



Technical Catalogue



FCD Series

VERTICAL MULTISTAGE
CENTRIFUGAL PUMP

Introduction

FCD series products adopt non-standard type customized motor through fluid optimization design, and use the combination of pump shaft and motor shaft as the main shaft to connect the impeller, guide vane, mechanical seal and other parts closely.

Beautiful appearance, compact structure, energy saving and high efficiency, stable and reliable.

Pipe connection

- Waist flange connection

Pump material

- Stainless steel (AISI 304)
- Cast iron

Liquid temperature °C

- Liquid temperature -15°C to +70°C

Motor

- Totally enclosed, fan-cooled, 2-pole standard motors
- Enclosure class: IP55
- Insulation class: F
- Voltage: 3x220-240/380-415V
1x220-240V
- Available with single-phase motors (0.37kW-2.2kW)

Performance curves

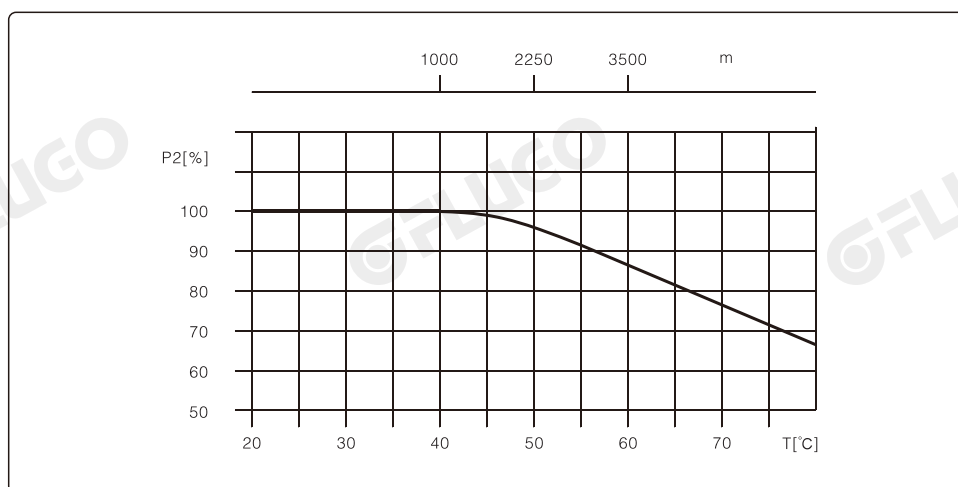
- The motors used for the measurements are based on 2900rpm
- Tolerances to ISO 9906
- Measurements have been made with airless water at a temperature of 20 °C
- The curves apply to the following kinematic viscosity:
= 1 mm²/s
- Select a best efficiency of the pump which is operating within the bold curve of the pump performance.

Pump operating conditions

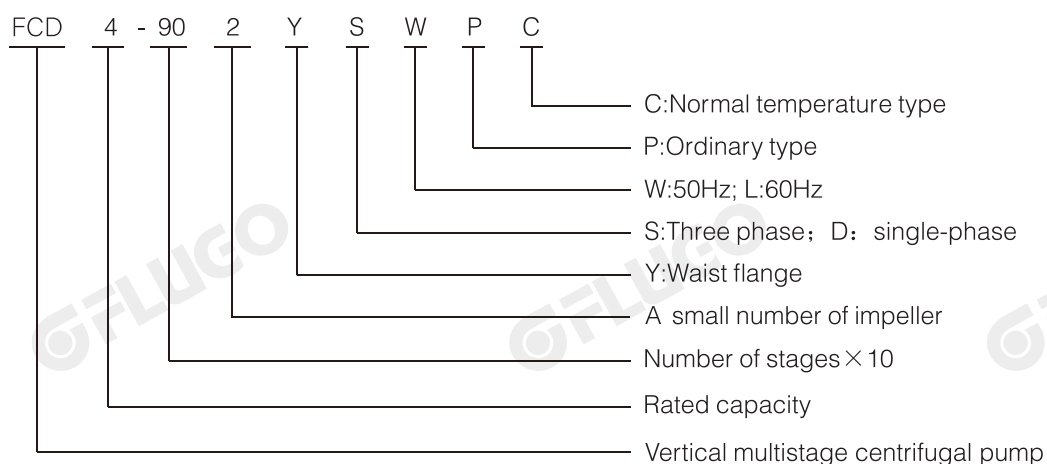
- Pumping liquids which are thin, clean, non-flammable, non-combustible or non-explosive liquids, not containing solid particles or fibers.
- Maximum ambient temperature: +40 °C
- Maximum altitude above sea level: 1000 m

Ambient temperature

If the ambient temperature exceeds the 40 °C or the pump is installed at an altitude exceeding 1000 m, the motor output power P₂ will decrease. In such cases, it is necessary to use a motor with a higher rated output.



Model specification



Applications

Water Supply

- Water plant filtration and delivery
- Water plant zoning delivery
- Main Network Pressurization
- High-rise buildings
- Pressurization of hotels, etc.

Industrial pressurization

- Process water systems
- Cleaning systems
- High-pressure flushing systems
- Fire fighting systems
- Car Washing Equipment

Water Treatment

- Ultrafiltration System
- Reverse Osmosis System
- Distillation System
- Separator
- Swimming Pool

Main structure

FCD main parts parameter table

No.	Part Material	Material	AISI/ASTM
1	Motor	Combination parts	/
2	Mechanical seal	Combination parts	/
3	Guide vane	Stainless Steel	AISI304
4	Support guide vane	Stainless Steel	AISI304
5	Water inlet guide vane	Stainless Steel	AISI304
6	Impeller	Stainless Steel	AISI304
7	Pump shaft	Stainless Steel	AISI304
8	Bearing	Silicon carbide / tungsten carbide	/
9	Outer barrel	Stainless Steel	AISI304
10	Tie rods	Stainless Steel	/
11	Water inlet body	Grey cast iron	ASTM25B
12	Waist flange	Ductile Iron	ASTMA536 65-45 12



FCD Series - Vertical Multistage Centrifugal Pump

Authorized Distributor