

Liquid ring vacuum pumps

AWC 30 - AWC 500

Atlas Copco



The Atlas Copco AWC liquid ring pumps are high performance, single stage pumps with a modular-based system design

The Atlas Copco AWC range of liquid ring vacuum pumps are ideal for use in a range of industrial vacuum applications where the process contains high levels of vapor, liquid carry-over or contamination by solids.

The AWC standard liquid ring pump systems are available in once-through, partial recovery or total recovery configurations. At the heart of each variant is our flat port plate design single stage, liquid ring pump element that is optimized for operation across the rough vacuum pressure range. The AWC product line is available with motor sizes from 1kW to 18.5kW and with flow ranges

from 30 to 500 m³/h (16 to 320 cfm). The AWC range of liquid ring pumps make use of an optimized design that allows for efficient seal liquid consumption while maintaining stable flow performance across the entire operating range.

Designed to operate on harsh, humid and wet processes in industrial environments, the AWC range of liquid ring pumps are the perfect choice for applications where process contamination is a concern, such as plastics extrusion, expanded polystyrene, filtration, degassing, meat and poultry evisceration and drying.

Features and benefits

- High performance to power ratio
- Robust and proven design
- Compact pumping element
- Corrosion resistant – Stainless Steel impeller as standard
- Available for use with Elec-Cab for VSD operation
- Lantern style flange mount bracket for automatic motor alignment
- Automatic center-line adjustment for seal liquid fill
- Flat port design with variable port plate

Materials of construction

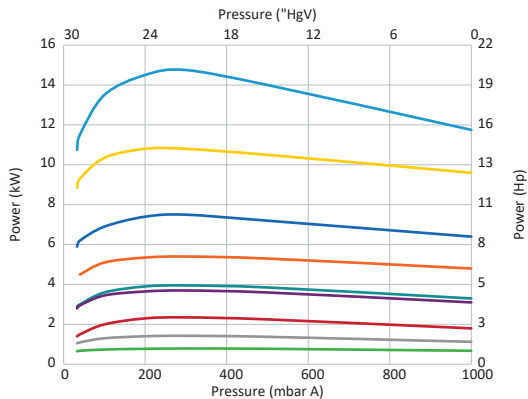
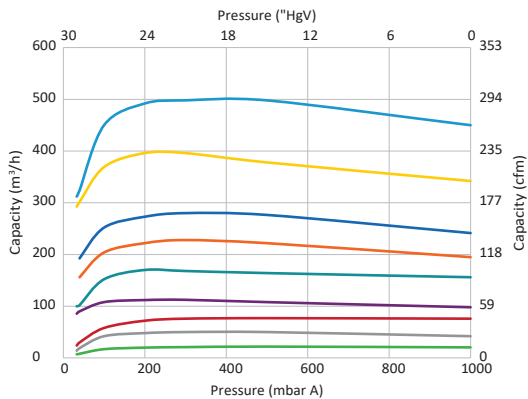
Component	Version		
	Stainless steel fitted	SS 304	SS 316L
Casing	Cast iron	SS 304	SS 316L
Impeller	SS 304	SS 304	SS 316L
Shaft (Lantern mounted)	Stainless steel	SS 304	SS 316L
Shaft (Motor mounted)	Stainless steel	Stainless steel	Stainless steel
Mechanical seal	Ceramic/C/FKM	SiC/C/FKM	SiC/C/FKM

Technical specifications

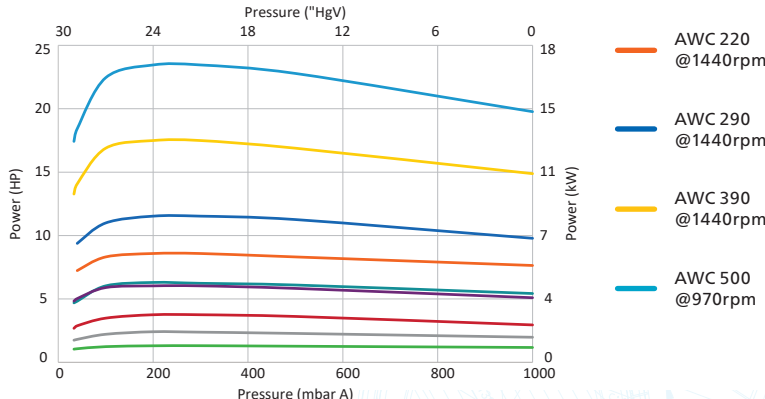
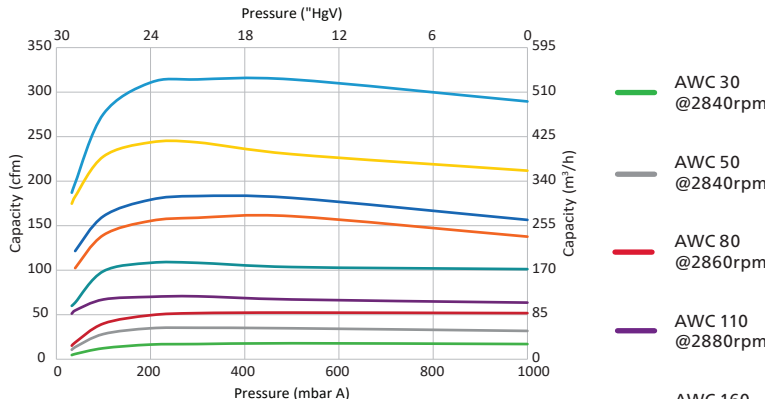
Lantern mounted		AWC 160		AWC 220		AWC 290		AWC 390		AWC 500	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Nominal capacity	Saturated m³/h	165	185	230	265	280	310	400	420	500	535
	Saturated ACFM	97	109	135	156	165	182	235	247	294	315
Ultimate pressure	mbar(a)	33	33	33	33	33	33	33	33	33	33
	"HgV	29	29	29	29	29	29	29	29	29	29
Motor power	kW	4.0	5.5	5.5	7.5	7.5	11.0	11.0	15.0	15.0	18.5
	Hp	5.4	7.4	7.4	10.1	10.1	14.7	14.7	20.1	20.1	24.8
Inlet/Outlet flange		DN 50	DN 50	DN 50	DN 50	DN 65	DN 65	DN 65	DN 65	DN 80	DN 80
Seal water connection		Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4
Approx. block dimensions (LxW xH)	mm	651x303x381		768x344x401		795x340x415		910x374x467		980x374x526	
	in			26x12x15		30x14x16		31x13x16		30x14x16	
Dry Weight	kg	112		148		166		212		334	
	lbs			247		326		366		467	

Motor mounted (50 Hz)		AWC 30	AWC 50	AWC 80	AWC 110	AWC 160	AWC 220	AWC 290	AWC 390	AWC 500
Nominal capacity	Saturated m³/h	27	52	80	110	165	230	280	400	500
	Saturated ACFM	16	31	47	65	97	135	165	235	294
Ultimate pressure	mbar(a)	33	33	33	33	33	33	33	33	33
	"HgV	29	29	29	29	29	29	29	29	29
Motor power	kW	0.8	1.4	2.4	3.7	4.0	5.5	7.5	11.0	15.0
	Hp	1.1	1.9	3.2	5.0	5.4	7.4	10.1	14.7	20.1
Inlet/Outlet flange		Rc 1	Rc 1	Rc 1 1/2	Rc 1 1/2	DN 50	DN 50	DN 65	DN 65	DN 80
Seal water connection		Rp 3/8	Rp 3/8	Rp 3/8	Rp 3/8	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4
Approx. block dimensions (LxW xH)	mm	474x187x222	493x187x222	569x229x247	591x229x281	674x314x381	679x314x371	778x315x385	852x350x427	1033x480x522
	in	19x7x9	19x7x9	22x9x10	23x9x11	27x12x15	27x12x15	31x12x15	36x14x17	40x19x21
Dry Weight	kg	31	36	56	60	105	126	149	192	317
	lbs	68	79	123	132	231	278	328	423	699

Performance range (50 Hz)



Performance range (60 Hz)



Atlas Copco AB

www.atlascopco.com/vacuum

