

*Weather-Rite*TM

IDFD SERIES

PREMIUM
INDUSTRIAL GRADE
INDIRECT-FIRED
AIR HANDLERS



1.616.784.0500

www.weather-rite.com

PREMIUM INDUSTRIAL HVAC

Weather-Rite's Heavy-Duty IDFD-Series Indirect-Fired Air Handlers are built for industrial applications.

Meets larger CFM needs (up to 60,000 CFM)

Extra durable construction with welded drum-and-tube design heat exchanger and welded structure plus a 16 ga. cabinet.

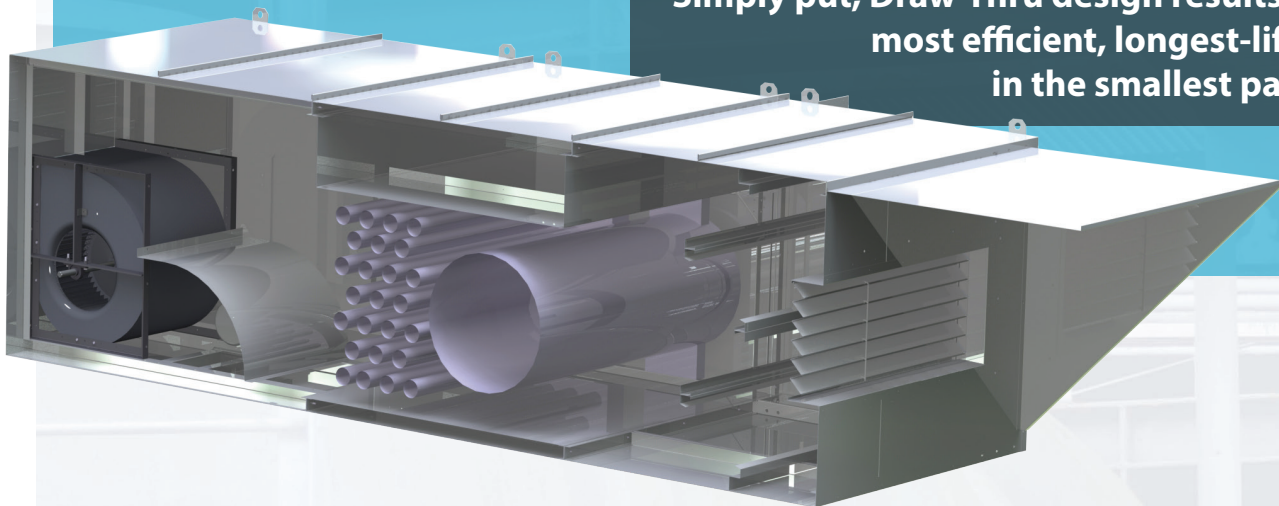
Common applications for indirect-fired make-up air will prohibit products of combustion, an open flame or added moisture in the building supply airstream. Application criteria such as these restrict the use of direct-fired make up air units.

Indirect-fired make up air provides the **solution for building pressurization, IAQ and heated/cooled outside air without added by-products of combustion in the supply airstream.**

INNOVATION

The industry-disrupting **Draw-Thru design** of the IDFD brings the energy-saving advantages of draw-thru to the indirect-fired market. Draw-Thru design ensures an even airflow distribution over the heat exchanger, a requirement for **80%+ efficiency** and eliminating life-compromising hot spots on the heat exchanger. Draw-Thru design also reduces the pressure drop across the heat exchanger, resulting in a unit with industry-low Internal Static Pressure (ISP), with the fan energy savings that go along with it!

Simply put, Draw-Thru design results in the most efficient, longest-life unit in the smallest package.



ANSI Z83.8 rigorously measures efficiency to ensure a **minimum of 80% efficiency**, resulting in lower operating costs for the end user over the lifetime of the equipment.

EFFICIENCY

Two Fan Options

Standard forward-curved fans for best installed cost, and direct-drive plenum fan option for unsurpassed efficiency and operating cost.

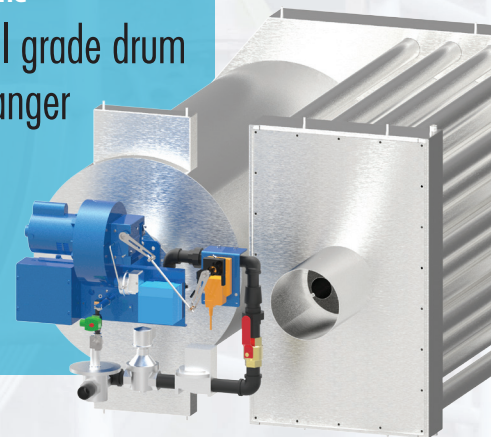
Direct-Drive plenum fans offer lower maintenance and superior electrical efficiency – combined with the 80% efficient IDF heat exchanger, the IDFD delivers the best cradle-to-grave industrial-grade value on the market.



Using the latest in modeling and simulation technology, the

heavy duty industrial grade drum and tube heat exchanger

design eliminates life-shortening hotspots, and are robustly built using welded 304 SS primary drum and welded and swaged 409 SS secondary tubes.



RELIABILITY

SAFETY

CONNECTIVITY



Industrial Factory

Welded frame construction combines **maximum durability** with excellent **serviceability**. Large access doors and panels grant access for service, while wall and roof panels can be easily removed for major component replacement. A standard double-wall heat exchanger section ensures a **touch-safe unit** and **low through-wall heat loss**, with an option to double-wall the entire unit for ultimate thermal performance.

High voltage components are housed in a separate enclosure from the burner and low-voltage controls components, making the IDFD **safer to troubleshoot** and significantly reducing the OSHA-required PPE when servicing an energized unit.



Water Treatment Facility

CO Monitor

Every IDFD unit comes with a factory-installed CO monitor in the unit discharge, providing **24/7 monitoring of the air quality** being delivered to your building. The DDC controller provides live values, warnings, and alarms, keeping the user apprised of their air quality and temperature, and, if necessary, shutting the unit down to ensure the safety of building occupants.



Arc Flash Protection

High voltage wiring and components are isolated to protect service personnel from dangerous arc flash.

DDC Controls with touchscreen remote come standard on the IDFD, maximizing versatility, serviceability, and user-friendliness. BacNet, LonWorks, and Modbus communication are supported to easily connect to any BMS system.



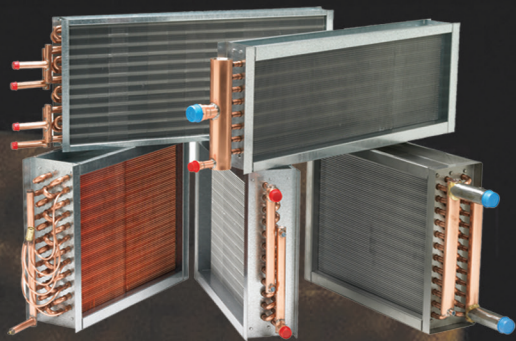
Our DDC controls integrate with **Virtual Wall®** efficient industrial building HVAC controls systems to allow connected operation, monitoring and control of dedicated outside air units (DOAS), make-up air units (direct-fired & indirect-fired MUA) and infrared heating (IR) technology for your entire building.



Weather-Rite™

Weather-Rite™

Get More Use Year-Round!
- Cooling Coils -



Complete your cooling installation with one of our
RC-Series Split System Outdoor Condensing units!
(available for 100% outside air or recirculated air applications)



ADDISON



THE BRANDS OF

SPECIFIED AIR
SOLUTIONS

ROBERTS GORDON
INFRARED HEATING

BANANZA

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