

Replacement Components & Parts for



nesbitt Rooftop Systems

Toll Free: 800-221-1000

Reconditioning or updating the existing Nesbitt HVAC unit may be the most economical way to maintain the original operating efficiency of your system. In many instances, your own maintenance personnel, who already are familiar with the units and their operation, can accomplish this task. For example, if your units were installed with electric resistance heating, you may want to consider changing over to gas heat for the sake of energy cost savings. We offer a package of components and controls to make this conversion.


If the existing Nesbitt rooftop units on your building simply need reconditioning, RSI can provide the necessary replacement components and parts – all manufactured to original specifications so there is no problem with fit or performance.

We want to help you maintain the efficient operation of the Nesbitt heating, ventilation and air conditioning equipment in your building. For more information contact RSI Nesbitt.

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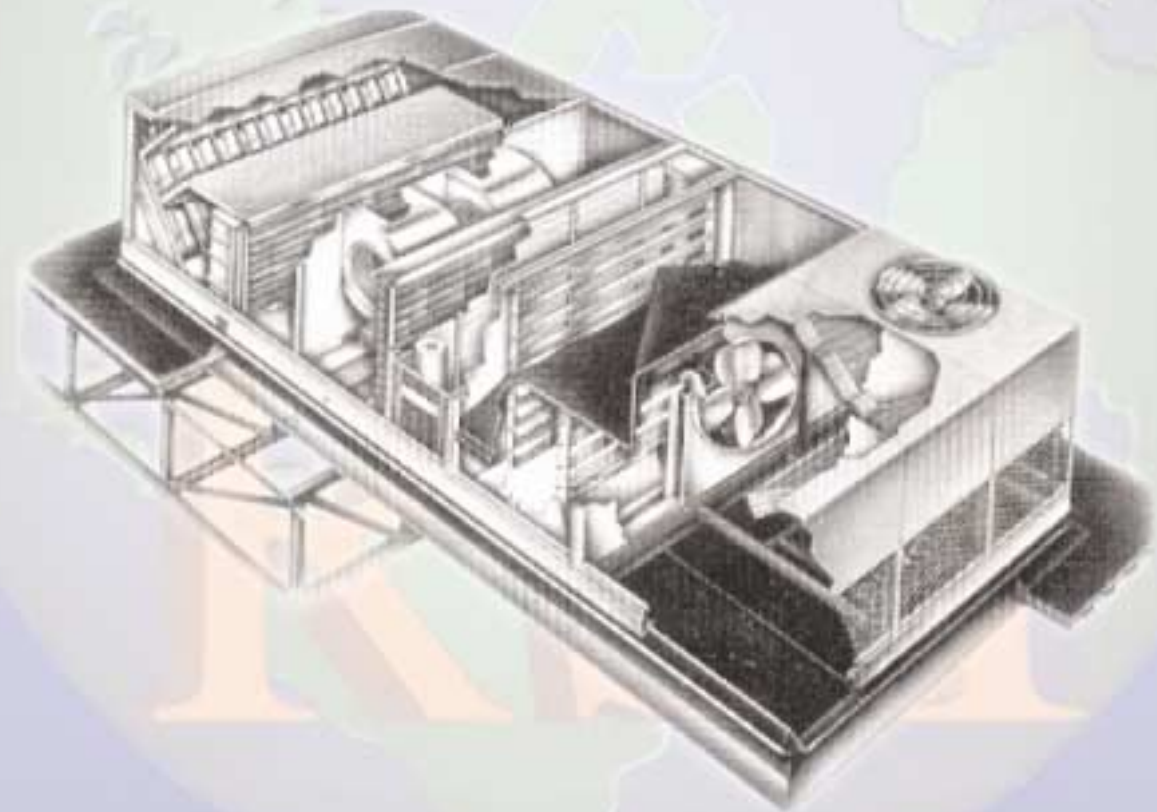
 **nesbitt**™ Your Local Representative is:



“NEW” HIGH EFFICIENCY Rooftop Systems

for Replacement on Existing Structures or New Construction

- Low Profile Cabinet, Retrofit to Existing Roofcurb
- No Increase Required to the Existing Electrical Service



ARI STANDARD IPLV EFFICIENCIES EXCEED 10:1EER



www.rsicomp.com



Efficiencies Exceed **10:1 EER** & VAV Systems

Nesbitt through the years built an enviable reputation for introducing innovative products for the school industry, as well as the institutional and commercial markets. There is a recognized need by facilities managers for replacement components and parts to maintain the efficient operation of Nesbitt equipment already installed. In the year 2001, RSI Company purchased the remaining Nesbitt assets, including inventories, tooling, production and engineering documents, patents and the Nesbitt trade name.

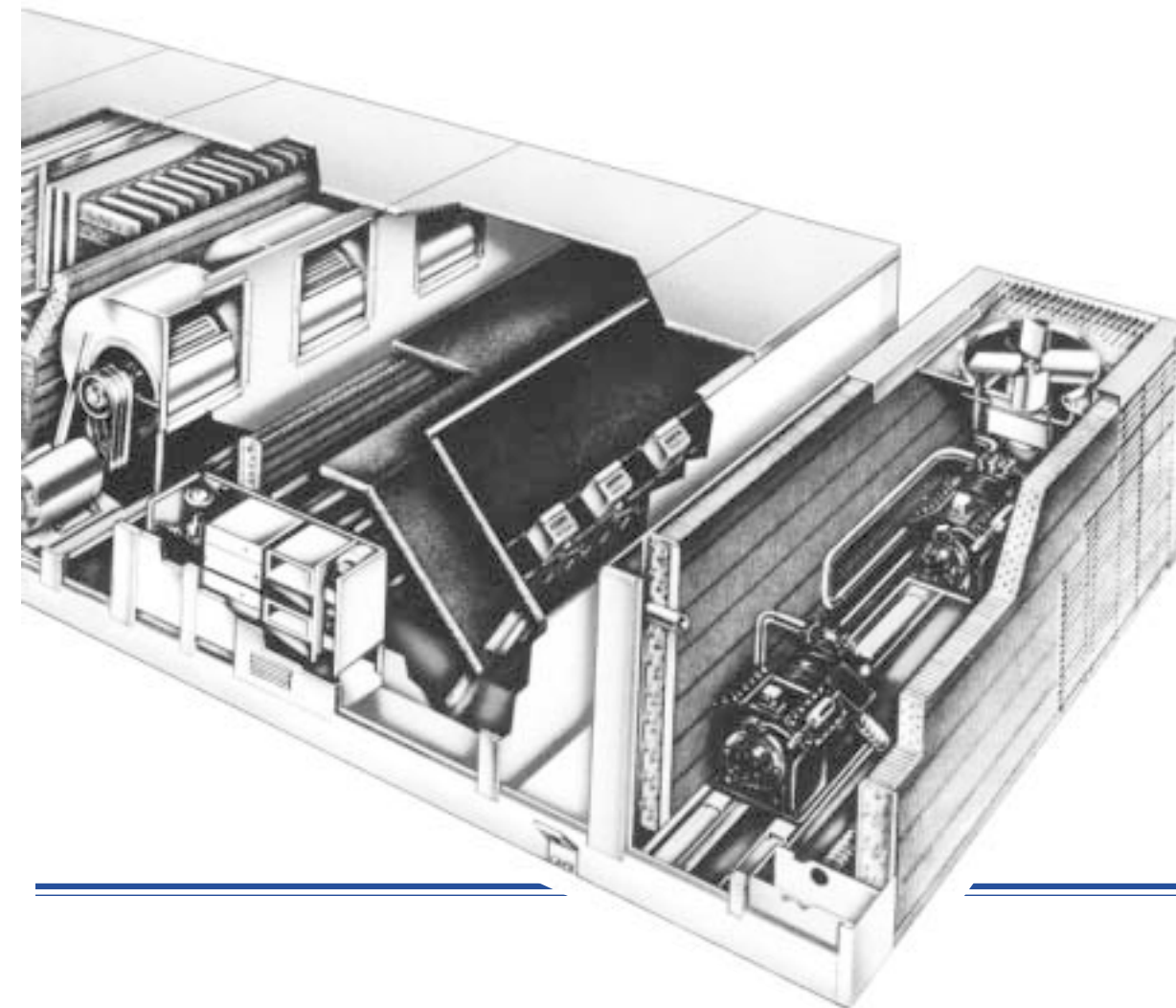
The fact is, the average Nesbitt rooftop unit has provided nearly 30 years of service. No other product brand can make that claim. In this regard, we look forward to re-establishing the Nesbitt Rooftop product to its long recognized place in the HVAC industry.



Nesbitt pioneered the development of the rooftop multizone system to accommodate the thermal requirements of multiple learning spaces. In addition to meeting the demands of educators for divisible learning spaces, the rooftop multizone systems helped to reduce the cost of construction in a period of escalating prices. The entire heating, ventilating and air conditioning

system could be factory assembled and tested prior to delivery to the job-site, then lifted to the roof in one piece for mounting on a pre-installed roof curb. One of the benefits being the units consumed no interior space. As a result, thousands of schools, as well as commercial, industrial, and other institutional buildings were built with the thermal environment provided by the Nesbitt rooftop systems.

Today, many of those original Nesbitt rooftop systems (many 25 to 35 years in service) are in need of reconditioning or outright replacement. Once again, RSI Nesbitt can meet those requirements with units and parts manufactured to the same high standards for excellence originally established by Nesbitt.



Casing Construction

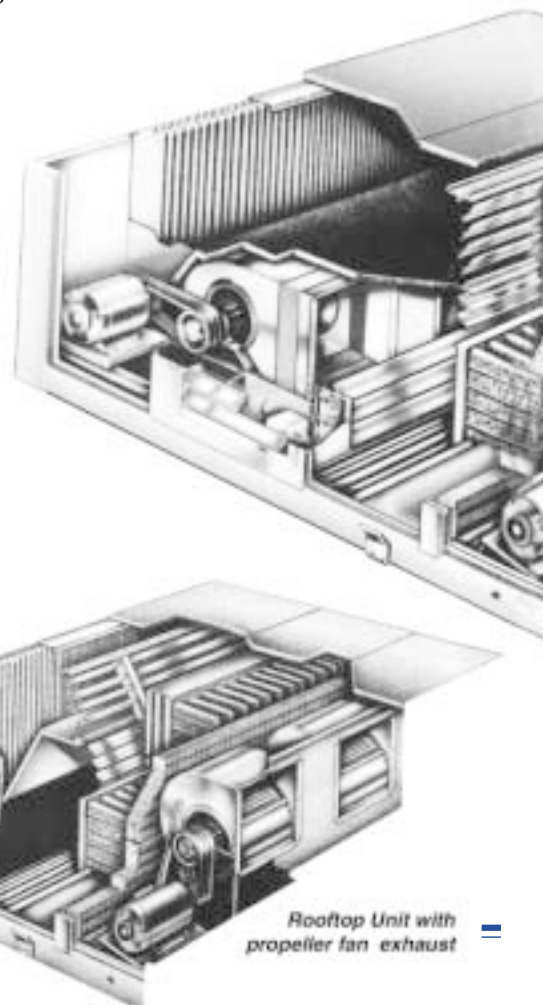
Weatherproof cabinet design constructed of heavy gage galvanized steel panel construction. Medium gray exterior finish of several coats of high quality enamel paint, surface cleaning includes machine and solvent preparation. Sloped roof and condenser floor section to ensure positive water shedding. The base of the cabinet includes a formed recess to mate and seal with the existing or new roof curb. The base rail includes provisions for positive water drainage. A resilient sealing gasket shall be factory installed in base recess to provide a positive seal when the unit is installed on the curb.

Replacement 17-60 Ton nesbitt™ For Multizone, Singlezone

RSI Nesbitt is manufacturing replacement rooftops with the original “*low profile*”, *identical weight distribution, designed to fit the existing roof curb.*

With the following superior features:

- ✓ **High EER Ratings Exceed 10:1**
 - Scroll Compressors
 - HI-E ODP Motors
 - High Performance Coil Designs
- ✓ **Drum and Tube Heat Exchanger (80% to 85% efficient)**
 - Multiple Stage Burners
 - Full Modulation 10:1 Turn-down (optional)
- ✓ **Refrigerant Reheat Coil**
 - Assures Positive Dehumidification
 - Saves Energy At Part Load Conditions
- ✓ **Stainless Steel Drain Pan**
- ✓ **Single Point Power Entry Control Panel**
 - Includes Main Power Disconnect
- ✓ **Fully Programmable DDC (Optional)**
 - Operator Remote Keypad Station
 - Features Open Protocol Communications
- ✓ **Solid State Controller (Standard)**



FEATURES ...

Choice of Models

SINGLEZONE – 17 thru 60 ton cooling capacity. Natural Gas, Propane, Electric, Steam or Glycol heating.

MULTIZONE – accommodates up to 20 separate zones, 17 thru 60 ton cooling capacity. **VARIABLE AIR VOLUME** – Low pressure, low velocity system interfaces with all VAV boxes, 17 thru 60 ton.

One Piece Construction

Replacement Nesbitt rooftop units are complete pre-assembled, factory pre-tested HVAC systems. They include all refrigeration and heating components, fans, dampers, piping, wiring, controls – even the main power disconnect – all in one assembly. The result is faster, simpler, less costly replacement.

Consider these Facts If Your nesbitt™ Rooftop System Needs Replacement

When the original rooftop units were selected for your building, the architect and engineer gave careful consideration to the placement of the units from the standpoint of structural support, distribution ductwork, access to power and gas lines, as well as sound levels within the spaces served. Modification of any one of these factors could entail redesign and reconstruction of many elements of the building at considerable expense.



Modification of existing duct connections and control zones can get expensive. The replacement unit that duplicates the original number and size of ducts and control zones can simplify the task and save time and labor.

Selecting an exact replacement RSI Nesbitt rooftop system, updated to current standards for energy conservation and “state of the art controls”, is the logical decision both from the standpoint of costs as well as the time involved to rejuvenate the HVAC system.

For example, the recent installation of two replacement units was accomplished on a weekend without any lost time on the part of the building occupants. During that period of time, the existing units were removed from the roof, the new units lifted and set in place on the existing



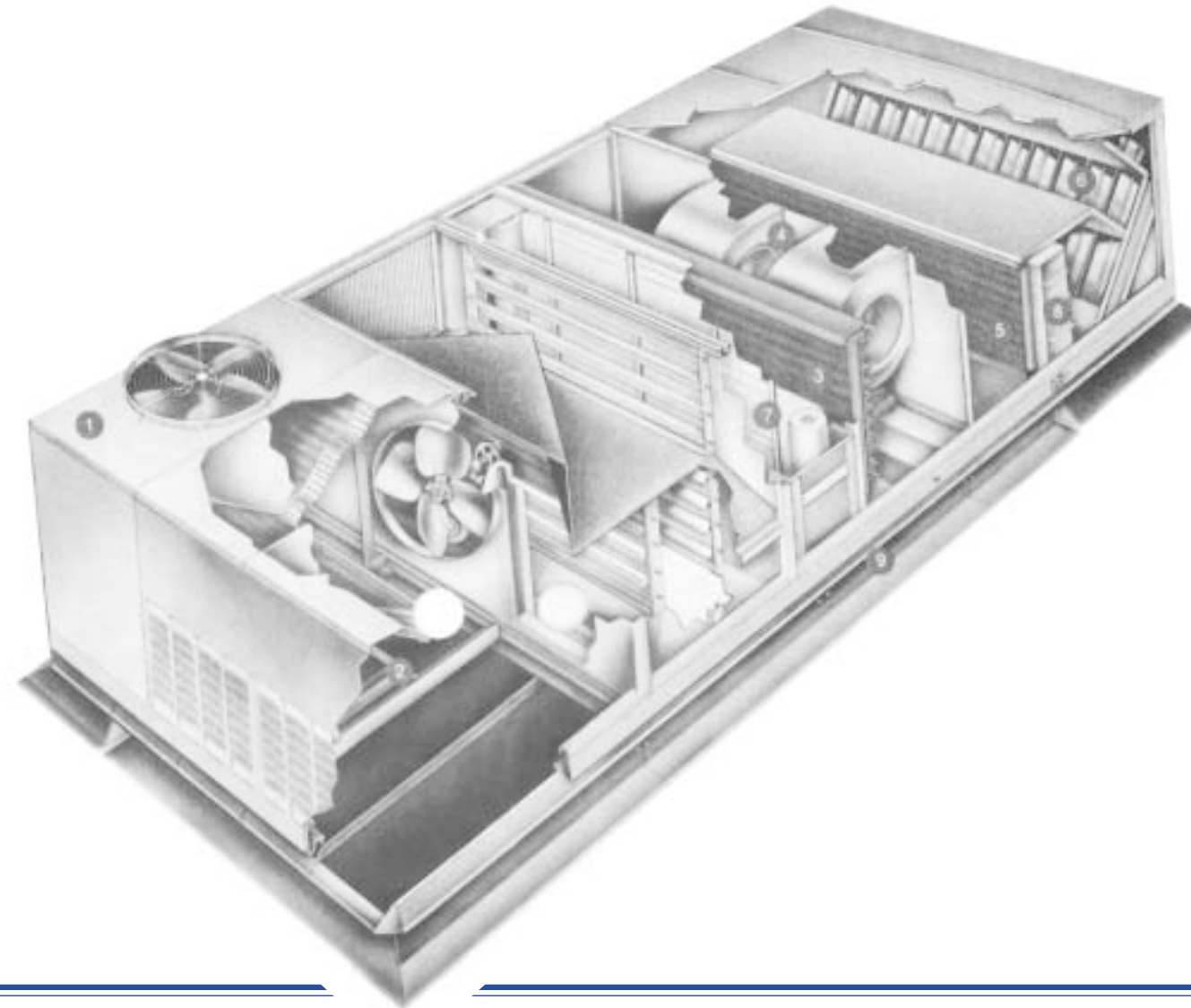
curbs, electric power and gas lines were reconnected and all ducts and control wiring reinstalled. All systems were operational before anyone returned to the building on Monday morning. The building owner / operator suffered no downtime and the savings achieved from the standpoint of actual costs were substantial.

Replacing Nesbitt rooftop systems with new units manufactured to duplicate the specifications of the original installation also eliminates the need to retrain maintenance personnel.

17 – 32 Ton nesbitt™ Rooftop Multizone Units

Efficiencies Exceed 10:1 EER

RSI is producing the original Nesbitt Rooftop Multizone units with an improved galvanized casing; designed with a three break sloped roof. Cooling capacities range from 17 to 32 nominal tons. Manufactured with improved engineering designs and updated features, they weigh no more than their original aluminum counterparts and will mount on the existing roof curb without structural modifications. Unit configuration as well as the distribution of weight of the replacement Nesbitt is a critical factor, because generally any modification of the existing building structures are not considered as part of the “replacement project”. Existing control zones and duct connections can be maintained with little or no modifications. Exact replacement units can reduce or eliminate the required retraining of maintenance personnel. Thus, replacement of complete units can be accomplished quickly and economically to extend the life of existing facilities. To further facilitate this process, RSI does offer complete operation and maintenance training for new unit installations.



Legend

¹ Galvanized Steel Casing ² Semi-hermetic or Scroll Compressors ³ Evaporator Coil ⁴ Main Blower Fan Assembly ⁵ Refrigerant Reheat Coil ⁶ Over/Under Hot & Cold Deck ⁷ Selection of Filters ⁸ Tubular Gas Fired Heat Exchangers ⁹ Roofcurb Interface

Nominal Cooling	EER	Nominal Cooling	EER
17 TON	10.4	34 TON	10.1
22 TON	10.8	35 TON	10.4
24 TON	10.2	40 TON	10.9
25 TON	10.2	42 TON	10.2
30 TON	10.5	49 TON	10.4
32 TON	10.4	58 TON	10.8

Achievable EER ratings based on optimal cfm capacities 80°/67° F air entering evaporator with 95° F condenser air.

Contact your NESBITT Representative for EER ratings or specific application conditions.

FEATURES ...

Choice of Fuels

Units are available for use with Natural Gas, Propane, Steam, or Electric heating elements. Natural Gas units employ high efficiency Drum and Tube heat exchangers made from stainless steel. Units originally manufactured with electric heating can be converted to Natural Gas with little impact on the overall unit weight.

Choice of Control System

The replacement Nesbitt rooftop multizone systems can be equipped with an advanced Digital Controlled System to increase energy efficiency even further, as well as improve the ability to maintain the system. The standard control is a time proven Solid State Control System.

Refrigerant Reheat

A standard feature for Nesbitt saves energy and reduces operating costs. Assures positive dehumidification of all spaces. The system features head pressure control and a two row reheat coil applied to maximize reheat capability at part load conditions. The mechanical heat source is locked out when refrigeration operates.

Mixed Air Dampers

Full edge wiping seal on both edges and ends for tight close-off. All linkage is internal, protected from freezing rain and snow. Outside air dampers are “certified low leak”, closing automatically with a power failure. Programmed control of mixed air damper will maintain positive building pressure, eliminating infiltration.