WHITE KNIGHT®

engineer approved™

Aquarius Ordering Instructions

Configuration

Options in the example are **highlighted** below.

Required | *Optional*

ECDI - 100 - 3B - V - P252

0 Model | 1 Wattage | 2 Internals | 3 Voltage | 4 Options/Package

Configuration Options

0. Model *See wattage, internals, and voltage compatibility.*	
DI Aquarius Standard flow thru without pump or valve	DI
DI Aquarius-ECO Internal recirculation with pump and valve	**ECDI**

1. Wattages	
40 kW	40
80 kW	80
100 kW	**100**
120 kW	120
140 kW	140
160 kW	160
200 kW	200
225 kW	225

2. Internals	
110 mm dia. modules 3/4-in Tube plumbing 3/4-in FNPT I/O fittings	2A
160 mm dia. modules 32 mm Pipe plumbing 1-in FNPT I/O fittings	**3B**
160 mm modules 40 mm Pipe Plumbing 40 mm BCF I/O fittings	3G

3. Voltages	
208 VAC, 3-PH	N
220 VAC, 3-PH	O
380 VAC, 3-PH	R
400 VAC, 3-PH	W
415 VAC, 3-PH	S
440 VAC, 3-PH	T
480 VAC, 3-PH	**V**

*More wattage and voltage options available at request.

Wattage, Internals, and Voltage Compatability in DI (✓) and ECDI (✓)

Internals	kW	Voltages						
		N	O	R	W	S	T	V
2A	40	✓	✓	✓	✓	✓	✓	-
	80	✓	✓	✓✓	✓✓	✓✓	✓✓	-
3B	100	✓	✓	✓✓	✓✓	✓✓	✓✓	-
	120	✓	✓	✓✓	✓✓	✓✓	✓✓	-
	140	-	-	✓	✓	✓	✓	-
	160	-	-	✓✓	✓✓	✓✓	✓✓	-
3G	200	-	-	✓	✓	✓	✓	-
	225	-	-	-	-	-	-	✓

Cabinet Widths (in.)

kW	DI		ECDI
	Voltages		
	N, O	R, S, T, U, V, W	
40	24	24	-
80	32	24	32
100	39	32	39
120	39	32	39
140	-	32	-
160	-	32	39
200	-	39	-
225	-	39	-

*Cabinet Heights: 77 1/4-in,
*Cabinet Depths: 23 13/16-in

4. Options Or Package

*Add options sequentially, e.g. "**4A - 5A**".*
*Use Package when more than two options are desired, e.g. "**4A - 5A - 25**" = "**P238**".*
More options and packages are available at request.

Options	
01	Auto-purge
02	Resistivity sensor
4A	Leak sensor (signal only)
5A	Discrete communication with 25-ft cable
6A	Analog communication with 25-ft cable
7A	Dry contact communication with 25-ft cable
11	Lock-out tag-out fusible disconnect connected to back of unit
25	Encapsulated ground wire

Package	Options			
P238	4A	5A	25	-
P239	4A	6A	25	-
P240	4A	7A	25	-
P241	4A	11	25	-
P242	5A	6A	25	-
P243	5A	7A	25	-
P244	5A	11	25	-
P245	6A	7A	25	-
P246	6A	11	25	-
P247	7A	11	25	-
P248	4A	5A	6A	25
P249	4A	5A	7A	25
P250	4A	5A	11	25

P251	4A	6A	7A	25	-	-
P252	4A	6A	11	25	-	-
P253	4A	7A	11	25	-	-
P254	5A	6A	7A	25	-	-
P255	5A	6A	11	25	-	-
P256	6A	7A	11	25	-	-
P257	4A	5A	6A	7A	25	-
P258	4A	5A	6A	11	25	-
P259	4A	5A	7A	11	25	-
P260	4A	6A	7A	11	25	-
P261	5A	6A	7A	11	25	-
P262	4A	5A	6A	7A	11	25

Standard Communications:
Ethernet (read/write) with 25-ft cable

Standard Safeties:

- Over-temperature safety interlocks
- Ground wire safety interlock
- Ground fault circuit interrupter
- Built-in safety PLC
- Liquid-level safety interlock
- High-pressure safety interlock
- Minimum flow safety interlock
- Process high-limit safety interlock
- Sensor failure/disconnect safety interlock
- Emergency-off button safety interlock
- Thermal cut-off protection on each heating module
- Door safety interlock
- Audio buzzer
- Power-to-flow® plus control safety interlock

Additional Configuration Example:

Configuration	Model	Wattage	Internals	Voltage	Options / Package
DI-120-3B-S-4A-6A	**DI -** Standard flow thru without pump or valve	**120 -** 120 kW	**3B -** 160 mm dia. modules 32 mm Pipe plumbing 1-in FNPT I/O fittings	**R -** 380 VAC, 3-PH.	**4A -** Leak Detect (signal only) **6A -** Analog communication with 25-ft cable

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Communication Interface Notes:

Discrete Communication Signals
- Remote EMO
- Remote Standby / Active
- Remote Alarm Reset
- Remote Purge (If Auto Purge Option selected)
- Purge Status (If Auto Purge Option selected)
- Critical Alarm Status
- Non-Critical Alarm Status
- Temperature Ready Dead Band Signal
- 25-ft Interface cable

Analog Communication Signals
- Remote Temperature Set Point (4-20mA = 0.0-95.0C) (Signal In)
- Process Temperature Retransmit (4-20mA = 0.0-100.0C) (Signal Out)
- Flow Rate Retransmit (4-20mA = dependent on plumbing size) (Signal Out)
- 25-ft Interface cable

Dry Contact Communication Signals

**All has signal inversion capability*
- Active Mode
- Thermal Fuse Alarm
- High Limit Alarm
- Open Sensor Alarm
- Low Level Alarm
- High Temperature Alarm
- Low Temperature Alarm
- High Flow Alarm
- Low Flow Alarm
- High Pressure Alarm
- Low Pressure Alarm
- GFCI Alarm
- Temperature Ready Dead Band Signal
- Main Alarm (Critical and Non-Critical Alarm)
- Water Leak Alarm (If Water Leak Option selected)
- 25-ft Interface cable

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