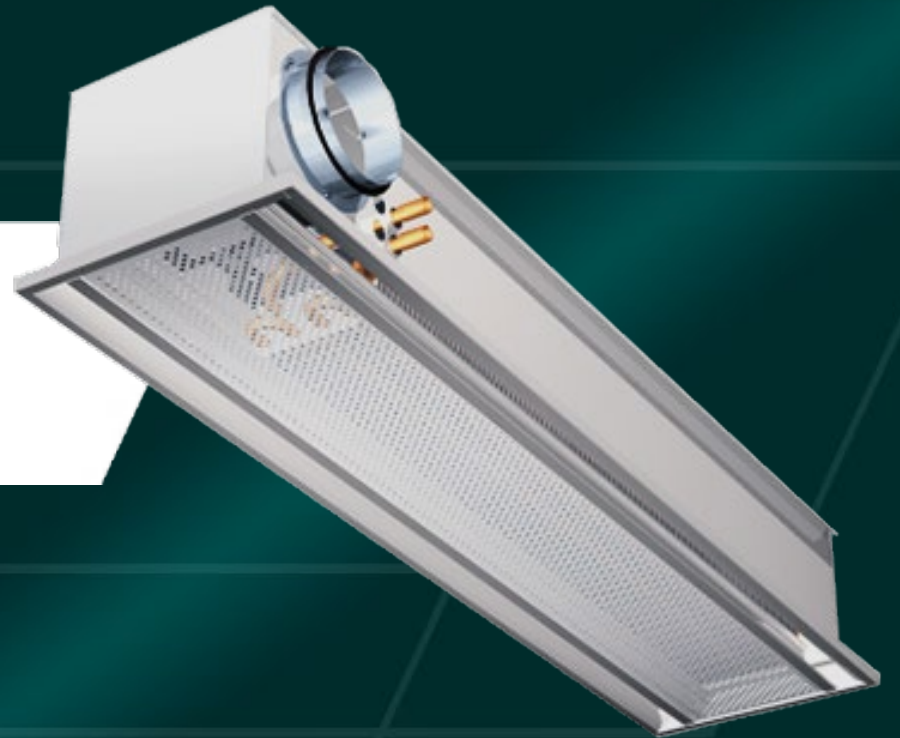


# AURORA CHILLED BEAMS

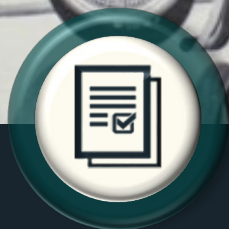
High comfort solutions—  
Exceptional flexibility & performance



# Corporate Overview



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

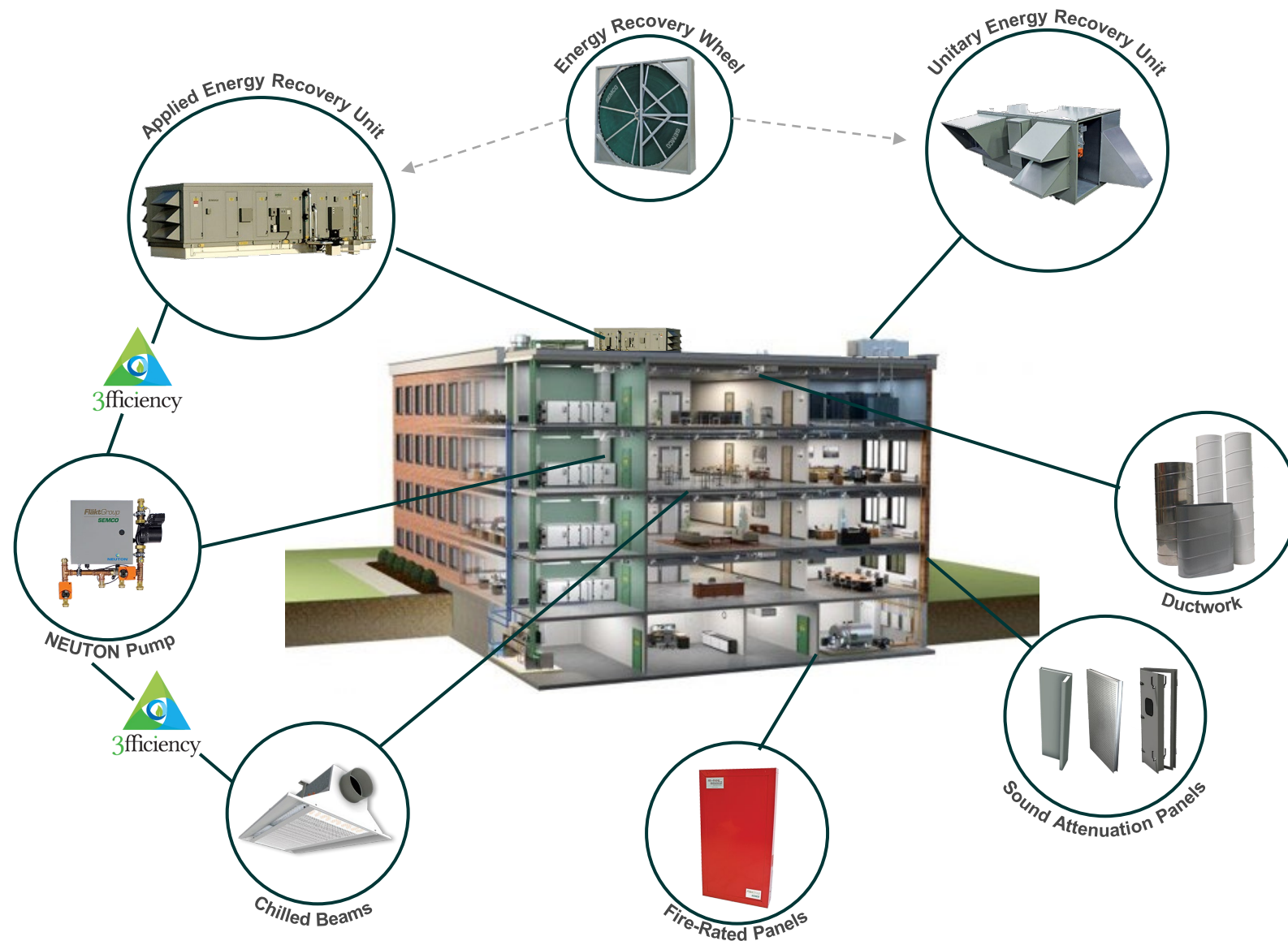


Award Winning  
& Industry  
Recognized

# 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



FläktGroup SELECT

WELCOME TO SELECT - YOUR RESOURCE FOR OPTIMAL INDOOR AIR CLIMATE

Quick Select Calculate Project

Quick Select will simplify your selection of Diffusers, Valves and Chilled Beams. Simply enter your performance requirements and desired product properties to find the best solution projects.

Calculate your product for optimal performance.

Manage, save and share your work. Create unique room designs and simulate the effect of products with the Room Designer. Projects and Room Designer are available for registered users.

Product Catalogue / Chilled Beams / IQ STAR DRION II Chilled beam (IQHA) IQHA-100-1-01-03-1

Properties

|                 |                         |
|-----------------|-------------------------|
| Length:         | 100                     |
| Coil function:  | Cooling                 |
| Coil:           | Cooling left            |
| R1 Function:    | Water                   |
| Flexible hoses: | Without                 |
| Grille:         | Adjustable horizontal L |

ADVANCED PRODUCT PROPERTIES

|                        |   |
|------------------------|---|
| Horizontal deflection: | 0 |
| Vertical deflection:   | 0 |

Parameters

|                    |      |
|--------------------|------|
| Number of units:   | 1    |
| Air pressure drop: | inWG |

RESULT VISUALIZATION DESCRIPTION DOCUMENTS ACCESSORIES (1)

|                   |      |      |      |       |
|-------------------|------|------|------|-------|
| Power             | 481  | 1692 | 2230 | btu/h |
| Coil power        | 437  | 1175 | 1247 | btu/h |
| Supply air power  | 44   | 517  | 992  | btu/h |
| Power (all units) | 481  | 1692 | 2230 | btu/h |
| Sound Lp10A dBA   | < 20 | < 20 | 25   | dB(A) |

EXPRESS SELECT™ FläktGroup SEMCO

Colleen Devin Semco  
colleen.devin@flaktgroup.com

Home Selection Tool Quote Request Administrator Account Sign Out

Print Schedule Preview Proposal

Read-only mode.

Project Global Input Input Output Energy Analysis

Project Information

|                     |                 |
|---------------------|-----------------|
| Project Date        | 08/28/2018      |
| Quote Valid Through | 2nd Half 2018   |
| Project Name        | Assembly Dental |



## What are chilled beams?

Chilled beams combine radiant cooling with conventional overhead ventilation to:

- Reduce energy usage
- Improve comfort levels
- Reduce the architectural impact of ductwork and other mechanical systems

Designed for non-residential applications where there is a high temperature load and/or rooms that require individual comfort control.

Chilled beams often are used in lieu of a fan coil unit.



**FläktGroup**  
**SEMCO**

SPECIALIZED  
HEALTHY  
AIR SOLUTIONS

# Indoor Comfort Components



AIR TEMPERATURE



HUMIDITY



AIR QUALITY



AIR VELOCITY



SOUND LEVEL



LIGHTING LEVEL



CLOTHING  
& ACTIVITY



COMFORT

## OPTIMIZED COMFORT WITH CHILLED BEAMS



### FULLY MIXED AIR

Low-temperature gradient



### LOW NOISE

No fan in Chilled Beams



### FRESH AIR

Right humidity & temperature



### EVEN AIR DISSEMINATION

No pockets of concentrated air



## ENVIRONMENTALLY FRIENDLY

- Improves the indoor environment with a low velocity (draught-free) solution
- Low noise level to surrounding area



## ECONOMICAL & ENERGY EFFICIENT

- Lower airflow means that you can use a smaller AHU
- Low temperature gradient – more uniform room temperature



## EXPERTISE DRIVEN

- No fans, no filters & no drain for condensation means that less maintenance is required over time

---

# AURORA IQSA

## ACTIVE RECESSED

## CHILLED BEAM

---

The Aurora chilled beam is the right choice for modern buildings requiring high flexibility. Designed to perfectly fit into 12" ceiling grids, the Aurora beam provides comfort, low energy consumption, and quietly distributes air.

Three main functions:

1. Ventilation
2. Cooling
3. Heating

The Aurora chilled beam will supply the right indoor climate for applications like offices, schools,

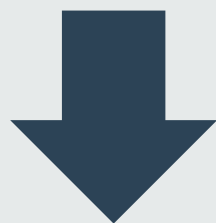


## AURORA IQSA ACTIVE RECESSED CHILLED BEAM

- Optimum energy consumption
  - High flexibility & ease of installation
  - Available with less than 31 dB of sound level which provides exceptionally quiet operation
  - Compact with high cooling capacity
  - Less maintenance thanks to no moving parts
- 
- 1' X 4', 6', 8' & 10' ceiling configurations
  - Air flow range: 20 – 111 CFMs



**HIGH EFFICIENCY  
LARGE SAVINGS**



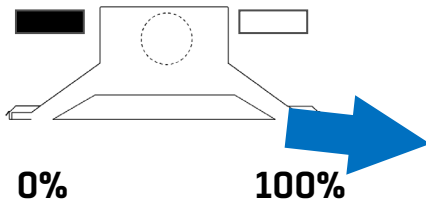
**LOW LIFE CYCLE COST**

- Smaller AHU size for the system
- Low maintenance
- Free cooling capability
- Reduced energy consumption by

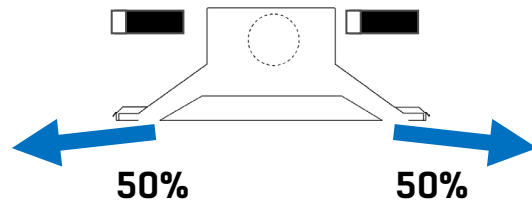


- Adjustable induction on site
- Different air distribution available:

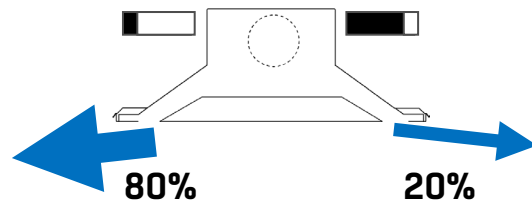
- One way distribution



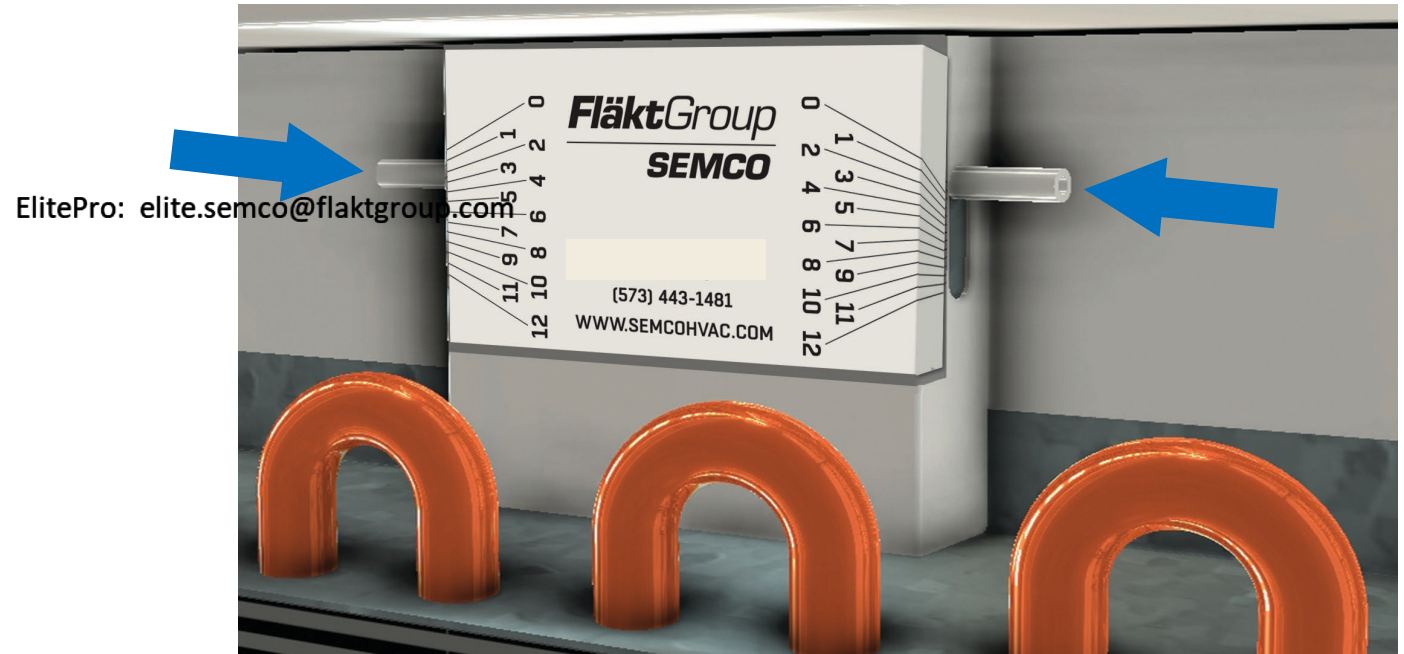
- Two way distribution



- Asymmetric air diffusion



- Chilled beam capacity can be increased or decreased by slot adjustment
- No tools required



# Contact Information & Thank You

Chilled Beams: [chilledbeams.semco@flaktgroup.com](mailto:chilledbeams.semco@flaktgroup.com)

Unitary: [unitary.semco@flaktgroup.com](mailto:unitary.semco@flaktgroup.com)

ElitePro: [elite.semco@flaktgroup.com](mailto:elite.semco@flaktgroup.com)

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

Duct: [duct.semco@flaktgroup.com](mailto:duct.semco@flaktgroup.com)

Panels: [panels.semco@flaktgroup.com](mailto:panels.semco@flaktgroup.com)

Refresh Wheels & Components: [refresh.semco@flaktgroup.com](mailto:refresh.semco@flaktgroup.com)

OEM Energy Wheel: [oem.semco@flaktgroup.com](mailto:oem.semco@flaktgroup.com)

Datacenters: [datacenters.semco@flaktgroup.com](mailto:datacenters.semco@flaktgroup.com)

Parts/Service Contact Information: [service.semco2@flaktgroup.com](mailto: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](http://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!