

# LIQUID RING VACUUM PUMP

Atlas Copco

AWS 180-5500



## 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 gasses, with a high tolerance to liquid carryover, especially on condensable processes. Pumps are available in a variety of materials which can be selected to suit the pumped process media. All AWS liquid ring pumps are available as part of standard pre-configured 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. The AWS series are ideal for filtration, vacuum forming and rapid evacuation duties.

## FEATURES AND BENEFITS

- 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.
- Mechanical seals as standard.
- Internal and external seal flush options.
- Internal water recirculation for reduced water consumption.
- Inlet manifold and discharge separator manifold included as standard for reduced footprint.

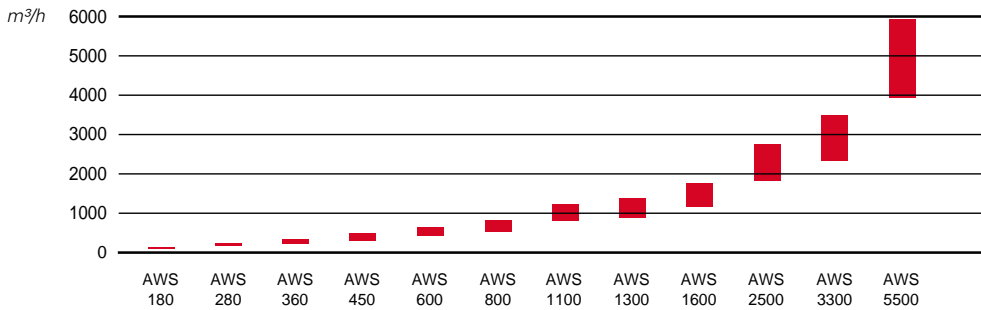
## MATERIALS OF CONSTRUCTION

	Cast iron	Stainless steel	Stainless steel fitted
Casing	Cast iron	316 stainless steel	Cast iron
Body	Cast iron	316 stainless steel	Cast iron
Impeller	SG iron	316 stainless steel	316 stainless steel
Shaft	420 stainless steel	316 stainless steel	316 stainless steel
Mechanical seals	SiC/C/Viton	SiC/C/Viton	SiC/C/Viton

# TECHNICAL SPECIFICATIONS

	AWS 180	AWS 280	AWS 360	AWS 450	AWS 600	AWS 800	AWS 1100	AWS 1300	AWS 1600	AWS 2500	AWS 3300	AWS 5500
<b>50 Hz</b>												
Nominal capacity (m <sup>3</sup> /h)	170	250	325	440	600	725	1100	1200	1500	2640	3000	5400
Ultimate pressure (mbar(a))	30	30	30	30	30	30	30	30	30	30	30	30
Nominal installed motor (kW)	5.5	75	11	15	18.5	22	37	37	45	75	75	132
Approximate block dimensions (W x D x H) (mm)	638 x 275 x 645	741 x 275 x 645	795 x 275 x 645	807 x 330 x 745	885 x 330 x 745	975 x 430 x 985	1095 x 430 x 985	1131 x 430 x 985	1237 x 570 x 1245	1387 x 570 x 1245	1585 x 870 x 1360	1745 x 1000 x 1570
Dry weight (kg)	141	199	208	299	311	580	650	682	1166	1324	2120	2285
<b>60 Hz</b>												
Nominal capacity (cfm)	118	182	224	309	406	515	736	824	1059	2636	2060	3461
Ultimate pressure (torr)	25	25	25	25	25	25	25	25	25	25	25	25
Nominal installed motor (hp)	10	15	20	25	30	40	60	60	75	120	120	250
Approximate block dimensions (W x D x H) (inch)	25 x 11 x 25	29 x 11 x 25	31 x 11 x 25	32 x 13 x 29	35 x 13 x 29	38 x 17 x 39	43 x 17 x 39	45 x 17 x 39	49 x 22 x 49	55 x 22 x 49	62 x 34 x 54	69 x 39 x 62
Dry weight (lbs)	311	439	456	659	686	1279	1433	682	1504	2919	4674	5038

## PERFORMANCE RANGE



AWS pumps are available as bareshaft 'Blocks', motorized 'Powerpacks', or standard pre-configured water recycle modules. Please refer to the TR Module brochure for further details.



ISO 9001 • ISO 14001  
OHSAS 18001



[www.atlascopco.com/vacuum](http://www.atlascopco.com/vacuum)