



A+SERIES[™] A+P Penthouse Unit





A+P IS A **ROOF-MOUNTED**, **INSULATED**PENTHOUSE AIR COOLER FOR INDUSTRIAL APPLICATIONS

Colmac Coil's A+P Penthouse unit is designed for maximum versatility and efficiency. With availability for ammonia, freon, CO2 and glycol systems and capacities from 5 - 90TR, A+P is the perfect fit for cold storage warehouses and food processing plants.

Choose from three standard configurations:

- **►** Complete unit
- ► Coil, Base, Fans, Structural Frame
- ► Coil with Drainpan and Legs Only

"The Heat Transfer Experts"





FOAM IN PLACE BY OTHERS -STEEL ROOF SUPPORT

Base Construction

- · Structural steel perimeter frame
- G235 galvanized metal bracing and support structure
- Fully primed and painted frame members
- Integrated welded lifting brackets
- · Standard seismic design complies with SDC=D, Occupancy design=11, Site Class=D
- · Standard design withstands 90mph wind speed
- · Optional increased seismic and wind speed available

Base Features

- · Standard design for installation on flat roof
- · Optional pitched base up to 2" in 10'
 - · Pitched along length or width
 - · Ships installed on base of unit
- · Roof to panel interface by others in field
- · Side drain connection to roof
- · Optional drain into building



Support Frame

- G235 galvanized metal interior support frame
- · Access doors standard on both sides of unit, maximized based on unit height
- · Galvanized steel grating on both sides of coil standard









- Interior LED lighting
- · Individual light switches inside each door
- 120 V service outlets on both sides of coil
- · Full height access on both sides of coil
- · Door heat trace standard
- · Door safety interlocks optional
- Individual removable grating sections above each fan for motor access
- · Motor hoist arm movable between each fan bay
- Traction strip on smooth metal floor surfaces
- Electrical runs on interior of unit in EMT sealed conduit



Tube Axial Fans

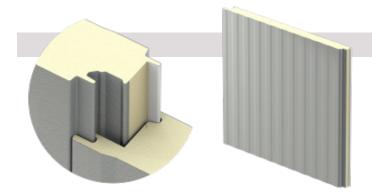
- 1 to 10 HP premium efficiency motors
- · Bench style mount motor
- Top mount fan for easy maintenance access to fan and motor from unit interior
- Round discharge flange for duct extension or plenum mounting standard



Roof Construction

- Full welded PVC roof membrane (vs. EPDM)
- Mechanically fastened at perimeter and intermediate points
- Termination bar and edge trim around perimeter of roof
- Full triple seal vapor barrier under roof membrane
- Optional increased roof panel thickness/R-value available
- · Optional sloped roof available





Insulated Panel Construction

- · Foamed-in-place polyurethane foam panels
 - Assembled with offset tongue and groove for thermal break
 - Utilizes concealed fasteners to eliminate thermal short circuits
 - All panel joints/corners employ triple seal process to ensure full vapor barrier seal
- Interior and exterior surface is embossed 26GA galvanized steel
 - · Interior polyester coating in igloo white
 - Exterior silicone modified polyester coating in winter white
- 5" R-41 standard panel thickness
- · 6" R-49 optional roof panel thickness
- · Optional color matched panels available





Insulated Doors

- · Hercules in-fitting door with frame standard
- Exterior overlap door seal with door heat trace
 - · Fully powder coated hardware
 - Metal wrapped composite frames and jamb (no wood)
- · Optional: Frank in-fitting door with frame
 - Exterior overlap door seal with door and jamb heat trace
 - · Increased R value
 - Rotary latch with SST and composite hardware
 - Extruded aluminum frames and PVC jamb (no wood)





Electric Features

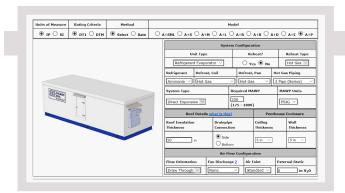
- Motor control panel
 - NEMA 4 enclosure standard
 - Remote and local operation
 - · Optional VFD
- · Weather hoods standard
- EEV control for ADX system
 - Separate enclosure and disconnect for low voltage 24V
- Motor and service circuits wired to terminal strips standard
- Customized UL508 listed control panels available for all units
 - Single point wiring optional
 - · Remote and local control
 - Optional VFD



Additional Options

- · Ammonia detection system
- 90-degree duct extensions
- · Stainless steel interior
- · Washdown duty components





Selection Software

- A+Pro software now allows you to select or rate A+P penthouse evaporators to match your project requirements and provides you with complete performance, dimensional, electrical, and installation information.
- A+P selections can be sorted and prioritized in order of:
 - Lower first cost
 - Lowest operating cost (Fan kW/TR)
 - Smallest refrigerant charge
 - · Lightest weight
 - · Lowest noise level



Warranty

- B31.5 standard 5-year warranty on all pressure bearing elements (tubes, headers, connections, weld joints) in our stainless steel ammonia evaporators
 - · Standard 2-year warranty for all other parts



Shipping

- All units designed to ship fully assembled
- Over width as needed up to 144"
- · Below 102" tall on a standard flatbed
- Between 102" and 120" tall on step deck flat bed
- Above 120" tall on double drop flat bed
- Freight quotes in A+Pro



Quality Products From Colmac Coil







Heat Pipes for Heat Recovery





www.colmaccoil.com "The Heat Transfer Experts"

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CRN



CSA

ASME Sec. VIII, Canadian Registration Number, UL508, Canadian Standards Association