

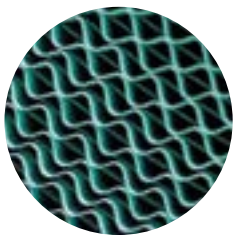
UNITARY WHEEL CASSETTE

UWC / UWCH

The SEMCO Unitary Wheel Cassette (UWC) Series, a sensible and latent energy recovery aluminum desiccant wheel, is designed and packaged as the HVAC industry's first drop in replacement for most OEM wheels used by packaged rooftop unit manufacturers.

The UWC Series' 3-3/4-inch-wide (100-mm) wheels feature a fast-acting, corrosion-resistant, proprietary desiccant that's applied to a sturdy, but lightweight all-aluminum wheel substrate. The honeycomb matrix's fluted opening design efficiently produces maximum latent and sensible air-to-air heat transfer, but generates up to 50-percent less HVAC system static pressure than polymer film wheels.

Besides assisting buildings in surpassing ASHRAE 90.1 building energy compliance, the aluminum wheels also have longer life cycles and vastly less periodic maintenance requirements than polymer wheels and can withstand temperatures of up to 180°F.



FLUTED
WHEEL MEDIA



Use of the AHRI Certified™ mark indicates a manufacturer's participation in the certification program. For verification of certification for individual products, go to www.ahrinet.org.

KEY BENEFITS

- Independently tested & AHRI certified wheel performance
- High Enthalpy Performance = Less Pressure Loss, Less Fan Energy, More Energy Savings, Low operating costs
- High latent AND sensible heat transfer efficiencies
- Highest Recovery Efficiency Ratios (RER) available in the industry
- Industry-leading indoor air quality device through minimized desiccant cross contamination
- Integrated purge section option
- Wheel independently certified to pass NFPA 90A requirements for flame spread and smoke generation and ASTM E84 fire test method
- Proven reliable operation and long life expectancy
- Low maintenance



Time Elapsed on Installation =
26 SECONDS

The UWC Series' 3-3/4" wide (100 mm) wheels are available in eleven diameters to suit your wheel retrofit application:

- 21"
- 36"
- 52"
- 68"
- 25"
- 41"
- 58"
- 74"
- 30"
- 46"
- 64"

Standard UWC / UWCH Product Features:

- Industry's highest recovery performance (AHRI Certified) and Recovery Efficiency Ratios (RER)
- 100 mm deep transfer media
- Reduced contaminant carry-over compared to silica gel based energy wheels
- Structural sheet metal with tubular bearing support
- Structural aluminum media spoke system with extruded aluminum inner hub
- Comprehensive variable speed wheel controls

- All UWC Series models come fully-assembled and packaged as plug-and-play cassettes that include the industrial-duty inverter motor, corrosion-resistant rotor, and industrial-grade link drive belt. Replacement time is typically less than 1/2 hour;
- Temperature differential between wet bulb/dry bulb exhaust and supply can be 75-percent or more efficient;
- Controls are compatible with building automation systems (BAS) and most unitary brand on-board controls;
- Optional surface coatings include anti-microbial, anti-corrosion or anti-stick treatments;
- Sizes and dimensions are compatible with most ERV brands such as AAO, Valent, Greenheck, ClimateMaster, Lennox, Daikin, Trane and other major manufacturers;
- Models 52-inches and larger are lighter and easier to handle than same-size polymer wheels that require substantially more heavy-duty, integral support network;
- Minimal leakage and air bypass due to high quality perimeter brush and face contact seals;

EXCELLENCE IN SOLUTIONS

FläktGroup SEMCO delivers smart and energy efficient Air Distribution and Air Quality solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance supported by more than fifty years of accumulated industry experience. The widest product range in the market, and strong market presence in 65 countries worldwide, guarantee that we are always by your side, ready to deliver Excellence in Solutions.

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