

# TRS TOTAL ROOFTOP SYSTEM

COMMERCIAL/INDUSTRIAL HEATING, COOLING AND/OR DEHUMIDIFICATION



**ADDISON**™

[www.addison-hvac.com](http://www.addison-hvac.com)  
Telephone: 407.292.4400

# A Commercial Designed to Meet the Ch



The Addison Total Rooftop System (TRS) is a complete and reliable rooftop air conditioning system available in sizes ranging from 3 to 35 tons. The TRS is easy to maintain, provides customers with durable construction and offers various indoor air quality (IAQ) features.

The versatility of the TRS enables the precise requirements of new building construction and retrofit projects to be met in **educational and institutional facilities, mid-sized office buildings, and a countless number of commercial applications including restaurants and hotels.**

From standard applications with a manual outside air damper to modulating economizer with enthalpy control and CO<sub>2</sub> override, the TRS Series can be configured to meet a variety of commercial HVAC needs.

100% outside air applications are easily accomplished with the TRS Series by incorporating a motorized 2-position damper, 6-row coils for maximum capacity and moisture removal and factory-piped hot gas bypass or modulating compressors to handle outside air conditions.

The TRS Series is also designed to provide superior overall IAQ. Liquid subcooling and/or hot gas reheat (with staged or modulating control) provide precise temperature and humidity control.

The TRS Series delivers indoor comfort and is available in geothermal water/ground source heat pump, air source heat pump and air handling unit versions. Between its industry-standard features and wide range of options, the TRS can be configured to have the capabilities the building requires, without adding cost for unnecessary features or functions.

## Standard features providing high performance, reliability, ease of maintenance and a "Green" environment:

- Easily accessible scroll compressors
- Environmentally friendly R410-A refrigerant
- Independent refrigerant circuits
- Slide-out blower assembly
- Heavy-gauge, G-90 galvanized steel casing with pre-painted finish
- Stainless steel- or Magnigard Silver 17-coated exterior fasteners for maximum corrosion protection
- Formed channel galvanized steel base rails
- Double-wall construction with internal galvanized steel liners
- Stainless steel IAQ drain pan
- Closed-cell foam under base pan provides sound attenuation, as well as curb seal
- Hinged, compression-latched access doors
- Multiple filtration options
- Integrated, modular electrical and control components with terminal strip interface for ease of trouble shooting

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# ial HVAC Rooftop System allenges of Today's IAQ Requirements

The TRS Series also offers customers a host of configurable options:

- Integral energy recovery wheel
- Multiple heating options with precise leaving air control
- Factory-piped hot gas bypass or modulating compressors
- Humidity control-modulating hot gas reheat with leaving air control
- Spring vibration isolation for supply and exhaust blowers
- Backward-inclined plenum fans for high ESP application
- Customer supplied controls can be factory-mounted and wired for complete integration with customer preferred building management system.
- Power exhaust fans with variable frequency drives (VFDs)
- Supply Motor VFD
- Thermoguard® corrosion protection system with antimicrobial agent for unit cabinet, base pan, evaporator and condenser coils for the harshest environments. Factory-controlled application ensures consistent, superior protection.
- Additional options and accessories include fully modulating economizers, motorized outside air dampers, roof curbs, and backward-inclined plenum fans for high ESP application.

## TRS benefits include:

- Energy savings via energy recovery. Energy recovery transfers heat and moisture between the incoming fresh air and outgoing exhaust air, using less energy to provide the optimal temperature and humidity levels.
- Superior IAQ. The right mix of standard and optional features can provide the necessary IAQ levels your building requires, including:
  - Humidity control – Multiple, optional methods to treat 100% outside air
  - Filtration options – Standard filter rack configuration allows for the inclusion of optional high efficiency 4" varicell 95% filters.
- Lower Operating Noise and Vibration Levels
  - Standard double wall construction
  - Optimized fan selections
  - Internally rubber (or optional spring) isolated components help eliminate vibration



**Installation Code and Quarterly Inspections:** All installation and service of ADDISON™ equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Addison and conform to all requirements set forth in the ADDISON™ manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Addison recommends that a qualified contractor conduct quarterly inspections of your ADDISON™ equipment and perform service where necessary, using only replacement parts sold and supplied by ADDISON™.

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

**These products are not for residential use.**

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

**Specifications are subject to change without notice.**

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