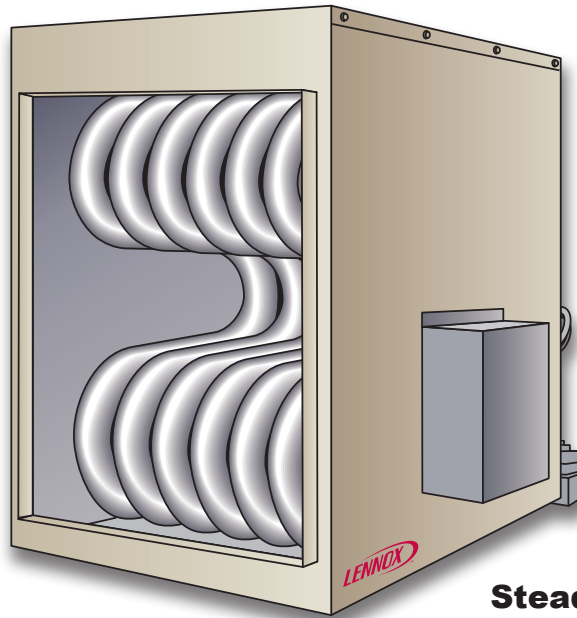




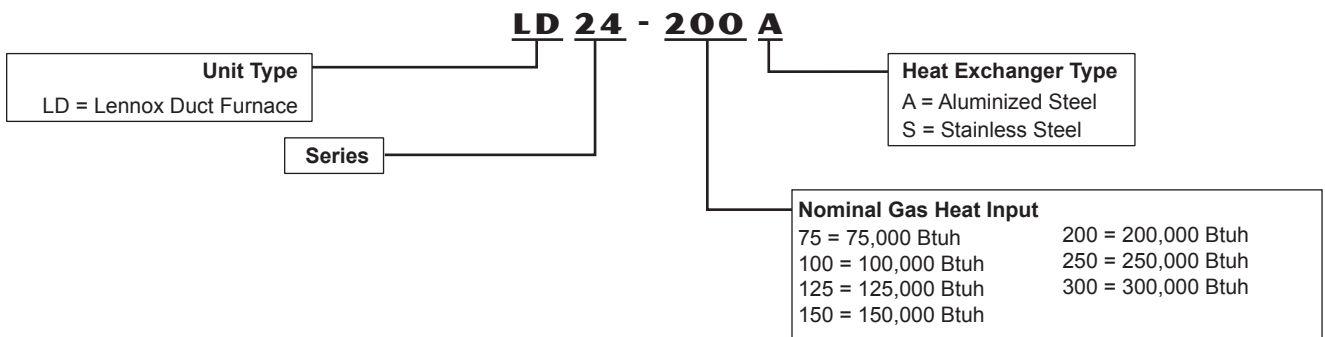
ENGINEERING DATA

Bulletin No. 210092
 June 2011
 Supersedes February 2011



Steady-State Efficiency - 80%
Input - 75,000 to 300,000 Btuh

MODEL NUMBER IDENTIFICATION



FEATURES AND BENEFITS

CONTENTS

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Guide Specifications	7
High Altitude Derate.....	4
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WARRANTY

Heat exchanger - stainless steel - fifteen year limited warranty, aluminized steel - ten year limited warranty.

All other covered components - one year limited warranty.

Refer to Lennox Equipment Limited Warranty certificate included with equipment for details.

APPLICATIONS

Compact in design and easy to install.
 Natural gas applications.
 Ideal for economical commercial heating systems.
 Shipped completely assembled with controls factory installed and wired.
 Each unit factory test operated to ensure proper operation.

APPROVALS

Units certified by CSA International.
 Units are certified for vertical or horizontal venting.
 Approved for installation with single wall and type B-1 double wall vent pipe (vertical venting only).
 ISO 9001 Registered Manufacturing Quality System.

FEATURES AND BENEFITS

HEATING SYSTEM

24 volt redundant combination gas control valve combines a manual main shutoff valve, pressure regulation and automatic electric valve (dual) into one compact combination control.

Electronic direct spark ignition control provides positive and safe main burner ignition. Occurs only when required.

Separate electronic flame sensor control assures safe and reliable operation. Should loss of flame occur, flame sensor control will initiate

3 attempts at re-ignition before locking out unit operation.

Pressure switch proves blower operation before allowing gas valve to open.

Combustion air inducer operates only during heating cycle.

Tubular, Aluminized or Stainless Steel Heat Exchanger

Constructed of aluminized or stainless steel for superior resistance to corrosion and oxidation.

Curving design allows complete exposure of heating surfaces to supply air stream.

Round surfaces create minimum air resistance and allow air to surround all surfaces for excellent heat transfer.

Compact design reduces space requirements in unit cabinet.

Heat exchanger has been laboratory life-cycle tested.

Inshot Burners

Aluminized steel inshot burners provide efficient, trouble-free operation.

Burner venturi mixes air and gas in correct proportion for proper combustion.

Burner assembly is removable from the unit as a single component for ease of service. Each burner may be removed individually.

Limit Control

Factory installed and accurately located.

Limit control has fixed temperature setting.

Protects heating system from abnormal operating conditions.

Combustion Air Inducer

Combustion air inducer prepurges heat exchanger and safely vents combustion products.

Motor has ball bearings and is thermally protected.

Pressure switch prevents unit operation in case of blockage of combustion air inlet or flue outlet.

May be rotated 90° to left or right of vertical to facilitate installation (-75-100-125-150 models only).

VENTING

Units may be vented horizontally or vertically.

Vertical Venting - LD24 units are approved for installation with single wall and type B-1 double wall vent pipe.

Horizontal Venting - LD24 units are approved for installation with single wall or with Lennox-approved stainless steel vent kits.

OPTIONS/ACCESSORIES

Horizontal Vent Kits

UL listed, Cat III stainless steel vent kits are available for upward or downward slope. 3 to 5 in. vent kits snap together, 6 in. vent kit include connection clamps.

Kits include unit transition, vent termination and wall thimble. Upward slope kits have drain connection, downward slope kits have double male adaptor. Provisions for hanging must be field supplied.

90° elbow is available and required for certain size units where the combustion air inducer cannot be rotated 90°.

Straight pipe sections in various lengths are also available.

See Horizontal Vent Kits / Elbow table for Lennox-approved Horizontal Vent Kits and accessories.

See drawings for additional information.

See installation instructions for detailed venting requirements.

CONTROLS

24 volt main combination gas valve with 100% safety shutoff, direct spark ignition, main shutoff valve, gas pressure regulation, 115/24V transformer, blower timer and limit control.

Combination Direct Spark Ignition/Fan Timer Control

Control board contains all necessary controls and relays to operate unit.

Fan timer control - fan on 45 seconds (fixed), fan off 150 seconds (fixed).

Terminal strip for thermostat connections.

Diagnostic LED for troubleshooting.

Available continuous fan operation.

OPTIONS

Thermostat

See Thermostat bulletins in Controls section and Lennox Price Book for a complete list of thermostats.

CABINET

Constructed of heavy-gauge, painted steel.

Insulation keeps outer cabinet surface temperatures low.

Wiring junction box is conveniently located on outside of cabinet for easy access. Box contains all electrical and safety controls.

3/8" x 16 rivetnuts are located on the top of cabinet for suspending unit. See dimension drawing.

SPECIFICATIONS

Gas Heating Performance	Aluminized Steel Heat Exchanger	LD24-75A	LD24-100A	LD24-125A	LD24-150A	LD24-200A	LD24-250A	LD24-300A
	Stainless Steel Heat Exchanger	LD24-75S	LD24-100S	LD24-125S	LD24-150S	LD24-200S	LD24-250S	LD24-300S
	Heating Capacity - Input - Btuh	75,000	100,000	125,000	150,000	200,000	250,000	300,000
	Output - Btuh	60,000	80,000	100,000	120,000	160,000	200,000	240,000
	Steady State Efficiency	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%
	Air Volume Throughput - cfm	780 - 2700	870 - 3700	1020 - 4700	1320 - 5600	1480 - 4230	1850 - 5290	2220 - 6190
	Temperature Rise - °F	21 - 71	20 - 85	20 - 91	20 - 84	35 - 100	35 - 100	36 - 100
Connections in.	Flue Size (round)	¹ 4	¹ 4	¹ 4	¹ 4	² 5	² 5	² 5
	Gas Piping Size (npt)	1/2	1/2	1/2	1/2	3/4	3/4	3/4
	Condensate Drain Size (barb)	1/4	1/4	1/4	1/4	1/4	1/4	1/4
Shipping Weight - 1 package (lbs)		95	130	135	150	245	260	275
Electrical characteristics		115 volts - 60 hertz - 1 phase						

¹ 2-1/4 x 4 in. round flue adaptor furnished.

² 2-1/4 x 2-3/4 in. rectangular to 5 in. round flue adaptor furnished.

HORIZONTAL VENT KITS AND ELBOW

Unit Heater Model No.	Vent Diameter (in.)	Upslope Vent Kit	Catalog No.	Downslope Vent Kit	Catalog No.	90° Elbow	Catalog No.	¹ Minimum Vent Length (ft.)
LD24-75 LD24-100 LD24-125 LD24-150	4	C5VENT4KU	75W63	C5VENT4KD	75W67	C5VENT4E (Optional)	75W71	5
LD24-200 LD24-250 LD24-300	5	C5VENT5KU	75W64	C5VENT5KD	75W68	C5VENT5E (Required)	75W72	5

¹ Length does not include termination (or elbow where applicable). NOTE - Elbow is required where shown to facilitate connection of horizontal vent kit to flue outlet.

STRAIGHT VENT PIPE - FOR HORIZONTAL VENTING

Unit Heater	Model No.	Vent Diameter (in.)	Length (in.)	Catalog No.
LD24-75 LD24-100 LD24-125 LD24-150	C5VENT4P6	4	6	75W77
	C5VENT4P12	4	12	75W78
	C5VENT4P36	4	36	75W79
LD24-200 LD24-250 LD24-300	C5VENT5P6	5	6	75W80
	C5VENT5P12	5	12	75W81
	C5VENT5P36	5	36	75W82

INSTALLATION CLEARANCES

Model No.	LD24-75	LD24-100, LD24-125 LD24-150, LD24-200 LD24-250, LD24-300
Top	1 inch (25 mm)	6 inches (152 mm)
Sides	6 inches (152 mm)	6 inches (152 mm)
Rear	18 inches (457 mm)	18 inches (457 mm)
Bottom	2 inches (51 mm)	2 inches (51 mm)
Flue	6 inches (152 mm)	6 inches (152 mm)

NOTE - Provide adequate clearance for servicing.

AIR RESISTANCE/TEMPERATURE RISE

Model No.	Air Volume cfm	Total Resistance in. w.g.	Temperature Rise °F
LD24-75	780	0.01	71
	1000	0.02	56
	1300	0.05	43
	1600	0.07	35
	1900	0.10	29
	2200	0.12	25
	2500	0.17	22
	2700	0.20	21
LD24-100	870	0.02	85
	900	0.02	82
	1300	0.03	57
	1700	0.06	44
	2100	0.09	35
	2500	0.12	30
	2900	0.15	26
	3300	0.18	22
LD24-125	3700	0.23	20
	1020	0.03	91
	1100	0.03	84
	1600	0.06	58
	2100	0.11	44
	2600	0.16	36
	3100	0.21	30
	3600	0.26	26
	4100	0.31	23
	4600	0.36	20
4700	0.37	20	
LD24-150	1320	0.02	84
	1400	0.03	79
	2000	0.07	56
	2600	0.12	43
	3200	0.20	35
	3800	0.28	29
	4400	0.37	25
	5000	0.45	22
	5600	0.55	20

HIGH ALTITUDE DERATE

Unit may be fired at full input up to 2000 feet above sea level. At altitudes of 2000-4500 feet, units have a fixed derate. See markings on unit for correct input. No additional adjustment is necessary. If unit is installed at an altitude greater than 4500 feet, unit must be derated by 4% for each additional 1000 feet above sea level. In Canada, if the unit is installed at an altitude greater than 4500 feet, unit may be derated as permitted by the requirements of the local authorities.

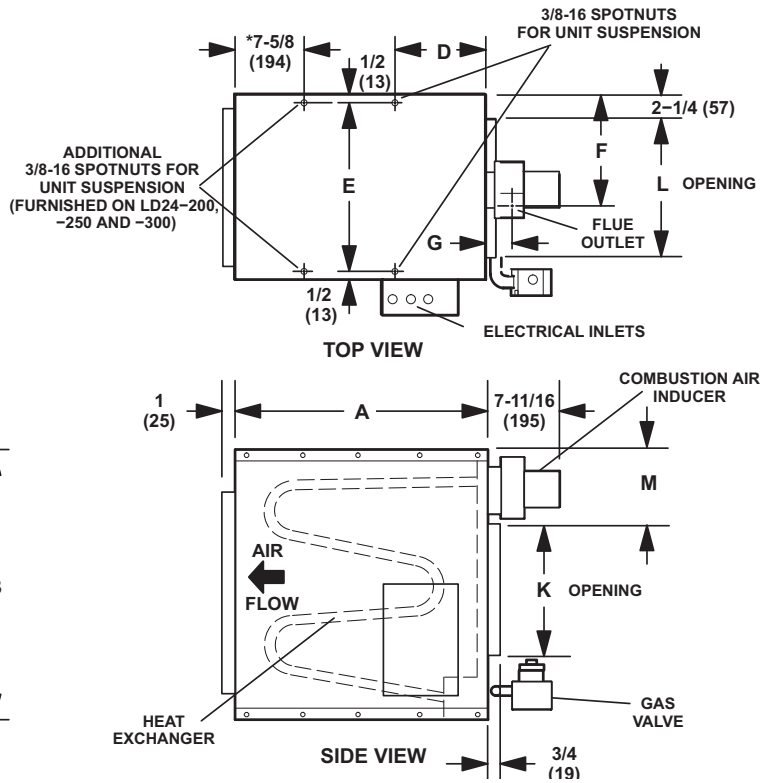
NOTE - This is the only permissible derate for the units.

AIR RESISTANCE/TEMPERATURE RISE

Model No.	Air Volume cfm	Total Resistance in. w.g.	Temperature Rise °F
LD24-200	1480	0.03	100
	1500	0.03	99
	2000	0.04	74
	2500	0.07	59
	3000	0.09	49
	3500	0.13	42
	4000	0.15	37
	4230	0.16	35
LD24-250	1850	0.04	100
	2000	0.05	93
	2500	0.08	74
	3000	0.11	62
	3500	0.13	53
	4000	0.17	46
	4500	0.19	41
	5000	0.23	37
	5290	0.25	35
LD24-300	2220	0.07	100
	2800	0.11	79
	3400	0.14	65
	4000	0.18	56
	4600	0.23	48
	5200	0.26	43
	5800	0.31	38
	6190	0.33	36
	6200	0.33	36

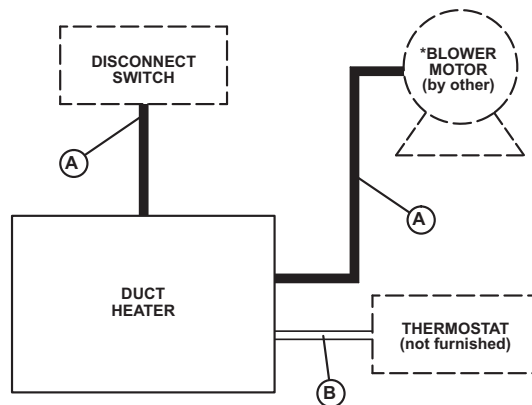
DIMENSIONS - INCHES (MM)

*NOTE — Two spotnuts are furnished on LD24-75, -100, -125, -150
 — Four spotnuts are furnished on LD24-200, -250, -300



Model No.		A	B	C	D	E	F	G	H	J	K	L	M
LD24-75	in.	26	28-5/16	19-1/2	8-1/2	18-1/2	11-3/4	2-1/2	21-1/8	17-1/2	13-3/8	15	7-5/16
	mm	660	719	495	216	469	298	64	537	445	340	381	186
LD24-100 LD24-125	in.	31-5/16	32-3/16	20-1/8	10-1/2	19-1/16	11-3/4	3-1/4	25	18-1/8	15-3/8	15-5/8	9-5/16
	mm	795	818	511	267	484	298	83	635	460	391	397	237
LD24-150	in.	31-5/16	32-3/16	23-1/8	11-3/8	23-1/16	8-1/2	3-1/4	25	21-1/8	15-3/8	17-1/8	8-15/16
	mm	795	818	587	289	586	216	83	635	537	391	435	227
LD24-200 LD24-250 LD24-300	in.	31-5/16	32-3/16	41-1/8	3-11/16	40	17-1/2	3-1/4	25	39-1/8	15-3/8	35-1/16	9
	mm	795	818	1045	97	1016	445	83	635	994	391	891	229

FIELD WIRING



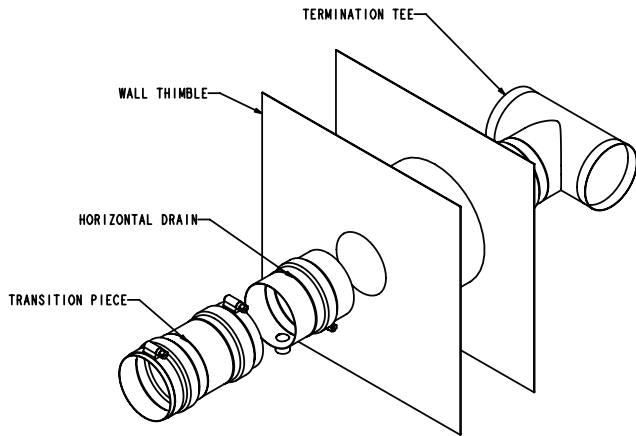
A — Two wire power (not furnished)
 B — Two or three wire low voltage (not furnished)

NOTE — All wiring must conform to NEC or CEC and local electrical codes.

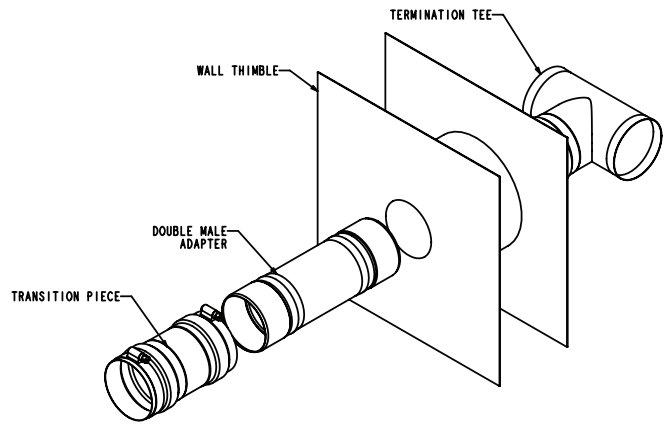
*Relay rating: Blower motor 1/2 hp at 120VAC, 1 hp at 240VAC.
 If a larger motor is used, an additional relay is required.

VENT KITS AND ACCESSORIES

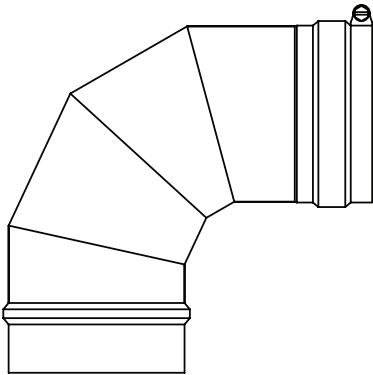
HORIZONTAL VENT KITS (UPSLOPE)



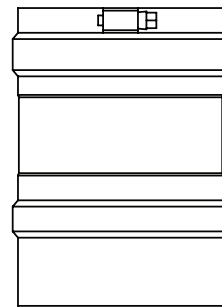
HORIZONTAL VENT KITS (DOWNSLOPE)



90° ELBOW (Typical)



STRAIGHT PIPE (Typical)



GUIDE SPECIFICATIONS

This guide specification specifies **LD24 Gas Fired Duct Furnaces**. These products are manufactured by Lennox Industries.

SECTION 15761

AIR COILS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: Gas Fired Duct Furnace with 75,000 - 300,000 Btuh Input Heating Capacity.

Specifier Note: Revise paragraph below to suit project requirements. Add section numbers and titles per CSI *MasterFormat* and specifier's practice.

B. Related Sections:

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section. Retain only those reference standards to be used within the text of this Section. Add and delete as required for specific project.

1.02 REFERENCES

American National Standards Institute (ANSI):

ANSI-Z223.1/NFPA 54 National Fuel Gas Code Handbook.

ANSI/NFPA 88A Standard for Parking Structures.

ANSI/NFPA 88B Standard for Repair Garages.

ANSI/NFPA 70 National Electrical Code.

ANSI/ASHRAE 62 Ventilation for Acceptable Indoor Air Quality.

Sheet Metal and Air Conditioning Contractors' National Association (SMACNA):

SMACNA AFTS-100-73.

Specifier Note: Article below should be restricted to statements describing design or performance requirements and functional (not dimensional) tolerances of a complete system. Limit descriptions to composite and operational properties required to link components of a system together and to interface with other systems.

1.03 SYSTEM DESCRIPTION

Design Requirements: Provide products and systems manufactured, fabricated and installed to the following criteria:

ANSI-Z223.1/NFPA 54.

ANSI/NFPA 70.

Certified for vertical or horizontal venting.

Approved for installation with single wall and type B-1 double wall vent pipe.

Performance Requirements:

Output: [60,000 Btuh with input of 75,000 Btuh] [80,000 Btuh with input of 100,000 Btuh] [100,000 Btuh with input of 125,000 Btuh] [120,000 Btuh with input of 150,000 Btuh] [160,000 Btuh with input of 200,000 Btuh] [200,000 Btuh with input of 250,000 Btuh] [240,000 Btuh with input of 300,000 Btuh].

Steady State Efficiency: 80%.

Air Volume Throughput: [780 - 2700 cfm] [870 - 3700 cfm] [1020 - 4700 cfm] [1320 - 5600 cfm] [1480 - 4230 cfm] [1850 - 5290 cfm] [2220 - 6190 cfm].

Temperature Rise: [21 - 71 degrees F] [20 - 85 degrees F] [20 - 91 degrees F] [20 - 84 degrees F] [35 - 100 degrees F] [36 - 100 degrees F].

Electrical Characteristics: 115 V - 60 Hz - 1 phase.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures.

B. Product Data: Submit product data, including manufacturer's SPEC-DATA® product sheet, for specified products.

GUIDE SPECIFICATIONS

Shop Drawings:

Submit shop drawings in accordance with Section [01330 - Submittal Procedures].

Indicate:

Equipment, piping and connections, together with valves, strainers, control assemblies, thermostatic controls, auxiliaries and hardware and recommended ancillaries which are mounted, wired and piped ready for final connection to building system, its size and recommended bypass connections.

Piping, valves and fittings shipped loose showing final location in assembly.

Control equipment shipped loose, showing final location in assembly.

Field wiring diagrams.

Dimensions, internal and external construction details, installation clearances, recommended method of installation, sizes and location of mounting bolt holes.

Detailed composite wiring diagrams for control systems showing factory installed wiring and equipment on packaged equipment or required for controlling devices or ancillaries, accessories, controllers.

Quality Assurance:

Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.

Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

Manufacturer's Instructions: Manufacturer's installation instructions.

Specifier Note: Coordinate paragraph below with Part 3 Field Quality Requirements Article herein. Retain or delete as applicable.

Manufacturer's Field Reports: Manufacturer's field reports specified herein.

Closeout Submittals: Submit the following:

Warranty: Warranty documents specified herein.

Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 1 Closeout Submittals (Maintenance Data and Operation Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance. Include names and addresses of spare part suppliers.

Provide brief description of unit, with details of function, operation, control and component service.

Commissioning Report: Submit commissioning reports, report forms and schematics in accordance with Section 01810 - Commissioning.

1.05 QUALITY ASSURANCE

Qualifications:

Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.

Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction and approving application method.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided. Current data on building code requirements and product compliance may be obtained from manufacturer technical support specialists.

Regulatory Requirements: Provide Horizontal Gas Fired Unit Heater that complies with following requirements:

ANSI-Z223.1/NFPA 54.

ANSI/NFPA 70.

ANSI/ASHRAE 62.

C. Preinstallation Meetings: Conduct preinstallation meeting to verify project requirements, manufacturer's installation instructions and manufacturer's warranty requirements. Comply with Division 1 Project Management and Coordination (Project Meetings).

1.06 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirements.

B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

Packing, Shipping, Handling and Delivery:

Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

GUIDE SPECIFICATIONS

Ship, handle and unload units according to manufacturer's instructions.

Storage and Protection:

Store materials protected from exposure to harmful weather conditions.

Factory shipping covers to remain in place until installation.

Specifier Note: Coordinate article below with Conditions of the Contract and Division 1 Closeout Submittals (Warranty).

1.07 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

Specifier Note: Coordinate paragraph below with manufacturer's warranty requirements.

Warranty: Commencing on Date of Installation.

Stainless Steel Heat Exchanger: 15 years (limited).

Aluminized Steel Heat Exchanger: 10 years (limited).

Other Covered Components: 1 year (limited).

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards, and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 HORIZONTAL GAS FIRED DUCT FURNACE

Manufacturer: Lennox Industries.

1. Contact: 2100 Lake Park Blvd.; Richardson, TX 75080; Telephone: (800) 453-6669; website: www.lennox.com.

Proprietary Products/Systems: LD24, including following equipment:

Cabinet:

Heavy gauge painted steel.

Insulated.

Wiring junction box with electrical and safety controls outside cabinet.

3/8" × 16 spot nuts on top of cabinet for unit suspension.

Heating System:

Input: [75,000 Btuh] [100,000 Btuh] [125,000 Btuh] [150,000 Btuh] [200,000 Btuh] [250,000 Btuh] [300,000 Btuh].

Output: [60,000 Btuh] [80,000 Btuh] [100,000 Btuh] [120,000 Btuh] [160,000 Btuh] [200,000 Btuh] [240,000 Btuh].

Gas Control Valve: 24 V redundant valve with manual shutoff, automatic electric valve (dual) and gas pressure regulation.

Solid-state electronic direct spark ignition control.

Electronic flame sensor control.

Pressure switch.

Heat Exchanger: Tubular [Aluminized] [Stainless] steel.

Limit Controls: Factory installed; fixed temperature setting.

Combustion Air Inducer:

Prepurges heat exchanger and vents combustion products.

Thermally protected blower motor with ball bearings and pressure switch.

Specifier Note: The following sentence is only applicable to models LD24-75, LD24-100, LD24-125 and LD24-150.

Rotatable by 90 degrees to left or right of vertical.

Inshot Burners: Aluminized steel burner assembly removable as single component, individually removable.

Controls:

24 V main gas valve with 100% safety shutoff.

Direct spark ignition.

Main shutoff valve.

GUIDE SPECIFICATIONS

Gas pressure regulation (natural gas models).

115/24 V transformer.

Terminal strip for thermostat connections.

Solid-state control board with LED diagnostics.

Fan timer control - fan on (45 seconds - fixed), fan off (150 seconds fixed).

Optional Accessories:

Thermostat.

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

Specifier Note: Article below is an addition to the CSI SectionFormat and a supplement to MANU-SPEC. Revise article below to suit project requirements and specifier's practice.

A. Compliance: Comply with manufacturer's written data, including product technical bulletins, product catalog installation instructions, product carton installation instructions and [Lennox Industries] SPEC-DATA® sheets.

3.02 EXAMINATION

A. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.03 INSTALLATION

- A. Install duct furnace in accordance with manufacturer's instructions and regulations of authorities having jurisdiction.
- B. Install duct furnace as shipped.
- C. Connect return air and supply air ducts to unit.
- D. Install unit on positive pressure side of air-circulating blower.
- E. Seal seams and joints on single wall vents with pressure sensitive aluminum tape or silicone sealant.
- F. Install thermostat according to manufacturer's instructions.
- G. Install separate fused disconnect switch according to appliance rating plate.
- H. Connect wiring through knockout on junction box on side of duct heater and connect in accordance with heater wiring diagram.
- I. Use 18 gauge wire or larger for thermostat connections.
- J. Electrically ground unit in accordance with [Local codes] [National Electrical Code].
- K. Connect field wiring as shown on wiring diagram on unit.
- L. Install drip leg in vertical pipe run to unit.
- M. Install 1/8 inch NPT plugged tap immediately upstream of gas supply connection to heater.
- N. Check piping connections (field and factory) for gas leaks.

3.04 FIELD QUALITY CONTROL

Specifier Note: Use the following Articles only when manufacturer's field services are desired to verify the quality of the installed components. Establish the number and duration of periodic site visits required by Manufacturer and specify below. Consult Manufacturer for services required. Delete if field services are not required.

Have manufacturer of products supplied under this Section review Work involved in handling, installation/application, protection and cleaning of its product[s] and submit written reports in acceptable format to verify compliance of Work with Contract.

Manufacturer's Field Services: Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

Schedule site visits to review Work at stages listed:

After delivery and storage of products, and when preparatory Work on which Work of this Section depends is complete, but before installation begins.

[Twice] during progress of Work at [25%] and [60%] complete.

Upon completion of Work, after cleaning is carried out.

D. Obtain reports within [3] days of review and submit.

GUIDE SPECIFICATIONS

3.05 TESTING AND VERIFICATION

Specifier Note: Commissioning must ensure performance verification of every part of the unit.

General:

Specifier Note: Select section below for Honeywell VR8205/VR8305 Series Gas Valve.

Operation for Honeywell VR8205/VR8305 Series Gas Valve:

Perform furnace verification in accordance with Section 01750 - Starting and Adjusting supplemented as follows:

Set thermostat to lowest setting.

Turn off electrical power to unit.

Turn knob on gas valve clockwise to OFF.

Wait 5 minutes to clear out gas. If gas smell still apparent, leave premises and call gas supplier.

Turn manual knob on gas valve counterclockwise to ON.

Specifier Note: If furnace does not start, or lockout occurs, follow instructions: "Turning Off Gas to Unit" from installation guide and call service technician or gas supplier.

Turn on electrical power to unit.

Set thermostat to desired setting.

Specifier Note: Select section below for White Rodgers 36E Series Gas Valve.

Operation for White Rodgers 36E Series Gas Valve:

Perform furnace verification in accordance with Section 01750 - Starting and Adjusting supplemented as follows:

Set thermostat to lowest setting.

Turn off electrical power to unit.

Turn knob on gas valve 180 degrees either way to OFF.

Wait 5 minutes to clear out gas. If gas smell still apparent, leave premises and call gas supplier.

Turn knob on gas valve 180 degrees either way to ON.

Specifier Note: If furnace does not start, or lockout occurs, follow instructions: "Turning Off Gas to Unit" from installation guide and call service technician or gas supplier.

Turn on electrical power to unit.

Set thermostat to desired setting.

Specifier Note: Select section below for White Rodgers 36C Series Gas Valve.

Operation for White Rodgers 36C Series Gas Valve:

Perform furnace verification in accordance with Section 01750 - Starting and Adjusting supplemented as follows:

Set thermostat to lowest setting.

Turn off electrical power to unit.

Turn knob on gas valve clockwise until it stops; depress knob and turn clockwise to OFF.

Wait 5 minutes to clear out gas. If gas smell still apparent, leave premises and call gas supplier.

Turn knob on gas valve counterclockwise until it stops. Allow knob to pop up and continue counterclockwise to on

Specifier Note: If furnace does not start, or lockout occurs, follow instructions: "Turning Off Gas to Unit" from installation guide and call service technician or gas supplier.

Turn on electrical power to unit.

Set thermostat to desired setting.

Submit commissioning report, report forms and schematics.

3.06 COMPLETION AND CLEANUP

- A. On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION

REVISIONS

Sections	Description of Change
Features and Benefits	Updated Venting Kits usage.



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NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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