

AQUAVAR IPC Enclosure

One of the advantages of the AQUAVAR Intelligent Pump Controller (IPC) is the flexibility to use the drive in many different applications. Whether it is a borehole application requiring outdoor enclosure or surface mount pump and motor requiring a drive to withstand corrosive environment, the IPC has the right solution. Each drive enclosure is constructed to provide a different degree of protection to personnel against access to hazardous parts. The following table is meant to serve as a quick reference tool to easily compare and contrast different types of enclosures as well as to provide some general applications to help specify selection.



A FRAME IP20 B/C FRAME IP20

Enclosure Options (IP Rating)	(IP 20) CHASSIS	NEMA 1	NEMA 12	NEMA 3R	NEMA 4X
Frame Size Options	A2, A3, B3, B4, C3, C4	A2, A3, B1, B2, C1, C2	A5, B1, B2, C1, C2	A5, B1, B2, C1, C2	A5, B1, B2, C2
Location for Use	Indoor	Indoor	Indoor	Indoor/Outdoor*	Indoor/Outdoor*
Enclosure Provides Protection Against	No environmental protection	Ingress of solid foreign objects (falling dirt)	Ingress of solid foreign objects (falling dirt, circulating dust, lint, fibers and flyings)	Ingress of solid foreign objects (falling dirt)	Ingress of solid foreign objects (windblown dust)
			Ingress of water (dripping and splashing water).	Ingress of water (water, rain, sleet, snow) Will be undamaged by external formation of ice.	Ingress of water (water, rain, sleet, snow, splashing water, hose directed water) Corrosion, and external formation of ice.

Enclosure Options (IP Rating)	(IP 20) CHASSIS	NEMA 1	NEMA 12	NEMA 3R	NEMA 4X
Frame Size Options	A2, A3, B3, B4, C3, C4	A2, A3, B1, B2, C1, C2	A5, B1, B2, C1, C2	A5, B1, B2, C1, C2	A5, B1, B2, C2
Location for Use	Indoor	Indoor	Indoor	Indoor/Outdoor*	Indoor/Outdoor*
Enclosure Material	A Frame: Plastic PC/GF 10: Spec LEXAN 500R	A Frame: Plastic PC/GF 10: Spec LEXAN 500R	A Frame: Plastic PC/GF 10: Spec LEXAN 500R	A Frame: Plastic PC/GF 10: Spec LEXAN 500R	A Frame: Plastic PC/GF 10: Spec LEXAN 500R, with coated heat sinks
	B Frame: B3: Plastic PC/GF 10 B4: Metal, Extruded Aluminum profiles (Anodized alloy)	B Frame: Plastic PC/ABS: Spec Bayblend	B Frame: Plastic PC/ABS: Spec Bayblend. Metal, casted & painted Aluminum	B Frame: Plastic PC/ABS: Spec Bayblend. Metal, casted & painted Aluminum	B Frame: Plastic PC/ABS: Spec Bayblend. Metal, casted & painted Aluminum, and coated heat sinks
	C Frame: Metal, Extruded Aluminum profiles (Anodized alloy)	C Frame Plastic PC/ABS: Spec Bayblend	C Frame: Plastic PC/ABS: Spec Bayblend. Metal, casted & painted Aluminum	C Frame: Plastic PC/ABS: Spec Bayblend. Metal, casted & painted Aluminum	C Frame: Plastic PC/ABS: Spec Bayblend. Metal, casted & painted Aluminum, and coated heat sinks
Backplate Required when drive is not mounted against a flat surface, panel or wall	Backplate comes standard on all frame sizes	Backplate comes standard on all frame sizes	Backplate comes standard on all frame sizes	Backplate comes standard on all frame sizes	Separate stainless steel backplate required when drive is not mounted against a flat surface**
Applications	IP20 drives are designed to be installed in a separate enclosure	Water Supply	Dusty conditions	Irrigation	Irrigation
		Pressure Boosting	HVAC	Roof Top Units	Pump Stations
	OEM	General Industry	Food & Beverage	Cooling towers	Cooling towers
	Booster	RO and Filtration	Industrial	Bore-Hole Wells	Coastal Applications
	Municipal	Food & Beverage	Water Parks	Open mechanical rooms	Lift stations
	Manufacturing	Other indoor applications	Car Wash	Other outdoor applications	Other outdoor applications

* For outdoor mounted enclosures we recommend using the Weather Shield (Orderd separately). Part #9k655

** For NEMA 4X: A5 Frame # 9K724 and B2 Frame 9K726



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