

AWS 180-26000 single-stage liquid ring vacuum pumps

Atlas Copco

Atlas Copco AWS liquid ring vacuum pumps feature a single-stage design for reliable performance from atmospheric pressure down to ultimate vacuum.

Atlas Copco liquid ring pumps are ideal for pumping either dry or wet gases, with a high tolerance to liquid carryover, especially in condensable processes. The pumps are available in a variety of materials that can be selected to suit the pumped process media. AWS liquid ring pumps are available as part of standard preconfigured modules manufactured according to Atlas Copco design principles for easy installation, use and service.

AWS single-stage liquid ring vacuum pumps feature a high-efficiency impeller design and state-of-the-art compression technology to achieve reliable and efficient vacuum performance from atmospheric down to ultimate vacuum.

The AWS series is ideal for filtration, vacuum forming and rapid evacuation functions.



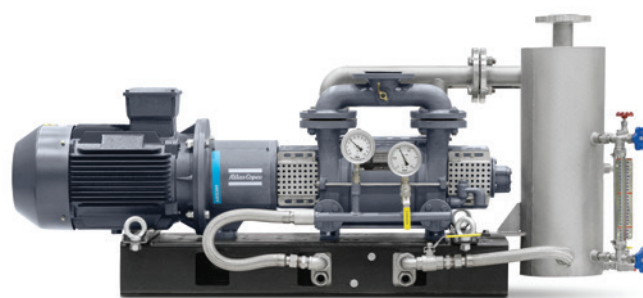
Flexible product offering

Atlas Copco takes the hassle out of selecting your vacuum system. All AW liquid ring pumps are offered in a variety of configurations to suit your needs. They can be installed in a single- or multi-pump set-up as required. Well suited to end-user and original equipment manufacturer (OEM) applications alike, the AW range of liquid ring pumps will

meet your needs. With 50 years of experience in LRVP technology and customers spanning the globe, we know how to put together a liquid ring system that works for you. Reap all the benefits of liquid ring technology while saving water and energy. Add easy-to-install accessories from our standard range to complete your installation.

Engineered systems

For more complex requirements, our project team is here to develop a unique engineered system tailored to your needs. Atlas Copco liquid ring pumps form the backbone of multistage systems in materials of your choice and to the specifications you need. With the help of Atlas Copco vacuum engineers, the possibilities are endless.



Suitable for a wide range of applications

Liquid ring vacuum pumps are ideal for specific, humid, dirty and/or high-capacity applications in heavy industries, a selection of which can be found below.

The AWS series are the workhorses: proven, strong and reliable machines that deliver utility or process vacuum.

- Tires
- Filtration
- Evaporation
- Pulp and paper
- ePS
- Drying
- Chicken evisceration

Summary of key features

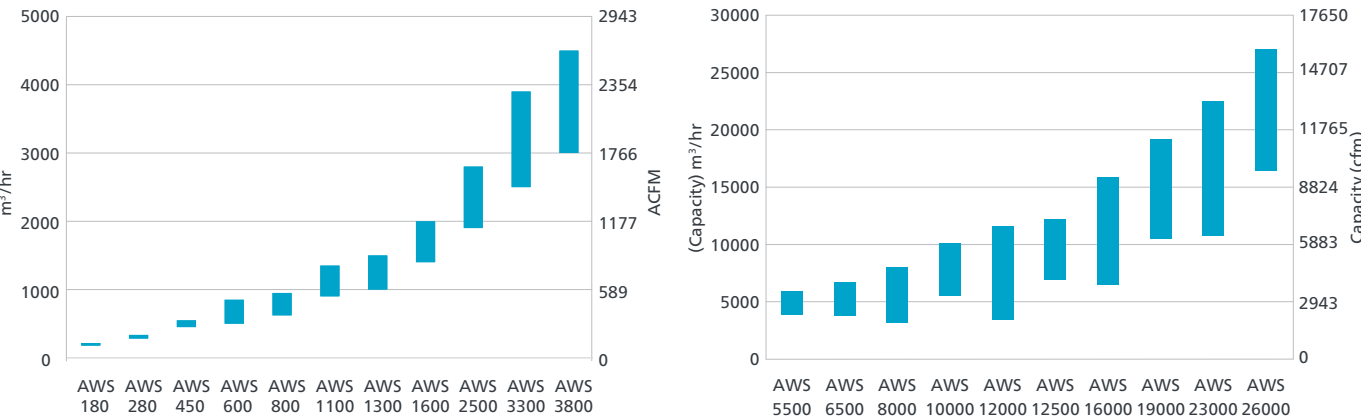
- State-of-the-art bearing design allowing for reduced clearances and improved suction performance
 - Variable area discharge porting for optimum efficiency across all inlet pressures
 - Internal and external seal flush options possible
- Mechanical seals as standard
 - Internal water recirculation for reduced water consumption
 - Inlet manifold and discharge separator manifold included as standard for reduced footprint

Materials of construction

Component	Version			
	Cast iron*	Stainless steel full	SS 304	SS 316L
Casing	Cast iron	Cast iron	SS 304	SS 316L
Port plate	Cast iron	Cast iron	SS 304	SS 316L
Impeller	SG iron	SS 304	SS 304	SS 316L
Shaft (AWS 180-AWS 600)	Carbon steel	Carbon steel	SS 304	SS 316L
Shaft (>AWS 600)	Carbon steel	Carbon steel***	Carbon steel***	Carbon steel***
Shaft sleeve**	SS 304	SS 304	SS 304	SS 316L
Mechanical seal	SiC/C/FKM	SiC/C/FKM	SiC/C/FKM	SiC/C/FKM

*AWS 180/280/360 no CI version
**AWS 180-600 are equipped with solid stainless shafts, while the AWS800 and above use shaft sleeves.
***AWS 23000/AWS26000, using stainless steel shaft

Performance range



Technical specifications

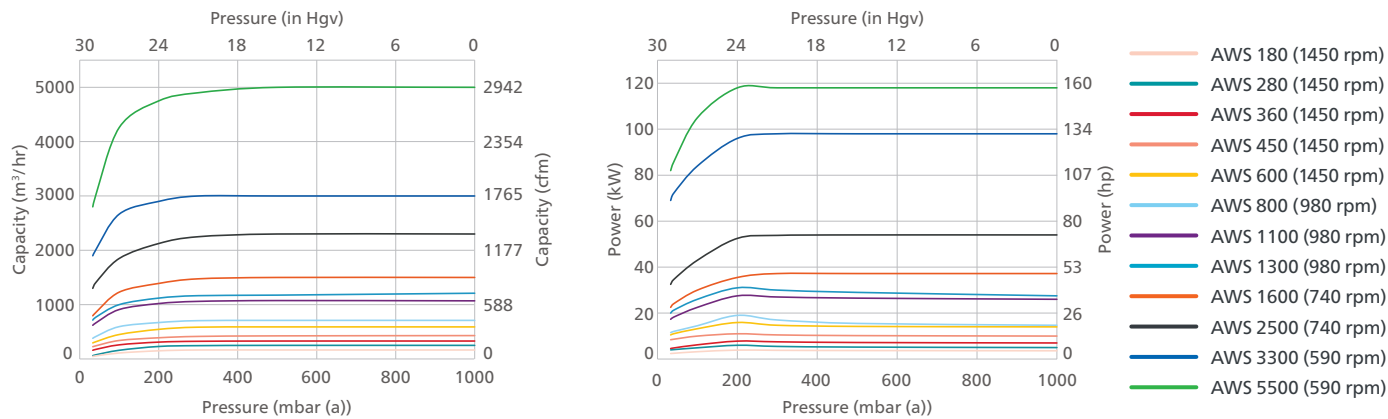
		AWS 180		AWS 280		AWS 360		AWS 450		AWS 600		AWS 800		AWS 1100	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Nominal capacity	Saturated-m³/hr	168	202	246	290	340	412	450	535	600	700	750	888	1080	1320
	Saturated-ACFM	99	119	145	171	200	242	265	315	353	412	441	523	636	777
Ultimate pressure	mbar(a)	33	33	33	33	33	33	33	33	33	33	33	33	33	33
	"HgV	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Motor power	kW	5.5	7.5	7.5	11	11	15	15	22	18.5	30	22	30	37	45
	Hp	7	10	10	15	15	20	20	29	25	40	29	40	50	60
Inlet/Outlet connection	DN mm	DN65		DN65		DN65		DN65		DN65		DN65		DN65	
	in	2-1/2		2-1/2		2-1/2		4		4		5		5	
Seal water connection		G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 3/4	G 3/4	G 3/4	G 3/4
Approximate block dimensions (W x D x H)	mm	690 x 450 x 670		746 x 450 x 670		800 x 450 x 670		840 x 525 x 748		900 x 525 x 748		961 x 630 x 980		1090 x 630 x 980	
	inch	27 x 18 x 26		29 x 18 x 26		31 x 18 x 26		33 x 21 x 29		35 x 21 x 29		38 x 25 x 39		43 x 25 x 39	
Dry weight	kg	90		175		190		225		260		433		515	
	lbs	198		386		419		496		573		955		1135	

		AWS 1300		AWS 1600		AWS 2500		AWS 3300		AWS 3800		AWS 5500	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Nominal capacity	Saturated-m³/hr	1230	1452	1700	2000	2450	2780	3200	3840	3750	4520	5300	5850
	Saturated-ACFM	724	855	1001	1177	1442	1636	1883	2260	2207	2660	3119	3443
Ultimate pressure	mbar(a)	33	33	33	33	33	33	33	33	33	33	33	33
	"HgV	29	29	29	29	29	29	29	29	29	29	29	29
Motor power	kW	37	55	45	75	75	90	75	110	90	132	160	185
	Hp	50	74	60	101	101	121	101	147	121	177	214	248
Inlet/Outlet connection	DN mm	DN125		DN150		DN150		DN200		DN200		DN250	
	in	5		6		6		8		8		10	
Seal water connection		G 3/4	G 3/4	G 1	G 1	G 1	G 1	DN 40	DN 40	DN 40	DN 40	DN 50	DN 50
Approximate block dimensions (W x D x H)	mm	1130 x 630 x 980		1231 x 840 x 1248		1381 x 840 x 1248		1582 x 1036 x 1363		1702 x 1036 x 1363		1749 x 1185 x 1573	
	inch	44 x 25 x 39		48 x 33 x 49		54 x 33 x 49		62 x 41 x 54		67 x 41 x 54		69 x 47 x 62	
Dry weight	kg	550		887		924		1620		1886		2400	
	lbs	1213		1956		2037		3571		4158		5291	

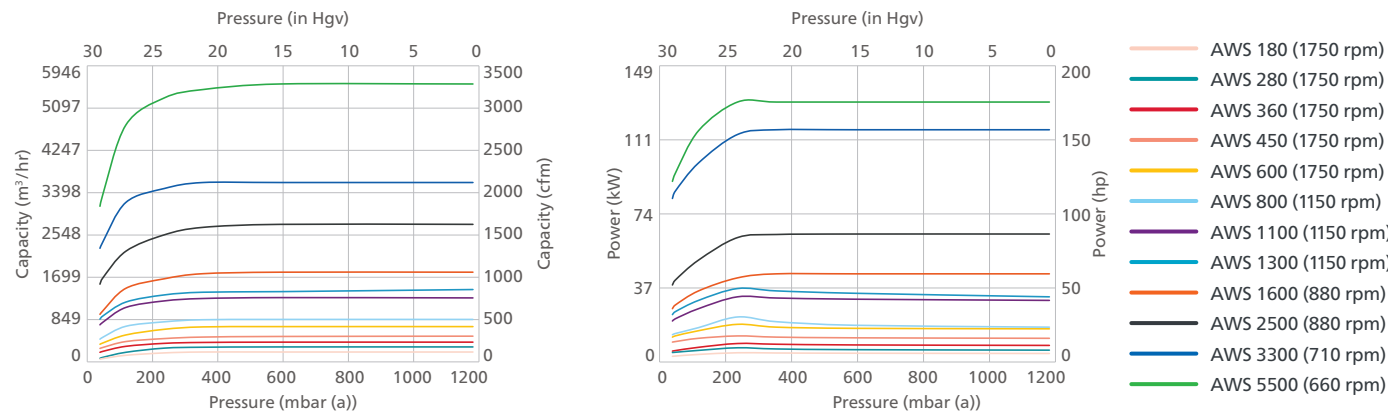
		AWS 6500	AWS 8000	AWS 10000	AWS 12000	AWS 12500	AWS 16000	AWS 19000	AWS 23000	AWS 26000
Nominal capacity	Max. saturated m³/hr	6510	8100	9450	11652	11820	16380	18250	22800	26000
	Max. saturated ACFM	3832	4767	5562	6858	6957	9641	10742	13420	15303
Ultimate pressure	mbar(a)	33	33	160	33	160	33	160	33	160
	"HgV	29	29	25	29	25	29	25	29	25
Motor power	kW	169	200	235	305	253	420	430	555	590
	Hp	230	272	320	415	344	571	585	755	802
Inlet/Outlet connection	DN mm	DN250	DN300	DN300	DN350	DN350	DN400	DN400	DN500	DN500
Seal water connection		DN50	DN65	DN65	DN65	DN65	DN80	DN80	DN100	DN100
Approximate block dimensions (L x W x H)	mm	1892 x 1185 x 1573	2020 x 1463 x 1928	2183 x 1463 x 1928	2255 x 1665 x 2263	2435 x 1665 x 2263	2522 x 1925 x 2663	2730 x 1925 x 2663	2981 x 2143 x 3083	3281 x 2143 x 3083
	inch	74 x 47 x 62	80 x 58 x 76	86 x 58 x 76	89 x 66 x 89	96 x 66 x 89	99 x 76 x 105	107 x 76 x 105	117 x 84 x 121	129 x 84 x 121
Dry weight	kg	2900	3750	3900	4880	5100	7560	7900	11000	11500
	lbs	6393	8267	8598	10759	11244	16667	17417	24251	25353

Performance curves

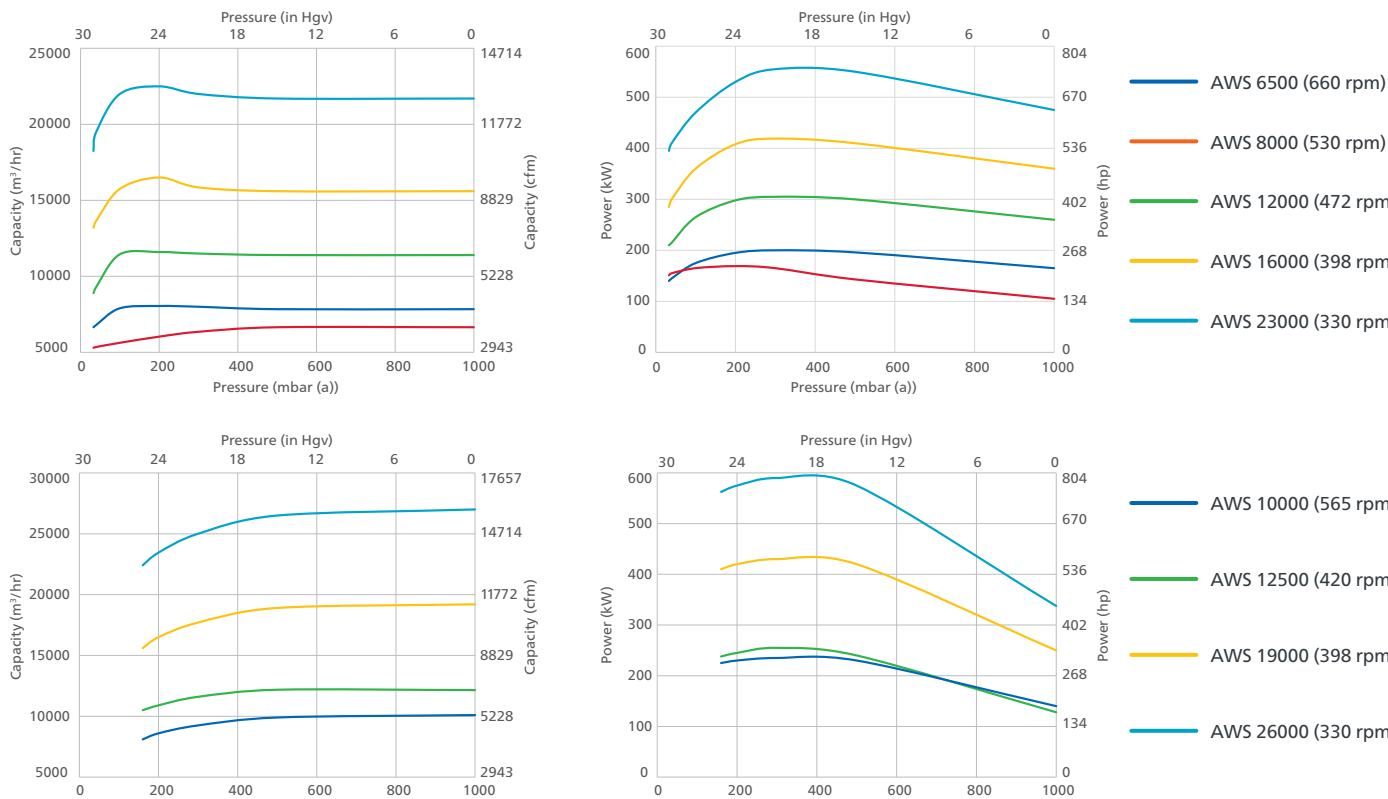
AWS 180-5500 @50 Hz



AWS 180-5500 @ 60Hz



AWS 6500-26000



Atlas Copco AB
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