



UHPA



Unit Heater

Gas-Fired

APPLICATION

- 50,000 - 390,000 Btuh heating capacity
- Compact sizes for easy installation
- Thermal efficiencies up to 80.5%
- Shipped completely assembled
- Approved for aircraft hangers and public garages

HEAT EXCHANGER

- High quality, aluminized or stainless steel tubular design
- Corrosion resistant for long life
- Optimum heat transfer with minimum air resistance

CABINET

- Pre-painted steel for maximum durability
- Insulated to minimize heat loss
- Adjustable outlet louvers for convenient control of air flow design

BURNERS

- Aluminized steel inshot burners for smooth ignition

COMPONENTS

- Direct drive fan motor
- Self diagnostic circuit board for dependable operation and easy troubleshooting
- Direct spark ignition provides a positive and safe burner ignition
- Low voltage terminal strip simplifies wiring

VENTING

- UHPA050 through UHPA150 induced draft blower may be rated 90° either to the left or right to ease installation
- Thermally protected draft motor
- Approved for vertical or horizontal venting

INSTALLATION

- Wiring junction box is conveniently located outside the cabinet for easy access
- Spotnuts located on top of cabinet for ease of unit suspension

ACCESSORY

- Propane gas conversion kit

WARRANTY

- 15 year limited heat exchanger for stainless steel
- 10 year limited heat exchanger for aluminized
- 2 year limited all parts



Model Number Guide

	UHP	A	100	A	E	-	1	
Unit Heater Product								Revision Code
A - Series								Voltage
100 - Gas Heat Input BTU x 1000								E - 115/60/1
								A - Aluminized Heat Exchanger S - Stainless Steel Heat Exchanger

Physical & Electrical - Aluminized

Model	Heating Capacity Input Btuh (kW)	Heating Capacity Output Btuh (kW)	Thermal Efficiency	Flue Size in. (mm)*	Gas Piping Size in. (mm)	Air Volume CFM (L/s)	Air Throw @ 8 ft. (2.4m) Mounting Height ft. (m)	Volts/Hz/Phase	Weight lbs. (kg)	Propane Gas Kit (Optional)
UHPA60AE	60,000 (17.6)	48,000 (14.1)	80%	3 (76)	1/2 (13)	1250 (590)	47 (14)	115/60/1	105 (48)	62J70
UHPA90AE	90,000 (26.4)	72,000 (21.1)	80%	4 (102)	1/2 (13)	1250 (590)	47 (14)	115/60/1	115 (52)	62J70
UHPA115AE	115,000 (33.7)	92,000 (26.9)	80%	4 (102)	1/2 (13)	1900 (897)	60 (18)	115/60/1	140 (64)	63J56
UHPA145AE	143,750 (42.1)	115,000 (33.7)	80%	4 (102)	1/2 (13)	1900 (897)	60 (18)	115/60/1	150 (68)	63J56
UHPA175AE	172,500 (50.5)	138,000 (40.4)	80%	5 (127)	1/2 (13)	2200 (1038)	65 (20)	115/60/1	165 (75)	63J56
UHPA200AE	195,000 (57.1)	156,000 (45.7)	80%	5 (127)	1/2 (13)	2200 (1038)	65 (20)	115/60/1	165 (75)	20L07
UHPA230AE	230,000 (67.4)	184,000 (53.9)	80%	5 (127)	3/4 (19)	4400 (2077)	80 (24)	115/60/1	270 (123)	45L89
UHPA290AE	287,500 (84.2)	230,000 (67.4)	80%	5 (127)	3/4 (19)	4400 (2077)	80 (24)	115/60/1	285 (129)	45L89
UHPA345AE	345,000 (101.1)	276,000 (80.9)	80%	6 (152)	3/4 (19)	4400 (2077)	80 (24)	115/60/1	300 (136)	45L89
UHPA400AE	390,000 (114.3)	312,000 (91.4)	80%	6 (152)	3/4 (19)	4400 (2077)	80 (24)	115/60/1	305 (138)	20L06

*Round pipe adaptor is furnished with heater for flue connection.

Physical & Electrical - Stainless Steel

Model	Heating Capacity Input Btuh (kW)	Heating Capacity Output Btuh (kW)	Thermal Efficiency	Flue Size in. (mm)*	Gas Piping Size in. (mm)	Air Volume CFM (L/s)	Air Throw @ 8 ft. (2.4m) Mounting Height ft. (m)	Volts/Hz/Phase	Weight lbs. (kg)	Propane Gas Kit (Optional)
UHPA50SE	50,000 (14.7)	40,000 (11.7)	80%	3 (76)	1/2 (13)	1250 (590)	47 (14)	115/60/1	105 (48)	45L87
UHPA75SE	75,000 (22.0)	60,000 (17.6)	80%	4 (102)	1/2 (13)	1250 (590)	47 (14)	115/60/1	115 (52)	45L87
UHPA100SE	100,000 (29.3)	80,500 (23.6)	80.5%	4 (102)	1/2 (13)	1900 (897)	60 (18)	115/60/1	140 (64)	45L85
UHPA125SE	125,000 (36.6)	100,625 (29.5)	80.5%	4 (102)	1/2 (13)	1900 (897)	60 (18)	115/60/1	150 (68)	45L85
UHPA150SE	150,000 (44.0)	120,750 (35.4)	80.5%	4 (102)	1/2 (13)	2200 (1038)	65 (20)	115/60/1	165 (75)	45L85
UHPA200SE	195,000 (57.1)	156,000 (45.7)	80%	5 (127)	1/2 (13)	2200 (1038)	65 (20)	115/60/1	165 (75)	20L07
UHPA250SE	250,000 (73.3)	201,250 (59.0)	80.5%	5 (127)	3/4 (19)	4400 (2077)	80 (24)	115/60/1	285 (129)	45L88
UHPA300SE	300,000 (87.9)	241,500 (70.8)	80.5%	5 (127)	3/4 (19)	4400 (2077)	80 (24)	115/60/1	300 (136)	45L88
UHPA400SE	390,000 (114.3)	312,000 (91.4)	80%	6 (152)	3/4 (19)	4400 (2077)	80 (24)	115/60/1	305 (138)	20L06

*Round pipe adaptor is furnished with heater for flue connection.

Manifold Pressure - Natural Gas

Model	Altitude Ft. (m)					
	2000-2500 (610-782)	2500-3500 (762-1067)	3500-4500 (1067-1372)	4500-5500 (1372-1676)	5500-6500 (1676-1981)	6500-7500 (1981-2286)
UHPA050, 75	*	*	*	*	*	3.6 (0.90)
UHPA060,100, 115, 125, 150, 300	*	*	*	3.4 (0.85)	3.3 (0.82)	3.2 (0.80)
UHPA090, 145	3.4 (0.85)	3.3 (0.82)	3.2 (0.80)	3.1 (0.77)	3.0 (0.74)	2.9 (0.72)
UHPA175, 230	*	*	*	*	*	*
UHPA200, 250, 290, 345, 400	*	*	3.4 (0.85)	3.3 (0.82)	3.2 (0.80)	3.1 (0.77)

* No adjustment required.

Note: UHPA units may be fired at full input up to 2000 feet (610m) above sea level. Above 2000 feet (610m) manifold pressure must be adjusted on some units. Adjust pressure regulator to pressure shown in table above for natural gas. If unit is installed at an altitude greater than 7500 ft. (2286m), unit must be derated by 4 percent for each additional 1000 ft. (305m) above 7500 ft. (2286m).

Manifold Pressure - LP/Propane Gas

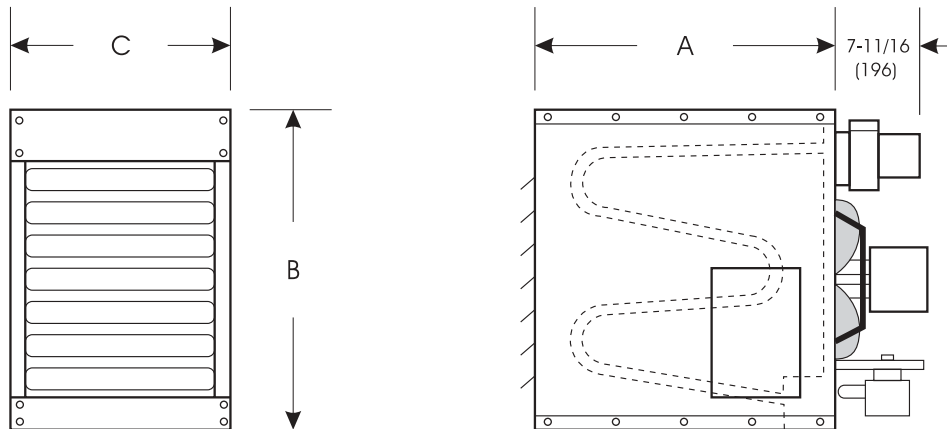
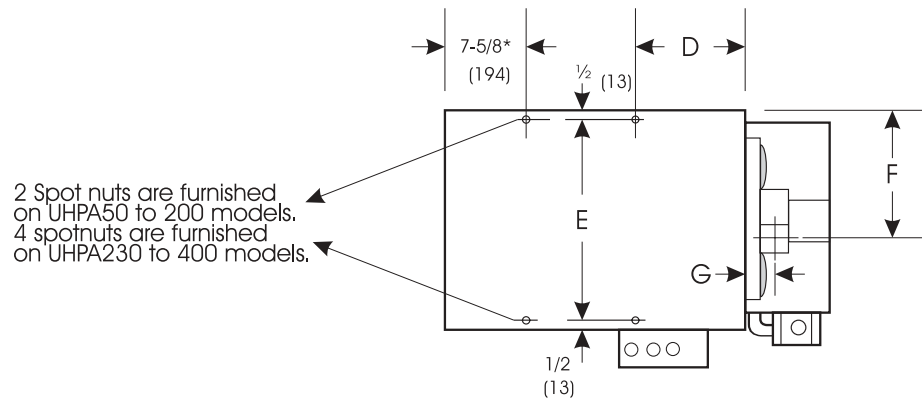
Model	Altitude Ft. (m)					
	2000-2500 (610-782)	2500-3500 (762-1067)	3500-4500 (1067-1372)	4500-5500 (1372-1676)	5500-6500 (1676-1981)	6500-7500 (1981-2286)
UHPA050, 75	*	*	*	*	*	8.7 (2.16)
UHPA060, 100, 115, 125, 150, 300	*	*	*	8.7 (2.16)	8.4 (2.08)	8.1 (2.01)
UHPA090, 145	8.7 (2.16)	8.4 (2.08)	8.1 (2.01)	7.8 (1.94)	7.5 (1.87)	7.2 (1.79)
UHPA175, 230	*	*	*	*	*	*
UHPA250	*	*	8.7 (2.16)	8.4 (2.08)	8.1 (2.01)	7.8 (1.94)
UHPA200, 290, 345, 400	*	*	9.2 (2.28)	8.9 (2.21)	8.6 (2.13)	8.3 (2.06)

* No adjustment required.

Note: UHPA units may be fired at full input up to 2000 feet (610m) above sea level. Above 2000 feet (610m) manifold pressure must be adjusted on some units. Adjust pressure regulator to pressure shown in table above for LP/propane gas. If unit is installed at an altitude greater than 7500 ft. (2286m), unit must be derated by 4 percent for each additional 1000 ft. (305m) above 7500 ft. (2286m).

Dimensions - in. (mm)

Model	A	B	C	D	E	F	G
UHPA50SE	26 (660)	28 1/4 (718)	19 1/2 (495)	8 1/2 (216)	18 1/2 (470)	11 11/16 (297)	2 3/16 (56)
UHPA60AE							
UHPA75SE							
UHPA90AE							
UHPA100SE	31 5/16 (795)	32 3/16 (818)	20 3/16 (513)	10 1/2 (267)	19 1/16 (484)	11 7/8 (302)	3 1/4 (83)
UHPA115AE							
UHPA125SE							
UHPA145AE							
UHPA150SE	31 5/16 (795)	32 3/16 (818)	23 1/8 (587)	10 1/2 (267)	22 1/16 (560)	13 1/4 (337)	3 1/4 (83)
UHPA175AE							
UHPA200SE							
UHPA200AE							
UHPA230AE	31 5/16 (795)	32 3/16 (818)	41 1/8 (1045)	3 13/16 (97)	38 3/16 (970)	17 1/2 (445)	3 1/2 (89)
UHPA245AE							
UHPA250SE							
UHPA300SE							
UHPA345AE							
UHPA400SE							
UHPA400AE							



Note: Single fan model shown. UHPA230 to 400 models have 2 fans.

Installation Clearances - in. (mm)

Top	Sides	Rear	Bottom	Flue
6 (152)	6 (152)	18 (457)	0 (0)	6 (152)

Note: Provide adequate clearance for servicing.



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