360		22		150	80	2	4	520
EDSE-300A	1080/1290	636/759	300/360		30/37		150	100	2	2.8	680

Notes:

1/ The oil consumption on above sheet is for reference only. The machine can always adopt fluoride or mineral substance oil. Pump oil and lubricant oil will be matched before delivery.

2/ Above cooling water consumption data is tested with ambient temperature at 30℃, cooling water suction temperature at 20℃, and water pressure from 0.15 MPa to 0.2 MPa. Various working condition will cause different cooling water consumption.

3/ The main differences between EDSE and EDSV:

(1) EDSE model is same pitch screw pump, EDSV is variable pitch screw pump.

(2) The speed of reaching high vacuum by EDSV model is slower than that by EDSE.

(3) The EDSV model cannot operate between 1ATM to 10000 Pa for a long time because the load is too large. When the needed working vacuum degree is between 10000 Pa to its ultimate vacuum, it is recommended to use EDSV. The final selection needs to be based on specific working conditions, please contact EVP for details.

(4) The load is lower when the EDSV model reaches the ultimate vacuum, so the energy consumption is lower as it approaches the ultimate vacuum. The opposite is true for EDSE.

4/ Advantage of EDSE300A:

(1) The motor of EDSE300A is separated from the gearbox, and the motor brand can be specified.

(2) EDSE300A is small in size and can be used in industries with low vacuum requirements such as the plastic blister industry, packaging industry, and egg tray industry.



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Material Option: Titanium Alloy

Titanium alloy screw vacuum pumps are products for special applications under strong corrosion conditions. The internal flow surfaces of the pump are made of high-quality and high-performance titanium alloy materials, which have the characteristics of high corrosion resistance, high strength, and good stability.

The binding force between titanium and oxygen is extremely strong. A dense oxide film can easily form on the surface of titanium alloy, providing strong corrosion resistance on the surface of parts. Actual cases have shown that titanium alloy pumps are suitable for pumping out hydrogen chloride, nitric acid, organic acids, alkali, inorganic salts and other corrosive media.

Technical data for Titanium Alloy material dry screw vacuum pump:

Model	Flow rate 50/60Hz			Ultimate vacuum 50/60Hz	Motor power 50/60Hz	Rotary speed 50/60Hz	Inlet DIA	Silencer outlet DIA	Gear cavity volume	Cooling water volume	Weight
	m3/hr	CFM	L/s	Pa	kW	rpm	mm	mm	L	L/min	kg
EDSE-70T	250/300	147/176	70/84	5/2.5	7.5	2900 /3550	80	50	0.85	2.5	350
EDSE-150T	540/645	317/380	150/180		18.5		150	80	2	3	520
EDSV-110T	400/480	235/282	110/132		7.5		80	50	0.85	2.6	350
EDSV-220T	792/950	466/559	220/264		18.5/22		150	80	2	3	520
EDSV-300T	1080/1290	636/759	300/360	100/70	22		150	80	2	2.8	520



Looking for vacuum products, look for EVP

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