

Supply

Horizontal pressurization pumps > Prism

Prisma 25



Multistage centrifugal pumps in horizontal monobloc designed for pressurizing domestic dwellings, small irrigation and water pumping applications where required clean robust and compact pump.

Especially recommended for potable water applications.

Distinguished by its extremely quiet operation and self-priming capacity up to 2 m, which is increased considerably by the installation of a foot valve.

Its reliability is added to their ability to work on multiple conditions and stresses its support to incorporate ESD module variable speed control to automate its operation with energy saving criteria and system efficiency.

Especially recommended pressure for constant pressurisation.



Features Prisma Series 25:

Equipment

- Foot / Base: Included
- Couplers: Not included
- Drain Plug: Yes
- Valve: No

Electrical characteristics

- Electrical insulation: Type F
- Service factor S1
- Degree of protection: IP44
- Reset: Automatic
- Engine Type: Asynchronous
- Type of motor rotation: Constant Speed

- Type: Continuous

Construction characteristics

- Suction Diameter: 1 "G
- Drive Diameter: 1 "G
- Sealing with: Mechanical seal
- Stages: Multistage Centrifugal Pump
- Engine Cooling: Fan
- Type in the suction connection: Thread
- Connection type Drive: Thread
- Drive type: Closed

Materials

- Mechanical seal Alumina Graphite
- Suction casing: Cast iron GG20
- BODY: cast iron GG20
- Housing: Stainless steel AISI 304
- Diffuser: PPO + 30% GF
- Shaft: stainless steel AISI 420
- Motor casing: Aluminum
- Impeller / s: Stainless steel AISI 304
- Seals: NBR / EPDM
- Foot-base Material: cast iron painted
- Stamp stands: GG20 Cast
- Fasteners: Galvanized steel

Limits of Use

- Maximum drawdown (m): 2
- No maximum engine starts (starts / minute): 0.5
- Maximum operating pressure (bar): 12
- Maximum operating pressure (bar): 6
- Liquid temperature (° C): Min: 4 - Max: 35

Applications



Building Services

- Residential home
 - Pressurization of drinking water Provision
- Residential collective
 - Pressurization of drinking water Provision

- Leisure
Irrigation and landscaping



Services in the primary sector

- Agriculture
Watering gardens
Pressurized irrigation



Services in the secondary sector

- Industry
Water service and treatment



Electrical data:

Single-phase	Phase models	Current [A]		Power consumption P1 [kW]		Motor rating P2		Condenser capacity [uF]
		1 ~ 230V	3 ~ 230/400V	1 ~	3 ~	[KW]	[HP]	
50 Hz	50 Hz							1 ~
2M PRISMA25		4.30		0.90				16µF-450V
3M PRISMA25	PRISMA25 3	5.50	3.5 / 2	1.20	1.00	0.75	1.01	16µF-450V
4M PRISMA25	PRISMA25 4	6.80	4.3/2.5	1.50	1.40	0.92	1.23	16µF-450V
PRISMA25 5M	PRISMA25 5	7.40	5.2 / 3	1.70	1.70	1.10	1.47	25µF-450V
6M PRISMA25	PRISMA25 6	9.80	6.7/3.9	2.20	2.00	1.50	2.01	30µF-450V

Hydraulic data

Single-phase	Phase models	Flow [l / min]	0	10	20	30	40	50	60	70	80	90	100
50 Hz	50 Hz	Flow [m ³ / h]	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
2M PRISMA25		mca	23.0	23.1	22.9	22.5	21.8	20.9	19.7	18.3	16.6	14.7	12.5
3M PRISMA25	PRISMA25 3		34.0	34.1	33.9	33.2	32.1	30.7	28.8	26.5	23.9	20.8	17.4
4M PRISMA25	PRISMA25 4		45.0	44.9	44.4	43.4	42.0	40.2	37.9	35.1	31.9	28.3	24.2
PRISMA25 5M	PRISMA25 5		56.8	56.7	55.9	54.5	52.6	50.1	47.0	43.4	39.1	34.3	28.9
6M PRISMA25	PRISMA25 6		67.5	67.4	66.6	65.1	63.0	60.2	56.8	52.7	47.9	42.5	36.3



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Performance curves:



