

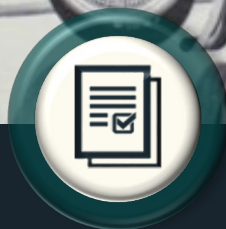
SYNERGYPLUS®

ENERGY RECOVERY MODULE





Energy
& Environmental
Focus



Patented &
Certified
Products



U.S & Global
Footprint



Engineered
Air Quality &
Data Center
Solutions



Engineered
Air Distribution
& Sound
Solutions



OEM,
Key Account &
Sales Rep
Route To Market



Service
& Support

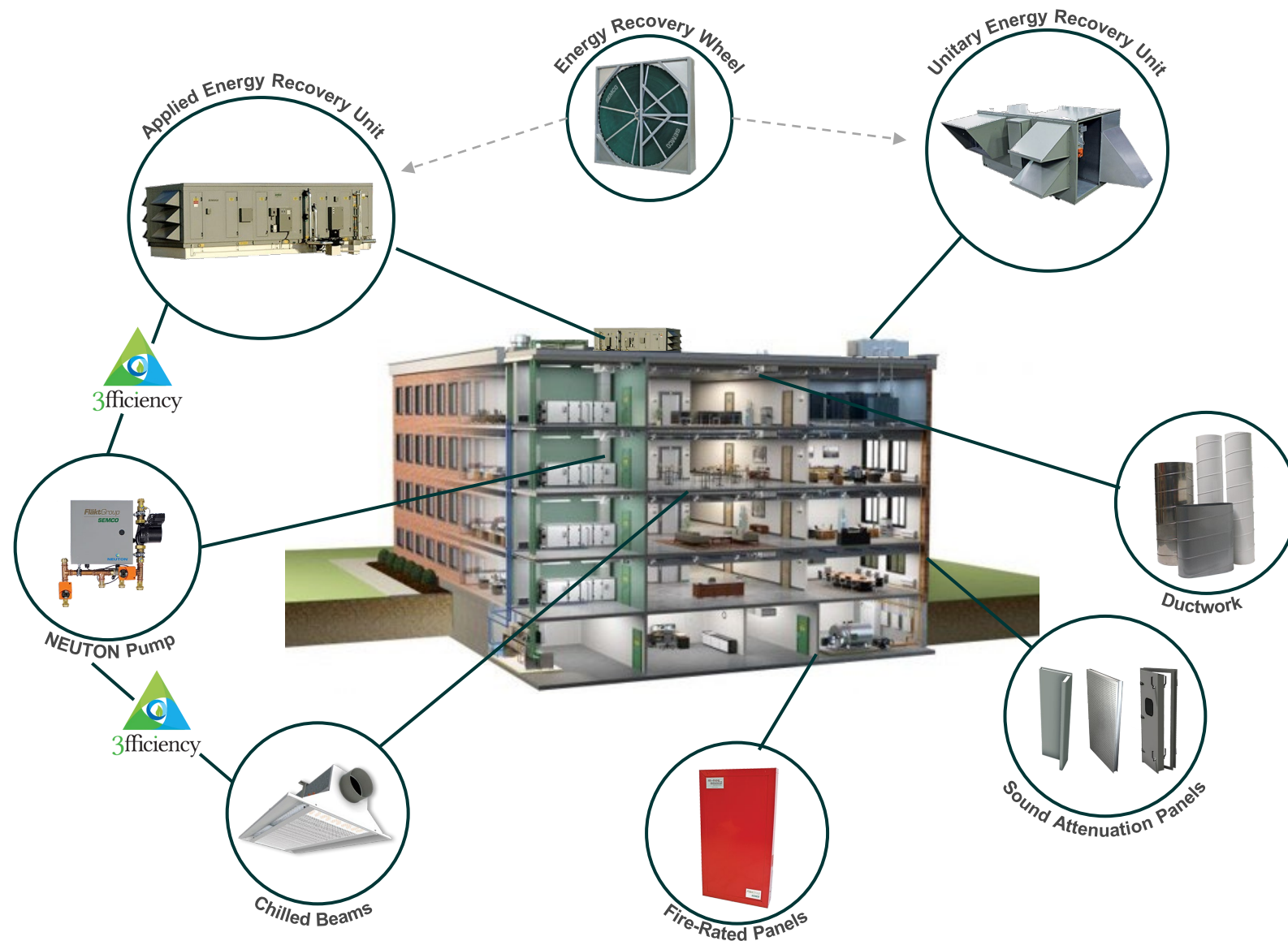


Award Winning
& Industry
Recognized

Who we are & what we do

FläktGroup
SEMCO

FläktGroup SEMCO Products For Commercial Applications



Education



Offices



Healthcare & Labs



Manufacturing & Automotive



Public Buildings & Entertainment



Sports Facilities

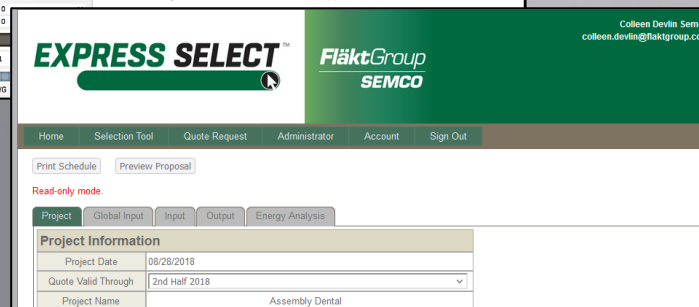
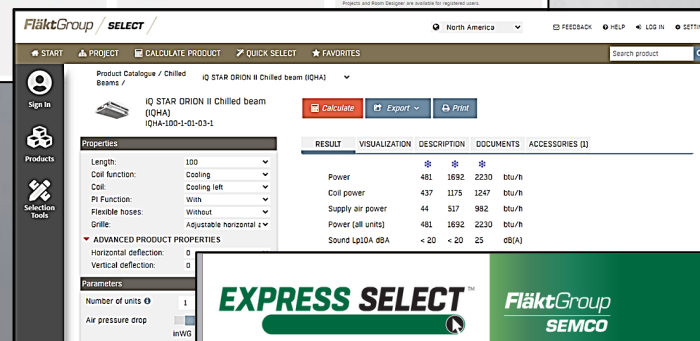
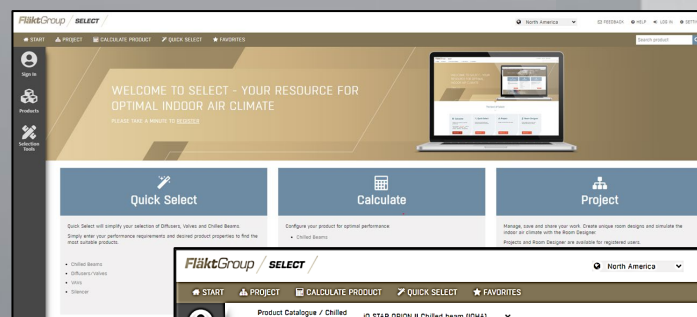


Datacenters





FläktGroup SEMCO Superior Sales Support & Service



- Serves as a pre-conditioner to the Trane® Precedent®, conventional roof-top air conditioner.
- Compact, low-profile design
- Reduces the amount of refrigeration required of the Trane® Precedent® by 50%.
- Certified performance, high latent capacity.
- Features the industry leading FläktGroup SEMCO total energy recovery wheel. (TEC).
- First cost premium is paid back within the first year of operation.
- Outdoor air inlet and exhaust air outlet located at opposite ends of the unit for maximum separation.

Mounting a FläktGroup SEMCO SynergyPLUS® energy recovery module to a Trane Precedent® air conditioner allows the Trane Precedent® to **effectively** and **economically** bring in 3-4 times more outdoor air and be compliant with **ASHRAE 62.1**.



- Allows unitary HVAC equipment to maintain relative humidity levels between 30-60%.
- Maintaining relative humidity levels below 70%, significantly decreases the likelihood of microbial problems and mold formation.
- The TEC's desiccant coated, large internal surface draws in water vapor, effectively dehumidifying up to 80% of the outdoor air load during cooling season.
- Provides free humidification to incoming air during heating season

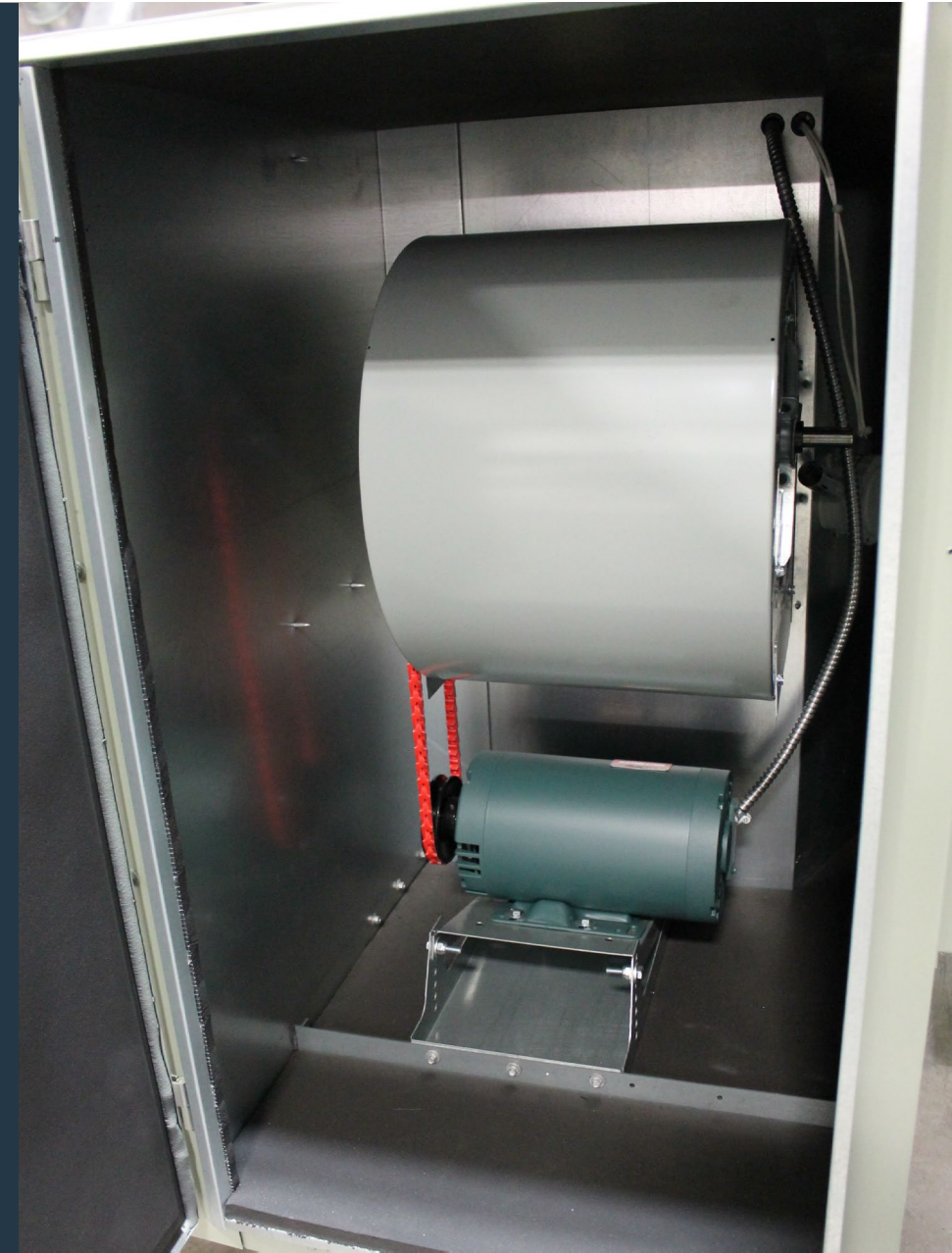
Enclosure

- Entire cabinet insulated to minimize energy loss.
- Hinged doors and roof panels for easy accessibility.
- Galvanized steel cabinet, with optional enamel finish.
- Floor of the unit built as a pan to ensure watertight design.



Fans & Filters

- Supply and exhaust fans sized for quiet and efficient operation
- Fans are mounted and balanced
- Mounted filtration for both the outside air and the return air plenums
- Outdoor units feature 1-inch thick aluminum, washable filters



- Airflow balancing dampers
- Unit provided with an intake hood with a cleanable filter to limit rain and snow introduction.
- Exhaust air back draft damper
- Return air hood





Electrical Package:

- All motors wired to starters
- Single point connection
- Accepts contact input for:
 - Supply fan start/stop
 - Wheel start/stop
 - Unit start/stop

Power Options:

- 208V/1 Phase
- 240V/1 Phase
- 208V/3 Phase
- 240V/3 Phase
- 480V/3 Phase

Controls Packages:

- Supply temperature control
- Communication to BAS via BACnet MS/TP
- Standard full-control by FläktGroup SEMCO
- Optional controls by others
- Variable speed fans

TEC Wheel: Key Product Performance Features



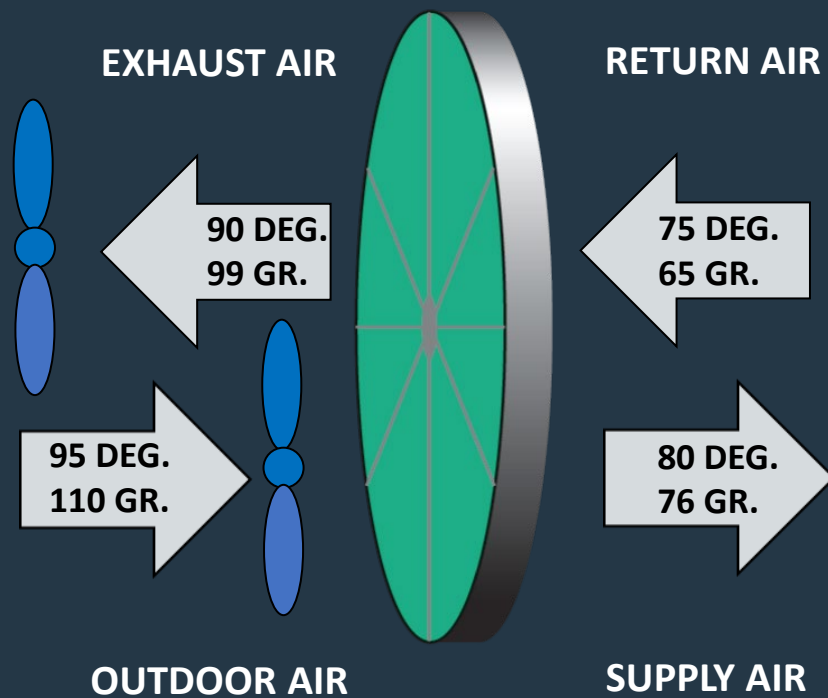
- Anti-corrosion, anti-stick & anti-microbial face coat
- Very low static pressure loss with high latent and sensible efficiencies
- Reduced contaminant carry-over vs. competition
- NFPA – 90A flame rating of <25 and 50
- Low leakage across seals – 0ACF
- Easily removable wheel cassette module
- Self-adjusting air seals
- True fluted media with laminar flow
- Lower filtration requirements
- FläktGroup SEMCO brand & reputation
- Non-plugging aluminum honeycomb transfer wheel media

Wheel Control Options

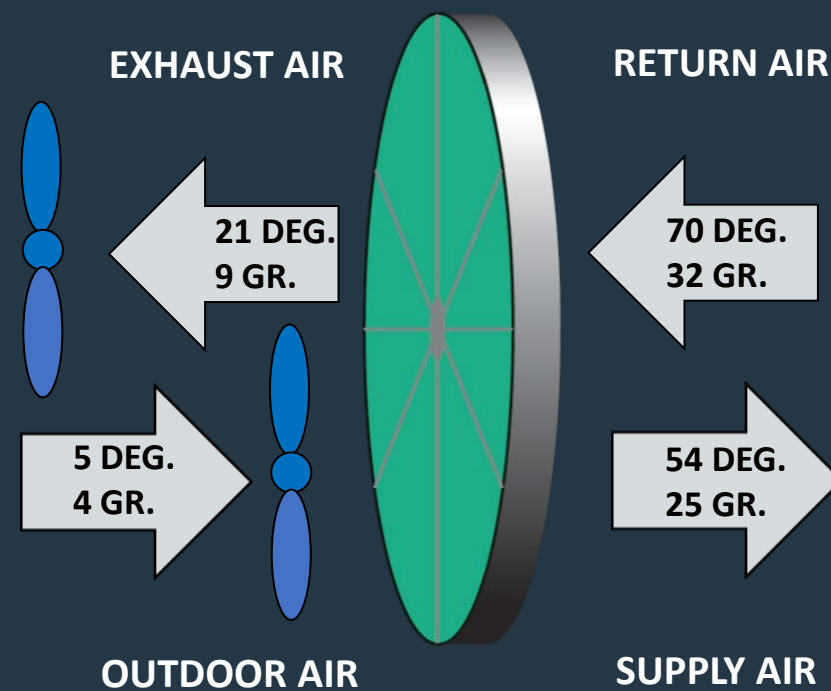
- Constant speed wheel – no control
- Constant speed wheel – on/off frost control
- Stop/jog wheel control includes rotation detector and alarm relay – on/off frost control
- Stop/jog wheel control includes rotation detector and alarm relay
- Stop/jog wheel control includes rotation detector and alarm relay – remote indicating panel
- Stop/jog wheel control includes rotation detector and alarm relay – remote indicating panel & on/off frost control



Typical Performance



COOLING MODE



HEATING MODE

Contact Information & Thank You

Unitary: unitary.semco@flaktgroup.com

Chilled Beams: chilledbeams.semco@flaktgroup.com

Unitary: unitary.semco@flaktgroup.com

ElitePro: elite.semco@flaktgroup.com

Applied Products (Pinnacle, Ascendant, EnergyPackage, Custom):
applied.semco@flaktgroup.com

Duct: duct.semco@flaktgroup.com

Panels: panels.semco@flaktgroup.com

Refresh Wheels & Components: refresh.semco@flaktgroup.com

OEM Energy Wheel: oem.semco@flaktgroup.com

Datacenters: datacenters.semco@flaktgroup.com

Parts/Service Contact Information: service.semco2@flaktgroup.com

Warranty/Quality Claims: <https://info.semcohvac.com/claim-form>

Service Request: <https://info.semcohvac.com/service-request>

Parts Request: <https://info.semcohvac.com/parts-request>



www.semcohvac.com

Tom Rice
Vice President of Sales
c: 573-823-5282

1800 East Pointe Drive, Columbia, Missouri 65201 USA

Thank you for your attention!