

OEM Products

CREATED FOR TRANE[®] SYSTEMS



Who We Are & What We Do

INNOVATION has
been at the **CORE**
of FläktGroup® SEMCO's **60+**
YEAR history



A business unit of FläktGroup, which is owned & backed by Triton Partners — a \$17 billion annual investment firm, we are headquartered in Columbia, Missouri, with 275,00 SQ FT of manufacturing space in 3 plants in Arkansas and Virginia.

ENERGY & ENVIRONMENTAL FOCUS



All of our products are energy efficient, saving customers money while also helping to save the environment.

PATENTED & CERTIFIED PRODUCTS



Our innovative, industry leading patented products meet many AHRI, ASTM, and ASHRAE standards.

ENGINEERED AIR QUALITY SOLUTIONS

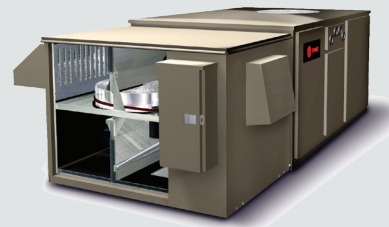


Our energy recovery, chilled beam, and data center products offer the highest air quality on the market for a large range of applications.

FläktGroup® SEMCO® and Trane® have been collaborating together for over 30 years.

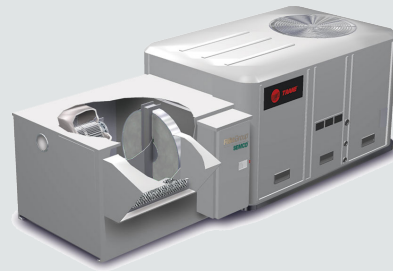


Trane® Office Offerings



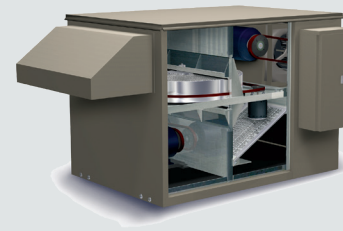
FläktGroup® SEMCO® FV-T Series

- Pre-conditioner, designed to bolt onto the Trane® Voyager® series.
- Can reduce the energy required to cool or heat incoming outdoor air by as much as 80%.
- Provides humidity control
- Uses the Fusion total energy recovery wheel
- The FV-T allows the Trane® Voyager® unit to effectively and economically accommodate the three-to-four-fold increase in outdoor air quantities recommended by ASHRAE 62.1.
- First cost premiums are recovered within the first year of operation.
- Airflow capacities range from 415 CFM to 6,200 CFM.
- The FV-T can be applied to a new Trane® Voyager® unit or retrofitted to an existing unit.
- Economizer option is available



FläktGroup® SEMCO® SYNERGY PLUS

- Pre-conditioner designed to bolt onto the Trane® Precedent® series.
- Packaged system which includes the Fusion total energy recovery wheel.
- SYNERGY PLUS can reduce the energy required to cool or heat the incoming outdoor air by as much as 80%.
- Adding a SYNERGY PLUS unit to a Trane® Precedent® helps the Precedent effectively and economically accommodate a three-to-four-fold increase in outdoor air quantities, which is recommended by ASHRAE Standard 62.1.
- Airflow capacities range from 450 CFM to 2,400 CFM.
- Designed to improve humidity control
- First cost premiums are recovered within the first year of operation.
- An economizer option available



FläktGroup® SEMCO® FV-TS

- The FläktGroup® SEMCO® FV-TS is a stand-alone packaged pre-conditioner.
- The FV-TS can reduce the energy required to cool or heat the incoming outdoor air by as much as 80%.
- When combined with unitary heating and cooling equipment, the FV-TS can improve humidity control.
- Uses the Fusion total energy recovery wheel
- Increases airflow, helping to raise ventilation rates to meet several US building codes and ASHRAE 62.1, without inflating energy costs.
- Airflow capacities range from 525 CFM to 10,000 CFM.
- Designed with rooftop installations in mind, but can easily be installed indoors and still provide a quiet, continuous supply of fresh air.
- First cost premiums are recovered within the first year of operation.



FläktGroup® SEMCO® Economizer

- Designed to enhance the FläktGroup® SEMCO® FV-T and SP pre-conditioners .
- True 100% outdoor economizer airflow capability
- 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, resulting in the lowest overall fan usage on the market.
- Combining a high-efficiency energy recovery ventilator with an integrated economizer helps systems exceed ASHRAE 90.1 - 2022.
- Advanced controls for optimum energy savings and space humidity control



Fusion and Fusion 3A Total Energy Recovery Wheels

- Designed to pre-cool and dehumidify the outdoor air during the cooling season as well as preheat and humidify the outdoor air during the heating season.
- Outdoor air quantity can be increased from 5 CFM to 20 CFM per person without increasing the total energy costs.
- The Fusion line delivers the highest total energy recovery performance and recovery efficiency ratios (RER) of any certified 200 mm deep recovery wheels.
- Industry's highest recovery performance (AHRI Certified)
- Reduced contaminant carry-over – equal to or better than other competitors' wheels marketed as using a 3Å molecular sieve
- Structural steel tubing-support casing to limit deflection (Size 9 and greater)
- Extruded aluminum structural hub, spokes and rim system
- Comprehensive variable speed wheel DDC controls and sensors



Unitary Wheel Cassette

- Sensible and latent energy recovery aluminum desiccant wheel
- Can be used to upgrade or replace the plastic or plastic polymer desiccant wheels in most unitary ERV brands.
- The fluted opening design utilizes a sturdy, but lightweight, all-aluminum wheel substrate coated with a fast-acting, corrosion-resistant, proprietary desiccant.
- Generates up to 50% less HVAC system static pressure than polymer film wheels.
- Compact design
- Independently tested in accordance with ASHRAE 84 and verified to assure the equipment will perform accurately and consistently.
- Wheel media independently certified to pass NFPA 90A requirements for flame spread and smoke generation based upon ASTM E84 fire test method.
- Proven solution to challenges presented by ASHRAE Standard 62.1 Ventilation for Acceptable Indoor Air Quality.

Past Projects

Trane® New Jersey

Job Name	Product
70 South Orange Eisenhower Plaza	FV3000TS
Acura of Montclair	FV5000T
Bell Audi	FV5000T
Bryan College	FV5000T
Can Do Fitness	FV3000T, FV 5000T
Captive Plastics	FV2000T
Church of St. Gregory the Great	FV2000T, FV5000T
Deron School	SP700, FV5000TS
DMV - Mt. Holly	FV3000T
East Orange Senior Center	FV3000T
Elizabeth Morrow School	FV5000T
Ethel McKnight School	FV3000T, FV5000T
Great Gorge Village Spa Hotel	FV3000T
The Gym Health & Fitness	FV5000T
Herbertsville School	FV3000T
Hilton Garden Inn - Lakewood	FV3000TS
Jackson Elementary School	FV1000T, FV2000T, FV3000T
John Basiline Field House	FV5000T

Lincoln Park Subacute & Rehab	FV3000T
Mercedes Benz of Morristown	FV5000T
Midland School	FV5000T
Mt. Arlington School	FV1000T
New Clinton Township Middle School	FV3000TS, FV4000TS, FV5000TS
Palisade Audi	FV3000T
Passaic Community College - Academic Building	FV2000T
Perry Dew Elementary School	FV5000T
Pine Beach Elementary	FV5000T
Polevory - Fitness Center	FV2000T, FV5000T
Presentation Church	FV5000T
Primary Learning Center	FV5000T
Queen of Peace High School Auditorium	FV2000T
Redwoods Inn	FV2000T
Rutgers University Inn and Conference Center	FV2000T, FV3000T
St. Agnes	FV3000T
Temple Beth Shalom	FV2000T, FV3000T, SP 700
Walgreens - West New York	FV2000T
Yogi Berry Gallery	FV2000T



Sales

Please contact your SEMCO sales manager or the emails below for pricing.

rfq@flaktgroup.com

sales.semco@flaktgroup.com

Please access our ExpressSelect on our website www.semcohvac.com for making unit selections.

Service

servicerequest.semco@flaktgroup.com



FläktGroup® SEMCO®

Corporate Headquarters
1800 East Pointe Drive
Columbia, Missouri 65201 USA

573.443.1481

sales.semco@flaktgroup.com