xylem
Let's Solve Water

Aquavar® IPC

VARIABLE SPEED CONTROLLER

WITH OPTIONAL NEMA 3R STEEL ENCLOSURE

CentriPro
a xylem brand

BRENCAQIPC

Aquavar IPC Variable Speed Controller

Brings the latest in pump drive technology and programming. The drive and interface are designed to give you advanced capabilities that help you effectively and efficiently operate your system. Package an Aquavar IPC in a NEMA 3R steel enclosure for even greater benefits while serving more applications.

The Aquavar IPC in a NEMA 3R Steel Enclosure provides:

- **Protection from the elements** – An enclosed cabinet keeps components out of direct contact with the elements, allowing the Aquavar IPC to be used in a broader range of geographical regions and applications.
- **Security and peace of mind to installation site** – A lockable cabinet protects the equipment inside from being easily exposed to damage.
- **Easy programming accessibility** – The panel provides quick and easy access to the Start-Up Genie from the outside of the cabinet.

Benefits of the Aquavar IPC

Optimized for pumps

- Wide range of standard and permanent magnet motors with power up to 90kw/600hp
- Developed by pump experts and optimized for controlling pumps
- Submersible and above ground applications

Quick set up and ease of use

- Easier start-up and programming with Start-Up Genie
- Two wire multi-pump connection for faster installation
- Hand on, Off, and Auto-On buttons available for easy pump operation at the keypad. No toggling between local and remote operation

Helping to improve your performance

- Multipump configuration for up to four (4) pumps – no need for PLC
- System redundancy with multi-master control in case of system failure

It's an easy start with the Aquavar Genie

The Aquavar Controller Genie quickly and easily guides you through setup in as little as 15 minutes. Asking for only the required parameters, the Genie will automatically configure your set up to the optimal settings for the specific application - eliminating the guesswork in set up. The Aquavar controller can be further customized through the Genie for those applications with pump protections, I/O options, and multipump operation to get your pump system working just the way you need.

Energy savings potential

There are significant opportunities to reduce a pumping system's energy consumption such as through smart hydraulic system design, retrofitting for variable speed performance and operating practices. To build and operate an efficient water system, you need both the right products and experts who know the application. Aquavar IPC has been designed by Xylem's engineers with these things in mind and with the help of the Aquavar variable speed controller, you can optimize your pump operations and reduce your energy costs by as much as 70% vs. fixed speed.

Standard for every drive

- Wide range of voltage and enclosure options
- True 208V coverage
- Dedicated single phase input
- Remote commissioning and monitoring with USB connectivity and software
- In-panel or handheld keypad with backlit display
- Alarm Log for last 5 alarms and maintenance events
- EMC/RFI filters and Dual DC-link reactors to reduce drive noise emissions and interference
- I/O expansion cards, factory installed or field configured

NEMA 3R ENCLOSURES INCLUDE:

- Aquavar IPC
- Disconnect
- Fuses
- Fans
- Thermostat
- Air filters
- Rain hoods
- Keypad mounted on the door with lockable clear cover
- Three-position switch for dual setpoints and start command
- Leg kit included on units 150 hp and larger

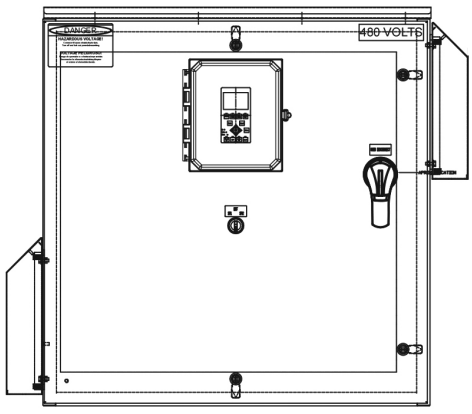
SPECIFICATIONS

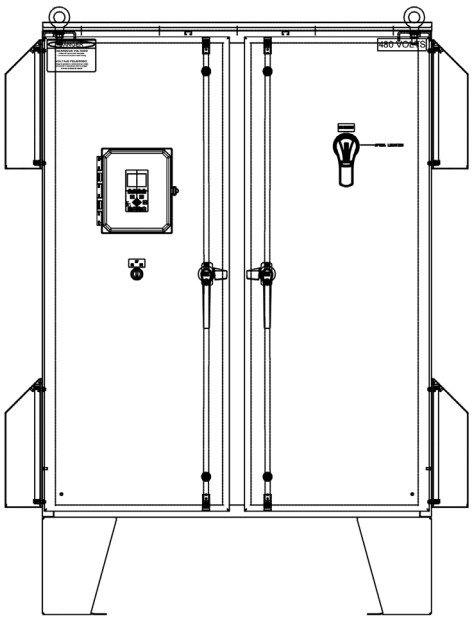
Outdoor enclosures	NEMA 3R steel enclosure is in addition to the NEMA 3R rated IPC	
Input supply	1.5 – 600 hp (frame A – D) wall mounted up to 125 hp, 12" legs included on 150 hp and larger	
Ambient temperature	14° F – 113° F (-10°C - 45°C). Higher temperatures can be achieved by derating the output amperage of the drive 10% for up to 122° F (50°C).	
Communication	Modbus® RTU, Metasys N2, FLN, and BACnet standard. Others available with option cards	
Altitudes	At altitudes from 0 to 3300 feet (0 to 1000 meters) nameplate rated current is available. Derate for altitudes above 3300 feet (1000 meters) with a maximum operating altitude of 9900 feet (3000 meters). Consult factory for applications above 9900 feet (3000 meters)	
Relative humidity	Lower than 95% without condensation	
Electrical – input power	1 phase 200 V to 240 V ±10% 3 phase 380 V to 480 V ±10% 3 phase 200 V to 240 V ±10%	3 phase 525 V to 600 V ±10% Frequency 50 or 60 Hz, ±2Hz
Electrical – output power	3 phase from 0 to V supply	

NEMA 3R Steel Cabinet Sizes

Size	HP Range	Dimensions	HP Range	Dimensions	HP Range	Dimensions
1 phase 200 to 240V	2 - 7.5 hp	24x24x12	10 - 20 hp	36x36x16	30 hp	48x36x16
3 phase 200 to 240V	1.5 - 15 hp	24x24x12	20 - 40 hp	36x36x16	50 - 60 hp	48x36x16
3 phase 380 to 480V	1.5 -25 hp	24x24x12	30 - 75 hp	36x36x16	100 - 125 hp	48x36x16
	150 - 250 hp	60x48x18	300 - 450 hp	72x60x24	500 - 600 hp	90x72x36
3 phase 525 to 600V	1.5 - 25 hp	24x24x12	30 - 75 hp	36x36x16	100 - 125 hp	48x36x16
	150 - 200 hp	60x48x18	250 - 400 hp	72x60x24	450 - 600 hp	90x72x36

Sample drawings





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