

Combat[®] UHA[X][S]-Series Axial Fan Tubular Unit Heaters



◀ Models 30 - 125



Models 150 - 400 ▶

- 82% efficiency with use of tubular heat exchangers and inshot burners.
- Reliable ignition with direct spark ignition burners.
- Help minimize summer heat build-up with remote fan operation.
- Longer life and less maintenance with optional stainless steel heat exchangers.
- Variable air throw direction with adjustable horizontal louvers and optional adjustable vertical louvers.
- Help reduce dirt build-up on burners and help extend heat exchanger life with separated combustion units.
- Installation and operation flexibility with rear or top air and flue connections (Models 30 - 125 only).
- Ideal for smaller spaces with low profile design (Models 30 - 125 only).

www.rg-inc.com
1.800.828.7450



Combat® UHA[X][S]-Series

Technical Data (All Models)

Model		30	45	60	75	100	125	150	175	200	225	250	300	350	400
Total Input	[Btu/h] x [1000]	30	45	60	75	100	125	150	175	200	225	250	300	350	385
Total Output	[Btu/h] x [1000]	24.6	36.9	49.2	61.5	82	102.5	123	143.5	164	184.5	205	246	288.6	315.7
Efficiency		82% - All Models													
Number of Burners		2	3	4	5	6	7	7	8	9	10	11	12	14	14
Gas Connection	[in]	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
Inlet Pressure	[in wc] NG Min.	5 - All Models													
	LPG Propane Min.	12 - All Models													
	NG & LP Propane Max.	14 - All Models													
Electrical Supply		120 V / 1 Ø / 60 Hz - All Models													
Full Load Amps @ 120 V		3.0	3.0	4.1	4.1	5.8	5.8	10.6	10.6	10.6	10.6	10.6	11.6	11.6	11.6
Air Volume	[CFM]	691	691	1376	1376	1902	1902	3500	3500	3716	3716	3716	4663	4663	4663
Recommended	[ft]	12	12	15	15	20	20	20	20	25	25	25	30	30	30
Mounting Height	[m]	3.7	3.7	4.6	4.6	6.1	6.1	6.1	6.1	7.6	7.6	7.6	9.1	9.1	9.1
Number of Axial Fans		1	1	1	1	1	1	1	1	1	1	1	2	2	2
Axial Fan Diameter	[in]	10	10	16	16	16	16	19.7	19.7	19.7	19.7	19.7	16	16	16
	[cm]	25	25	41	41	41	41	50	50	50	50	50	41	41	41
Horsepower		.06	.06	.08	.08	.2	.2	.3	.3	.3	.3	.3	.4	.4	.4
Fan Motor Amps @ 120 V		1.8	1.8	2.6	2.6	4.3	4.3	4.7	4.7	4.7	4.7	4.7	8.6	8.6	8.6
Fan Motor RPM		1630	1630	1030	1030	1175	1175	1085	1085	1085	1085	1100	1155	1155	1155
Fan Motor Type		SP	SP	SP	SP	PSC	PSC	PSC	PSC	PSC	PSC	PSC	PSC	PSC	PSC
Flue Size	[in]	4 - All Models													
	[cm]	10 - All Models													
Combustion Air Size	[in]	4	4	4	4	4	4	4	4	4	4	4	5	5	5
	[cm]	10	10	10	10	10	10	10	10	10	10	10	13	13	13
Approximate Net Weight	[lb]	65	70	85	90	105	110	217	237	255	265	270	355	375	375
	[kg]	29.5	31.8	38.6	40.8	47.6	49.9	98.4	107.5	115.7	120.2	122.5	161.0	170.1	170.1
Approximate Shipping Weight	[lb]	75	80	100	108	130	136	232	242	250	260	300	400	430	430
	[kg]	34.0	36.3	45.4	49.0	59.0	61.7	109.7	104.3	113.4	118.0	136.1	181.4	195.0	195.0

Clearances to Combustibles (All Models)

		Low Profile Range (Models 30-125)	Standard Profile Range (Models 150-400)
Top***	[in]	1	6
	[cm]	2.5	15
Bottom	[in]	0	3
	[cm]	0	8
Right	[in]	1	31*
	[cm]	2.5	79*
Left	[in]	18*	6
	[cm]	46*	15
Rear***	[in]	18**	24**
	[cm]	46**	61**
Front	[in]	118	118
	[cm]	300	300
Vent	[in]	2	2
	[cm]	5	5

* Clearance for servicing

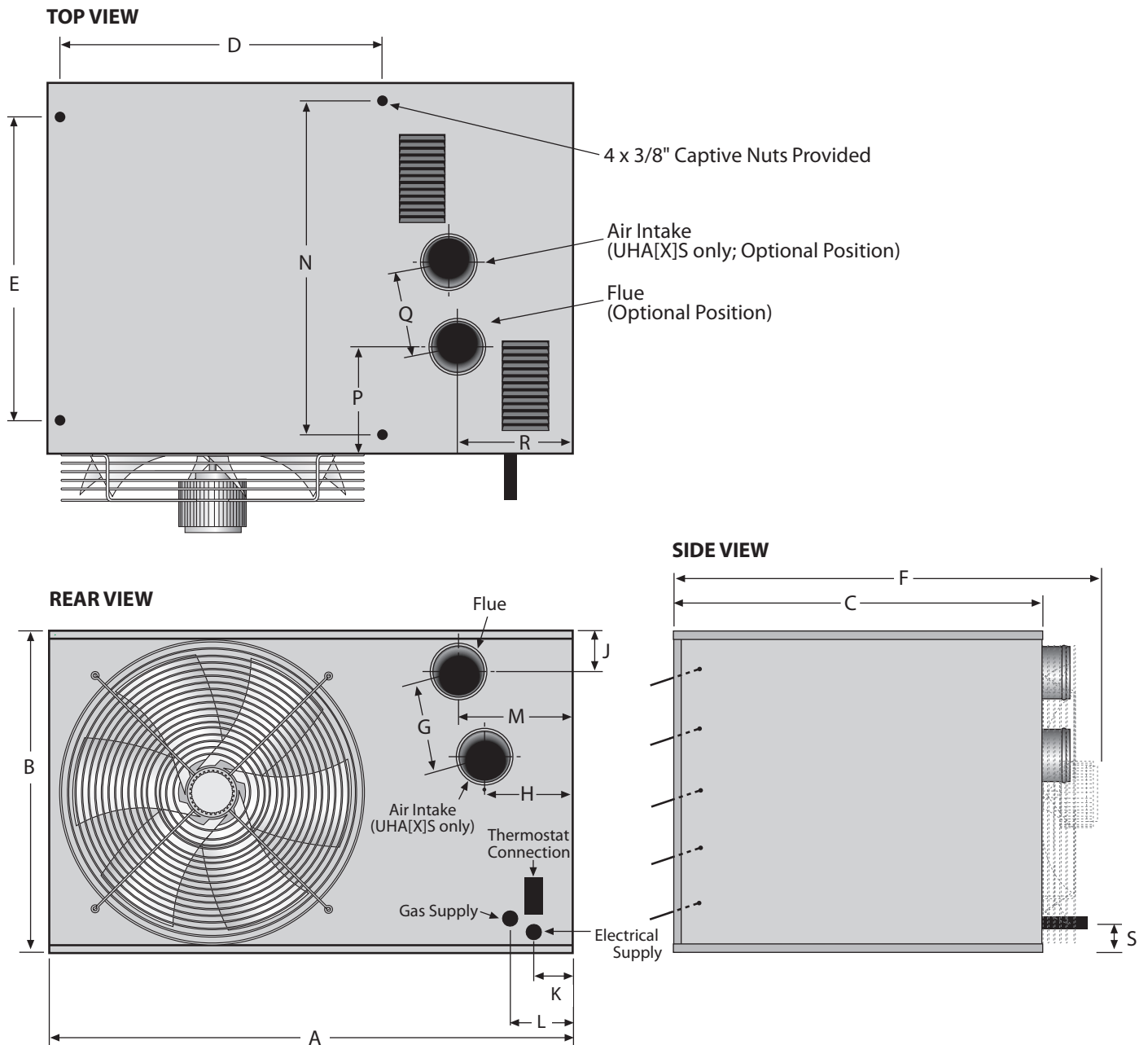
** Clearance for airflow

***These are also installation clearances.

Combat® UHA[X][S]-Series

Dimension Data - Low Profile Range (Models 30 - 125)

Model		A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
UHA[X][S]30	[in]	28.5	11.9	20.3	17.6	16.6	25.5	6.0	6.5	6.0	1.6	3.9	6.7	18.2	5.5	4.4	6.8	1.8
	[cm]	72.4	30.2	51.6	44.7	42.2	64.8	15.2	16.5	15.2	4.1	9.9	17.0	46.2	14.0	11.2	17.3	4.6
UHA[X][S]45	[in]	28.5	11.9	20.3	17.6	16.6	25.5	6.0	6.5	6.0	1.6	3.9	6.7	18.2	5.5	4.4	6.8	1.8
	[cm]	72.4	30.2	51.6	44.7	42.2	64.8	15.2	16.5	15.2	4.1	9.9	17.0	46.2	14.0	11.2	17.3	4.6
UHA[X][S]60	[in]	28.5	17.6	20.3	17.6	16.6	25.5	6.3	6.1	2.8	1.6	3.4	6.7	18.2	5.5	4.4	6.8	1.8
	[cm]	72.4	44.7	51.6	44.7	42.2	64.8	16.0	15.5	7.1	4.1	8.6	17.0	46.2	14.0	11.2	17.3	4.6
UHA[X][S]75	[in]	28.5	17.6	20.3	17.6	16.6	25.5	6.3	6.1	2.8	1.6	3.4	6.7	18.2	5.5	4.4	6.8	1.8
	[cm]	72.4	44.7	51.6	44.7	42.2	64.8	16.0	15.5	7.1	4.1	8.6	17.0	46.2	14.0	11.2	17.3	4.6
UHA[X][S]100	[in]	28.5	22.6	20.3	17.6	16.6	25.5	7.0	6.0	2.4	1.6	3.4	6.7	18.2	6.3	4.4	6.8	1.8
	[cm]	72.4	57.4	51.6	44.7	42.2	64.8	17.8	15.2	6.1	4.1	8.6	17.0	46.2	16.0	11.2	17.3	4.6
UHA[X][S]125	[in]	28.5	22.6	20.3	17.6	16.6	25.5	7.0	6.0	2.4	1.6	3.4	6.7	18.2	6.3	4.4	6.8	1.8
	[cm]	72.4	57.4	51.6	44.7	42.2	64.8	17.8	15.2	6.1	4.1	8.6	17.0	46.2	16.0	11.2	17.3	4.6

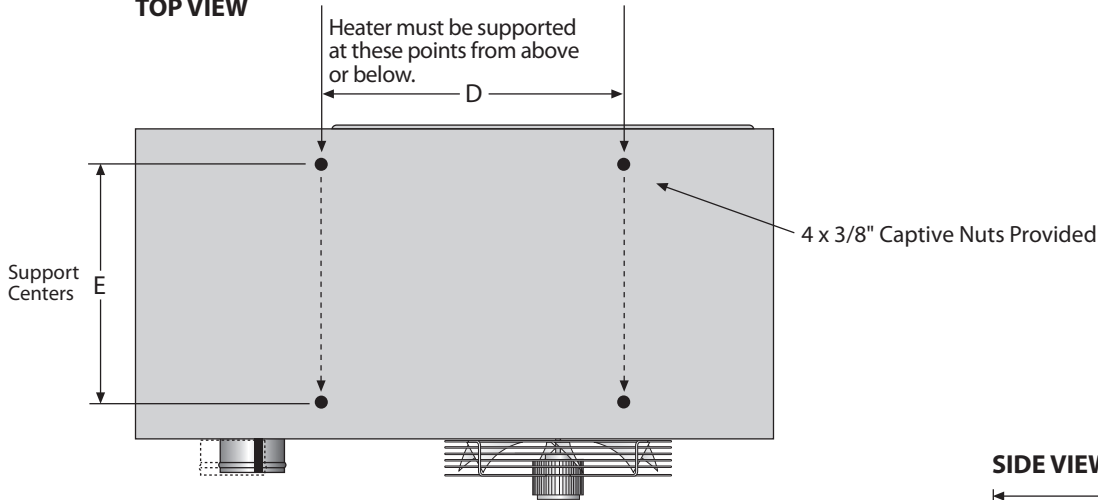


Combat® UHA[X][S]-Series

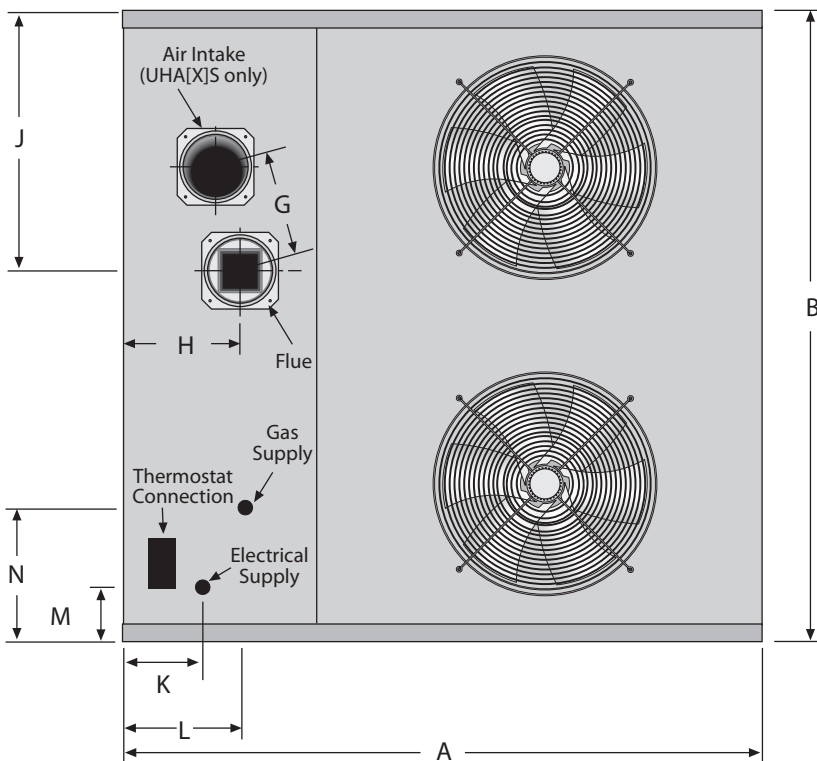
Dimension Data - Standard Profile Range (Models 150 - 400)

Model		A	B	C	D	E	F	G	H	J	K	L	M	N
UHA[X][S]150	[in]	42.4	26.7	25.5	17.6	19.4	30.0	6.0	8.6	15.3	3.4	5.9	2.4	6.5
	[cm]	107.7	67.8	64.8	44.7	49.3	76.2	15.2	21.8	38.9	8.6	15.0	6.1	16.5
UHA[X][S]175	[in]	42.4	26.7	25.5	17.6	19.4	30.0	6.0	8.6	15.3	3.4	5.9	2.4	6.5
	[cm]	107.7	67.8	64.8	44.7	49.3	76.2	15.2	21.8	38.9	8.6	15.0	6.1	16.5
UHA[X][S]200	[in]	42.4	35.0	25.5	17.6	19.4	32.0	6.0	8.3	17.2	3.4	5.9	2.4	6.5
	[cm]	107.7	88.9	64.8	44.7	49.3	81.3	15.2	21.1	43.7	8.6	15.0	6.1	16.5
UHA[X][S]225	[in]	42.4	35.0	25.5	17.6	19.4	32.0	6.0	8.3	17.2	3.4	5.9	2.4	6.5
	[cm]	107.7	88.9	64.8	44.7	49.3	81.3	15.2	21.1	43.7	8.6	15.0	6.1	16.5
UHA[X][S]250	[in]	42.4	35.0	25.5	17.6	19.4	32.0	6.0	8.3	17.2	3.4	5.9	2.4	6.5
	[cm]	107.7	88.9	64.8	44.7	49.3	81.3	15.2	21.1	43.7	8.6	15.0	6.1	16.5
UHA[X][S]300	[in]	52.3	43.2	25.5	24.7	19.4	30.0	7.0	11.2	13.8	6.2	8.7	2.4	6.5
	[cm]	132.8	109.7	64.8	62.7	49.3	76.2	17.8	28.4	35.1	15.7	22.1	6.1	16.5
UHA[X][S]350	[in]	52.3	43.2	25.5	24.7	19.4	30.0	7.0	11.2	13.8	6.2	8.7	2.4	6.5
	[cm]	132.8	109.7	64.8	62.7	49.3	76.2	17.8	28.4	35.1	15.7	22.1	6.1	16.5
UHA[X][S]400	[in]	52.3	43.2	25.5	24.7	19.4	30.0	7.0	11.2	13.8	6.2	8.7	2.4	6.5
	[cm]	132.8	109.7	64.8	62.7	49.3	76.2	17.8	28.4	35.1	15.7	22.1	6.1	16.5

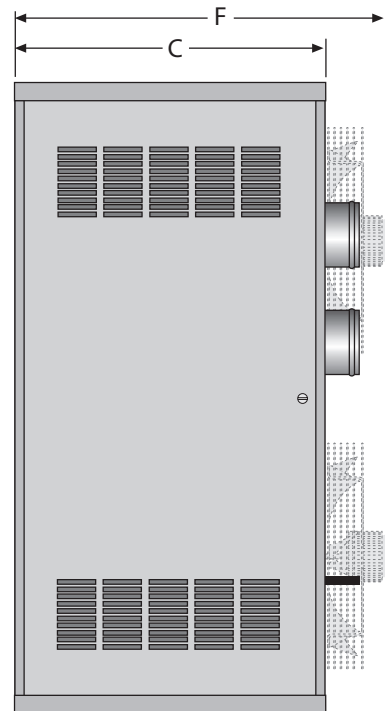
TOP VIEW



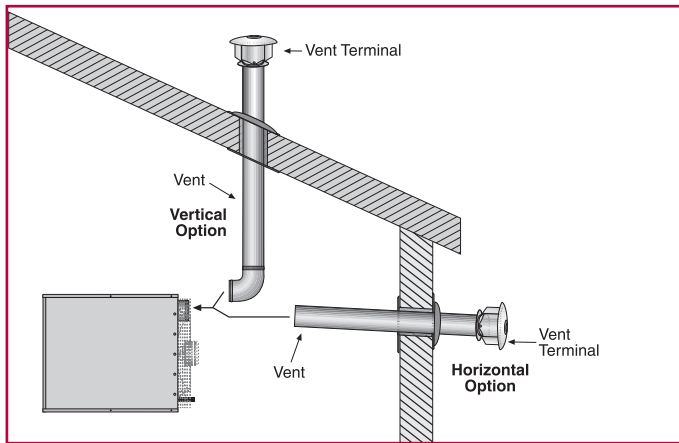
REAR VIEW



SIDE VIEW

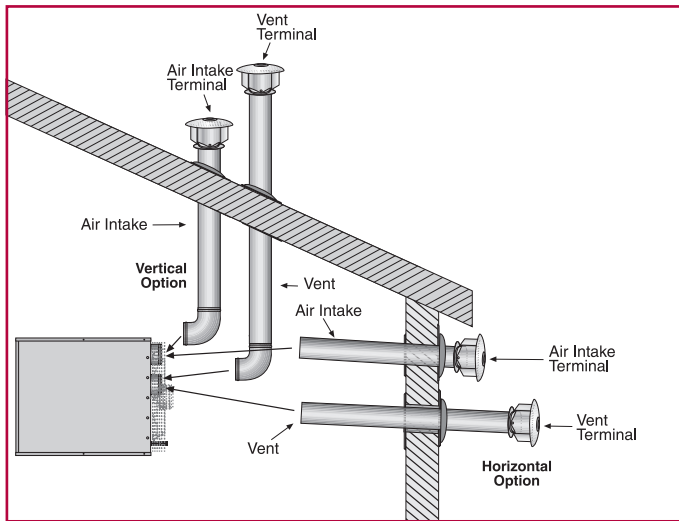


Combat® UHA[X][S]-Series Venting



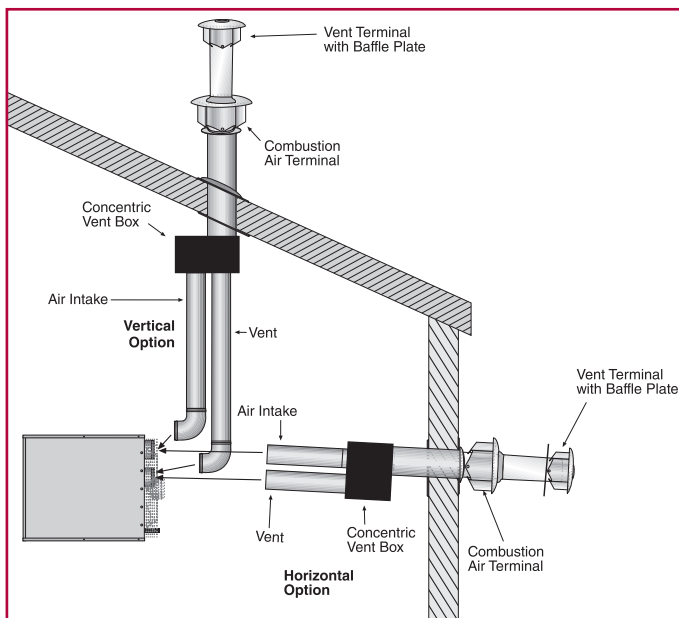
Non-Separated Combustion Heater

Non-separated combustion heaters use air from the heated space for combustion. The combustion air is drawn into the unit through openings in the access door and then into the open burner box. The products of combustion must be vented to the outdoors. Flue can be run either vertically through a roof penetration or horizontally through a wall penetration.



Separated Combustion Heater without Concentric Vent Kit

Separated combustion heaters use air from outside of the heated space for combustion. The combustion air is drawn into the unit's enclosed burner box through a piece of ductwork that is extended out to a flange mounted on the heater's cabinet. Ductwork must be run from that flange either vertically through a roof penetration or horizontally through a wall penetration to allow the intake of combustion air. The products of combustion must be vented to the outdoors. Flue can be run either vertically through a roof penetration or horizontally through a wall penetration. Venting a separated combustion heater without a concentric vent kit will result in two building penetrations, one for the air intake ductwork and one for the flue ductwork.



Separated Combustion Heater with Concentric Vent Kit

Separated combustion heaters use air from outside of the heated space for combustion. The combustion air is drawn into the unit's enclosed burner box through a piece of ductwork that is extended out to a flange mounted on the heater's cabinet. Ductwork must be run from that flange either vertically or horizontally to the concentric vent box. The products of combustion must be vented to the outdoors. Flue can be run either vertically or horizontally to the concentric vent box. The air intake and flue ductwork will be combined into a single concentric vent at the concentric vent box. This single piece of concentric vent will then continue horizontally or vertically to a single building penetration.

Thank you for your business!

Installation Code and Annual Inspections:

All installation and service of ROBERTS GORDON® equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Roberts-Gordon LLC and conform to all requirements set forth in the ROBERTS GORDON® manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Roberts-Gordon LLC recommends that a qualified contractor conduct, at a minimum, annual inspections of your ROBERTS GORDON® equipment and perform service where necessary, using only replacement parts sold and supplied by Roberts-Gordon LLC.

Further Information: Applications, engineering and detailed guidance on systems design, installation and equipment performance is available through ROBERTS GORDON® representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

These products (with the exception of the UHA[X][S]30 - 75) are not for residential use.

This document is intended to assist licensed professionals in the exercise of their professional judgment.

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