



ANSI Z83.8a - Commercial/Industrial
CGA 2.6a - Commercial/Industrial



MODEL CAUA

INDOOR, GAS-FIRED, POWER-VENTED, SEPARATED/COMBUSTION, UPFLOW HEATING SYSTEM

STANDARD FEATURES

- Orifices for natural gas
- Centrifugal blower
- Burner rack with inshot burners
- Direct ignition with 100% lockout
- Single-stage combination gas valve
- 230/1/60 supply voltage
- 230 volt, open/dripproof, direct-drive blower motor with internal overload protection
- Tubular aluminized steel heat exchanger
- High temperature limit control
- Pressure switch to verify vent flow
- Integrated circuit board with LED diagnostic indicator light
- 24-volt control voltage transformer
- Insulated indoor cabinet with return airflow from bottom to top
- Vertical discharge outlet with duct flange
- Corner indicators to allow the installer to customize location of the return air opening (either rear, right side, left side, or bottom)
- Front service access
- Choice of power-vented, separated-combustion or power-vented only installation*



DESCRIPTION

The Model CAUA Series gas-fired, upflow, blower-type, power-vented, separated-combustion heaters are available in six sizes ranging from 150,000 to 400,000 BTUH gas input for use with either natural or propane gas. The Model CAUA line of heaters is design-certified by the Canadian Standards Association (CSA) for installation in the U.S. and Canada.

Standard functional features include a tubular aluminized steel heat exchanger, a removable burner rack, and centrifugal blower(s). The burner rack is an assembly of inshot burners designed to provide controlled flame stability without lifting or flashback. Standard controls include a single-stage gas valve; direct spark ignition with 100% shutoff; a direct-drive blower motor; a power venter; a combustion air pressure switch; and a safety limit switch. Operation is controlled by an integrated circuit board that includes an LED diagnostic indicator light. The circuit board monitors heater operation and indicates normal operation as well as identifying any abnormalities in the control functions.

The unit is designed to be installed either as a separated-combustion power-vented system or as a standard power-vented system. As a separated-combustion unit, combustion air is ducted from the outdoors and vented to the outdoors by using an approved vent/combustion air intake concentric adapter kit. As a power-vented unit, air for combustion is taken from the space where the heater is installed and vented outside using an approved vent cap.

Standard Model CAUA units are floor-mounted, vertical heaters designed to provide a "heated" environment using return supply air flowing from bottom to top. The top of the unit has a discharge air opening with a flanged duct connection. **With the addition of an optional cased cooling coil (Model ACU), the blower(s) can also be used to provide a "cooled" environment. The cooling capacity ranges from 60 to 180 MBH (5 to 15 tons).** Standard airflow capacity is for 1.0" w.c. ESP; optional drives provide airflow capacity up to 1.5" w.c. ESP on Sizes 150 and 200 and 2.0" w.c. ESP on Sizes 250 - 400.

Model CAUA Series units have a five (5)-year limited warranty against defective operating components and a ten (10)-year limited warranty on the heat exchanger.

TECHNICAL DATA

Size		150	200	250	300	350	400
BTUH Input	BTUH	150,000	200,000	250,000	300,000	350,000	400,000
	kW	44.0	58.6	73.3	87.9	102.6	117.2
BTUH Thermal Output (80%)	BTUH	120,000	160,000	200,000	240,000	280,000	320,000
	kW	35.2	46.9	58.6	70.3	82.1	93.8
Control Amps (24-volt)		0.9	0.9	1.1	1.1	1.1	1.1
Full-Load Amps (230V) @.6 ESP, 60°F Rise		6.2	6.6	12.7	13.1	13.6	13.8
Standard Motor (Quantity) HP		1	1	(2) 1	(2) 1	(2) 1	(2) 1
Standard Blower (Quantity) Size - inches		12x9	12x12	(2) 12x9	(2) 12x9	(2) 12x9	(2) 12x9
Air Volume @ 1.0" w.c. ESP	CFM	1,600-1,900	1,850-2,200	2,700-3,300	3,200-3,800	3,500-4,100	3,800-4,200
	m ³ /hr	2,718-3,228	3,143-3,738	4,587-5,607	5,437-6,456	5,946-6,966	6,456-7,136
Maximum CFM with Optional Belt Drive		2465@1.5"	3290@1.5"	4115@1.8"	4035@2.0"	5760@2.0"	6580@1.5"
Vent Connection Diameter (inches)		5	5	5	6	6	6
Gas Connection (inches)	Natural Gas	1/2	1/2	3/4	3/4	3/4	3/4
	Propane Gas	1/2	1/2	1/2	1/2	1/2	1/2
Approximate Net Wt	lbs.	288	300	380	394	445	464
	kg	131	136	172	179	202	210
Approximate Shipping Wt	lbs.	355	366	463	477	560	575
	kg	161	166	210	216	254	261

OPTIONAL FEATURES - Factory Installed

- Discharge plenum
- Orifices for propane gas
- Orifices for high altitude (2001-9000 ft)
- Tubular stainless steel heat exchanger
- Two-stage combination gas valve
- Adjustable belt drives for up to 2.0" ESP with open drip-proof, totally enclosed, or premium efficiency motor
- Vibration isolation
- 208 single phase supply voltage
- 208/230/460/575 three phase supply voltage

ACCESSORIES - Field Installed

- Model ACU cased cooling coil
- Horizontal or vertical concentric adapter combustion air/vent kit*
- Inlet air base
- Filter cabinet with 2" filters (assembly required)
- Mixing box with damper(s) with selection of actuators

and controls with or without filters (factory-assembled)

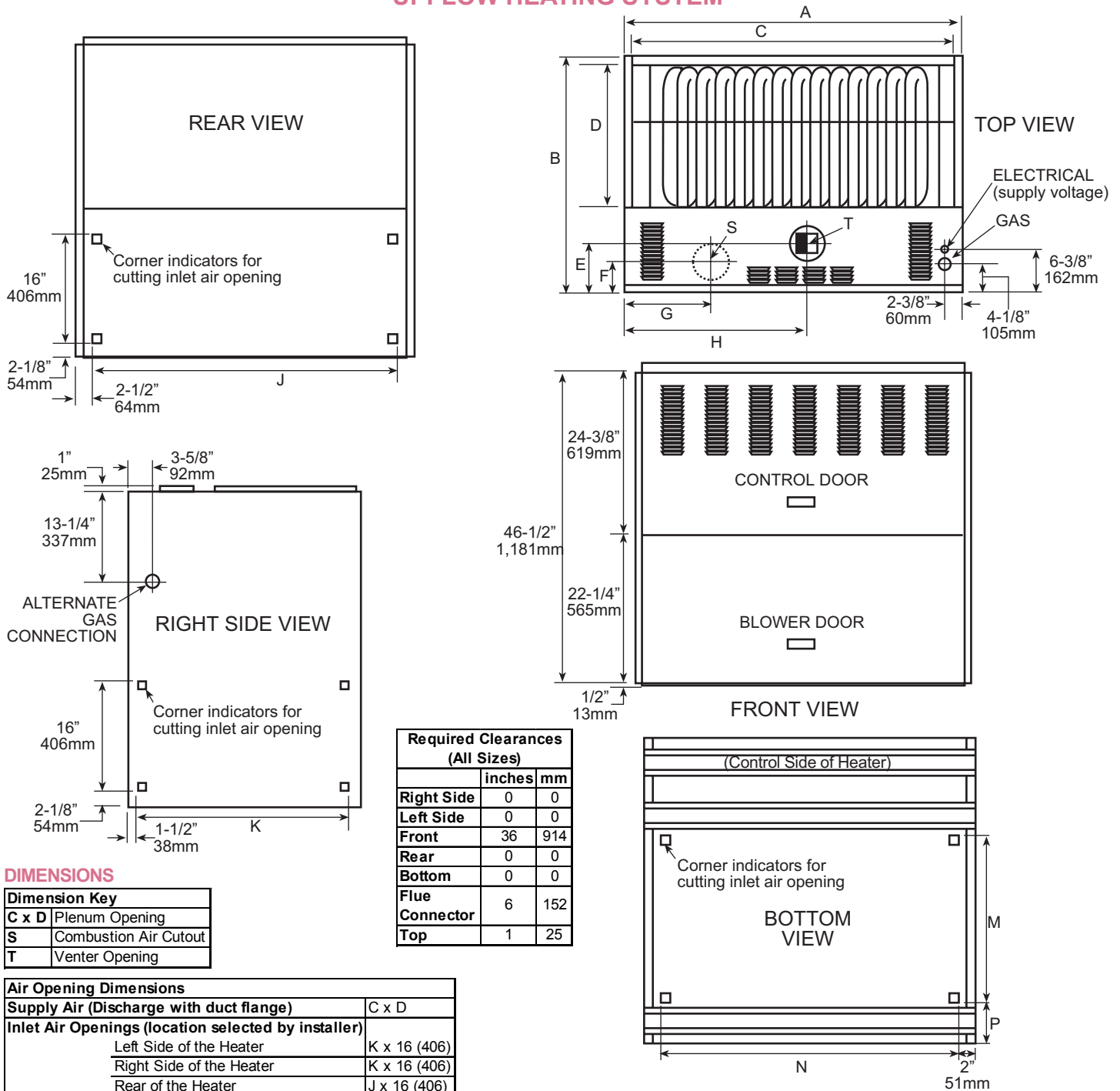
- Thermostat
- Thermostat guard
- Vent cap*
- Manual gas valve
- Gas conversion kits

***IF** the heater is being installed as a separated-combustion power-vented unit, selection of either a horizontal or vertical concentric adapter combustion air/vent kit is **required**. Or, **IF** the heater is being installed as a power-vent only unit, a vent cap is **required**.

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PACKAGED VERTICAL SYSTEMS



Size	A		B		C		D		E		F		G		H		J		K		M		N		P		S		T	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
150	38	965	34 3/4	883	36	914	21	533	7 1/4	184	3 3/4	95	12 1/2	318	24	610	33	838	31	787	19	483	34	864	4 5/8	117	5	127	5	127
200	38	965	34 3/4	883	36	914	21	533	7 1/4	184	3 3/4	95	12 1/2	318	24	610	33	838	31	787	19	483	34	864	4 5/8	117	5	127	5	127
250	50	1270	34 3/4	883	48	1219	21	533	7 1/4	184	4 3/8	111	12 3/4	324	27 1/4	692	45	1143	31	787	16	406	46	1,168	4 3/4	121	6	152	6	152
300	50	1270	34 3/4	883	48	1219	21	533	7 1/4	184	4 3/8	111	12 3/4	324	27 1/4	692	45	1143	31	787	16	406	46	1,168	4 3/4	121	6	152	6	152
350	50	1270	50	1270	48	1219	34	864	7	178	4 3/8	111	14 1/8	359	26 3/4	679	45	1143	44	1118	32	813	46	1,168	4 7/8	124	6	152	6	152
400	50	1270	50	1270	48	1219	34	864	7	178	4 3/8	111	14 1/8	359	26 3/4	679	45	1143	44	1118	32	813	46	1,168	4 7/8	124	6	152	6	152

WARNING: Gas-fired appliances are not designed for use in hazardous atmospheres containing flammable vapors or combustible dust, or atmospheres containing chlorinated or halogenated hydrocarbons.

Installations in public garages or airplane hangars are permitted when in accordance with ANSI Z223.1 and NFPA 54 Codes or CAN1-B149 Codes and enforcing authorities.