PENTAIR
WATER SOLUTIONS

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

DWC
DUFF WATER CONDITIONING
Products for Quality Water

FLECK 2510 SPECIFICATIONS

VALVE SPECIFICATIONS

Valve Material	Fiber-reinforced polymer
Inlet/Outlet	3/4" , 1", or 1 ¼" 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 m³/h)
Peak 25 psi (1.7 bar) drop	24 GPM (5.5 m³/h)
CV flow at 1 psi drop	4.8
Max. Backwash 25 psi (1.7 bar) drop	17 GPM (3.9 m³/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 m³/h)
Meter Capacity Range	
3/4" Standard	125–2,125 gal (0.5–8 m³)
3/4" Extended	625–10,625 gal (2.5–40 m³)
SXT	1–999,900 gal (0–3,785 m³)
NXT2	1–9,999,999 gal (0–37,854 m³)
AiQ	
Filter capacity:	100–100,000 gal (0.1–400 m³)
Softener capacity:	100–1,000,000 gal (0.3–4,000 m³)

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/ft²

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)