



# Marvair<sup>®</sup>

## Serenity DC Air Handlers for Chilled Water

Models CWDC 6,000, 9,000, 12,000, 18,000, & 24,000 BTUH

### General Description

Marvair's Serenity line of DC powered chilled water air handlers are built in five sizes with nominal cooling capacities of 6,000 BTUH's to 24,000 BTUH's. All units feature the following:

#### Unique, multiport plenum and blower

- Allows for as many as three duct connections. Eliminates need for expensive "Y" or "T" adapters and rotating the blower.
- Compact, high static electronically commutated centrifugal fan in combination with a backward curved impeller moves the conditioned air quietly and efficiently through duct work. EC centrifugal fans are ideally suited for speed control because they do not have the motor noise of AC powered motors.
- Blower speed can be easily adjusted from 700 rpm to 3,500 rpm in six user selectable steps.
- Blowers in communal areas can be easily wired together. The electronic board has connections for wiring 4 DC blowers, each blower having an individual identity. Each blower can be programmed with its own unique speed settings that will modulate with room conditions. An AC blower can also be connected if required.
- Extremely low amp draw.



Model CWDC12



#### Rugged construction ensures years of dependable operation.

- Water coil and hairpins are dipped, not sprayed, in a polyester enamel to maximize the life of the coil while preserving heat transfer.
- Stainless steel condensate pan with high sides and two condensate drain openings prevents water from overflowing the sides.
- Superior, corrosion resistant aluminum coil and blower housing.
- Fully insulated to minimize sound and vibration.
- Multi layered washable air filter.

#### Innovative design reduces installation time and materials.

- Remote air bleeder constructed of braided hose with integral relief valve simplifies removing air from the system.
- Three-way motorized valve.
- Factory installed water temperature sensor monitors inlet water temperature and only allows the valve to open if water temperature is acceptable.
- Remotely mounted electrical box facilitates installation.

## Controller Display and Board

- Same electronic control board, cables and sensors as used in chiller and DX systems. Spare parts are kept to a minimum. The Serenity DC air handlers use the identical PC board (fitted with a piggy-back DC board) as in our DX systems, AC air handlers and chillers.
- Easy to understand icons on display show operational status and eliminate words. Ideal for global use.

## Optional electric heat.

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## Notes

*Please consult the Marvair website at [www.marvair.com](http://www.marvair.com) for the latest product literature. Detailed dimensional data is available upon request. A complete warranty statement can be found in each product's Installation or Owner's manual, on the website or by contacting Marvair. As part of the Marvair Continuous improvement program, all specifications are subject to change without notice.*

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