

INDOOR AIR QUALITY

ENERGY SAVINGS



ECONOMIZER

ENTHALPY RECOVERY VENTILATION SYSTEM

ECONOMIZER KEY BENEFITS

- Improved Indoor Air Quality (IAQ) due to increased ventilation, code-compliant intake/exhaust configuration, and highest ventilation effectiveness
- Highest energy recovery efficiency in the industry
- Low day-to-day operational expense
- Exceeds current building energy code requirements and ASHRAE 90.1-2013
- Top-quality components reduce associated service calls and maintenance
- Required outdoor air quantities are always supplied
- Energy savings in both cooling and heating/humidification

Economizer is designed to enhance the SEMCO FV-T and SP enthalpy recovery modules built exclusively for Trane. Reference enthalpy control, plus dewpoint control and lower fan power consumption is an investment in indoor air quality and energy savings.

The SEMCO Economizer is a step ahead of the competition by combining a high-efficiency ERV with an advanced integrated economizer capability in compliance with ASHRAE 90.1 - 2013. All models are designed with true 100% outdoor economizer airflow capability, the lowest overall fan energy, and the highest total energy wheel efficiency to improve system EERs and minimize installed cooling/heating/humidification capacities. Each model also contains advanced controls interlocking compressors with economizer modulation, advanced differential enthalpy control for optimum energy savings and space humidity control.

The Economizer features low-leak dampers (<3 CFM/sq. ft), proper separation of intake and exhaust, and the lowest fan energy in the industry. With SEMCO Economizer and an FV-T, or SP enthalpy recovery ventilation system, you will reduce operating costs while improving indoor air quality.



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.



Economizer

Economizer: the first option for packaged roof top units that meets the ASHRAE 90.1-2013 fan horsepower requirement while providing 100% of the rated airflow of its associated rooftop unit.

Clean look, packaged controls, and simple installation make the Economizer the solution to make your rooftop application code compliant.

Operation of the economizer will factor not only temperature differential, but also enthalpy differential to maximize the hours of beneficial recovery wheel operation.

Design includes wheel bypass, meaning maximum reduction in fan operation during Economizer operation.

Along with the wheel, optional control packages are available to maximize wheel operation and mitigate frosting potential.

Consistent SEMCO value-added features come with the new offering including the industry best recovery efficiency ratio, and AHRI Certified near equal sensible and latent transfer.

VERSIONS AVAILABLE

- Any down flow Voyager II casing (Y*D/T*D/W*D, GER, eFlex, Foundation, etc.)
- Any Precedent casing (Y*C/T*C/W*C, GER, 17 SEER, etc.)
- Horizontal applications as standard on Precedent and available on Voyager



Based on our e³ concept, we provide innovative and sustainable products to help you achieve or surpass your environmental targets while optimizing your investment and Life Cycle Cost.



FV-T AND ECONOMIZER

The FV-T selected with the integral Economizer option allows compliance with ASHRAE 90.1 – 2013 providing true 100% outdoor economizer airflow capability with low fan hp, low-leak dampers and advanced controls interlocking the compressors on the Voyager™ unit to provide optimum energy savings.

The SEMCO FV-T is a packaged system which includes supply and exhaust air fans, outdoor and return air filtration, and the SEMCO TEC total energy recovery wheel.



SEMCO FV-T

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.