Oil-free Screw Blower

Product Name: Oil-free screw compressor and screw blower, rotary screw blower

Model: SLT- BW

Working Pressure: 0.4-2Bar

Air Displacement: 13.5-93 m3/min

Power: 15-185 kw

Warranty: 2 years

Certification: CE/ASME/ISO

Colour: Optional & customization

Local Service Location: Philippines, Mexico, Russia

1. What is an Oil-Free Screw Blower?

Oil-free screw blowers, also known as rotary screw blowers, are compressors that deliver compressed air at pressures below 1.5 bar(g). Their operational principles mirror those of rotary screw compressors. These blowers are utilized in various low-pressure applications, including wastewater treatment, pneumatic conveying, and fermentation.

Sollant screw blower units are certified to ISO 8573-1 Class 0 standards, ensuring the protection of your critical processes and products from contamination.

2. What are the advantages of screw technology?

Energy costs can constitute up to 80% of the total lifecycle expenses associated with a blower. Screw blowers, a type of positive displacement blower, are designed with an internal compression process that significantly reduces energy consumption, as minimal energy is converted into heat. Consequently, screw blowers present a more energy-efficient alternative to traditional rotary lobe blower solutions. On average, opting for a highly efficient screw blower can result in savings of 35-40% compared to lobe or roots-style technology. Notably, the higher the pressure demands of your application, the greater the potential savings and the lower the overall cost of ownership.

Screw technology is particularly well-suited for variable speed configurations, as its energy efficiency in air compression remains relatively constant across various operating points. Additionally, it offers a wide range of operational speeds.

3.Technical Parameters

Model	Identifier	Power		Work Pressure	Moral Character	Exhaust Pipe Diameter	Sizes	Weights
		kW	HP	bar	m^3/min	inch/mm	mm	kg
SLT-15BW-0.4	CCACA1	15	20	0.4	13.5	DN150	1600*1100*1650	950
SLT-18.5BW-0.6	CCACA1	18.5	25	0.6	14.5	DN150	1600*1100*1650	980
SLT-22BW-0.4	CCACA1	22	30	0.4	21.4	DN200	1800*1150*1700	-
SLT-22BW-0.6	CCACA1	22	30	0.6	16.5	DN150	1600*1100*1650	-
SLT-22BW-0.8	CCACA1	22	30	0.8	13.5	DN150	1600*1100*1650	970
SLT-22BW-0.8I	CCAEA1	22	30	0.8	13.5	DN150	1850*1550*1650	1450
SLT-22BW-1.0	CCACA1	22	30	1	10.5	DN150	1600*1100*1650	-
SLT-22BW-1.5	CCACA1	22	30	1.5	8.6	DN100	1500*1060*1360	800
SLT-22BW-1.5I	CCAEA1	22	30	1.5	7.5	DN100	1800*1520*1400	1150
SLT-30BW-0.4	CCACA1	30	40	0.4	27.6	DN250	1900*1400*2000	-
SLT-30BW-0.6	CCACA1	30	40	0.6	25.6	DN200	1800*1150*1700	-
SLT-30BW-0.8	CCACA1	30	40	0.8	21	DN200	1800*1150*1700	-
SLT-30BW-1.0	CCACA1	30	40	1	15.6	DN150	1600*1100*1650	970
SLT-30BW-1.2	CCACA1	30	40	1.2	12.5	DN150	1600*1100*1750	1100
SLT-37BW-0.4	CCACA1	37	50	0.4	34.5	DN250	1900*1400*2000	-
SLT-37BW-0.6	CCACA1	37	50	0.6	28	DN250	1900*1400*2000	-
SLT-37BW-0.8	CCACA1	37	50	0.8	25.2	DN200	1800*1150*1700	1800
SLT-37BW-0.8I	CCAEA1	37	50	0.8	25.2	DN200	2000*1650*1700	1600
SLT-37BW-1.0	CCACA1	37	50	1	20	DN150	1600*1100*1750	1100
SLT-37BW-1.2	CCACA1	37	50	1.2	16.5	DN150	1600*1100*1750	1100
SLT-37BW-1.5	CCACA1	37	50	1.5	12.5	DN150	1600*1100*1750	1100
SLT-45BW-0.6	CCACA1	45	60	0.6	34.2	DN250	1900*1400*2000	-
SLT-45BW-0.8	CCACA1	45	60	0.8	30	DN250	1900*1400*2000	-
SLT-45BW-1.0	CCACA1	45	60	1	25	DN200	1800*1150*1700	-
SLT-45BW-1.2	CCACA1	45	60	1.2	21	DN150	1600*1100*1750	1150
SLT-45BW-1.5	CCACA1	45	60	1.5	16	DN150	1600*1100*1750	1150
SLT-55BW-0.4	CCACA1	55	75	0.4	55	DN300	2300*1700*2250	-
SLT-55BW-0.6	CCACA1	55	75	0.6	46.5	DN250	2110*1550*1960	-
SLT-55BW-0.8	CCACA1	55	75	0.8	39	DN250	2200*1550*2200	2200
SLT-55BW-1.0	CCACA1	55	75	1	32	DN250	2020*1400*2000	2080
SLT-55BW-1.2	CCACA1	55	75	1.2	25	DN200	1800*1150*1700	1400
SLT-55BW-1.5	CCACA1	55	75	1.5	22	DN200	1800*1150*1700	1400
SLT-75BW-0.6	CCACA1	75	100	0.6	63	DN300	2300*1700*2250	3100
SLT-75BW-0.8	CCACA1	75	100	0.8	51	DN300	2300*1700*2250	3100
SLT-75BW-1.0	CCACA1	75	100	1	45.8	DN250	2200*1550*2200	2200
SLT-75BW-1.2	CCACA1	75	100	1.2	38	DN250	2020*1400*2000	2000
SLT-75BW-1.5	CCACA1	75	100	1.5	32.2	DN250	2020*1400*2000	2000
SLT-75BW-1.0	CIACG1	75	100	1	45.8	DN250	2200*1600*1950	2200
SLT-90BW-0.8	CCACA1	90	120	0.8	57.5	DN300	2300*1700*2250	-
SLT-90BW-1.0	CCACA1	90	120	1	54	DN300	2300*1700*2250	3200
SLT-90BW-1.2	CCACA1	90	120	1.2	47.8	DN250	2200*1550*2200	2251
SLT-90BW-1.5	CCACA1	90	120	1.5	40	DN250	2200*1550*2200	2251
SLT-110BW-1.0	DCACA1	110	150	1	60.5	DN300	2300*1700*2250	3300
SLT-110BW-1.2	DCACA1	110	150	1.2	58.5	DN300	2300*1700*2250	3300
SLT-110BW-1.5	DCACA1	110	150	1.5	46	DN300	2300*1700*2250	3300
SLT-132BW-1.0	DCACA1	132	175	1	78	DN300	2650*1700*2400	-
SLT-132BW-1.2	DCACA1	132	175	1.2	67	DN300	2300*1700*2250	3250
SLT-132BW-1.5	DCACA1	132	175	1.5	57	DN300	2300*1700*2250	3250
SLT-160BW-2.0	DCACA1	160	220	2	41.5	DN250	2400*1500*2050	2400
SLT-160BW-1.2	DCACA1	160	220	1.2	80.5	DN300	2650*1700*2400	3900
SLT-160BW-1.5	DCACA1	160	220	1.5	70	DN300	2650*1700*2400	3900
SLT-185BW-1.2	DCACA1	185	250	1.2	93	DN300	2650*1700*2400	-
SLT-185BW-1.5	DCACA1	185	250	1.5	76.3	DN300	2650*1700*2400	-
SLT-185BW-2.0	DCACA1	185	250	2	-	-	-	-

4. Why Choose Sollant rotary screw blower?

In comparison to lobe technology, the Sollant oil-free screw blower offers an impressive energy cost reduction of 35-40%. Additional savings can be realized through the implementation of variable frequency drive (VSD) technology.

To prevent unexpected expenses, we provide comprehensive plug-and-play packages, ensuring a complete system that is ready for immediate operation upon arrival.