

FLECK 2510

FEATURING AiQ CONTROLLER & POWERHEAD

2510



IT'S EASIER THAN EVER TO MEET YOUR NEEDS

The Pentair Fleck AiQ Powerhead sets a new industry benchmark with its modern design and innovative features – leaving traditional valves behind. Experience effortless installation and setup with our intuitive controller interface, ensuring simple and efficient programming whether on-board, or via USB port. Maintenance has never been easier, thanks to the modular design that reduces powerhead teardown steps saving you time and effort.

FEATURES		BENEFITS
Lightweight and compact	→	Easier to handle, ship, and store
Modular powerhead design	→	Simple 4-step process to install and teardown
Backplate hook	→	Convenient place to rest the cover during service or installation
Easy grip handle	→	Straightforward handling of the powerhead during installation or maintenance
Full-color display with quick start menu	→	Easy to read and fast to configure
Benchtop programming	→	Program before installation using just the controller
Efficient data transfer and custom programming	→	The USB-C port facilitates programming, data transfer, usage history retrieval, software updates, diagnostics, and troubleshooting
Intuitive menu structure	→	Precise terminology and logical navigation
Flash programming	→	Efficiently program multiple valves with pre-defined configurations or water-specific profiles using simple Excel files
Field-updateable controller	→	Keep systems current without replacing hardware
Modern and functional design with enhanced visibility	→	Clear status indicator with a multi-angle wrap-around light bar
Customizable support information via USB-C	→	Add a custom logo and contact info to the display
Meets environmental ratings (NEMA3R/IP54)	→	Reliable performance in harsh environments, outdoors or wet conditions

Visit pentair.com/aiq to learn more

FLECK 2510 SPECIFICATIONS

VALVE SPECIFICATIONS

Valve Material	Fiber-reinforced polymer
Inlet/Outlet	3/4", 1", or 1 1/4" NPT, BSP, Sweat
Cycles	3 or 5

FLOW RATES (50 PSI INLET) – VALVE ALONE

Continuous 15 psi (1.0 bar) drop	19 GPM (4.3 m ³ /h)
Peak 25 psi (1.7 bar) drop	24 GPM (5.5 m ³ /h)
CV flow at 1 psi drop	4.8
Max. Backwash 25 psi (1.7 bar) drop	17 GPM (3.9 m ³ /h)

REGENERATION

Downflow/Upflow	Downflow only
Adjustable Cycles	Yes
Timers Available	
AiQ/NXT2	0-240 min/cycle
SXT	0-199 min/cycle
Electromechanical	0-164 min/regeneration

METER INFORMATION

Meter Accuracy	
3/4" Paddle/Turbine	0.25-15 GPM ± 5% (0.06-3 m ³ /h)
Meter Capacity Range	
3/4" Standard	125-2,125 gal (0.5-8 m ³)
3/4" Extended	625-10,625 gal (2.5-40 m ³)
SXT	1-999,900 gal (0-3,785 m ³)
NXT2	1-9,999,999 gal (0-37,854 m ³)
AiQ	
Filter capacity:	100-100,000 gal (0.1-400 m ³)
Softener capacity:	100-1,000,000 gal (0.3-4,000 m ³)

AIO – Meter not included

DIMENSIONS

Distributor Pilot	1.05" O.D. (26.7 mm)
1-1/2" EM Extended:	1/2" NPTF Quick-Connect
Brine Valve	
1600	3/8"
Injector System	1600, 1650
Mounting Base	2.5" - 8 NPSM
Height from Top of Tank	7.5" (191 mm)
Riser Tube Diameter	3/4" (19 mm)
Riser Height	1/4" Below top of tank

TYPICAL APPLICATIONS

Water Softener	6-16" Diameter
Filters (including AIO)	8-16" Diameter based on 10 GPM/ft ²

ADDITIONAL INFORMATION

Electrical Rating	24/110/220V 50/60 Hz
Estimated Shipping Weight	
Time Clock	7 lbs
Metered Valve	10 lbs
Pressure	
Hydrostatic	300 psi (20 bar)
Working	20-125 psi (1.4-8.5 bar)
Working (AIO only)	20-80 psi (1.4-5.5 bar)
Temperature	
Cold Water Valve	34-110°F (1-43°C)



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