

VERTICAL IN-LINE PUMPS



Crompton Greaves Vertical In-Line Pumps are designed and developed for hot and cold water handling and occupy minimum floor space. These are power driven centrifugal monoset pumps.

Features

- Vertical In-line design means minimum space requirement, easy installation with smooth and quite operation.
- These are single stage, single suction monoset pumps and are mounted by their suction and delivery flanges, with additional support, if required.

- Back pull-out design.
- Flange mounted motor ensures easy maintenance.
- TEFC motor with class 'F' insulation and temperature rise restricted to class 'B' for long life.
- Volute and adaptor are fitted with bronze wearing ring for least internal leakage.
- High quality and long life mechanical seal.
- Suitable for 65°C water with standard mechanical seal and 110°C water with special mechanical seal.
- Rust-free bronze impeller.

Applications

- Water circulation for Cooling Towers in Air Conditioning Plants and Cold Storage Plants.
- Hot water handling systems.
- Water supply and circulation for Industrial and Commercial Establishments.
- Water pressure boosting for Industrial and Sprinkler Systems.
- Auxiliary equipment for water circulation
- Irrigation and dewatering Systems.

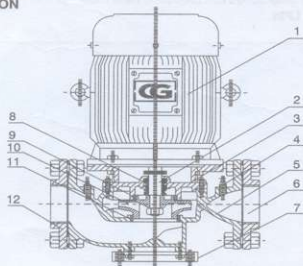
Standard Specifications

- Range :** 0.37kW to 7.5 kW (0.5 HP to 10.0 HP).
- Supply :** 415V, 3 Phase, 50Hz, AC.
- Pipe Size :** 32 x 32 mm to 100 x 100 mm.
- Total head :** Upto 30 metres.
- Capacity :** Upto 1400 LPM.
- Liquid :** Clear water.
- Rotation :** Anti-clockwise as viewed from motor end.
- Operating temperature :** Suitable for 65°C water.

Electric Motor

- TEFC, SCR, 2 Pole (3000 RPM syn. speed), Electric Motor 415 V, 3 phase, 50Hz, AC supply with class 'F' insulation and temperature rise restricted to class 'B', for ambient temperature upto 40°C.
- Special Motors with different enclosures, supply voltage, frequency and ambient temperature can be offered on request.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	-
2	Shaft	Graded Cast Iron
3	Adaptor	Graded Cast Iron
4	Aircock	Brass
5	Volute Casing	Graded Cast Iron
6	Delivery Flange	Graded Cast Iron
7	Base Plate	Graded Cast Iron
8	Mechanical Seal	-
9	Wearing Ring (Adaptor)	Brass
10	Impeller	Graded Cast Iron / Brass
11	Wearing Ring (Volute)	Brass
12	Delivery Flange	Graded Cast Iron

PERFORMANCE CHART

Rating	Pipe size Suc. x Del. (mm)	Motor kW (HP)	Total Head in Metres										
			10	12	14	16	18	20	22	24	26	28	30
			Discharge in LPM										
ILM052/A	32 x 32	0.37 (0.5)	135	105	50								
ILM12/A	40 x 40	0.75 (1.0)	240	215	185	130							
ILM22/A	50 x 50	1.5 (2.0)		400	360	315	250						
ILM32/A	65 x 65	2.2 (3.0)			575	515	440	340					
ILM52/A	80 x 80	3.7 (5.0)					875	800	720	550			
ILM7.52/A	100 x 100	5.5 (7.5)			1300	1260	1200	1110	1000	850			
ILM10.2/A	100 x 100	7.5 (10.0)					1400	1320	1250	1180	1090	1000	900

Notes :-

1. The above performance is based on rated voltage (415+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
2. The above performance is subjected to tolerances as per applicable standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' standard
4. Total Head = Static Suction + Static Delivery + Losses in pipes, bends etc.

