



Senturion Ice

Integrated Cooling Equipment

**Dust and Fume Collection
with Integrated AC.**

- Cut cooling costs
- Reduce HVAC load
- Keep workers cool & comfortable



Keep Your Cool with Senturion ICE

Senturion ICE (Integrated Cooling Equipment) puts your dust collection system to work to keep your facility cool and dry. In manufacturing and fabrication environments, industrial air filtration is already required for air quality compliance. Senturion ICE captures that air movement for cooling, too, so the horsepower you're already using for dust collection does double duty.



Worker comfort, safety and productivity: Heat measurably reduces productivity and puts workers at risk of heat exhaustion and heat stroke. A cooler plant means higher productivity and supports recruiting and retention.



Targeted cooling where workers need it most: Even in facilities without central air conditioning, Senturion ICE delivers conditioned air directly to the areas where workers are exposed.



Reduced strain on HVAC systems: In facilities with AC, Senturion ICE typically provides 30-40% of total facility cooling tonnage (or more for smaller spaces), so you can rely less on your main AC unit.



Lower maintenance: Senturion ICE filters air before cooling it, so coils only ever see clean air, virtually eliminating coil maintenance and protecting your cooling equipment.



Energy savings: An integrated system reduces energy costs by cooling the air you're already moving for dust collection, reducing the volume your HVAC system needs to move.



DO THE MATH: HEAT VS. PRODUCTIVITY

Summer heat isn't just uncomfortable, it's expensive.

- Productivity drops as much as **4% per degree** above 80°F*
- A 1% rise in average temperatures increases worker absenteeism by **5%***
- With 30 workers earning \$30/hour, every percentage point of productivity loss costs over \$600 per week

DO THE MATH FOR YOUR FACILITY!

* Somanathan, Somanathan, Sudarshan & Tewari, University of Chicago / EPIC: <https://epic.uchicago.edu/insights/the-impact-of-temperature-on-productivity-and-labor-supply-evidence-from-indian-manufacturing/>

Clean Ice Air Out

Cool air exits through punkah louvers

Dirty Air In

Dust-laden air enters through the metal mesh filters

How It Works

Senturion ICE integrates refrigerant cooling coils directly into the Vortex plenum (for ambient) or into the ductwork or a dedicated coil box (for ducted). Dirty air is filtered first, then clean air passes over the cooling coils before being returned to the facility. A condenser unit on the rooftop connects to the indoor coils via refrigerant lines, just like a conventional split AC system. Because the coils only ever see filtered air, they stay clean, virtually eliminating coil maintenance.

Two Configurations for Every Application

Senturion ICE is available as an option on our RoboVent Senturion® dust collector, in both ductless (ambient) and ducted (source capture) configurations.

- **Senturion ducted:** For source capture and ducted ambient push/pull configurations
- **Vortex ICE:** Our standard ductless ambient configuration

Best Warranty in the Industry

Senturion ICE collectors come with the Best Warranty in the Industry:

- 15 Years on Air Filtration Cabinet,
- 5 Years on Air Filtration Components
- 12 Months on Air Conditioning Cabinet and Components.



See Warranty Document for further details.

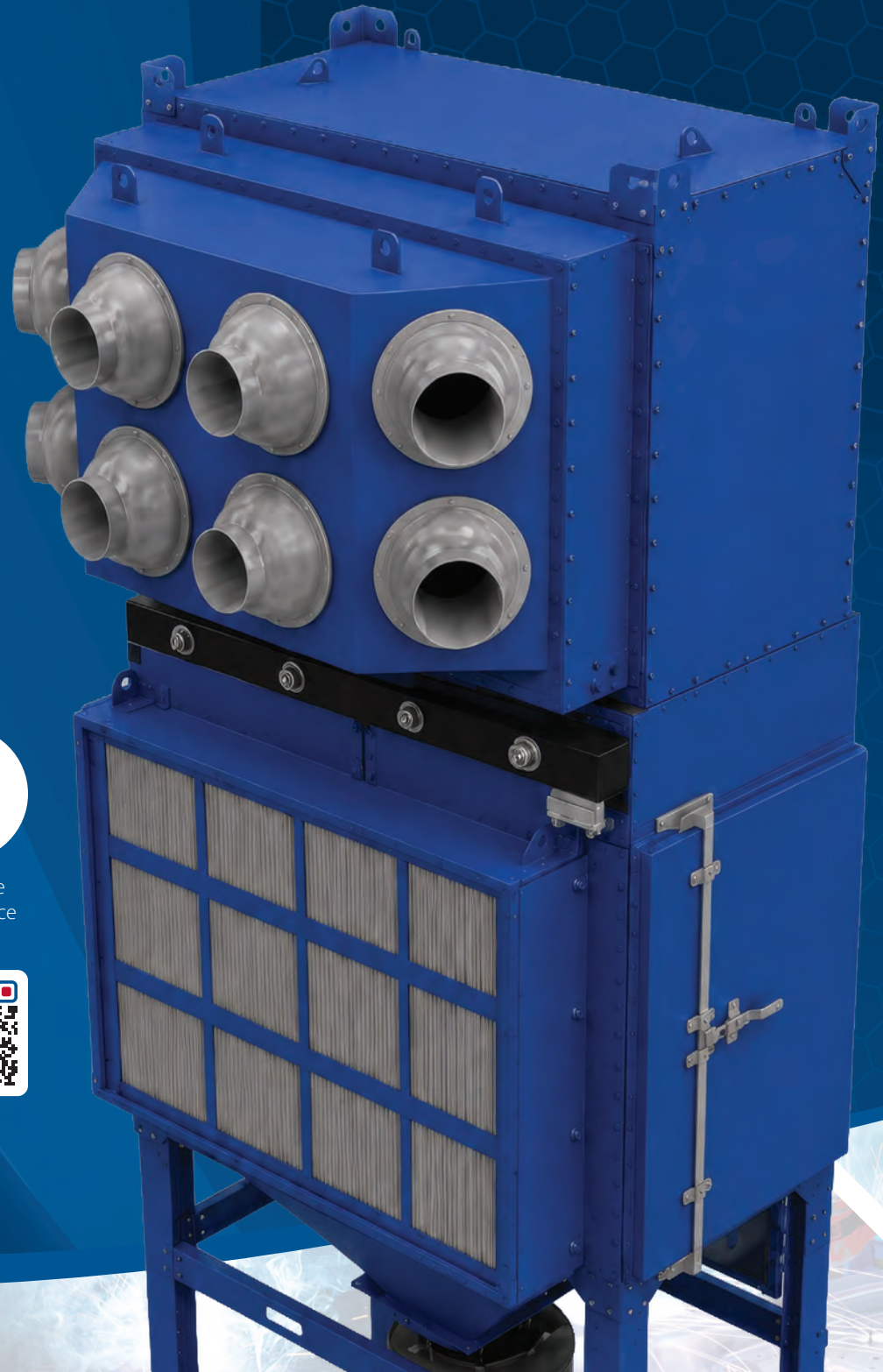


About RoboVent

RoboVent is your turnkey provider for all your toughest clean air challenges. We provide end-to-end solutions, including facility testing, system design and engineering, project management and installation, and preventative maintenance.

Contact us to talk about ICE.

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