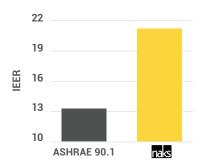


HEATING, VENTILATION, & AIR CONDITIONINING SYSTEM

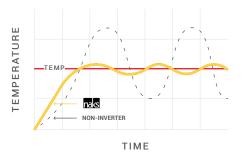
NAKS HVAC offers exceptional energy savings, unprecedented comfort, and precise humidity control. This unit is the ideal HVAC solution for schools, hospitals, restaurants, grocery stores, hotel corridors, and any commercial application that requires conditioned outdoor air.

SUPERIOR ENERGY EFFICIENCY



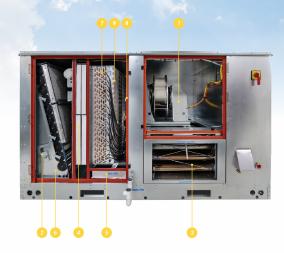
NAKS HVAC achieves an impressive 21.3 Integrated Energy Efficiency Ratio (IEER) rating which is 1.5x the ASHRAE 90.1-2019 IEER standard. Designed with the future in mind, the unit is poised to exceed rising IEER standards for years to come.

PRECISE TEMPERATURE & HUMIDITY CONTROL



NAKS HVAC contains fully modulating refrigeration and optional hot gas reheat components that deliver the exact amount of air requested at the desired temperature and humidity. Variable speed components allow NAKS HVAC to adjust its heating and cooling capacity to match the required load. This provides a consistent temperature throughout the space and avoids large temperature swings often associated with single stage equipment.





VARIABLE SPEED DIRECT DRIVE SUPPLY FAN

High efficiency Variable Frequency Drive (VFD) or Electronically Commutated Motor (ECM) options available Low maintenance and reduced failures due to brushless/beltless design

LOW-LEAKAGE OUTDOOR AIR DAMPER

Modulates to meet variable outdoor air requirements - exceeds AMCA Class 1A Leakage Standards Low entering air velocity prevents debris or precipitation from entering the unit airstream

AVERAGING TEMPERATURE SENSOR/HUMIDITY SENSOR

Averaging Intake, Indoor Coil, and Discharge temp sensors provide accurate readings for unit modulation

UP TO THREE LAYERS OF OUTDOOR AIR FILTRATION

Standard 2' metal mesh outdoor air filters Filtration options available: 2" thick MERV-8 & 13, 4" thick MERV-15 & HEPA

STAINLESS STEEL SLOPED CONDENSATE DRAIN PAN

Insulated drain pan allows for easy maintenance and serviceability exceeding ASHRAE standards

SMOKE DETECTOR (OPTIONAL)

Monitors "fire activity" in the return airstream and shuts down blower to protect unit from smoke or fire damage

Up to 7-row coil with staggered design allows for optimal equipment efficiencies, full conditioning of outdoor air.

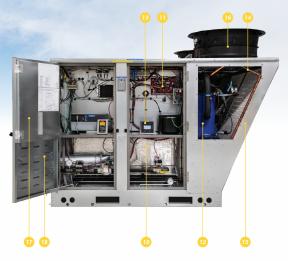
sture control through increased residence time of airstream, and reduces supply air bypass

ELECTRONIC EXPANSION VALVE

Provides automated superheat control and monitoring by modulating from 0-100%

FULLY MODULATING HOT GAS REHEAT COIL (OPTIONAL)

Provides highly accurate humidity/temperature control



MODULAR/SPLIT MANIFOLD HEATING (OPTIONAL)

Natural gas indirect fired furnace with constant 81% efficiency throughout modulation (other options available) Enhanced heating turndown (18:1) for minimum temp. rise at low loads

11 INTEGRATED CONTROLS

In-house controls developed using multiple PID loops with several control offerings Available extreme low ambient logic allows for DX cooling operation in ambient conditions down to -25°F

DANFOSS VARIABLE SPEED INVERTER SCROLL COMPRESSOR

Modulating and throttling ability to provide precise load matching with reduced energy consumption Variable Frequency Drive (VFD) provides phase and over-amp protection to maximize life of unit

HUMAN MACHINE INTERFACE (HMI)

Up to 7-row coil with staggered design allows for optimal equipment efficiencies, full conditioning of outdoor air, moisture control through increased residence time of airstream, and reduces supply air bypass Customizable user-friendly interface allows for simple programming of settings

HEAVY DUTY PIPING & SUPPORTS

Hanging supports and vibration isolators prevent refrigeration piping from moving during transport and operation Machine-bent copper piping reduces amount of brazes and possible failure points

OUTDOOR COIL HAIL GUARD (OPTIONAL)

Protects outdoor coil from damage, correctly sized to ensure a clean overall look with total protection

VARIABLE SPEED OUTDOOR FANS WITH EC MOTORS

10:1 turndown maintains peak efficiency for all outdoor air conditions, aerodynamically designed bionic blades

DOUBLE WALL, GALVANIZED STEEL CONSTRUCTION

Corrosion resistant galvanized steel insulated with 2" thick, R13 closed cell foam or 1" thick, R4.3 fiberglass board

REMOVABLE HINGED ACCESS DOORS

Allow for easier maintenance and serviceability - fully insulated control cabinet reduces condensation

NAKS HVAC System Sizing & Specifications

Nominal Tonnage	3-60
Air Volume (CFM)	500-15000
Indoor Coil Rows	4-10
Cooling Turndown Ratio	Up to 17.5:1
IEER	Up to 21.3
Heating Turndown Ratio*	Up to 25:1
Furnace Input Capacity (MBH)	50-1100

Electric Coil Capacity (kW)	
Curb Size (L x W)	
Unit Length	
Unit Width	
Unit Height	
Approximate Weight (lbs)	
*Contingent upon heat source **Certified to UL Standard 60335	