

ACiQ Model#: ACiQ-UH-30-NG

30K Gas-Fired Unit Heater (Natural Gas or Propane w/conversion)

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

Unit UPC Code: 810175554396



HEATING PERFORMANCE		
Thermal Efficiency	Percent	80%
Input Heating Capacity	BTUh	30000
	kW	8.8
Output Heating* Capacity	BTUh	24000
	kW	7.0

*ETL ratings for elevations up to 2000 feet.

OPERATIONAL SPECIFICATIONS		
Discharge Temperature Rise	°F	50
	°C	27.8
Discharge Air Opening Area	ft ²	0.96
	m ²	0.09
Air Volume	CFM	456
Output Velocity	FPM	475
Fan Motor Power Rating	HP	0.02
Fan Motor Speed	RPM	1550
Fan Diameter	inch	10"
Sound Level @ 15 ft.	dBa	40

ELECTRICAL SPECIFICATIONS		
Power Supply	V, Ph, Hz	115V, 1 Ph, 60Hz
Control Amps, 24V	A	1.0
Full Load Amps (FLA)	A	1.9
Maximum Overcurrent Protection (MOCOP), 115V*	A	15*
Normal Power Consumption	W	109

*MOCOP = 2.25 x (largest motor FLA) + smallest motor FLA.
Value is rounded to the next lower standard circuit breaker size.

FEATURES
• 115V, 1 Ph, 60 Hz
• 80% Thermal Efficiency
• 50% - 60% Temperature Rise
• Natural Gas Standard (Propane Conversion Kit Available)
• Integrated Circuit Board with Seven-Segment Display
• Aluminized-Steel Heat Exchanger
• Multi-Point Suspension
• Approved for Residential Garages & Commercial Spaces
• Vibration Isolated Fan
• 20 Gauge Steel Housing

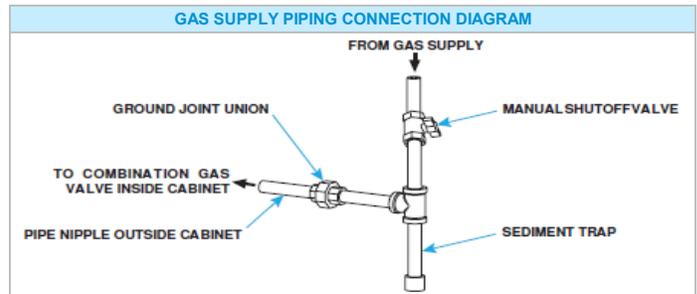
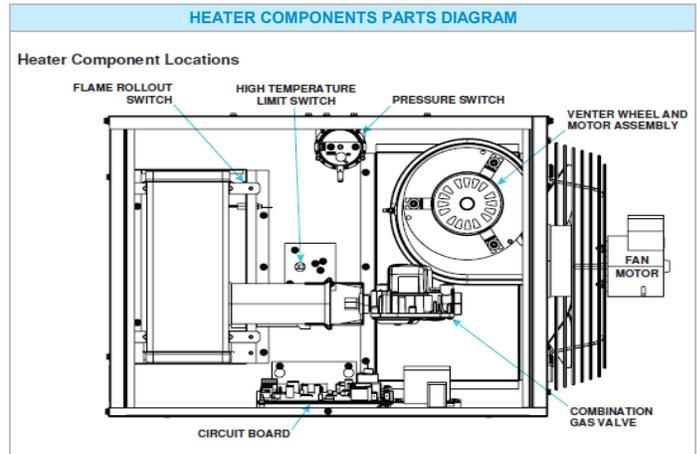
DIMENSIONS & WEIGHT		
Overall Unit Dimensions (W x D x H)	inch	27-1/8" x 21-17/32" x 14-3/4"
	mm	689 x 547 x 375
Unit Weight	lbs	60
	kg	28
Gas Connection Size (to single-stage gas valve-not supply line size)	inch	1/2"
Vent Connection Diameter*	inch	4"

*Smaller and/or larger vent pipe diameters may be permissible.

UNIT CLEARANCE REQUIREMENTS		
Heater Surface	Minimum Clearance Required	
Top of Unit	inch	1"
	mm	25
Flue Connector	inch	6"
	mm	152
Access Panel	inch	18"
	mm	457
Non-accessible Side	inch	1"
	mm	25
Bottom*	inch	1"
	mm	25
Rear**	inch	18"
	mm	457
Front	inch	Refer to Heater Throw Diagram On Pg. 2
	mm	

*Suspend the heater so that the bottom of the unit is a minimum of 5 ft (1.5 m) above the floor.

**Measure rear clearance from fan motor.



Heater Throw

Figure 1 shows throw patterns and Table 2 lists throw distances for heaters suspended at varying mounting heights.

H = the distance from the bottom of the heater to the floor

X = the distance from the heater to the start of floor coverage

Y = the distance from the heater to the end of floor coverage

Z = the distance at which air velocity drops below 50 feet (15.2 meters) per minute

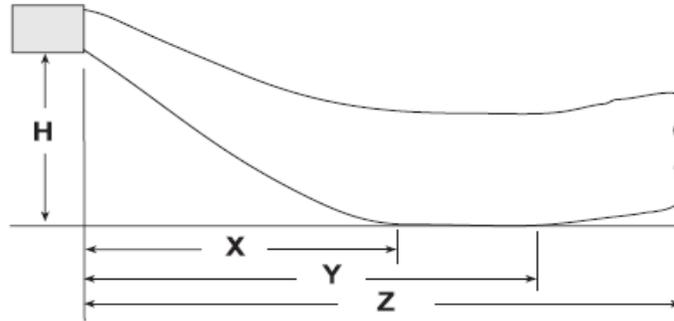


Figure 1. Heater Throw Patterns (Refer to Table 2)

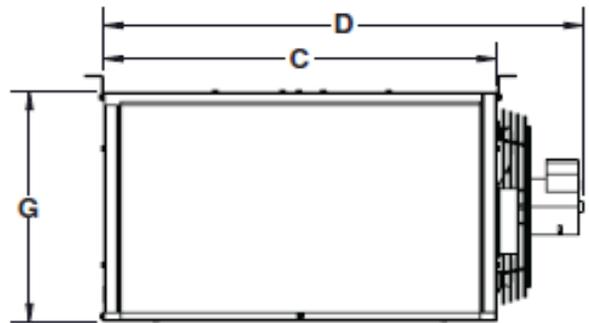
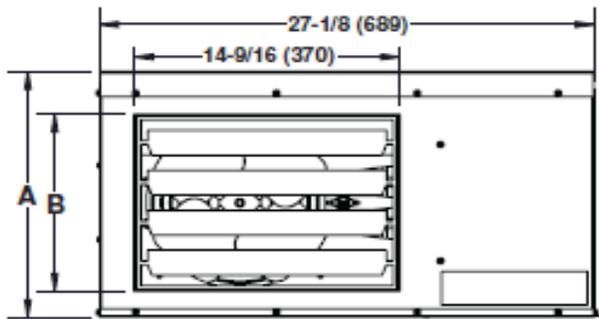
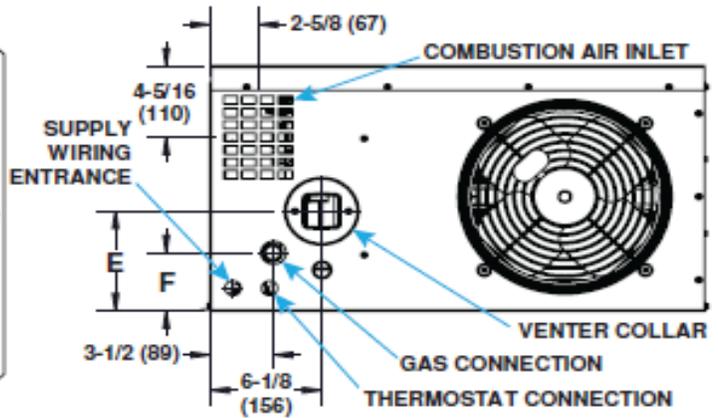
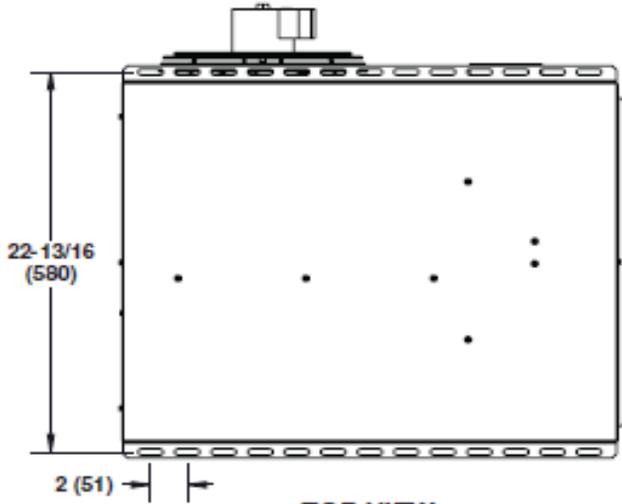
Table 2. Heater Throw Distances

H* (Feet (Meters))	Dimension*/ Louver Angle**	Unit Size (MBTUh)		
		30	60	125
		Feet (Meters)		
5 (1.5)	X	6 (1.8)	8 (2.4)	10 (3.0)
	Y	14 (4.3)	18 (5.5)	22 (6.7)
	Z	30 (9.1)	45 (13.8)	65 (19.9)
	Angle	21°	16°	14°
8 (2.4)	X	7 (2.1)	10 (3.0)	12 (3.7)
	Y	13 (4.0)	18 (5.5)	23 (7.0)
	Z	26 (7.9)	42 (12.8)	63 (19.2)
	Angle	39°	29°	24°
10 (3.0)	X	6 (1.8)	10 (3.0)	13 (4.0)
	Y	11 (3.4)	17 (5.2)	24 (7.3)
	Z	22 (6.7)	39 (11.9)	60 (18.3)
	Angle	52°	37°	30°
12 (3.7)	X	—	10 (3.0)	14 (4.3)
	Y		16 (4.9)	23 (7.0)
	Z		34 (10.4)	57 (17.4)
	Angle		46°	36°
14 (4.3)	X	—	9 (2.7)	14 (4.3)
	Y		14 (4.3)	22 (6.7)
	Z		29 (8.8)	53 (16.1)
	Angle		56°	43°
16 (4.9)	X	—	—	13 (4.0)
	Y			20 (6.1)
	Z			47 (14.3)
	Angle			50°
18 (5.5)	X	—	—	11 (3.4)
	Y			17 (5.2)
	Z			40 (12.2)
	Angle			57°

*See Figure 1.

**From bottom of heater.

UNIT DIMENSIONS DIAGRAM



Unit Size (MBTUh)	Dimensions						
	A	B	C	D	E	F	G
	Inches (mm)						
30	14-3/4 (375)	10-5/8 (270)	26-9/32 (668)	21-17/32 (547)	6 (152)	3-1/2 (89)	13-3/4 (349)
60	17-3/4 (451)	13-5/8 (346)	21-9/16 (548)	23-9/16 (599)	8-11/16 (220)	6-5/16 (160)	16-3/4 (425)
125	25-3/4 (654)	21-5/8 (549)	21-19/32 (548)	30-21/32 (778)	5-1/4 (387)	9-17/32 (242)	24-3/4 (629)