

Flygt PP 4220

HIGH-EFFICIENCY ULTRA-LOW-HEAD PROPELLER PUMP

The Flygt PP 4220 offers new levels of ultra-low-head pumping performance. This advanced pump offers dramatic savings in power consumption, and unprecedented control and communications capabilities thanks to the permanent magnet motor and integrated power electronics that come standard in the Flygt Dirigo™ technology platform.

Deliver up to 40% in energy savings

Thanks to the high efficiency IE4 equivalent motor, integrated power electronics, and optimized propeller design, the Flygt PP 4220 minimizes energy costs at a wide range of duty points. Even bigger savings can be realized by changing the pump curve to match changing conditions.

Simplify Installation and Setup

Flygt PP 4220 provides all the benefits of variable speed operation without the need to install an external variable speed drive, or the need to program an external drive to work with the pump.

Improve process flexibility

Put yourself in control and adapt the pump's performance to changing conditions to secure process and pumping results. Operate the Flygt PP 4220 with a user-friendly operator panel or remotely via a plant-wide SCADA system.

Enhanced reliability

Built-in motor control including overload protection together with full set of operation statistics, such as speed, power, alarms, and running time, secures reliable pumping operation. Automatic rotation direction control, and a setup wizard for quick and simple start of the integrated and pre-engineered drive and motor system, virtually eliminates installation mistakes.

Reduced inventory

Flygt PP 4220 with its duty field offers a much wider performance range as compared to conventional pumps with their single pump curve, and thereby reduces required capital investment in spares or back-up pumps.



FLYGT
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Flygt PP 4220

Submersible propeller pump with adjustable speed and integrated motor control. Intended for ultra-low head, high flow pumping in wastewater and similar application containing fibres and solids.

Motor data

Type	Synchronous permanent magnet motor
Efficiency	IE4 level according to IEC/TS 60034-30-2 Ed. 1
Frequency	50-60 Hz
Voltage	380-480 V
Speed, max	800 rpm
Insulation class	H 356°F

Materials

Wetted metal parts	ASTM 316L
Propeller shaft	ASTM/AISI 431
Oil	Paraffin oil ISO VG32
O-rings	Fluorinated rubber

Cable

Screened Flygt SUBCAB® with integrated control leads 30 or 60 ft

Weight and dimensions

Weight, max	231 lb
Length, excl. guide bracket	23 in.
Propeller diameter	14.5 in.

Installation

Double guide bar	Diameter: 2 in.
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Application data

Liquid temperature, max	104°F
Liquid density, max	9.2 lb per US gal
pH-range of mixed liquid	1-12
Depth of immersion, max	65 ft

Approvals

CE, CSA, UL

Gateway - FPG 415

The gateway enables monitoring and control of pump performance and status, including speed, power, alarms, running time and energy consumption, via operator panel or remote communications.

Communication	Modbus RTU / TCP, 4-20 mA
Standard Input/Output Ports	4 × DO, 4 × DI, 1 × AO, 1 × AI
Environment class	USB, RS485, Ethernet, operator panel, mixer
Power supply	IP 20, operation temperature -4°F to 149°F
Size (W×L×H)	24 VDC
Approvals	1.77 x 3.94 x 3.94 in., DIN mount
	CE, UL, CSA, RCM

Jog wheel operator panel - FOP 315

Screen	3.5" monochrome LCD
Environment class	Handheld: IP 20
	Door mount. Front: IP 54; Back: IP21
	Operation temp: -4°F to 158°F
Power supply	24 VDC
Size (W×L×H)	8.07 x 1.30 x 4.33 in., DIN mount
Approvals	CE, UL

Touch screen operator panel - FOP 402

Screen	7" color touch screen
Environment class	Front: IP65; Back: IP20
	Operation temp: -4°F to 140°F
Power supply	24 VDC
Size (W×L×H)	7.76 x 1.65 x 5.51 in.
Approvals	CE, UL



FPG 415



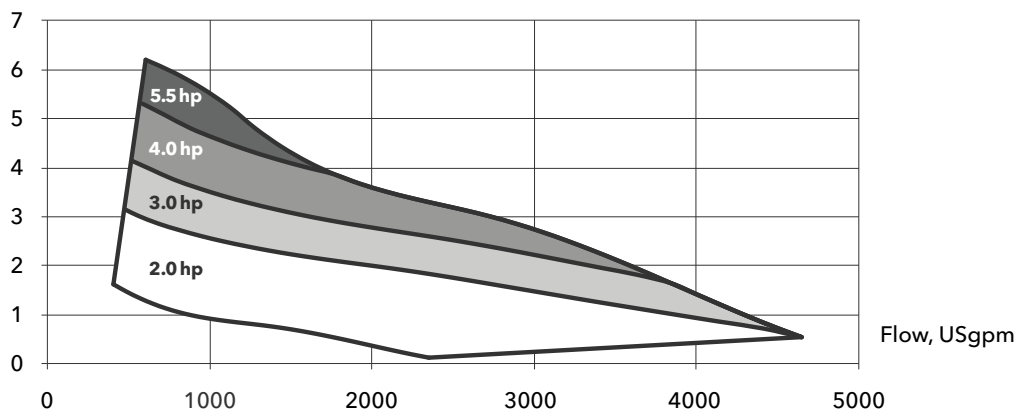
FOP 315



FOP 402

Performance

Head, feet



xylem
Let's Solve Water

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