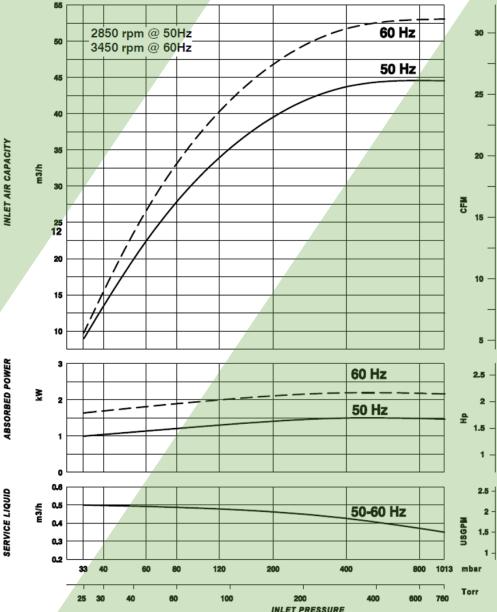




LIQUID RING VACUUM PUMP Model AVM 51

PERFORMANCE FEATURES

- Vary port valve design for optimum efficiency across all inlet pressures.
- Near-isothermal compression to safety handle any thermally sensitive gas.
- Right choice for any wet process.
- High efficiency IE3 motor for EU market
- [fill TR CU 010/2011 certification.
- Motor option for US & Canada market (NEMA-CSA).



NOTES :

The given data are referred to dry air at the temperature of 20°C, at the atmospheric discharge pressure (1013 mbar), and of supply of service water at 15°C temperature. Performances tolerance $\pm 10\%$.

Product specifications and data are subject to change without notice.

LIQUID RING VACUUM PUMP

Model AVM 51



APPLICATIONS

- Vacuum industrial processing
- Sterilization
- Extrusion
- Degassing
- Evaporation and distillation
- Priming
- Vacuum sewage
- Bottling
- Depoultry
- Fish farming

FEATURES

AVM 51 is a simple, compact and reliable liquid ring pump capable to handle almost any gas mixture including vapors in vacuum or overpressure. The operating principle combined to its accurate design allow for severe duty with high tolerance of liquid carry over. The wide range of suction pressure (down to 33 mbar abs) makes the AVM series versatile and suitable for many industrial applications and more. The stainlesssteel port plate and impeller are designed and manufactured with accurate process to reach outstanding and steady performance.

The low operating speed associated with the robust and simplified construction grant long service life with minimal maintenance. AVM 51 is available in standard version or full stainless-steel AISI 316 (wetted parts). Other material options, on request.

MATERIALS OF CONSTRUCTION



#	PART	CS	SS
1	Suction and discharge casing	CAST IRON (ASTM A278 CL.250)	SS 316 (ASTM A351-CF8M)
2	Housing	CAST IRON (ASTM A278 CL.250)	SS 316 (ASTM A351-CF8M)
3	Port plate	SS 316 (ASTM A240)	SS 316 (ASTM A240)
4	Impeller SS 316 (ASTM A351-CF8M)	SS 316 (ASTM A351-CF8M)	
5	Vary port valve	PTFE	PTFE
6	Mechanical seal		CARBON/SIC/ FEP/SS316
7	Gasket	ARAMIDIC FIBER	ARAMIDIC FIBER

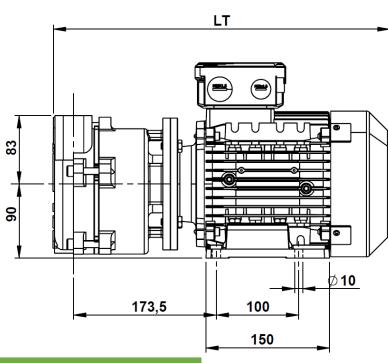
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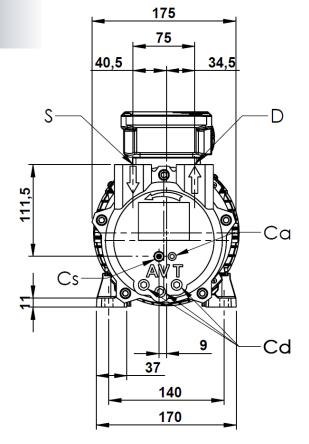
Model AVM 51

LIQUID RING VACUUM PUMP

2D DRAWING



CONNECTIONS				
S	G 1"	Suction		
D	G 1"	Discharge		
Cs	G 1/4"	Service liquid		
Cd	G 1/4"	Pump drain		
Са	G 1/8"	Anti-cavitation		



					Dimensions [mm]
kW	Hz	IEC	RPM	Weight [Kg]	LT
1,5	50	90S	2850	23	409
2,2	60	90L	3450	27	429
		1,5 50	1,5 50 90S	1,5 50 90S 2850	1,5 50 90S 2850 23

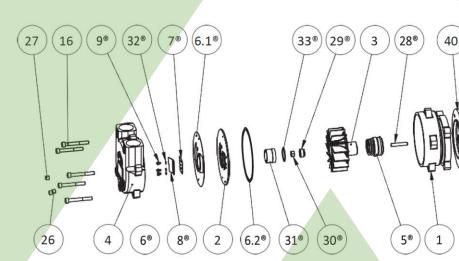
TECHNICAL SPECIFICATIONS

	AVM 51-50	AVM 51-60
Nominal capacity	45 m³/h	53 m³/h
Ultimate pressure	33 mbara	33 mbara
Dry weight	23 kg	27 kg
Max gas temperature	120°C	120°C
Max liquid temperature	50°C	50°C
Casing design pressure	3 barg	3 barg

	AVM 51-50	AVM 51-60
Noise level	72 dBA	72 dBA
Motor power	1,5 kW	2,2 kW
Motor speed	2850 rpm	3450 rpm
Motor type	TEFC	TEFC
Motor efficiency	IE3	IE3
Volt./Ph/Frequency	230-400V/ 3/50Hz	277-480V/ 3/60Hz

Product specifications and data are subject to change without notice

SPARE PARTS AVAILABLE



LIQUID RING VACUUM DUMP Model AVM 51

Pos.	Description	Q.ty
1	Casing	1
2	Port plate	1
3	Impeller	1
4	Suction/discharge casing	1
5 ®	Mechanical seal	1
6.1 ®	Suction/discharge casing-port plate gasket	1
6.2 ®	Casing port plate gasket	1
7 ®	Vari-port valve	1
8 ®	Valve plate	1
9 ®	Screw	2
16	Screw	5
17	Screw	4

Pos.	Description	Q.ty
26	Plug	3
27	Plug	1
28 ®	Stud	1
29 ®	Adjusting nut	1
30 ®	Nut	1
31 ®	Impeller nut	1
32 ®	Washer	2
33 ®	O-Ring	1
35	Electric motor	1

35

0

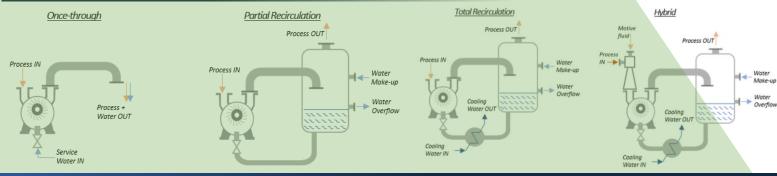
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Repair kit part

OPERATION MODES







Asco Vacuum Technologies

Asco Pompe S.r.l. Via Silvio Pellico, 6/8 20089 Rozzano (MI) – Italy Phone: +39 02 892571 Fax: +39 02 89257201 Mail: <u>info@ascovacuum.com</u> <u>www.ascovacuum.com</u>

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