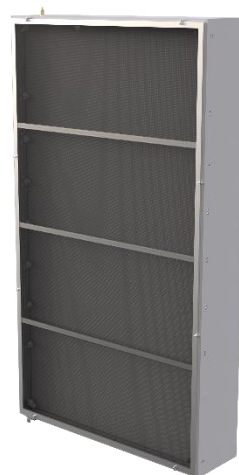


EZ-FRAME ASSEMBLY



Base frame

- High-impact, UV-rated PVC frame & supports
- Average 30 lbs per frame; welded joints with cross bracing
- Anti-microbial spray treatment
- Frame drain with 1/2" push-to-connect fitting
- Attaches to unit via NdFeB magnets (52 lb pull strength)
- Flexible bulb seal around full perimeter

Screen & media

- Fiberglass mesh screen with aluminum frames
- Rotating screen clips for quick removal
- Non-woven polyester media, 1/2" thick, 15 oz/sq yd, water-based latex binder
- Pressure drop <0.15 in. WC (wet)
- Media installed with industrial-strength Velcro for easy replacement

Internal plumbing



Nozzle type
Flat spray, wear-resistant plastic, 1/4-turn

Tubing
3/8" nylon, 250 psi working pressure

Check valves
Removable rubber, maintains manifold pressure

Spray angles
80°, 95°, 110° options

Frame inlet
3/8" male quick disconnect

Fittings
Push-to-connect tee per sprayer assembly

NC SOLENOID VALVE



Body material
Brass, normally closed

Connector
IP65 Canfield MCCR, daisy-chain capable

Max water pressure
150 psi

Connection type
FNPT inlet/outlet

Electrical
24 VAC, 11 W, NEMA 4X

Cable
18 AWG, 3-conductor, 10 A max, multi-length

Temperature rating
Outdoor rated, up to 140°F

PERFORMANCE MONITORING CONTROLLER

Controller System Overview

Specification	CMM Master Controller	CMC Client Controller
Wireless backhaul	Private cellular network	N/A
Wireless mesh	900 MHz	900 MHz
Analog inputs	15 × 0–10 VDC	8 × 0–10 VDC
Digital/pulse inputs	2 × 5 VDC	2 × 5 VDC
Digital outputs	(4) 5 VDC, (2) 24 VAC	(4) 5 VDC, (2) 24 VAC
Ethernet port	1 port	N/A
Enclosure rating	NEMA 4	NEMA 4
Condenser air temp sensors	2 (w/ 25 ft. cable each)	2 (w/ 25 ft. cable each)
Liquid line temp sensors	2 (w/ 25 ft. cable each)	2 (w/ 25 ft. cable each)
Current transducers	2 (w/ 25 ft. cable each)	2 (w/ 25 ft. cable each)
RH/temp weather station	1 (w/ 25 ft. cable)	N/A
Water pressure sensor	1 (w/ 25 ft. cable)	N/A



Software & connectivity

- 2-channel performance monitoring
- Remote and/or onsite configuration
- 24/7 cloud data storage & logging
- Customer portal for energy savings data
- Optional: automated self-diagnostics & alerting

Power supply kit

- 100 VA multi-voltage transformer (115 V, 208–230 V, 460 V versions)
- 2P fuse holder, 30 A / 600 VAC rated
- Class CC time-delay fuses included
- 600 V rated connection wiring with hardware accessories
- Mounts via 52-lb NdFeB magnets (zinc-plated housing)

Sensors

Weather station Unaspirated solar shield, -22°F to 257°F, 0–100% RH	Temp accuracy ±2°F, solid-state, stainless steel probe
Current transducers Split-core, 0–250 A, ±2% full scale (50/60 Hz)	Water pressure sensor 0–200 psig, -40°F to 257°F, 1/8" MNPT

WATER DISTRIBUTION SYSTEM



Pump

- VFD drive with constant-discharge pressure control
- Built-in loss-of-suction & motor protection
- All wetted components: stainless steel or lead-free brass
- Double check assembly standard with most systems
- NEMA 4 version available; N+1 design available

Filtration & storage

- 5-micron or finer filtration
- Plastic or SS housings sized per project requirements
- Indoor tanks: lightweight fiberglass
- Outdoor tanks: epoxy-coated steel
- Fluid-filled gauges for pressure monitoring

Water treatment

- Ion-exchange softener; target ≤ 1 gpg hardness
- Mechanical operation — no electrical connection required
- Alternative: slow-dissolving polyphosphate scale control cartridge
- Note: more frequent media cleaning required with cartridge option

Ancillary equipment

- 1/2" MNPT $\times$ 3/8" push-on hose adapter to field-provided manifold
- 3/8" hose & brass connectors to frames
- Magnetic straps for cable & tubing management
- 600 V outdoor-rated cord for valves & controllers
- Modular roof-curb systems available (designed for 20 psf load)

CONTRACTOR-FURNISHED SCOPE

Mechanical

Sheet metal & silicone sealant for frame mounting and air bypass prevention

Electrical

Wire nuts, ring terminals, cable ties, electrical tape, miscellaneous connectors

Plumbing

Main distribution piping, ball valves, drain lines, water manifold (1/2" FNPT), frame drain manifold

Estimated useful life
15 years

Standard warranty
1-year parts only

Extended warranty
Up to 5 years with PM program

Document
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