

UBX Series

Power Vented, High Static Blower Fan Commercial/Industrial Unit Heaters 82 - 83% Thermal Efficiency



Reznor® Model UBX gas-fired unit heaters are available in 14 sizes ranging from 30,000 to 400,000 BTUH gas input. Model UBX heaters are approved for installation in the United States and Canada by ETL.

Each size cabinet is easily suspended from 4 suspension points. The low voltage terminal strip on the outside of the cabinet makes connecting control wiring easy with no panels to remove. The addition of a "G" terminal to the strip, along with the new design of the circuit board, allows for fan only operation (without adding relays).

Reznor model UBX unit heaters feature a two-tone black and white powder coated, scratch-resistant paint scheme. Each unit has clean rounded corners and edges with no visible screws or fasteners. Model UBX unit heaters provide the same superior performance customers have relied on for more than 100 years along with added features that make servicing the unit easier, installation safer and improve monitoring capabilities.

FEATURES and BENEFITS

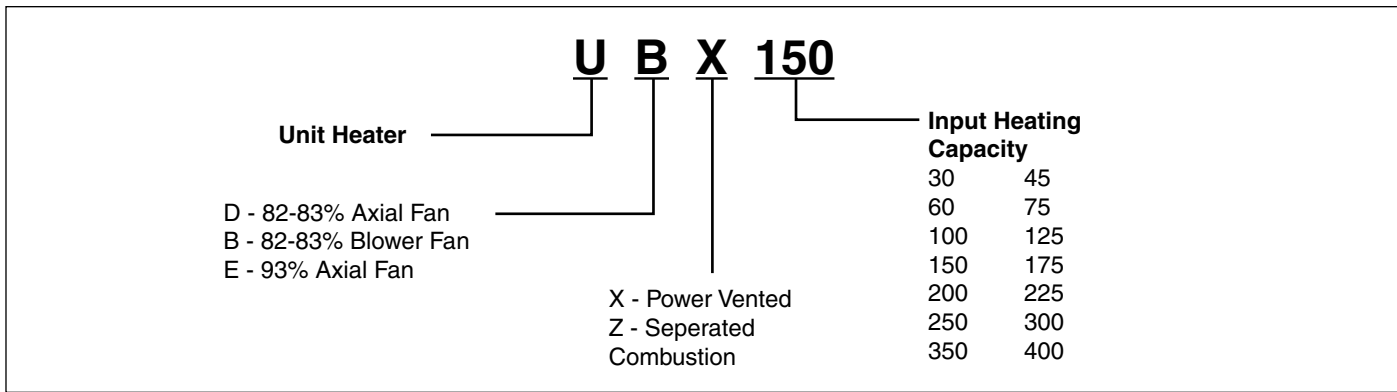
- Certified for commercial/industrial heating application
- 45-75°F Rise range - Sizes 30-350
- 50-80°F Rise range - Size 400
- Integrated circuit board with 7 segment display
- External status indicating LED
- Hinged Door with ¼ turn latch
- Improved cabinet design with removeable front face and two tone white and black powder paint.
- Tcore2 titanium stabilized aluminized steel heat exchanger
- Patented single burner combustion system including a one-piece burner assembly
- 115V, 1 phase, 60 Hz Supply voltage
- 115 Volt open drip proof blower motor with internal overload protection - Sizes 30-125
- 115 Volt open drip proof blower motor with internal overloads and definite purpose motor contactor - Sizes 150-400
- Direct drive blower with multispeed taps - Sizes 30-125
- Adjustable belt drive blower - Sizes 150-400
- Transformer for 24-volt controls
- Integrated circuit board with diagnostic indicator lights
- Multi-try direct spark ignition with timed lockout
- Blower relay (included on the circuit board)
- Single-stage natural gas valve (field adjustable for operation to 9,000 ft. elevation)*
- Vibration/noise isolated fan and venter motors ~ designed for low noise operation
- 4-pt Suspension ~ standard on all sizes
- External terminal strip for 24-volt wiring
- External gas pipe connection

OPTIONAL FEATURES

- Single-stage propane gas valve (field adjustable for operation to 9,000 ft.)*
- Two-stage gas valve (sizes 60-400)
- 409 or 316 stainless steel heat exchangers
- Totally enclosed blower motor (sizes 30-400)
- Vent cap
- Thermostat
- Intergrated 30° & 60° downturn nozzles
- Integrated vertical louvers.
- Gas conversion kits (natural and propane)
- Primary/secondary controls for zoning up to six units
- Duct Flange
- Polytube adapters
- Hanger kits for 1" pipe
- Stepdown transformer (for 208/115, 230/115 or 460/115 supply voltage)
- Manual shutoff valves

*Note: Pressure switch change required for installations above 6,000 ft.

MODEL IDENTIFICATION CODES



TECHNICAL DATA

Size		30	45	60	75	100	125	
Input Heating Capacity	BTUH	30,000	45,000	60,000	75,000	105,000	120,000	
	kw/h	8.8	13.2	17.6	22.0	30.8	35.2	
Thermal Efficiency (%)		82	82	82	82	83	83	
Output Heating Capacity ^c	BTUH	24,600	36,900	49,200	61,500	87,150	99,600	
	kw/h	7.2	10.8	14.4	18.0	25.6	29.2	
Gas Connection (inches) ^d	Natural	1/2	1/2	1/2	1/2	1/2	1/2	
	Propane	1/2	1/2	1/2	1/2	1/2	1/2	
Vent Connection Size ^e (inches diameter)		4	4	4	4	4	4	
Control Amps (24 volt)		1.0	1.0	1.0	1.0	1.0	1.0	
Full Load Amps (115 volt)		3.7	3.7	7.1	7.1	13.0	13.0	
Maximum Over Current Protection (115V) ^f		15	15	15	15	30	30	
Normal Power Consumption (watts)		215	215	447	447	537	537	
Discharge Air Temperature Rise (°F)	Min.	45	45	45	45	45	45	
	Max.	75	75	75	75	75	75	
Air Volume	Min.	CFM	304	456	607	759	1076	1230
		M ³ /minute	8.6	12.9	17.2	21.5	30.5	34.8
	Max.	CFM	506	759	1012	1265	1793	2049
		M ³ /minute	14.3	21.5	28.7	35.8	50.8	58.0
Discharge Air Opening Area	ft ²	0.96	0.96	1.25	1.25	2.01	2.01	
	M ²	0.09	0.09	0.12	0.12	0.19	0.19	
Output Velocity	Min.	FPM	316	475	486	607	535	612
		M/minute	96	143	143	179	160	183
	Max.	FPM	527	791	810	1012	892	1020
		M/minute	159	239	239	299	267	305
Standard Blower Motor HP		1/6	1/6	1/3	1/3	3/4	3/4	
Blower Size (inches)		9 X 6	9 X 6	9 X 6	9 X 6	10 X 10	10 X 10	
Approximate Net Weight	lbs	84	89	102	108	168	171	
	kg	38	40	46	49	76	78	
Approximate Ship Weight	lbs	94	99	114	120	182	187	
	kg	43	45	52	54	83	85	

^c ETL rating for altitudes to 2000 ft.

^d Size shown is for gas connection to a single stage gas valve, not supply line size.

^e Smaller or larger vent pipe diameters may be allowed; refer to the Venting Installation Manual, Form I-V-PV. If vent diameter is different from vent connection, educer/enlargers will be field-required.

^f MOP = 2.25 x largest motor FLA + remaining load. Answer is rounded down to the next size of commercially available circuit breaker or fuse.

^g All other information in this table is based on a heater equipped with a standard 115 volt open fan motor."

TECHNICAL DATA (Continued)

Size		150	175	200	225	250	300	350	400	
Input Heating Capacity	BTUH	150,000	175,000	200,000	225,000	250,000	300,000	350,000	400,000	
	kw/h	43.9	51.2	58.6	65.9	73.2	87.8	102.5	117.1	
Thermal Efficiency (%)		83	83	83	83	83	83	83	82	
Output Heating Capacity ^c	BTUH	124,500	145,250	166,000	186,750	207,500	249,000	290,500	328,000	
	kw/h	36.4	42.5	48.6	54.7	60.8	72.9	85.1	96.0	
Gas Connection (inches) ^d	Natural	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	
	Propane	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	
Vent Connection Size ^e (inches diameter)		5	5	5	5	5	6	6	6	
Control Amps (24 volt)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Full Load Amps (115 volt)		5.9	9.6	10.5	12.7	12.7	17.7	27.3	27.3	
Maximum Over Current Protection (115V) ^f		15	20	25	30	30	40	60	60	
Normal Power Consumption (watts)		230	415	485	675	675	1260	1635	1635	
Discharge Air Temperature Rise (°F)	Min.	45	45	45	45	45	45	45	50	
	Max.	75	75	75	75	75	75	75	80	
Air Volume	Min.	CFM	1537	1793	2049	2306	2562	3074	3586	4100
		M ³ /minute	43.5	50.8	58.0	65.3	72.5	87.0	101.5	116.1
	Max.	CFM	2562	2989	3416	3843	4270	5123	5977	6185
		M ³ /minute	72.5	84.6	96.7	108.8	120.9	145.1	169.2	175.1
Discharge Air Opening Area	ft ²	2.56	2.56	2.56	3.51	3.51	4.79	4.79	4.79	
	M ²	0.24	0.24	0.24	0.33	0.33	0.45	0.45	0.45	
Output Velocity	Min.	FPM	600	700	800	657	730	642	749	856
		M/minute	183	213	244	200	223	196	228	261
	Max.	FPM	1001	1168	1334	1095	1217	1070	1248	1291
		M/minute	305	356	407	334	371	326	380	393
Standard Blower Motor HP		1/4	1/2	1/2	3/4	3/4	1-1/2	2	2	
Blower Size (inches)		12 x 12	12 x 12	12 x 12	15 x 11	15 x 11	15 x 15	15 x 15	15 x 15	
Approximate Net Weight	lbs	300	320	320	385	400	458	494	506	
	kg	136	145	145	175	181	208	224	230	
Approximate Ship Weight	lbs	322	342	342	409	424	484	520	536	
	kg	146	155	155	186	192	220	236	243	

^c ETL rating for altitudes to 2000 ft.

^d Size shown is for gas connection to a single stage gas valve, not supply line size.

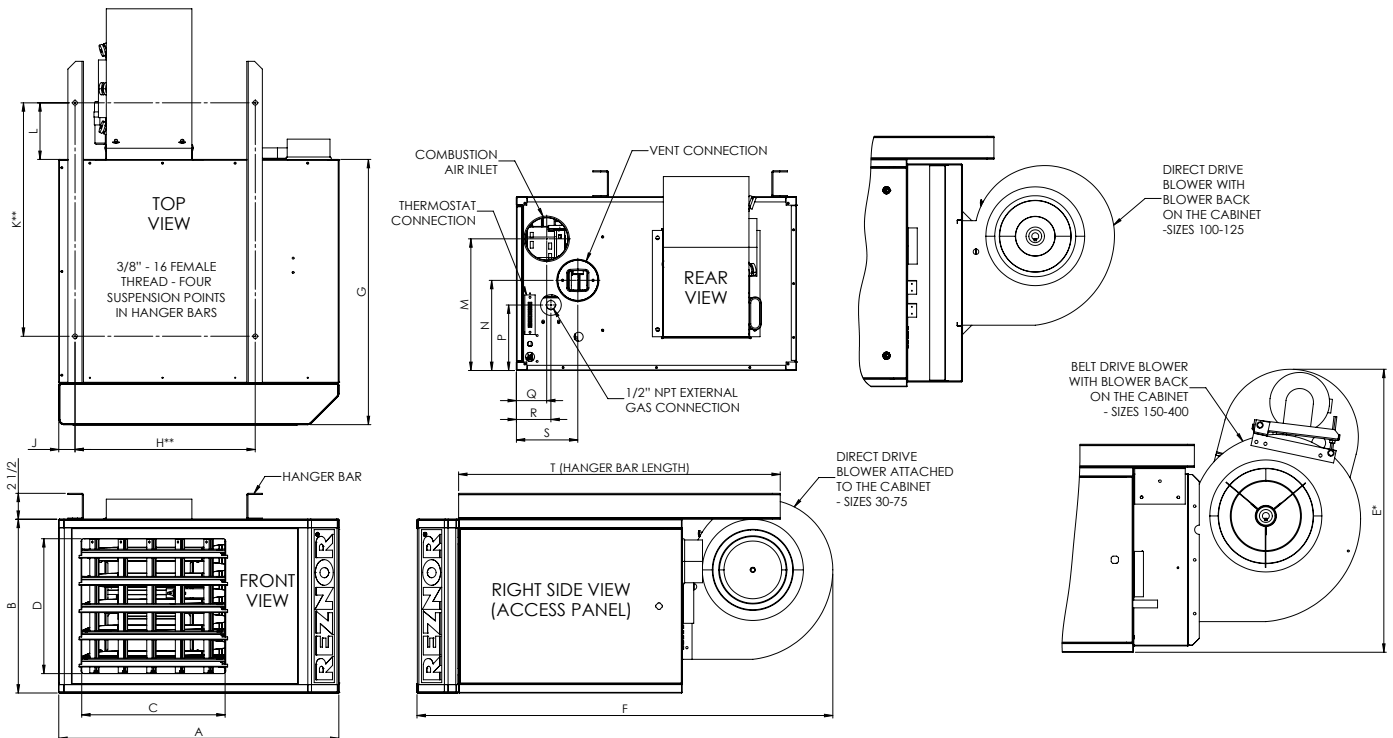
^e Smaller or larger vent pipe diameters may be allowed; refer to the Venting Installation Manual, Form I-V-PV. If vent diameter is different from vent connection, reducer/enlargers will be field-required.

^f MOP = 2.25 x largest motor FLA + remaining load. Answer is rounded down to the next size of commercially available circuit breaker or fuse.

^g All other information in this table is based on a heater equipped with a standard 115 volt open fan motor."

DIMENSIONS

Size (in)	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
30, 45	27	13 3/4	13 13/16	10	17 3/16	40 3/32	25 17/32	17 3/8	1 9/16	22 1/2	6 15/32	10	6	3 1/2	2 21/32	5 31/32	3 5/16	31
60		16 3/4		13	18 11/16						5 15/32	12	8 11/16	6 5/16				
75		24 3/4		21	24 1/16						48 1/8	8 15/32	19 5/16	15 5/16		9 9/16		
100												7 15/32						
125																		
150, 175	38 3/16	20 1/8	23	16	30 31/32	64 3/4	40	25 11/16	1 13/32	24 1/2	3 29/32	13 1/2	8 1/2	5 7/16	4 3/16	6 1/2	8 3/16	42
200		26 1/8		22	37 1/32			5 29/32		18 1/16	13 1/16	9						
225, 250																		
300, 350, 400		41		34 1/8	30			41 7/32		68 1/8	27 11/16	23 1/2	1 13/32	22 9/16		17 1/16	11 13/16	
Size (mm)	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
30,45	686	349	351	254	437	1018	649	441	40	572	164	254	152	89	74	152	84	787
60		425		330	475						1018	139	322	221		160		
75		629		533	611						1222	215	491	389		243		
100												190						
125																		
150, 175	970	511	584	406	786	1645	1016	653	36	622	99	343	216	138	106	165	208	1067
200		664		559	941						150	459	332	229				
225,250																		
300, 350, 400		1041		867	762						1047	1730	703	597		36	573	



CLEARANCES FROM COMBUSTIBLES

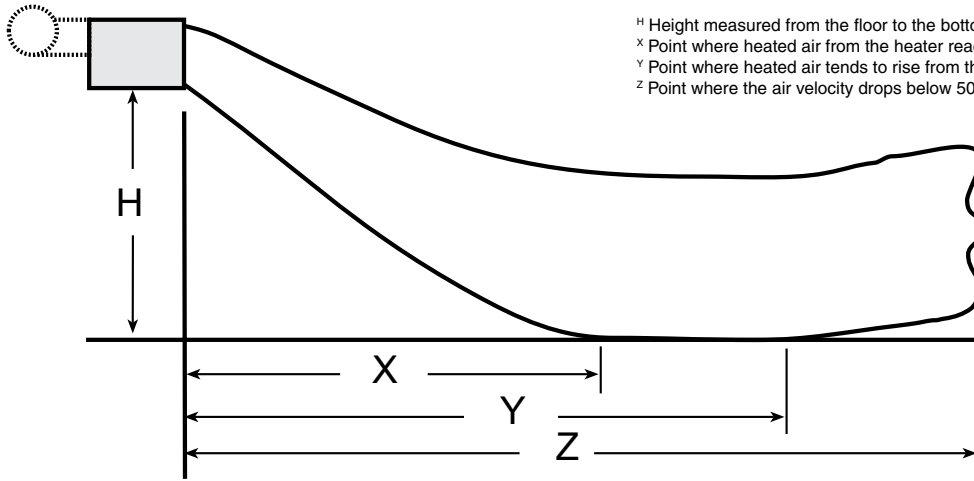
Size	Top		Flue Connector		Access Panel ^J		Non-Access Side		Bottom ^K		Rear ^L	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
30-125	1	25	6	152	18	457	1	25	1	25	18	457
150-400	4	102	6	152	18	457	2	51	1	25	18	457

^J Access Panel clearance is required for service clearance to controls

^K Suspend the heater so that the bottom is a minimum of 5' (1.5M) above the floor.

^L Rear clearance is required for air movement. Rear clearance should be measured from the fan motor.

THROW/FLOOR COVERAGE



Dimensions in Feet

Size	Low Speed																75°F Rise															
	30				45				60				75				100				125				150							
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle				
5	7	15	38	-27°	7	17	44	-20°	11	26	78	-15°	11	24	74	-13°	10	23	74	-16°	10	22	69	-14°	--	--	--	--				
8	7	13	32	-44°	9	17	40	-34°	14	26	76	-23°	13	26	72	-23°	13	25	72	-25°	12	24	65	-24°	9	16	44	-39°				
10	7	11	25	-56°	9	16	37	-42°	15	27	72	-29°	15	25	69	-28°	14	25	69	-31°	13	24	62	-31°	9	14	38	-48°				
12	--	--	--	--	9	14	31	-52°	16	26	70	-34°	15	25	65	-34°	14	24	66	-37°	14	23	58	-37°	7	11	30	-58°				
14	--	--	--	--	--	--	--	--	16	25	65	-40°	15	24	62	-40°	14	23	62	-43°	14	21	54	-43°	--	--	--	--				
16	--	--	--	--	--	--	--	--	15	24	60	-46°	15	23	56	-46°	14	21	57	-49°	12	19	47	-51°	--	--	--	--				
18	--	--	--	--	--	--	--	--	14	22	53	-52°	14	21	50	-52°	12	18	51	-56°	11	17	40	-57°	--	--	--	--				
Size	Medium Speed																60°F Rise															
	30				45				60				75				100				125				150							
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
5	7	16	43	-24°	9	21	60	-15°	12	28	91	-13°	11	27	84	-11°	11	27	86	-13°	12	29	96	-10°	--	--	--	--				
8	9	16	38	-38°	11	23	57	-26°	16	30	89	-21°	15	29	82	-19°	15	28	83	-21°	16	31	94	-18°	13	24	74	-28°				
10	8	14	33	-48°	13	22	54	-32°	17	30	86	-26°	16	30	79	-25°	17	29	81	-26°	18	32	92	-23°	13	22	62	-35°				
12	8	12	28	-56°	13	21	51	-39°	18	31	83	-31°	17	30	77	-30°	17	29	78	-32°	19	32	89	-27°	13	21	57	-42°				
14	--	--	--	--	12	20	46	-46°	18	30	79	-36°	18	29	74	-34°	18	29	74	-37°	20	32	87	-32°	12	19	51	-49°				
16	--	--	--	--	11	17	40	-53°	19	29	75	-41°	18	28	70	-39°	18	27	70	-42°	20	31	83	-36°	11	16	43	-57°				
18	--	--	--	--	--	--	--	--	17	28	69	-46°	18	26	65	-44°	17	26	64	-47°	20	30	78	-40°	--	--	--	--				
Size	High Speed																45°F Rise															
	30				45				60				75				100				125				150							
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
5	8	19	51	-20°	11	28	81	-11°	13	30	105	-11°	12	30	97	-09°	13	32	110	-10°	13	33	113	-7°	--	--	--	--				
8	10	19	48	-31°	15	29	79	-19°	17	33	103	-19°	17	33	95	-16°	18	34	108	-17°	19	36	111	-13°	18	32	107	-19°				
10	11	19	44	-39°	16	30	78	-24°	19	34	100	-23°	19	33	94	-20°	20	36	106	-21°	21	37	109	-17°	19	34	104	-24°				
12	11	17	40	-46°	17	30	75	-29°	21	35	98	-27°	20	34	92	-25°	22	36	104	-25°	23	39	107	-21°	21	34	102	-28°				
14	9	15	33	-56°	18	30	72	-34°	22	34	95	-31°	21	34	89	-29°	23	36	102	-29°	24	39	105	-25°	22	34	98	-32°				
16	--	--	--	--	19	29	69	-39°	23	33	91	-35°	22	33	86	-33°	24	36	99	-33°	25	40	103	-29°	22	33	94	-36°				
18	--	--	--	--	18	28	64	-44°	21	33	86	-40°	22	33	83	-37°	23	36	95	-37°	26	39	101	-32°	21	33	89	-41°				
Size	75°F Rise																80°F Rise															
	175				200				225				250				300				350				400							
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
8	12	22	69	-30°	13	24	76	-27°	13	24	82	-29°	14	27	95	-26°	12	21	70	-32°	13	25	82	-27°	15	28	95	-24°				
10	12	22	65	-37°	14	24	72	-33°	12	21	66	-38°	16	27	91	-31°	12	21	65	-39°	14	25	77	-33°	16	28	92	-29°				
12	13	21	59	-43°	14	23	68	-39°	12	20	60	-45°	16	27	86	-37°	12	19	58	-47°	14	24	72	-40°	17	28	88	-34°				
14	11	19	52	-51°	14	22	62	-46°	11	18	53	-52°	16	25	80	-43°	10	17	50	-55°	14	22	66	-46°	17	27	82	-39°				
16	--	--	--	--	12	20	53	-53°	--	--	--	--	16	23	73	-49°	--	--	--	--	13	20	57	-53°	17	26	76	-45°				
18	--	--	--	--	--	--	--	--	--	--	--	--	14	21	64	-56°	--	--	--	--	--	--	--	--	16	24	69	-50°				

Louver angle listed in the table is relative to the top of the unit heater.

THROW/FLOOR COVERAGE (continued)

Dimensions in Feet

Size	60°F Rise																70°F Rise															
	175				200				225				250				300				350				400							
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
8	15	29	92	-22°	16	31	100	-21°	16	29	100	-24°	19	34	127	-20°	16	28	100	-24°	18	33	119	-20°	17	31	111	-21°				
10	16	29	89	-28°	18	31	97	-25°	16	30	96	-29°	20	35	123	-24°	17	29	96	-29°	19	34	116	-25°	18	32	107	-26°				
12	17	29	85	-33°	19	31	93	-30°	17	30	92	-34°	21	36	120	-28°	18	29	92	-34°	21	34	113	-29°	19	32	103	-31°				
14	17	28	80	-38°	20	30	89	-34°	18	28	87	-38°	22	35	116	-32°	18	28	87	-39°	22	34	109	-33°	20	31	99	-35°				
16	17	27	75	-43°	20	29	84	-39°	18	27	80	-44°	23	35	111	-37°	18	27	81	-44°	22	33	104	-37°	20	31	93	-40°				
18	17	25	69	-48°	19	29	79	-44°	17	26	74	-49°	23	34	106	-41°	17	25	73	-50°	22	32	98	-41°	20	29	88	-44°				

Size	45°F Rise																50°F Rise															
	175				200				225				250				300				350				400							
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
8	22	41	146	-15°	23	43	157	-13°	23	43	168	-16°	26	48	198	-14°	21	39	146	-17°	24	45	169	-14°	24	44	169	-14°				
10	24	43	144	-19°	25	46	155	-17°	26	45	166	-19°	29	50	196	-17°	23	41	143	-21°	26	47	167	-18°	26	46	167	-17°				
12	26	43	141	-22°	27	47	152	-20°	28	45	163	-22°	31	52	194	-20°	25	42	140	-25°	28	48	165	-21°	28	48	165	-20°				
14	28	44	137	-25°	29	48	150	-23°	30	46	160	-25°	32	54	191	-22°	26	42	137	-28°	30	49	162	-24°	31	48	162	-23°				
16	29	44	134	-28°	31	48	147	-26°	31	47	157	-29°	34	53	189	-25°	27	42	133	-31°	32	48	159	-26°	32	49	159	-26°				
18	29	44	131	-32°	31	49	144	-29°	31	47	153	-32°	34	54	185	-28°	28	41	129	-34°	33	49	156	-29°	32	49	156	-29°				

Louver angle listed in the table is relative to the top of the unit heater.

Dimensions in Meters

Size	Low Speed																42°C Rise															
	30				45				60				75				100				125				150							
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
1.5	2.1	4.6	11.6	-27°	2.1	5.2	13.4	-20°	3.4	7.9	23.8	-15°	3.4	7.3	22.6	-13°	3	7	22.6	-16°	3	6.7	21	-14°	--	--	--	--				
2.4	2.1	4	9.8	-44°	2.7	5.2	12.2	-34°	4.3	7.9	23.2	-23°	4	7.9	21.9	-23°	4	7.6	21.9	-25°	3.7	7.3	19.8	-24°	2.7	4.9	13.4	-39°				
3	2.1	3.4	7.6	-56°	2.7	4.9	11.3	-42°	4.6	8.2	21.9	-29°	4.6	7.6	21	-28°	4.3	7.6	21	-31°	4	7.3	18.9	-31°	2.7	4.3	11.6	-48°				
3.7	--	--	--	--	2.7	4.3	9.4	-52°	4.9	7.9	21.3	-34°	4.6	7.6	19.8	-34°	4.3	7.3	20.1	-37°	4.3	7	17.7	-37°	2.1	3.4	9.1	-58°				
4.3	--	--	--	--	--	--	--	--	4.9	7.6	19.8	-40°	4.6	7.3	18.9	-40°	4.3	7	18.9	-43°	4.3	6.4	16.5	-43°	--	--	--	--				
4.9	--	--	--	--	--	--	--	--	4.6	7.3	18.3	-46°	4.6	7	17.1	-46°	4.3	6.4	17.4	-49°	3.7	5.8	14.3	-51°	--	--	--	--				
5.5	--	--	--	--	--	--	--	--	4.3	6.7	16.2	-52°	4.3	6.4	15.2	-52°	3.7	5.5	15.5	-56°	3.4	5.2	12.2	-57°	--	--	--	--				

Size	Medium Speed																33°C Rise															
	30				45				60				75				100				125				150							
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
1.5	2.1	4.9	13.1	-24°	2.7	6.4	18.3	-15°	3.7	8.5	27.7	-13°	3.4	8.2	25.6	-11°	3.4	8.2	26.2	-13°	3.7	8.8	29.3	-10°	--	--	--	--				
2.4	2.7	4.9	11.6	-38°	3.4	7	17.4	-26°	4.9	9.1	27.1	-21°	4.6	8.8	25	-19°	4.6	8.5	25.3	-21°	4.9	9.4	28.7	-18°	4	7.3	22.6	-28°				
3	2.4	4.3	10.1	-48°	4	6.7	16.5	-32°	5.2	9.1	26.2	-26°	4.9	9.1	24.1	-25°	5.2	8.8	24.7	-26°	5.5	9.8	28	-23°	4	6.7	18.9	-35°				
3.7	2.4	3.7	8.5	-56°	4	6.4	15.5	-39°	5.5	9.4	25.3	-31°	5.2	9.1	23.5	-30°	5.2	8.8	23.8	-32°	5.8	9.8	27.1	-27°	4	6.4	17.4	-42°				
4.3	--	--	--	--	3.7	6.1	14	-46°	5.5	9.1	24.1	-36°	5.5	8.8	22.6	-34°	5.5	8.8	22.6	-37°	6.1	9.8	26.5	-32°	3.7	5.8	15.5	-49°				
4.9	--	--	--	--	3.4	5.2	12.2	-53°	5.8	8.8	22.9	-41°	5.5	8.5	21.3	-39°	5.5	8.2	21.3	-42°	6.1	9.4	25.3	-36°	3.4	4.9	13.1	-57°				
5.5	--	--	--	--	--	--	--	--	5.2	8.5	21	-46°	5.5	7.9	19.8	-44°	5.2	7.9	19.5	-47°	6.1	9.1	23.8	-40°	--	--	--	--				

Louver angle listed in the table is relative to the top of the unit heater.

THROW/FLOOR COVERAGE (continued)

Dimensions in Meters

Size	High Speed																				25°C Rise															
	30				45				60				75				100				125				150											
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle				
1.5	2.4	5.8	15.5	-20°	3.4	8.5	24.7	-11°	4	9.1	32	-11°	3.7	9.1	29.6	-09°	4	9.8	33.5	-10°	4	10.1	34.4	-7°	--	--	--	--	--	--	--	--				
2.4	3	5.8	14.6	-31°	4.6	8.8	24.1	-19°	5.2	10.1	31.4	-19°	5.2	10.1	29	-16°	5.5	10.4	32.9	-17°	5.8	11	33.8	-13°	5.5	9.8	32.6	-19°	--	--	--	--				
3	3.4	5.8	13.4	-39°	4.9	9.1	23.8	-24°	5.8	10.4	30.5	-23°	5.8	10.1	28.7	-20°	6.1	11	32.3	-21°	6.4	11.3	33.2	-17°	5.8	10.4	31.7	-24°	--	--	--	--				
3.7	3.4	5.2	12.2	-46°	5.2	9.1	22.9	-29°	6.4	10.7	29.9	-27°	6.1	10.4	28	-25°	6.7	11	31.7	-25°	7	11.9	32.6	-21°	6.4	10.4	31.1	-28°	--	--	--	--				
4.3	2.7	4.6	10.1	-56°	5.5	9.1	21.9	-34°	6.7	10.4	29	-31°	6.4	10.4	27.1	-29°	7	11	31.1	-29°	7.3	11.9	32	-25°	6.7	10.4	29.9	-32°	--	--	--	--				
4.9	--	--	--	--	5.8	8.8	21	-39°	7	10.1	27.7	-35°	6.7	10.1	26.2	-33°	7.3	11	30.2	-33°	7.6	12.2	31.4	-29°	6.7	10.1	28.7	-36°	--	--	--	--				
5.5	--	--	--	--	5.5	8.5	19.5	-44°	6.4	10.1	26.2	-40°	6.7	10.1	25.3	-37°	7	11	29	-37°	7.9	11.9	30.8	-32°	6.4	10.1	27.1	-41°	--	--	--	--				
Size	42°C Rise																				44°C Rise															
	175				200				225				250				300				350				400											
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
2.4	3.7	6.7	21	-30°	4	7.3	23.2	-27°	4	7.3	25	-29°	4.3	8.2	29	-26°	3.7	6.4	21.3	-32°	4	7.6	25	-27°	4.6	8.5	29	-26°	--	--	--	--				
3	3.7	6.7	19.8	-37°	4.3	7.3	21.9	-33°	3.7	6.4	20.1	-38°	4.9	8.2	27.7	-31°	3.7	6.4	19.8	-39°	4.3	7.6	23.5	-33°	4.9	8.5	28	-31°	--	--	--	--				
3.7	4	6.4	18	-43°	4.3	7	20.7	-39°	3.7	6.1	18.3	-45°	4.9	8.2	26.2	-37°	3.7	5.8	17.7	-47°	4.3	7.3	21.9	-40°	5.2	8.5	26.8	-37°	--	--	--	--				
4.3	3.4	5.8	15.8	-51°	4.3	6.7	18.9	-46°	3.4	5.5	16.2	-52°	4.9	7.6	24.4	-43°	3	5.2	15.2	-55°	4.3	6.7	20.1	-46°	5.2	8.2	25	-43°	--	--	--	--				
4.9	--	--	--	--	3.7	6.1	16.2	-53°	--	--	--	--	4.9	7	22.3	-49°	--	--	--	--	4	6.1	17.4	-53°	5.2	7.9	23.2	-49°	--	--	--	--				
5.5	--	--	--	--	--	--	--	--	--	--	--	--	4.3	6.4	19.5	-56°	--	--	--	--	--	--	--	--	4.9	7.3	21	-56°	--	--	--	--				
Size	33°C Rise																				39°C Rise															
	175				200				225				250				300				350				400											
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
2.4	4.6	8.8	28	-22°	4.9	9.4	30.5	-21°	4.9	8.8	30.5	-24°	5.8	10.4	38.7	-20°	4.9	8.5	30.5	-24°	5.5	10.1	36.3	-20°	5.2	9.4	33.8	-21°	--	--	--	--				
3	4.9	8.8	27.1	-28°	5.5	9.4	29.6	-25°	4.9	9.1	29.3	-29°	6.1	10.7	37.5	-24°	5.2	8.8	29.3	-29°	5.8	10.4	35.4	-25°	5.5	9.8	32.6	-26°	--	--	--	--				
3.7	5.2	8.8	25.9	-33°	5.8	9.4	28.3	-30°	5.2	9.1	28	-34°	6.4	11	36.6	-28°	5.5	8.8	28	-34°	6.4	10.4	34.4	-29°	5.8	9.8	31.4	-31°	--	--	--	--				
4.3	5.2	8.5	24.4	-38°	6.1	9.1	27.1	-34°	5.5	8.5	26.5	-38°	6.7	10.7	35.4	-32°	5.5	8.5	26.5	-39°	6.7	10.4	33.2	-33°	6.1	9.4	30.2	-35°	--	--	--	--				
4.9	5.2	8.2	22.9	-43°	6.1	8.8	25.6	-39°	5.5	8.2	24.4	-44°	7	10.7	33.8	-37°	5.5	8.2	24.7	-44°	6.7	10.1	31.7	-37°	6.1	9.4	28.3	-40°	--	--	--	--				
5.5	5.2	7.6	21	-48°	5.8	8.8	24.1	-44°	5.2	7.9	22.6	-49°	7	10.4	32.3	-41°	5.2	7.6	22.3	-50°	6.7	9.8	29.9	-41°	6.1	8.8	26.8	-44°	--	--	--	--				
Size	25°C Rise																				28°C Rise															
	175				200				225				250				300				350				400											
Mounting Height	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle	X	Y	Z	Lvr. Angle
2.4	6.7	12.5	44.5	-15°	7	13.1	47.9	-13°	7	13.1	51.2	-16°	7.9	14.6	60.4	-14°	6.4	11.9	44.5	-17°	7.3	13.7	51.5	-14°	7.3	13.4	51.5	-14°	--	--	--	--				
3	7.3	13.1	43.9	-19°	7.6	14	47.2	-17°	7.9	13.7	50.6	-19°	8.8	15.2	59.7	-17°	7	12.5	43.6	-21°	7.9	14.3	50.9	-18°	7.9	14	50.9	-17°	--	--	--	--				
3.7	7.9	13.1	43	-22°	8.2	14.3	46.3	-20°	8.5	13.7	49.7	-22°	9.4	15.8	59.1	-20°	7.6	12.8	42.7	-25°	8.5	14.6	50.3	-21°	8.5	14.6	50.3	-20°	--	--	--	--				
4.3	8.5	13.4	41.8	-25°	8.8	14.6	45.7	-23°	9.1	14	48.8	-25°	9.8	16.5	58.2	-22°	7.9	12.8	41.8	-28°	9.1	14.9	49.4	-24°	9.4	14.6	49.4	-23°	--	--	--	--				
4.9	8.8	13.4	40.8	-28°	9.4	14.6	44.8	-26°	9.4	14.3	47.9	-29°	10.4	16.2	57.6	-25°	8.2	12.8	40.5	-31°	9.8	14.6	48.5	-26°	9.8	14.9	48.5	-26°	--	--	--	--				
5.5	8.8	13.4	39.9	-32°	9.4	14.9	43.9	-29°	9.4	14.3	46.6	-32°	10.4	16.5	56.4	-28°	8.5	12.5	39.3	-34°	10.1	14.9	47.5	-29°	9.8	14.9	47.5	-29°	--	--	--	--				

Louver angle listed in the table is relative to the top of the unit heater.

GENERAL INFORMATION

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 and enforcing authorities.

FOR YOUR SAFETY

What to do if you smell gas:

- Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, immediately call your fire department.
-

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operation, and maintenance instructions thoroughly before installing or servicing this equipment.

Requirements for installation vary depending on the model of heater and the type of installation. Follow the manufacturer's instructions and comply with all applicable codes.



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Note: In keeping with our policy of continuous product improvement, we reserve the right to alter, at any time, the design, construction, dimensions, weights, etc., of equipment information shown here.

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