

Weather-Rite LLC

Air Turnover Units

Indirect-Fired Heating • Cooling • Destratification • Filtering



STR-Series

- Ideal solution for wide range of applications: Units available for recirculation, heating, cooling and/or filtering of room air.
- Helps provide even, consistent temperatures throughout space: Circulation of high air volumes at low velocities helps to uniformly distribute conditioned air throughout large spaces.
- Simplified installation and maintenance: Unit is housed entirely inside the building with most major components within reach from ground level.
- Lower installation and operation costs: Units can help condition a large space without ductwork and with only single electric and gas connections.
- Heavy-duty design: Unit designed with welded structural steel framework and durable, long-lasting components.

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www.weather-rite.com



Intertek
GAS/OIL HEATING ONLY

Air Turnover Units

WEATHER-RITE™ STR-Series air turnover units can help minimize air stratification problems by drawing in room air from the floor, filtering and conditioning it (heat and/or cool), sweeping air from the ceiling and recirculating it through the space. The use of industrial designed propeller fans help to move the high volume of air at a reduced horsepower when compared to using forward curve centrifugal fans. This reduction in horsepower leads to energy cost savings while providing a comfortable evenly conditioned space. Ductwork is not required to distribute air in the space. This saves time and money by reducing construction cost and reducing the amount of horsepower required to overcome the ductwork static pressure. The air turnover units are also capable of introducing fresh outdoor make-up air for indoor air quality and building pressurization.

Capabilities

General

- Heavy-Duty welded structural steel frame construction
- Up to 100,000 CFM, custom CFM available
- Up to 4.7 million Btu/h heating with industrial welded drum and tube heat exchanger
- Filtering option
- Fresh Outdoor Air Supply Options

Heating

- Natural Gas
- Propane
- #2 Oil or Dual Fuel Gas Train
- Electric Coil
- Hot Water Coil
- Steam Coil

Cooling:

- DX (Direct Expansion) Coil
- Evaporative Cooling
- Chilled Water
- Ammonia Coil
- Humidity Control



Benefits

Better Air Quality

- Filtration
- Heating and/or Cooling
- Destratification
- Outside Air/Building Pressurization

ETL Certified

- US and Canada (Meets the industry standard for quality and safety)

Easy to Maintain

- Filters and components near floor level

Long Lasting

- Industrial, welded-frame design

Reduced Energy Cost

- Minimizes building stratification
- Reduced electrical consumption
- No induced draft fan required

Lower Installed Cost

- No ductwork required
- Reduced gas piping and electrical conduit
- Reduced roof preparations
- Less equipment needed for large spaces



Cooling



Welded-Frame Construction



Air Distribution

Consumer Goods Storage and Warehousing

Unit with filters can minimize dust settling on product packaging, improving consumer perception of product.

Distribution Centers for Candy and Alcoholic Beverages

By using a unit with cooling capacity, a facility can be uniformly maintained at a particular temperature, helping to eliminate hot spots where candy could melt or alcoholic beverages could age improperly.

Indoor Sports Facilities

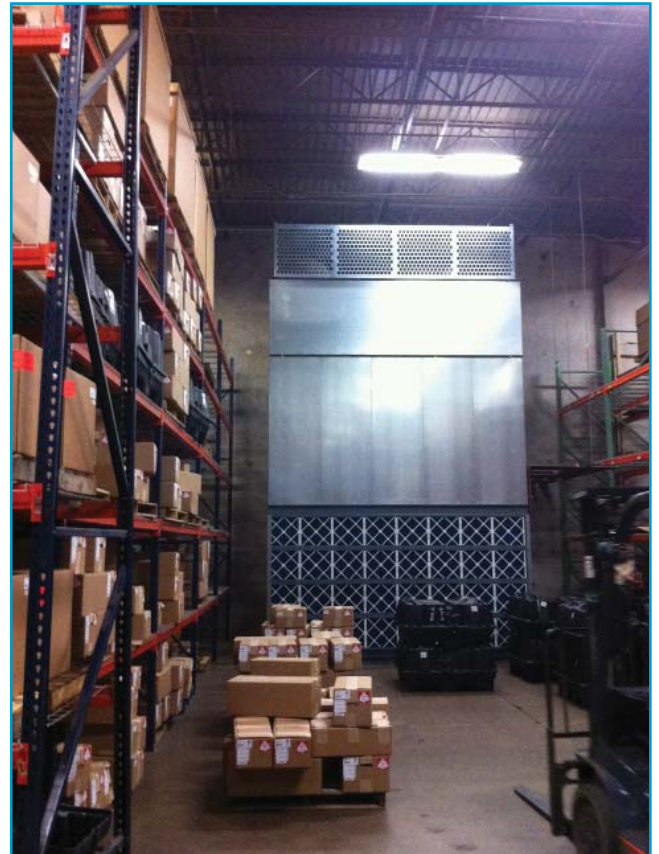
100% return air operation helps provide quick recovery of space temperature when switching from unoccupied periods to occupied periods, ideal for sports facilities with schedules that may vary daily.

Plastic Injection Molding Facilities

Use of a cooling-only unit helps maintain proper space temperatures in molding facilities to help eliminate condensation on cold molds and thereby helps to reduce defects.

Warehousing of U.S. Food and Drug Administration (FDA)-Regulated Products

Utilizing a unit with both heating and cooling capabilities can help provide year-round maintenance of the FDA's strict approved storage temperature ranges for pharmaceuticals, cosmetics or other regulated products.



Capacities

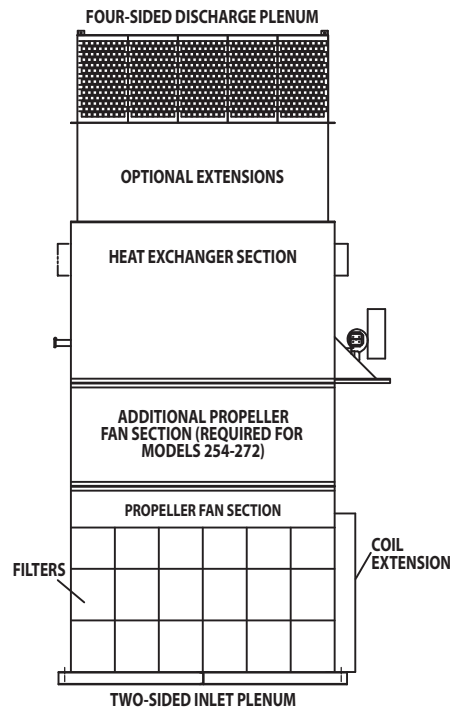
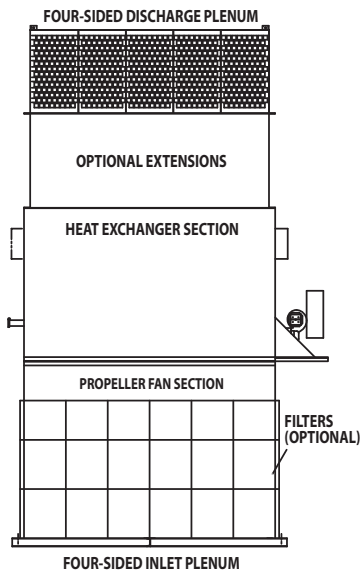
Model		STR-136	STR-148	STR-154	STR-236	STR-242	STR-248	STR-254	STR-260	STR-272
Airflow	(CFM)	4,500 - 12,000	10,000 - 16,000	14,000 - 30,000	9,000 - 24,000	21,000 - 31,000	22,000 - 45,000	40,000 - 65,000	54,000 - 74,000	62,000 - 100,000
	(m ³ /h)	7,600 - 20,300	16,900 - 27,100	23,700 - 50,900	15,200 - 40,700	35,600 - 52,600	37,300 - 76,400	67,900 - 110,400	91,700 - 125,700	105,300 - 169,900
Heating Output	(MBH)	240 - 450	240 - 750	240 - 1,250	240 - 1,000	240 - 1,250	240 - 1,500	560 - 2,500	600 - 4,000	600 - 4,500
	(kW)	70.3 - 131.9	70.3 - 219.8	70.3 - 366.3	70.3 - 293.1	70.3 - 366.3	70.3 - 439.6	164.1 - 732.7	175.8 - 1,172.3	175.8 - 1,318.8

*1 MBH = 1,000 Btu/h

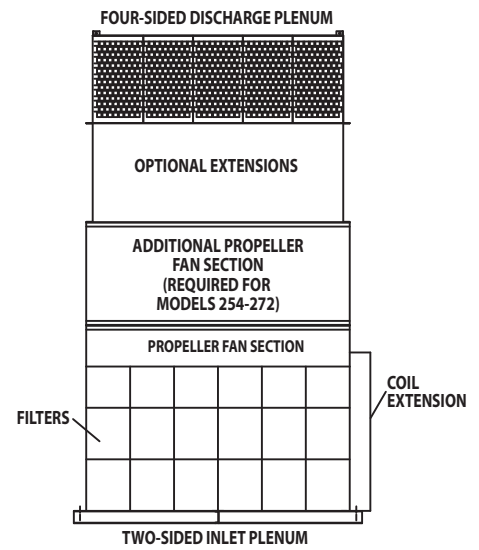
Configurations

Heating/Cooling Unit with Filtration

Heating Unit with or without Filtration



Cooling Unit with Filtration



Installation Code and Annual Inspections: All installation and service of WEATHER-RITE™ equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Weather-Rite LLC and conform to all requirements set forth in the WEATHER-RITE™ manuals and all applicable governmental authorities pertaining to the installation, service, operation and labeling of the equipment. To help facilitate optimum performance and safety, Weather-Rite LLC recommends that a qualified contractor conduct, at a minimum, annual inspections of your WEATHER-RITE™ equipment and perform service where necessary, using only replacement parts sold and supplied by Weather-Rite LLC.

Further Information: Applications, engineering and detailed guidance on systems design, installation and equipment performance is available through WEATHER-RITE™ representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

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This document is intended to assist licensed professionals in the exercise of their professional judgment.

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