



Aquavar IPC

INTELLIGENT PUMP CONTROLLER

Aquavar IPC

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.

Optimized for Pumps.

Multipump operation without PLC for up to 4 pumps

Quick set up and ease of use.

Quick start-up for fast and simplified programming

Removable, graphical keypad with backlit display

USB Connectivity - Remotely commission and monitor through PC software

Performance and Flexibility.

Modbus and BACnet as standard

Wide range of power size, voltage and enclosure options

EMC/RFI and harmonics filters designed to reduce drive noise emissions and interference to strict standards



Control offering as standard.

Multi-pump capability comes as standard from 1 to 4 pumps

Constant pressure

Constant flow

Friction losses compensation

Complete set of programmable analog and digital inputs/outputs

Pipe-filling

Auto change-over and working hour balancing

Complete set of built-in protections for pump and system

It's an easy start with the Aquavar Smart Start.

The Aquavar is equipped with Smart Start that quickly and easily guides you through setup. The Smart Start menu 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 for those applications with pump protections, I/O options, and multi-pump operation to get your pump system working just the way you need.



Energy Savings Potential.

Energy is the largest cost of running any pump, with the biggest potential savings. Aquavar IPC works with your system to make it efficient. This intelligent variable speed drive controls the pump exactly according to the current requirements of the user. Compared to an unregulated system, it can save up to 70% of the energy consumption. The smooth regulation at optimal operation increases not only the efficiency but also the life of the system's components and reduces maintenance costs.

Retrofitting.

Retrofitting the units to a fixed speed booster set not only eliminates the need for a control panel but also introduces a soft start function, that when combined with the benefits of running a pump at a variable speed, can prolong the life of the pump and the water system. By reducing the in-rush current when the pump is turned on, parts such as motor bearings and pipe fittings are protected from hydraulic shock that can cause cavitation and breakdown.

Ecodesign Directive.

The combined power drive system of Aquavar with a Lowara IE3 pump motor has achieved the highest IES class, IES2, according to IEC 61800-9-2. It's designed to work as a complete, integrated solution – so you can meet energy and operating efficiency goals today and tomorrow.

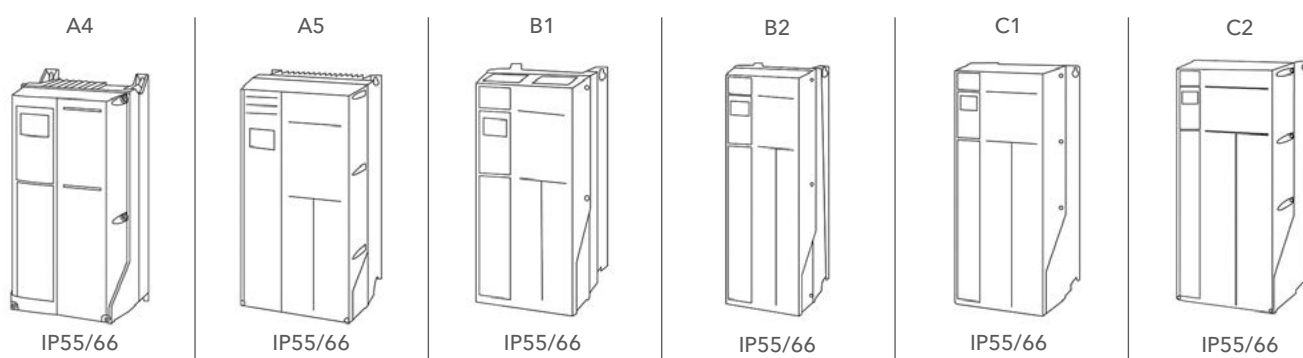


Specifications.

Enclosure rate	IP55, IP66		
Input supply	1,1 - 90 kW (frame A - C) wall mounted		
Ambient temperature*	-10°C to 50°C		
Communication	Modbus® RTU and BACnet MS/TP standard. For other communication protocols or for more info contact your sales reference person		
Electrical - input power	3 phase 380 V to 480 V $\pm 10\%$ 3 phase 200 V to 240 V $\pm 10\%$ 3 phase 525 V to 600 V $\pm 10\%$ 3 phase 525 V to 690 V $\pm 10\%$		

* working limits can vary according to the size of the unit

Dimensions.



Dimensions [mm].

	Frame Size							
	A4	A5	B1	B2	B3	B4	C1	C2
Height	390	420	480	650	399	520	680	770
Width	200		242		165	230	308	370
Depth	175	200	260		249	242	310	335
Height+					475	670		
Width+					165	255		

Note: Height and weight dimensions are with back-plate. Dimensions can vary according to selected options.

Current and Power Ratings.

kW	380 - 480 V				525 - 600 V				525 - 690 V				3x200 - 240 V			
	Amp.		Frame		Amp.		Frame		Amp.		Frame		Amp.		Frame	
	≤440 V	>440 V	IP55	IP66	≤550 V	>550 V	IP55	IP66	550 V	690 V	IP55	IP66		IP55	IP66	
1.1	3	2.7			2.6	2.4							6.6			
1.5	4.1	3.4			2.9	2.7							7.5	A4	A4	
2.2	5.6	4.8	A4	A4	4.1	3.9	A5	A5					10.6			
3	7.2	6.3			5.2	4.9							12.5	A5	A5	
3.7													16.7			
4	10	8.2	A4	A4	6.4	6.1										
5.5	13	11	A5	A5	9.5	9	A5	A5					24.2			
7.5	16	14.5			11.5	11							30.8	B1	B1	
11	24	21			19	18			14	13			46.2			
15	32	27	B1	B1	23	22	B1	B1	19	18			59.4	B2	B2	
18	37.5	34			28	27			23	22	B2		74.8			
22	44	40	B2	B2	36	34	B2	B2	28	27			88	C1	C1	
30	61	52			43	41			36	34			115			
37	73	65			54	52			43	41			143	C2	C2	
45	90	80	C1	C1	65	62	C1	C1	54	52			170			
55	106	105			87	83			65	62	C2					
75	147	130			105	100			87	83						
90	177	160	C2	C2	137	131	C2	C2	105	100						

Other codes available on request - please contact your Xylem reference.