

PRODUCT DESCRIPTION

HIGH PERFORMANCE

The Krueger KHG Series A horizontal high performance fan coil units are designed to maximize flexibility of selection and installation.

The units are also designed to exceed the stringent quality standards of the institutional market, while remaining cost competitive in the light commercial segment of the market.

Krueger horizontal fan coil units set the new standards for quality, flexibility, and competitive pricing.

DESIGN FLEXIBILITY

The extensive variety of standard options available on the KHG Series A units are where you find the versatility to fit any HVAC system designer's needs.

Options include: mixing box with linkage, rear or bottom ducted return, foil faced or elastomeric closed cell foam insulation, solid or telescoping bottom panels for unit recessing, single wall stainless steel drain pans, and electric heat with single power connection. All electric heat units are listed with ETL as an assembly and carry the cETL label.

All units comply with the latest edition of AHRI Standard 440 for testing and rating fan coil units, are certified, and display the AHRI symbol.

High efficiency motors, fan relays, disconnects and fusing mean easier coordination between mechanical and electrical trades.

Coil options allow for three, four or six row chilled water or DX coils. One to four row hot water or one and two row standard steam coils may be placed in the preheat or reheat position.

QUALITY PRODUCT

KHG Series A fan coil units are built from galvanized steel. Exposed Model KHGE cabinetry is powder coated galvanized steel.

Standard insulation is 1/2 inch thick fiberglass, complying with UL 181 and NFPA 90A. Optional foil faced or elastomeric closed cell foam insulation may be specified.

All units, with or without electric heat, are cETL listed and labeled. All wiring is in compliance with NEC, assuring safety and quality for the owner.

KHG Series A fan coil units have a removable fan assembly. The entire fan assembly can be removed from the unit and serviced easily on a workbench.

CONVENIENT INSTALLATION

All KHG Series A fan coil units are shipped completely assembled, reducing field installation time and labor. All units are thoroughly inspected and tested prior to shipment, eliminating potential problems at startup. Motor wiring is brought to a junction box on the outside of the unit casing, reducing electrical hook-up time.

Plenum units are field convertible for either rear or bottom return without the need for special adapters and tools.

All KHG Series A fan coil units have a bottom and side access electrical enclosure, allowing easy access to all electrical components, terminal blocks and wiring.

Available factory installed control packages can greatly reduce field labor and setup time. Consisting of control transformer and all needed relays, these packages integrate seamlessly with either factory provided thermostats or field installed thermostats and controllers.

Factory furnished valve packages assure proper fit, operation and performance. Valve packages are completely assembled and shipped loose with the units.

KHG - SERIES A

Horizontal | High Capacity



PRODUCT DESCRIPTION (CONTINUED)

STANDARD FEATURES

Construction

All Units

- AHRI 440 certified and labeled
- Galvanized steel construction
- 1/2" thick fiberglass insulation
- 1 1/2" duct discharge collar
- Four point hanger mounting brackets

Plenum units

- Integral filter rack with 1" throwaway filter
- Integral rear ducted return - field reversible to bottom return

Exposed units

- Single deflection rear return grille
- Double deflection discharge grille
- Durable powder coat paint
- 18 gauge cabinet construction

Coils

- AHRI 440 certified and labeled
- Cooling - 3, 4 or 6-row chilled water or DX, heat pump compatible
- Heating - 1, 2, 3 or 4-row hot water or 1 or 2-row steam - reheat or preheat position
- 8 total rows of cooling and heating coils maximum
- 3/8" O.D. seamless copper tubes
- 0.012" tube wall thickness
- High efficiency aluminum fin surface for optimizing heat transfer, pressure drop and carryover
- Left or right-hand connections
- Manual air vent

Drain Pans

- Single wall, galvanized steel, externally insulated – fire retardant and antimicrobial closed cell foam
- Sloped to drain connection
- Tool-free removable
- 7/8" O.D. primary drain connection

Fan Assemblies

- Forward curved, DWDI centrifugal type
- 115 volt, 1-phase, 3-tap PSC motors
- Quick disconnect motor connections
- Removable fan(s)/motor(s) for service

Electrical

- cETL listed for safety compliance
- Electrical junction box for field wiring terminations
- Terminal block for field connections

Electric Heat

- cETL listed as an assembly for safety compliance
- Integral electric heat assembly with removable elements for easy service
- Automatic reset primary and back-up secondary thermal limits
- Single point power connection
- Bottom-hinged electrical enclosure

OPTIONAL FEATURES

Construction

All Units

- Foil faced fiberglass insulation
- Elastomeric closed cell foam insulation

Plenum Units

- Bottom return
- Mixing box with top/rear or rear/bottom dampers - field reversible
- Damper actuator
- Spare 1" throwaway filters; 1" and 2" pleated filters

Exposed Units

- Single deflection bottom return grille
- Ducted supply and rear return

Coils

- Automatic air vents
- Stainless steel coil casings
- 1/2" O.D. seamless copper tubes (0.016" or 0.025" tube wall thickness)

Drain Pans

- Stainless steel with external insulation
- 5/8" O.D. secondary drain connection
- Auxiliary drip pans

Fan Assemblies

- 208-230 & 277 volt, 1-phase, 3-tap PSC motors
- EC motors

Electrical

- Side access electrical enclosure
- Silent solid state fan relays
- SCR fan speed controller (only for high speed)
- Toggle disconnect switch
- Condensate overflow switch (drain pan)
- Main fusing
- Unit and remote mounted 3-speed fan switches
- Fan relay packages
- Control power transformers

Electric Heat

- Door interlocking disconnect switches
- Main fusing
- Silent relay / contactor

Piping Packages

- Factory assembled – shipped loose or pre-installed
- 1/2", 3/4", and 1", 2 and 3-way normally closed, 2-position electric motorized valves
- Isolation ball valves with memory stop
- Fixed and adjustable flow control devices
- Unions and P/T ports
- Modulating control valves

Thermostats

- Remote mounted analog, digital display or programmable
- 2 and 4-pipe control sequences
- Automatic and manual changeover
- Integral 3-speed fan switches

CONSTRUCTION HIGHLIGHTS

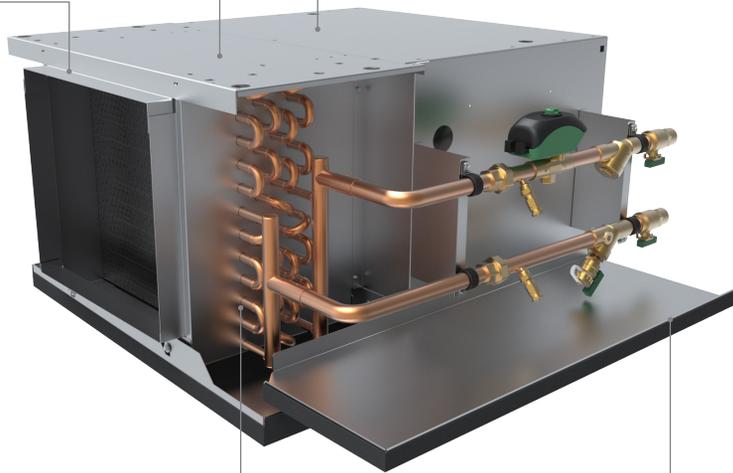
1/2" thick fiberglass insulation (standard) or foil faced or elastomeric closed cell foam insulation (optional)

Integral filter rack with 1" filter and integral rear ducted (shown) or bottom return on all plenum units. Optional 2" filter available.

Galvanized steel casing

1" minimum duct collar allows quick field connection of duct work

ETL and AHRI 440 listed and labeled



Coils are AHRI 410 listed and labeled

Chilled water or DX cooling coils up to 6 rows

Hot water heating coils up to 4 rows, or steam coils up to 2 rows can be mounted in the preheat or reheat position. Maximum of 8 rows total.

Permanently lubricated, three tap, PSC fan motors designed for quiet and efficient operation

Single point power connection on all units with electric heat

Single wall galvanized or stainless steel (optional) drain pans are sloped to drain connections.

Drain pans can be easily removed for cleaning. Available with optional auxiliary drip pan (shown above).

Optional electric resistance heat is ETL listed as an assembly for safety compliance

Enclosure allows easy side access to all electrical components

Removable fan assembly for bottom or rear access and servicing

KHG - SERIES A

Horizontal | High Capacity

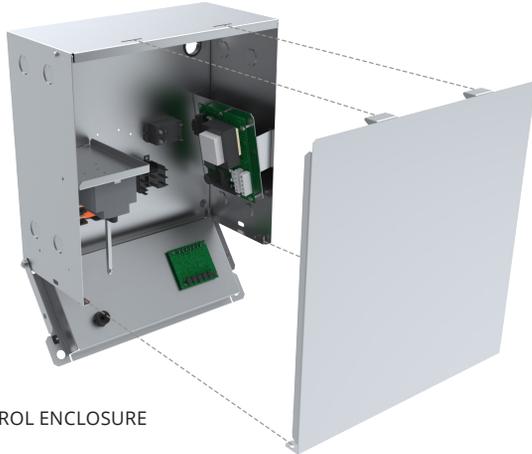


FAN COIL UNITS | HORIZONTAL, HIGH CAPACITY

KHG - SERIES A

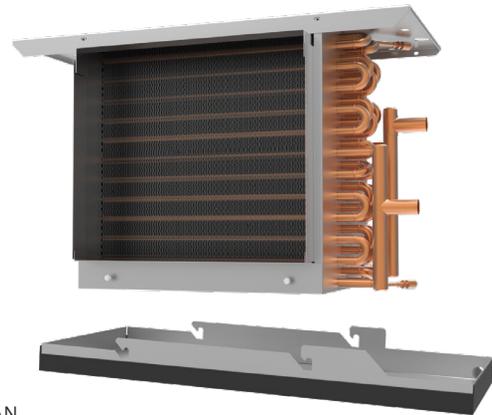
CONSTRUCTION HIGHLIGHTS

ELECTRICAL ENCLOSURE: The side access electrical enclosure provides access to all electric heat and control components. Terminal strips are furnished for simple power and control wiring connections. Multiple knockouts allow wiring entries from either side of the compartment.



CONTROL ENCLOSURE

DRAIN PAN: Standard drain pans are externally insulated, single wall galvanized steel with an option for stainless steel. Drain pans are available with secondary drain connection. On concealed models, the KHG Series A drain pan is easily removable for cleaning.



DRAIN PAN

MIXING BOX: The optional fully insulated mixing box section comes completely assembled to the KHGP unit, featuring low leakage, heavy gauge steel dampers with integral linkage. Damper positioning is field configurable and bottom filter access is standard. An optional factory provided and installed damper actuator is also available.



MIXING BOX

FILTERS: 1" throwaway filters are tight fitting to prevent air bypass. Filters are easily removable from the bottom without the need for tools. The filter rack is convertible from rear to bottom return without the need for additional parts. Optional 1" and 2" pleated filters are available for use with the KHGP unit.



FILTERS

COILS: All fan coils are available in 2 or 4-pipe configurations. The heating coil may be placed in the reheat or preheat position.

POWDER COATED PAINTED SURFACE: Exposed cabinet model KHGE features a powder coat finish that resists scuffing, scratching, fading, and fingerprints.