

HYGIENIC AIR HANDLING UNITS

EDF

INDUSTRIAL MAKE UP AIR SYSTEMS



CUSTOMIZABLE SOLUTIONS FOR
ALL INDUSTRIAL AIR APPLICATIONS



IARW International Association of
Refrigerated Warehouses

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iiar
International Institute of
Ammonia Refrigeration
www.iiar.org

MEMBER OF
AHRI
Air-Conditioning, Heating,
and Refrigeration Institute

Advanced Design Features

The EDF Series of units is available in a wide range of sizes, from as little as 1,000 CFM to 150,000 CFM, to meet every industrial make up air application.

Applications:

There are numerous engineering specifications and details to consider when looking at make up air applications. The size and shape of the room, materials of construction, temperatures, and airflows are just a few of the major design decisions. When selecting make up air units, the following are a few things that should be included on your checklist:

- Is pressurization needed?
- Is any air being exhausted from the room?
- Is a cleanup cycle needed?
- Is cooling or heating needed to condition air going into the space?
- Will the unit need to handle any room load?



Coils/Drain Pans

Equipment Capabilities:

- Custom configurations with a wide range of accessories to meet the most demanding applications.
- Custom unit sizes available to meet site layout requirements or existing structural steel.

Standard Features:

- Fully-welded G235 galvanized steel base single wall panels.
- G235 galvanized steel, single wall construction.
- G235 galvanized steel double wall insulated in cooling coil sections and downstream.
- G235 galvanized steel flat floor with stainless steel drain pans under cooling coil.
- Double-wall access doors (18" minimum width) with stainless steel hinges and polycarbonate latches that are operable from the interior and exterior of the unit.
- Centrifugal, airfoil, plenum type blower in either belt drive or direct drive arrangement.
- Horizontal (end) air discharge.
- TEFC, premium efficient, VFD-ready motors.
- Flat, stainless steel filter racks with upstream service.
- NEMA 4 control panel with fused arc-flash rated disconnect upstream of the main panel, factory mounted and wired on the exterior of the unit. Control panels include heat and/or ventilation as standard.
- Allen Bradley PLC control system with Ethernet communication provided and designed by EVAPCO.



EDF Construction



Blower/Motor

Optional Features for Every Application



Direct Fired Burner



UVC Lights



Control Panel

The EDF Series of units are custom-built to meet the needs of every industrial make up air application. Being built-to-order, EVAPCO offers the following optional features on all EDF units:

- EVAPCO Motor Removal System for easy removal and installation of the main blower motor(s).
- Dual control panels, split high and low voltage.
- Factory-mounted VFD's for main blower motor(s) and when applicable, remote exhaust fan motor(s). VFD panels include air conditioners to maintain proper panel temperatures.
- Stainless steel tube/aluminum fin cooling coils available using a variety of refrigerants, ALL produced by EVAPCO with performance rated in accordance with AHRI 420.
- Surge drum with support steel and/or catwalk systems for flooded coil applications.
- NEMA 4X remote control panels with or without HMI.
- UVC lights mounted on the discharge side of the cooling coil to provide contamination control in the "wet" areas of the unit.
- A variety of heating sources available including direct fired burners and indirect fired heat exchangers, as well as steam and fluid coils.
- Factory-mounted LED interior and/or exterior service lights.
- Factory-mounted discharge air smoke and/or refrigerant detectors.
- Factory shrink-wrap to protect the unit during shipment.



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