



**ROOFTOP DUCT FURNACES
NATURAL GAS FIRED
LRD SERIES—HORIZONTAL
100,000 to 400,000 Btuh INPUT**

ENGINEERING DATA
HEATING UNITS

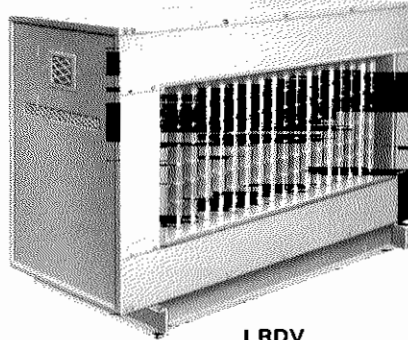
GAS

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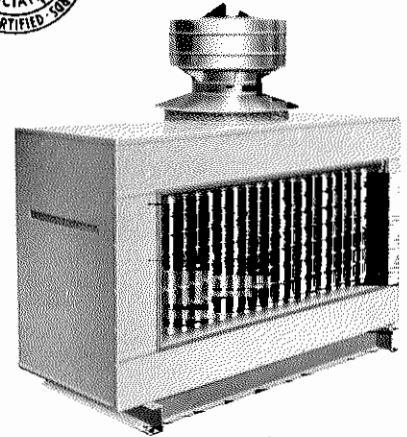
July 1, 1973



- Several Sizes Available
- Factory Assembled
- Minimum Installation Cost
- Aluminized Steel Cabinet
- Aluminized Heat Exchanger
- Aluminized Burners
- Flue Vent Choice
- Complete Service Access
- Control Choice
- A.G.A. Certified

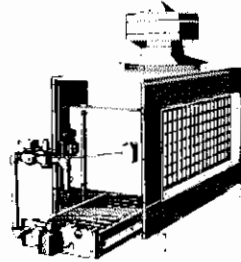


LRDV
Power Vent Model



LRDG
Gravity Vent Model

LRDG Gravity Vent Model
(Shown with slide out burner
tray and controls exposed)

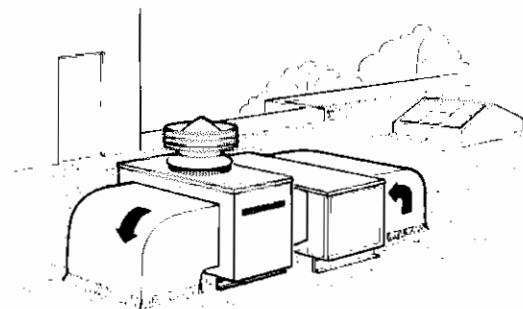


Complete Line Of Natural Gas Fired Duct Furnaces For Rooftop Installations.

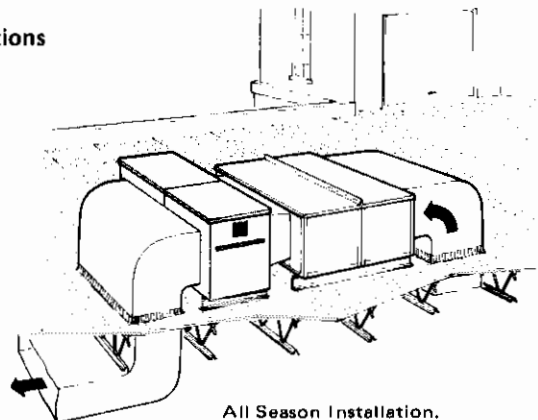
The LRDG and LRDV series gas fired roof mount duct furnaces are available in several sizes with a wide and varied range of heating capacities. Balanced flue design for operation with natural gas assures good combustion at all operating conditions. Several types of modulation offered for heating, ventilating or make-up air service. Furnaces are designed for standard or high cfm air delivery applications, by-pass duct systems are not required. Two furnaces may be factory assembled in series or parallel for larger capacity requirements, see dimension drawing. Duct furnaces may also be installed downstream from cooling coils in all-season applications. Units are shipped factory assembled with controls installed, piped and wired. All models are A.G.A. Certified. Weatherproof cabinet is constructed of aluminized steel with a durable baked-on enamel finish. All controls are readily accessible for service. Individually removable aluminized steel burners and pilot are located in a slide-out burner tray for ease of service.

LRDG models are furnished with a constant pilot and gravity vent cap. LRDV models are furnished with intermittent pilot and power vent. All models are equipped with a special base frame for ease of handling with a crane or fork lift. Furnaces are available with heavy duty electrically-welded aluminized 409 (E-3) stainless or 321 stainless heat exchanger. Controls furnished as standard equipment include main gas cock, main gas pressure regulator, pilot gas cock, main solenoid gas valve, pilot solenoid gas valve (LRDV models only), electronic spark ignition relighter system, safety pilot, high limit control and 115/24 volt control transformer. Options offered include; two stage gas valve, modusnap gas valve, modusnap and by-pass manifold, selectra electronic modulation systems (MS-1 make-up air only—MS-2 space heating only—MS-3 make-up air and space heating), pilot pressure regulator, high pressure regulator, fan control (time delay relay) and 230 volt primary—24 volt control circuit.

Typical Applications



Heating Only Installation.
Single duct furnace and
Lennox blower unit.



All Season Installation.
Parallel duct furnaces and
Lennox blower-coil-filter unit.

NOTE—Specifications, ratings and dimensions subject to change without notice.

SPECIFICATIONS

Air Temperature Rise (degrees F)				HIGH CFM TYPE "H"					STANDARD TYPE				
				10°	20°	30°	40°	50°	50°	60°	70°	80°	90°
Static Pressure Drop (in. w.c.)				1.07	.27	.12	.07	.04	.21	.14	.11	.08	.06
*Model No.	Input (Btuh)	Output (Btuh)	Shipping Weight (lbs.)	CFM THROUGH DUCT FURNACES									
LRDG-100 LRDV-100	100,000	75,000	300	6,950	3,475	2,320	1,740	1,395	1,395	1,160	995	870	775
LRDG-125 LRDV-125	125,000	93,750	330	8,685	4,345	2,900	2,175	1,745	1,745	1,450	1,245	1,090	970
LRDG-160 LRDV-160	160,000	120,000	365	11,140	5,570	3,715	2,785	2,230	2,230	1,860	1,590	1,390	1,240
LRDG-210 LRDV-210	210,000	157,500	415	14,600	7,300	4,870	3,655	2,930	2,930	2,435	2,090	1,825	1,630
LRDG-250 LRDV-250	250,000	187,500	465	17,370	8,690	5,800	4,350	3,485	3,485	2,900	2,490	2,175	1,935
LRDG-300 LRDV-300	300,000	225,000	515	20,850	10,425	6,960	5,215	4,180	4,180	3,480	2,985	2,610	2,320
LRDG-400 LRDV-400	400,000	300,000	720	27,800	13,900	9,270	6,950	5,570	5,570	4,640	3,975	3,475	3,090

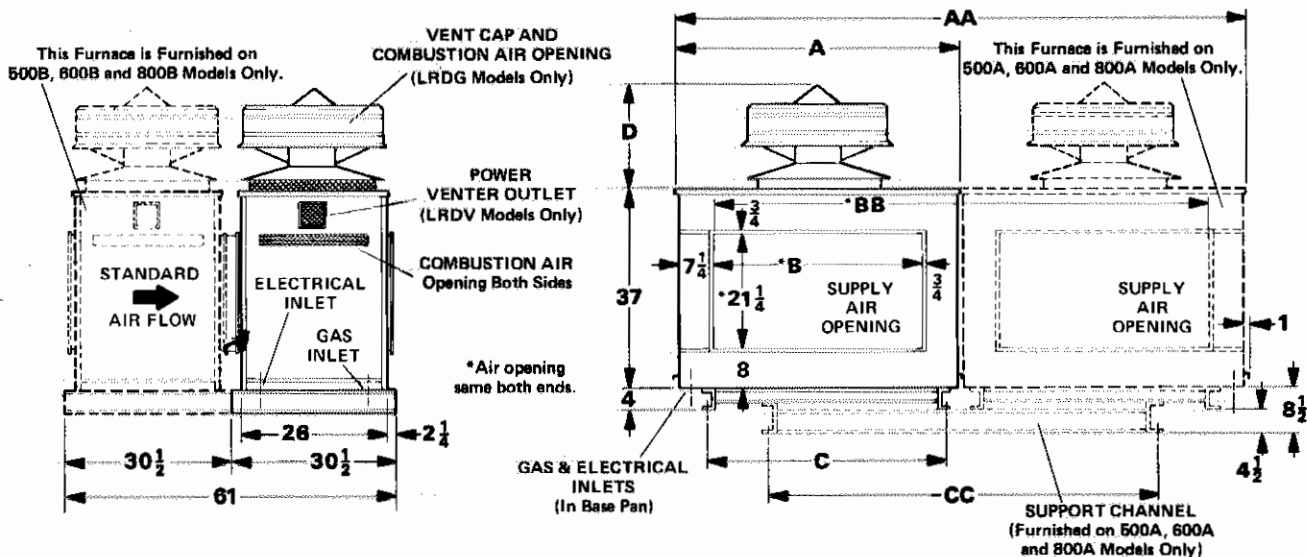
*Specify "LRDG" for gravity vent and "LRDV" for power vent.

Two identical furnaces may be factory assembled for Btuh inputs of 500,000-600,000 and 800,000.

Use suffix "A" for one bank parallel arrangement—Half the air flows thru each furnace.

Use suffix "B" for two bank series arrangement—All the air flows thru both furnaces.

DIMENSIONS (inches)



Model Number	LRDG And LRDV							
	100 & 125	160 & 210	250 & 300	400	500A & 600A	800A	500B & 600B	800B
A	28-5/8	39-3/8	50	63-1/2	---	---	50	63-1/2
AA	---	---	---	---	102	129	---	---
B	17-7/8	28-5/8	39-3/8	52-3/4	---	---	39-3/8	52-3/4
BB	---	---	---	---	87-1/2	114-1/2	---	---
C	21-7/8	32-5/8	43-3/8	56-7/8	---	---	43-3/8	56-7/8
CC	---	---	---	---	69-5/8	74-5/8	---	---
D	14-1/4	16	19-3/8	19-7/8	19-3/8	19-7/8	19-3/8	19-7/8

RECOMMENDED INSTALLATION CLEARANCES

NOTE—FURNACES ARE CERTIFIED FOR INSTALLATION ON COMBUSTIBLE FLOORING.

FROM	CLEARANCE
Control Access End of Furnace	Width of Furnace
Any Side of Heater to any Wall or Parapet	* 6 Ft.
Bottom of Furnace Rail to Roof, etc.	† See Note

* Poor venting and pilot outage may be caused by negative pressure or high pressure zones created by walls or other obstructions. Therefore, locate the unit as far as possible from the source of such air turbulence and at least 6 feet from edge of the roof.

† A 4" high frame is an integral part of the appliance and may be installed directly on the roof or other combustible construction. For ease of service, however, it is suggested that the unit be located above the surface of the roof on a field fabricated base.