

MODEL CAUA - INDOOR HEATING AND MAKEUP AIR UNITS

Provide indoor, gas fired, power-vented packaged heating (air conditioning and ventilation) units Model CAUA as manufactured by Reznor®. Unit shall be certified to ANSI and C.G.A. Standards for commercial/industrial installation. Equipment shall be of size and type shown on the equipment schedule herein. Unit(s) shall comply with all specifications set out below. They shall be self-contained, factory assembled, and test fired before shipment, having a minimum efficiency of 80%. Heater(s) shall be equipped for 230 (208) Volt, single phase (208/230/460/575 Volt, three phase), 60 Hz supply voltage. Units shall include a 24 volt control voltage transformer. Unit shall be arranged for installation up to 2,000 feet (2,001 to 9,000 feet).

(Unit shall provide air conditioning/cooling as well as heating by use of a separate Cooling Coil Cabinet that will be shipped separately for field installation - Model ACU as manufactured by Reznor. Cased cooling coil shall include "A" Coil with R22 Refrigerant, thermal expansion valves, stainless steel drip pan, 3/8" rifled copper tubing with aluminum fins. Cased cooling coil cabinet shall be painted to match heating section.)

Units shall be fitted with orifices to natural gas (propane) fuel. Heat exchanger shall be tubular in shape, composed of aluminized steel (stainless steel). Burner rack shall be removable and be an assembly of inshot burners designed to provide controlled flame stability without lifting or flashback.

Unit shall have a painted cabinet. Cabinet shall be insulated for indoor installation. Units shall be configured for vertical - up - airflow. Unit shall be configured for recirculation (makeup, combination recirculation and makeup) air. Cabinet shall have corner indicators to allow for field determination of return air inlet to the rear, right side, left side, or bottom of the unit (and include an air mixing box) (filter cabinet). Cabinet shall be floor mounted (mounted on a separate air inlet). The unit shall have a vertical discharge outlet with duct flange. Cabinet shall have an access panel on the front of the unit for service access.

(Cabinet shall include a mixing box with damper(s) with selection of actuators and controls with (without) filters shipped complete for factory installation. Mixing box shall include dampers of vinyl blades and stainless steel jamb seals rated at 10 cfm/sq ft. leakage at 2.0" pressure differential. Mixing box shall have duct flanges for attaching ductwork. Mixing box shall have removable door panels for service access to filters.)

(Unit shall include a filter cabinet with 2" filters that shall be shipped

separately for field installation).

(Unit shall include a mounting base with adjustable legs that will be shipped separately for field installation. Mounting base shall consist of guarded openings [with disposable flat filters], [with permanent aluminum filters], [with pleated disposable filters].)

(Unit shall include a screened discharge plenum with openings on all four sides [blockoff plates for 2 or 3 sided discharge - field installation], blockoff plates for use with cased cooling coil cabinet - field installed].)

Unit shall be installed as a (separated combustion) power-vented unit. (Separated combustion air and exhaust air shall be vented through a single penetration in the wall or roof by means of a concentric adapter.)

Controls shall include a single-stage (two-stage) gas valve, direct spark ignition with 100% shut-off, a power venter, a combustion air pressure switch and a safety limit switch. Operation shall be controlled by an integrated circuit board that includes an LED diagnostic indicator light. The circuit board shall monitor the heater operation and indicate normal operation as well as identify any abnormalities in the control functions.

Blower shall be centrifugal type, forward curved, Class 1. Blower motor shall be 230 volt, open/dripproof, direct drive, with internal overload protection. (Belt drive shall be adjustable for up to 2.0" ESP).

(Unit shall be equipped for vibration isolation.)

Units shall have a 5 year limited warranty against defective operating components and 10 year limited warranty on the heat exchanger.

Units shall be design-certified by the Canadian Standards Association (ANSI Z83.8-1996 and C.G.A. 2.6-M96 for industrial/commercial applications. Units shall be manufactured by an experienced company with at least 30 years in the commercial/industrial HVAC industry. Units shall be manufactured in an ISO 9001 registered facility.