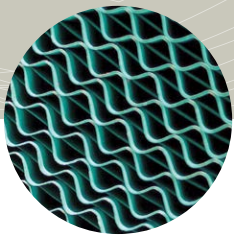


INDOOR AIR QUALITY

ENERGY RECOVERY



FLUTED  
WHEEL MEDIA

## UNITARY WHEEL CASSETTE

UWC / UWCH

### UWC/UWCH 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
- Low maintenance
- Proven long life expectancy

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 polymer desiccant wheels in most unitary ERV brands.

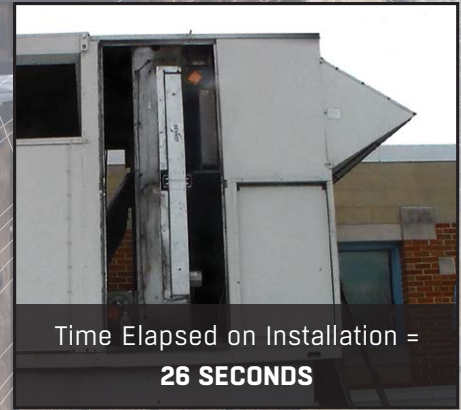
The UWC Series' 3-3/4-inch-wide (100-mm) wheels feature a fast-acting, corrosion-resistant, proprietary desiccant that's applied to a sturdy, but lightweight all-aluminum wheel substrate. The honeycomb matrix's fluted opening design efficiently produces maximum latent and sensible air-to-air heat transfer,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



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](http://www.ahrinet.org).





Time Elapsed on Installation =  
**26 SECONDS**

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

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

### 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 DDC controls and sensors

- 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 up to 75-percent 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;



Based on our e<sup>3</sup> concept, we provide innovative and sustainable products to help you achieve or surpass your environmental targets while optimizing your investment and Life Cycle Cost.

### EXPERIENCE & EXPERTISE

With over a half-century of innovation and expertise to share with our customers, SEMCO® is a global leader in air management. With market presence in 65 countries, we are in a unique position to be a local supplier and an international partner in our customers' projects. Our constant aim is to provide systems that precisely deliver the best indoor air quality and performance, while maximizing energy efficiency.

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**WE BRING AIR TO LIFE**