

## Single Boiler Controller



AQUATRAC™ - The Leader in Technology by Design

**A Powerful Controller with Compact Design**  
Integrating built-in diagnostics with real-time monitoring in a compact design.

AQUATRAC's microFLEX single boiler controller is the perfect economical solution that provides the latest in water management technology.



Sensor Included

### Standard Features

- Boiler Conductivity Input
- Single Water Meter Input
- Boiler Status Input
- Chemical Relay Timer
- 5 Key Universal Keypad
- 2 Line, 16 Character Backlit Display
- Blowdown Relay (motorized ball valve or solenoid valve)

### MicroFlex Advantages & Benefits

- **Selectable Chemical Feed Mode:**  
*Provides 3 feed modes; feed on volume, blowdown & feed and percentage time.*
- **Conductivity Control:**  
*Can be programmed using timed sampling or continuous blowdown.*
- **Water Meter Input:**  
*Allows for chemical to be fed based on water volume versus timed pump control methods generally found on comparably priced controllers.*
- **What and Why Information:**  
*On the controller display is a valuable troubleshooting tool. Blowdown valve and chemical pump relays show complete status. Shows WHY the relay is on/off.*
- **Single Point Calibration:**  
*For ease of start up and operation. Warning message immediately detects fouled or faulty sensors.*
- **Controller Run Time:**  
*Gives total hours per day and total operating days since initial installation.*
- **Robust Diagnostics:**  
*Provide complete 24 hour history of blowdown valve operation and chemical relay timing intervals.*
- **Keypad Password:**  
*Eliminates unauthorized adjustments.*
- **Communication Options:**  
*Include Ethernet networking, dry contact alarm relay or 4-20mA output on conductivity.*
- **Optional Web Browser User Interface with Networking Capability:**  
*Provides ability to direct connect to the controller from a portable workstation, such as a laptop computer. Can also view critical processes remotely through the use of a LAN. View our live demo at <http://66.146.13.223>.*

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### Specifications

Rating—Detail		Notes
<b>Analog-Digital I/O</b>		
Conductivity Sensor	Auto ranging from 100uS to 10,000uS, rated 250psi	Single point calibration
Water Meter Input	400Hz, 0,5mA @5VDC measurement current	Accepts paddlewheel or contacting head
Relay Outputs	1 SPST (Chemical feed), 1 SPDT (Bleed)	Powers both solenoids & motorized valves
4-20mA Output (optional)	Single DC isolated, loop powered	User definable span, alarms on open loop
Alarm Relay (optional)	500mA @ 24VDC dry contact set, un-fused	Normally closed contact, open on alarm
<b>Communications User Interface</b>		
Keypad—LCD	5 key tactile feedback, universal characters	Scan rate 100 mS nominal
	2 line x 16 character, backlit	User adjustable contrast
10Base T, TCP/IP Ethernet LAN (optional)	HTML, Micro Web Server with user definable IP address	Static IP
		Browser shows controller in real time
<b>Controls</b>		
Relay ON/OFF	Captured sample & ON/OFF control	Relay 1 chemical feed, Relay 2 bleed valve
Volumetric	User set, measure volume & pump on time	
Interlocking	Contact set input	Blowdown & feed stop
Alarms—Feed limit timer	Minutes per day	Auto-reset @ midnight
<b>System</b>		
Electrical	120VAC, 60 Hz	
Fusing	5 Amps @ 120VAC	
Surge Suppression	Relay 2 N.O. contacts snubbed @ 0.1uF, 150 ohm	Varistor on AC line input
Accessory Power	15-22VDC, Unregulated, Thermally Fused @ 50mA	
Enclosure	Non-metallic, NEMA4X	5.9"W x 5.9"H x 3.5"D (150mm W x 150mm H x 90mm D)
<b>Certifications</b>		
CSA: Pending		CSA tested to comply with UL, (Pending)

#### BB-IN Single Boiler Conductivity Control & Timed Chemical Feed

Timed sampling boiler blowdown conductivity control, feed water meter

- CL 4-20mA Out on Conductivity \***  
Fully isolated output, loop powered. Keypad adjustable 4-20mA levels
- LB Ethernet Networking \***
- AR Alarm Contact \***

\* Select only one communication option, LB, CL or AR. If desired. Communications options can not be combined.

M2B-BB-IN-CL