AlphaDynamic PUMPS

We Make The Difference

ADH

Horizontal Chemical Pump

TÜV NORD CERT Gmbh ISO 9001



ADH Horizontal Centrifugal pumps

www.quantumengineering.be

ADH Horizontal Centrifugal pumps

ADH Series centrifugal pumps with mechanical seal are made of plastic materials (Polypropylene and PVDF) and are suitable for high corrosive liquids. They are operated by a direct-drive motor (max 3000 rpm). Their special open-impeller design allows pumping even with very dirty liquids having apparent viscosity up to 500 cps (at 20°C) and small suspended solids. There are two versions available with different internal mechanical seal depending on use, A (lip seal) and B (bellows seal).

Main Features

- Available in polypropylene, PVDF
- Positive suction head operation
- Mechanical bellows or lip seal
- Usable even with extremely dirty liquids
- Flow rates: from 6 to 75 m3/h
- Head: up to 38 mt
- Quick and easy maintenance
- Economical spares
- Viscosity: up to 500 cps
- Upon request the pump can be supplied with flanges PN10, ANSI 150, JIS

Motors:

IP55 - F Class - 2-pole - 50 Hz - three-phase
Single phase from 0,55 kw to 2,2 kw - 50/60 Hz

Max. operating temperature:

PP: 65°C
PVDF: 95°C

Available Seal:

Type A: Lip Seal VITON or EPDM
Type B: Below seal SILICON CARBIDE+CERAMIC / SILICON CARBIDE+SILICON CARBIDE
Seal o-ring materials: EPDM or VITON

Application sectors

Chemical Industry , Galvanic & electronic Industry, Water Treatment Industry, Automotive



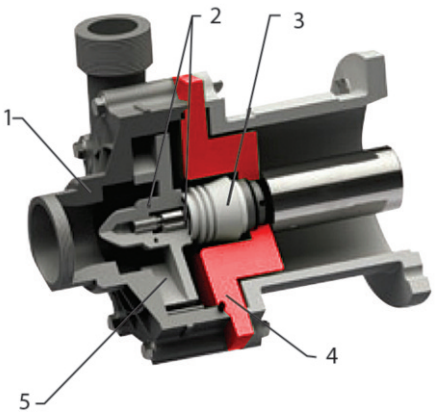
Description of the Pump

Resin-encased horizontal centrifugal pumps feature a solid pump casing and a lantern for connecting the electric motor and inspection of the mechanical seal. The open impeller is fitted to the pump shaft that is integral with the drive shaft of the electric motor. The shaft mechanical seal is housed at the rear of the impeller.

POS	DESCRIPTION	MATERIAL
1	PUMP HEAD	PP or PVDF
2	O-RING	EPDM or VITON
3	MECHANICAL SEAL	Bellow Seal PTFE SIC/CER or SIC/SIC
4	SHAFT	CERAMIC Al_2O_3 99.7%
5	IMPELLER	PP or PVDF

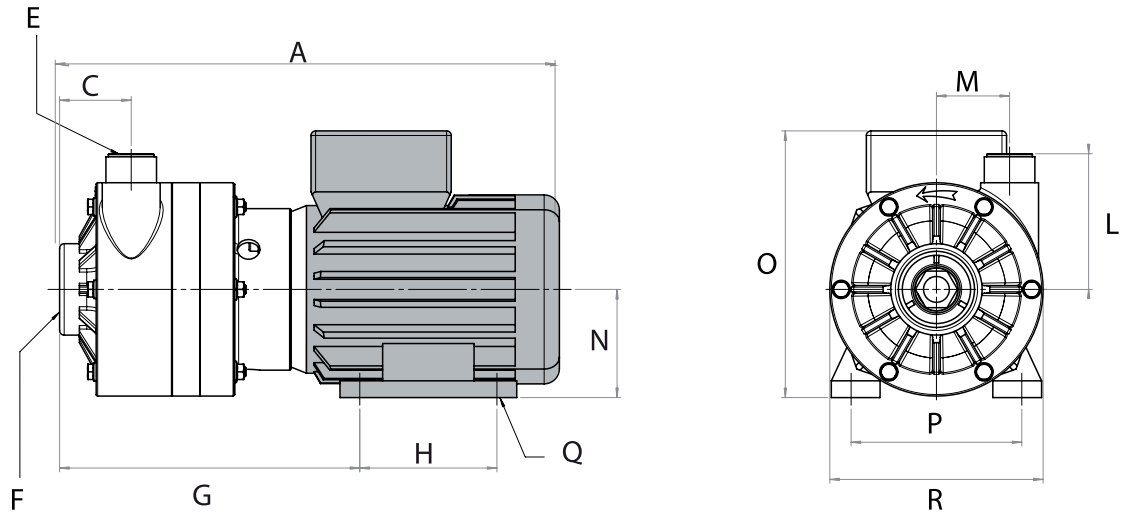
How it works

The impeller is integral with the shaft and direct drive electric motor and is rotated at a preset speed with the centrifugal effect producing suction on the intake side and discharge on the delivery side.



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Dimensions

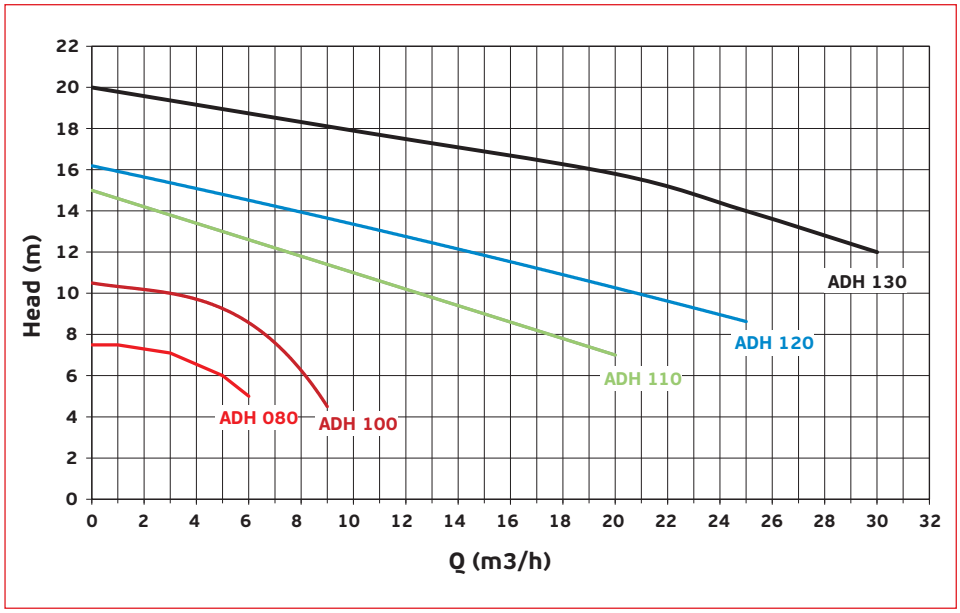


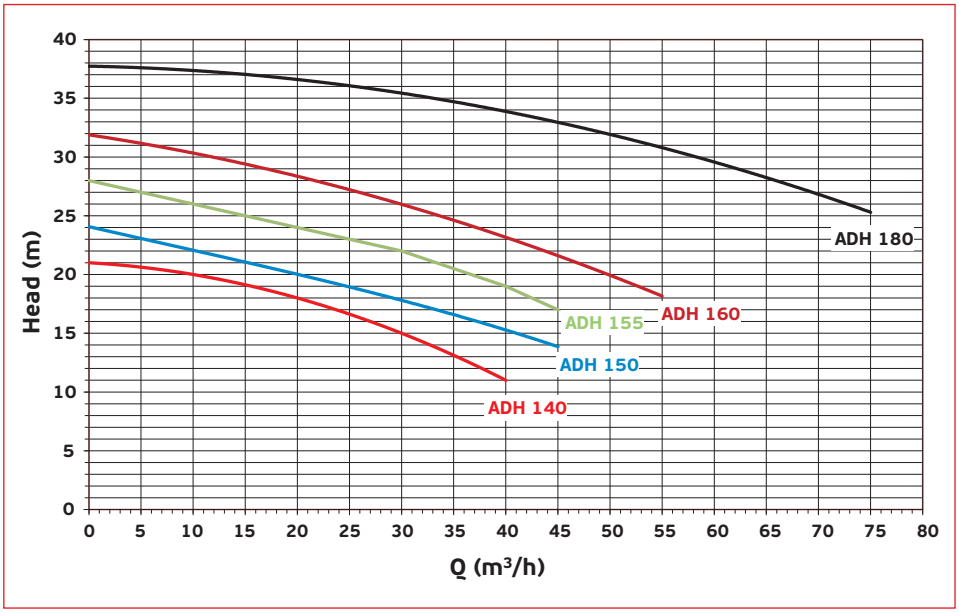
MODEL	A	C	G	H	L	M	N	O	P	R	Q	F	E
ADH080	328	47	197	90	89	48	71	175	112	140	4 X Φ8	1 ½" BSM F	1" BSM M
ADH100	328	47	197	90	89	48	71	175	112	140	4 X Φ8	1 ½" BSM F	1" BSM M
ADH110	406	75	247	100	130	40	80	191	125	203	4 X Φ10	2" BSM F	1 ½" BSM M
ADH120	426	75	257	100	130	40	90	90	210	203	4 X Φ10	2" BSM F	1 ½" BSM M
ADH130	448	75	257	125	130	40	90	210	140	203	4 X Φ10	2" BSM F	1 ½" BSM M
ADH140	505	68	296	140	130	40	100	227	160	203	4 X Φ12	2" BSM F	1 ½" BSM M
ADH150	527	68	300	140	158	96	112	249	190	300	4 X Φ12	2 ½" BSM F	2" BSM M
ADH155	619	68	329	140	158	96	132	312	216	300	4 X Φ12	2 ½" BSM F	2" BSM M
ADH160	645	68	335	140	158	96	132	312	216	300	4 X Φ12	2 ½" BSM F	2" BSM M
ADH180	695	68	335	158	158	96	312	312	216	300	4 X Φ12	2 ½" BSM F	2" BSM M

Pump Models

Type	Motor			Material	Suction Connection	Discharge Connection	Weight Kg			
	HP	Rpm	Size				PP Pump	PVDF Pump	PP with Motor	PVDF with Motor
ADH 080	0.75	2900	71 / B34	PP / PVDF	1 ½" BSM F	1 " BSM M	1.7	2.7	8.5	9.5
ADH 100	0.75	2900	71 / B34	PP / PVDF	1 ½" BSM F	1 " BSM M	1.7	2.7	8.5	9.5
ADH 110	1.5	2900	80 / B35	PP / PVDF	2" BSP M	1 ½" BSP M	3.4	4.4	16	17
ADH 120	2	2900	90 / B35	PP / PVDF	2" BSP M	1 ½" BSP M	3.8	4.8	16	17
ADH 130	3	2900	90 / B35	PP / PVDF	2" BSP M	1 ½" BSP M	3.8	4.8	22.5	23.5
ADH 140	4	2900	100 / B34	PP / PVDF	2" BSP F	1 ½" BSP M	4	5	29	30
ADH 150	5.5	2900	112 / B35	PP / PVDF	2 ½" BSP F	2" BSP M	8	11	44	47
ADH 155	7.5	2900	132 / B35	PP / PVDF	2 ½" BSP F	2" BSP M	9.5	12.5	60	63
ADH 160	10	2900	132 / B35	PP / PVDF	2 ½" BSP F	2" BSP M	9.5	12.5	70	73
ADH 180	15	2900	132 / B35	PP / PVDF	2 ½" BSP F	2" BSP M	9.5	12.5	96	99

Performance curves 2900 Rpm





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