BENCHMARK

Transmittal

To: Bild Architecture
PO Box 8235
Portland, ME 04104
Ph: (207)408-0168

Transmittal #: 47

Date: 5/19/2017

Job: 10-16-1843 Salvation Army

Subject: Submittal

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via

☐ Shop drawings   ☐ Prints   ☐ Plans   ☐ Samples

☐ Copy of letter   ☐ Change order   ☐ Specifications   ☑ Submittal

Copies	Date	No.	Description
1		230000-3 Rev 0	RTUs
0			Product Data- 16 pages

THESE ARE TRANSMITTED as checked below:

☑ For approval   ☐ Approved as submitted   ☐ Resubmit ___ copies for approval

☐ For your use   ☐ Approved as noted   ☐ Submit ___ copies for distribution

☐ As requested   ☐ Returned for corrections   ☐ Return ___ corrected prints

☐ For review and comment   ☐ Other   ☐ PLEASE SIGN AND RETURN TO OUR OFFICE

☐ **FOR BIDS DUE**

Remarks:

Copy To:

From: Michael Cleary (BENCHMARK)

BENCHMARK

34 Thomas Drive
Westbrook, ME 04092
Ph: (207)591-7600
Fax: (207)591-7604

Submittal Cover Sheet

Job: 10-16-1843

    Salvation Army
    88 Preble Street
    Portland, ME 04101

Spec Section No:	230000
Submittal No:	3
Revision No:	0
Sent Date:	5/19/2017

Submittal Title: RTUs

Contractor:
BENCHMARK
Michael Cleary

> **Contractor's Stamp**
>
> **x Reviewed-No Except**
>
> Reviewed for general conformance with the design concept and contract documents. Markings or comments shall not be construed as relieving the Subcontractor from compliance with the Project plans and specifications, nor departure therefrom. The Subcontractor remains responsible for details and accuracy, for conforming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly, and for performing the work in a safe manner.
>
> **BENCHMARK**

Architect (Primary):
Bild Architecture

> **Architect's Stamp**

Engineer

> **Engineer's Stamp**
>
> **APPROVED**
> **By Sonia Barrantes, PE at 1:38 pm, May 29, 2017**

RIVERSIDE MECHANICAL INC.

MECHANICAL CONTRACTORS
27 REBECCA WAY
FALMOUTH, ME. 04105
ROB@RIVERSIDEMECHANICALINC.COM

HVAC
PLUMBING
PROCESS PIPING
TEL. (207) 874-1992
FAX (207) 874-2283

DATE: May 16, 2017

PROJECT: Salvation Army Dining Hall Addition

SUBMITTAL DATA: Roof Top Units

Owner: Salvation Army ARC

Mechanical Engineer: Ripcord Engineering

General Contractor: Benchmark Construction

(PLEASE INITIAL AND DATE ANY NOTATIONS ON THE SUBMITTAL SHEET)

GENERAL CONTRACTOR	ARCHITECT
ENGINEER	**RIVERSIDE MECHANICAL INC.**
	__X__ Reviewed _____ Make Corrections noted _____ Amend & Resubmit _____ Rejected / Resubmit By RW Date__5/16/2017___

BRIGGS
EQUIPMENT SALES, INC.

16 NorthBrook Drive / PO Box 1375
Gray, ME 04039
207-657-7123 www.briggsac.com

RE-SUBMITTAL DATA

Project:	**Salvation Army ARC**
Mechanical Engineer:	**Ripcord Engineering**
Mechanical Contractor:	**Riverside Mechanical**
Date:	**May 16, 2017**
Product:	**Rooftop Units**
Specification Section:	**NONE FOUND**
Revision:	**1**

Tag	Qty	Model / Description	Manufacturer
RTU-1	1	LGH120 / 10 Ton RTU	Lennox
RTU-2	1	LGH060 / 5 Ton RTU	Lennox

Prepared by:
Ann Marie Juliano
ajuliano@briggsac.com
207-657-7123 ext. 202

Lennox Industries Inc. - Product Submittal

System ID: RTU-1			
Package Model: LGH120H4M		**Description:** PKGGE/10TON/CONFIGURABLE	

HEATING PERFORMANCE

Unit Type	Packaged Gas Electric	Gas Supply Connection	0.75 (in.)
H/E LowInput	156000 (Btuh)	Heating OutdoorDB	-1.6 (°F)
H/E LowOutput	124800 (Btuh)	H/E Heat Rise	44.4 (°F)
H/E HighInput	240000 (Btuh)	AFUE/ ThermalEff	80
H/E HighOutput	192000 (Btuh)	Number of Heating Stages	2
System HeatOutput	192000 (Btuh)	Gas Supply Pressure	7 (in.WC)

COOLING PERFORMANCE

Refrigerant	R-410A	Number Compressors	2
ARI EER	12.3	Number of Cooling Stages	2
ARI IEER	13.8	Condensate Drain Size	1.00 (in.)
ARI Total Power	9900 (W)	Cooling OutdoorDB	83.3 (°F)
ARI GrossTotalCool	122000 (Btuh)	Cooling CondenserDB	95.0 (°F)
ARI NetTotalCool	118000 (Btuh)	Cooling MixedDB	75.0 (°F)
Environ Refrigerant Charge	14 LBS. 12 OZ.	Cooling MixedWB	62.5 (°F)

SUPPLY FAN PERFORMANCE

Supply AirFlow	4000 (cfm)	TotalStaticPress	1.24 (in.WC)
Outdoor AirFlow	1806 (cfm)	Gas H/E Static Press	0.22 (in.WC)
ExtStaticPress Supply	0.75 (in.WC)	Added Filter Static Press	0.08 (in.WC)
SupplyFan NomPower	2.00 (hp)	Economizer Static Press	0.19 (in.WC)
Supply Fan Type	MSAV Belt Drive	Air Filter Qty	4
SupplyDrive Min RPM	590 (rpm)	Air Filter Length	20.0 (in.)
SupplyDrive Max RPM	890 (rpm)	Air Filter Width	25.0 (in.)
Number Exhaust Fans	1	Air Filter Thickness	2.0 (in.)
		Air Filter Efficiency	MERV 13

ELECTRICAL

Voltage	208V 3Ph	SupplyFan FLA	7.5 (amp)
Frequency	60 (Hz)	CondensingUnit FLA	4.8 (amp)
System MCA	46.0 (amp)	CondenserFan Power	725 (W)
System MOCP	50 (amp)		
Compressors RLA	27.0 (amp)		
Cooling FLA Total	39.3 (amp)		
Unit Oper Range-Nom Voltage	+/- 10%		

DIMENSIONS

Cabinet Width	60.1 (in.)	Downflow Supply Length	20.0 (in.)
Cabinet Length	101.3 (in.)	Downflow Supply Width	28.0 (in.)
Cabinet Height	46.9 (in.)	Downflow Return Length	24.0 (in.)
Total Weight	1411 (lb)	Downflow Return Width	27.0 (in.)

SOUND

Outdoor Sound Rating	88 (db)

Lennox Industries Inc. - Product Submittal

System ID: RTU-1

Package Model: LGH120H4M | **Description:** PKGGE/10TON/CONFIGURABLE

SYSTEM FEATURES

Durable Outdoor Enamel Paint Finish	Timed Off Control
Scroll Compressor	AGA-CGA Certified
Pre-charged Refrigeration System	Units will operate cooling down to 0 degrees F (-17.7 degrees C) without additional controls.
High Capacity Driers	Redundant Comb. Gas Control Valve
Auto reset high & low pressure switch with strike 3 lockout feature in Prodigy unit controller	Electronic Flame Sensor
Totally Enclosed Fan Motor	Direct Spark Ignition
PVC Coated Fan Guard	Separate Compressor and Controls Compartment
Fan and Limit Controls	Advanced controls with Prodigy Control System
Factory Test Operated	Limited compressor warranty of 5 years
Bonded for Grounding	Limited warranty on Prodigy Unit Controller of 3 years
Internal Pressure Relief Valve	Limited warranty on Environ Coil System of 3 years
Overload Protection	Limited warranty on all other components of 1 year
Crankcase Heater Test	See Limited Warranty Certificate included with unit for details

INCLUDED SYSTEM OPTIONS - FACTORY INSTALLED

SA SMOKE DETECTOR
BOTTOM GAS PIPING KIT - FACTORY PROVIDED / FIELD INSTALLED
STANDARD CAP
2 IN MERV13 FILTER
STD STATIC POWER EXHAUST FAN
CORROSION PROTECTION
DISCONNECT - WEATHERPROOF
CO2 SENSOR MOUNTING BRACKET
GFCI - FACTORY INSTALLED/NON-POWERED
DUAL ENTHALPY ECONOMIZER
MULTI-STAGE AIR VOLUME
HINGED ACCESS DOORS
ENVIRON COIL SYSTEM
PHASE MONITOR
RA SMOKE DETECTOR

INCLUDED SYSTEM OPTIONS - FIELD INSTALLED

11F57	1	C1CURB73B-1 DNFLOW HYBRID CURB 24"
11Y05	1	CS3000 COMMERCIAL PROGRAMMABLE TSTAT
87N54	1	EG T8100-B-LN CO2 DETECTOR/BLACK/DUCT
85L43	1	C0MISC19AE1- CO2 DWNFLW DUCT MTNG KIT
92W61	1	E1GARD11B-1 HAIL GUARD-ENVIRON COIL

DIMENSIONS - INCHES (MM)

Model No.	CORNER WEIGHTS																CENTER OF GRAVITY							
	AA				BB				CC				DD				EE				FF			
	Base		Max.		Base		Max.		Base		Max.		Base		Max.		Base		Max.		Base		Max.	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm	in.	mm	in.	mm
092	293	133	338	153	263	119	295	134	286	130	316	143	326	148	370	168	46.5	1181	45.5	1156	24.5	622	25.5	648
102	294	134	340	154	265	120	297	135	288	131	318	144	328	149	372	169	46.5	1181	45.5	1156	24.5	622	25.5	648
120	306	139	349	158	275	125	305	138	295	134	326	148	334	152	382	173	46.5	1181	45.5	1156	24.5	622	25.5	648
150	316	143	359	163	284	129	314	142	304	138	393	178	345	157	393	178	46.5	1181	45.5	1156	24.5	622	25.5	648

Base Unit - The unit with NO INTERNAL OPTIONS.

Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.

TOP VIEW

END VIEW

SIDE VIEW

SIDE VIEW
(Horizontal Openings)
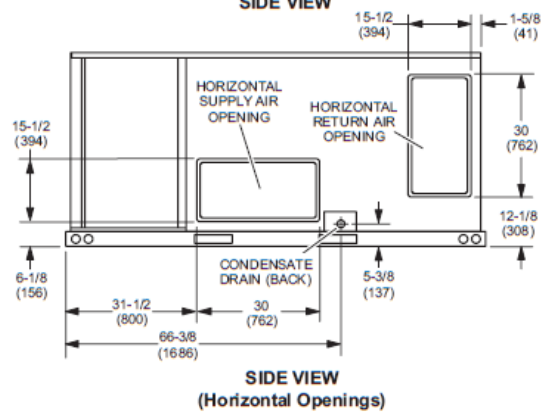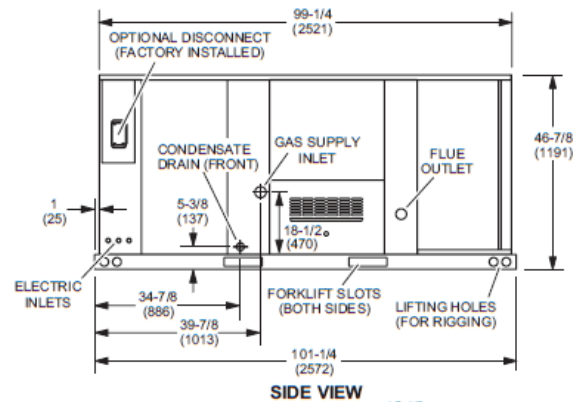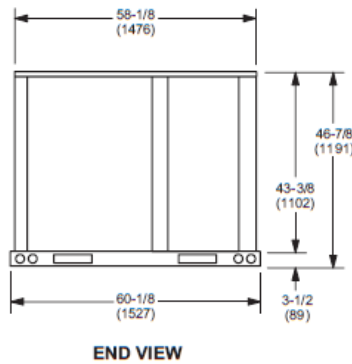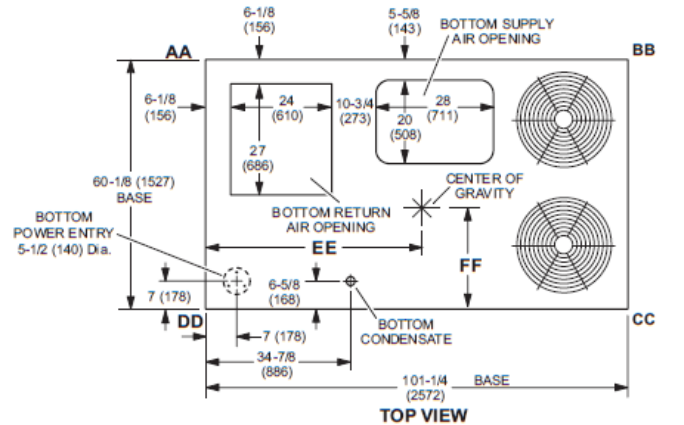
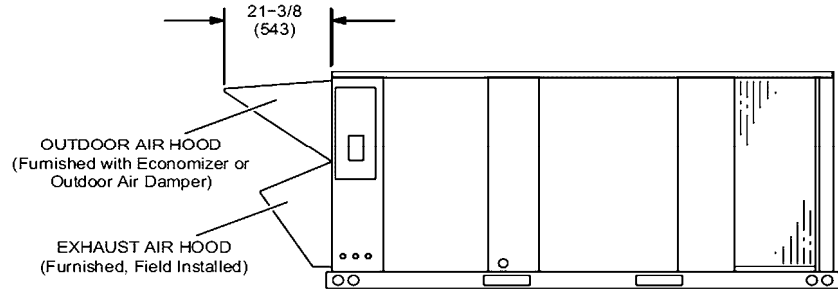# Lennox Industries Inc. - Product Submittal

System ID: RTU-1

Package Model: LGH120H4M   **Description:** PKGGE/10TON/CONFIGURABLE

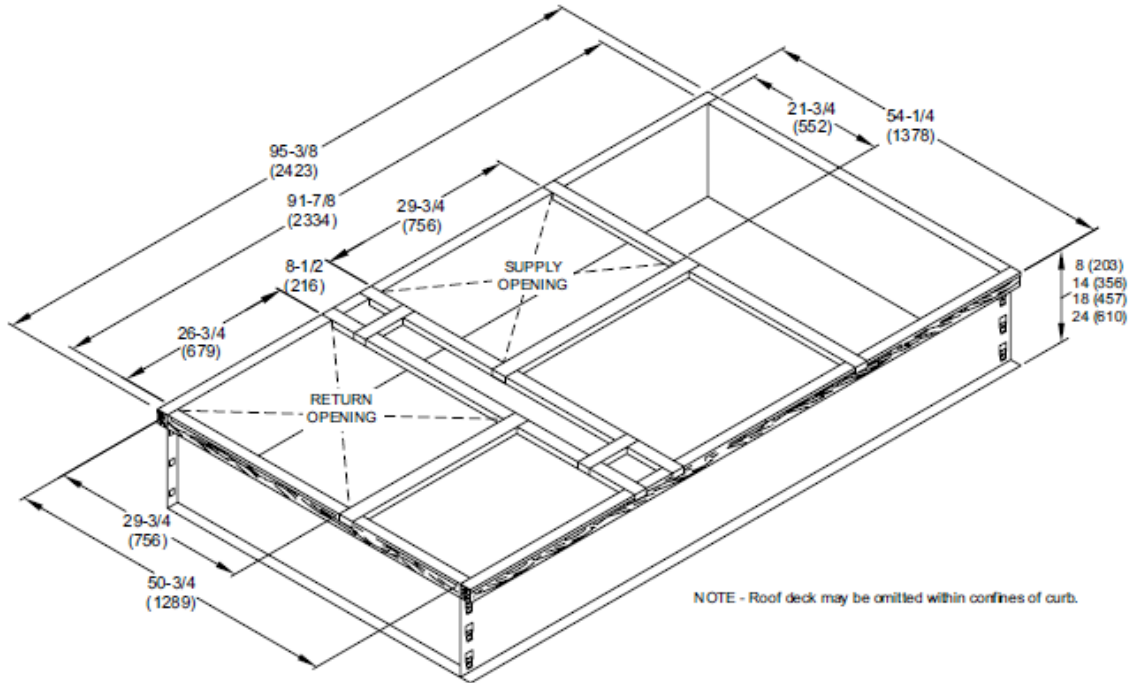**ACCESSORY DIMENSIONS - INCHES (MM)**

OUTDOOR AIR HOOD DETAIL
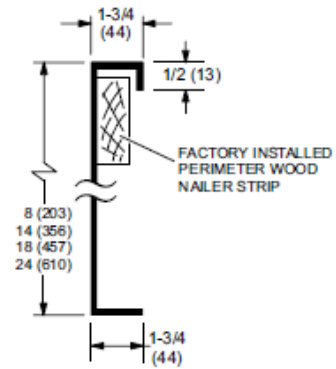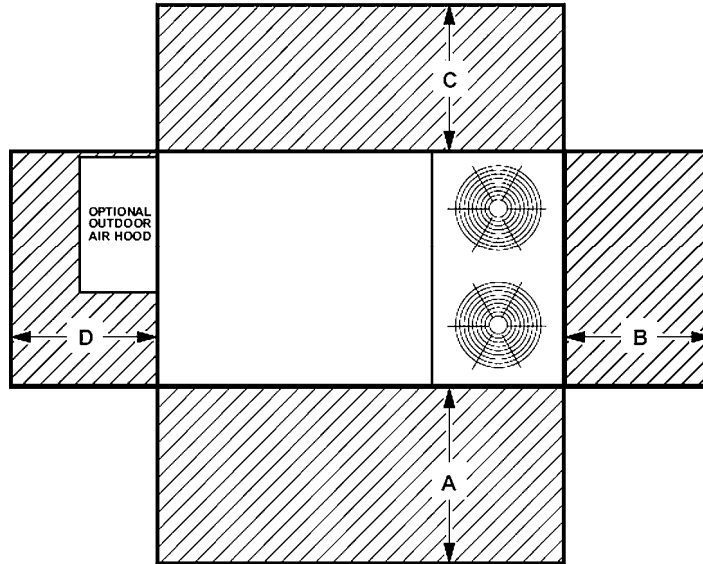
21-3/8
(543)

OUTDOOR AIR HOOD
(Furnished with Economizer or
Outdoor Air Damper)

EXHAUST AIR HOOD
(Furnished, Field Installed)

HYBRID ROOF CURBS - DOUBLE DUCT OPENING

95-3/8 (2423)
91-7/8 (2334)
29-3/4 (756)
8-1/2 (216)
26-3/4 (679)
21-3/4 (552)
54-1/4 (1378)
8 (203)
14 (356)
18 (457)
24 (610)

SUPPLY OPENING

RETURN OPENING

29-3/4 (756)
50-3/4 (1289)

NOTE - Roof deck may be omitted within confines of curb.

TYPICAL FLASHING DETAIL FOR ROOF CURB

BASE BOTTOM
PACKAGED UNIT
FIBERGLASS INSULATION (Furnished)
NAILER STRIP (Furnished)
COUNTER FLASHING (Field Supplied)
ROOF CURB (Extends around entire perimeter of unit)
CANT STRIP (Field Supplied)
RIGID INSULATION (Field Supplied)
ROOFING MATERIAL

DETAIL ROOF CURB

1-3/4 (44)
1/2 (13)
FACTORY INSTALLED PERIMETER WOOD NAILER STRIP
8 (203)
14 (356)
18 (457)
24 (610)
1-3/4 (44)
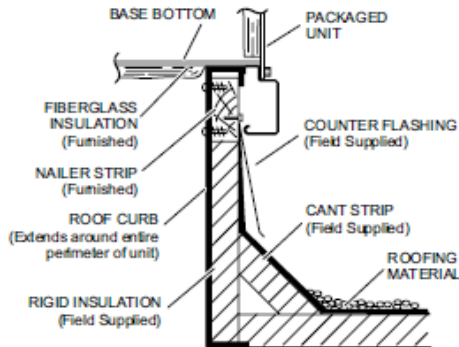
UNIT CLEARANCES - INCHES (MM)

¹ Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
Service Clearance	60	1524	36	914	36	934	60	1524	
Clearance to Combustibles	36	914	1	25	1	25	1	25	Unobstructed
Minimum Operation Clearance	36	914	36	914	36	914	36	914	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.
¹ Service Clearance - Required for removal of serviceable parts.
  Clearance to Combustibles - Required clearance to combustible material.
  Minimum Operation Clearance - Required clearance for proper unit operation.

Lennox Industries Inc. - Product Submittal

System ID: RTU-2
Package Model: LGH060S4T   **Description:** PKGGE/5TON/CONFIGURABLE

HEATING PERFORMANCE

Unit Type	Packaged Gas Electric	Gas Supply Connection	0.50 (in.)
H/E HighInput	150000 (Btuh)	Heating OutdoorDB	-1.6 (°F)
H/E HighOutput	120000 (Btuh)	H/E Heat Rise	55.6 (°F)
System HeatOutput	120000 (Btuh)	AFUE/ ThermalEff	80
		Number of Heating Stages	1
		Gas Supply Pressure	7 (in.WC)

COOLING PERFORMANCE

Refrigerant	R-410A	Number Compressors	1
ARI EER	12.5	Number of Cooling Stages	2
ARI SEER	15.5	Condensate Drain Size	1.00 (in.)
ARI Total Power	4800 (W)	Cooling OutdoorDB	83.3 (°F)
ARI GrossTotalCool	61600 (Btuh)	Cooling CondenserDB	95.0 (°F)
ARI NetTotalCool	60000 (Btuh)	Cooling MixedDB	75.0 (°F)
Coil GrossTotalCool	59250 (Btuh)	Cooling MixedWB	62.5 (°F)
Unit NetTotalCool	56273 (Btuh)	Coil DischargeDB	52.7 (°F)
Coil GrossSensCool	47474 (Btuh)	Coil DischargeWB	51.9 (°F)
Unit NetSensCool	44497 (Btuh)	Unit DischargeDB	54.0 (°F)
Environ Refrigerant Charge	7 LBS. 9 OZ.	Unit DischargeWB	52.4 (°F)
		Coil MoistureRemoval	11.1 (lb/hr)
		System MoistRemoval	11.1 (lb/hr)

SUPPLY FAN PERFORMANCE

Supply AirFlow	2000 (cfm)	TotalStaticPress	1.03 (in.WC)
Outdoor AirFlow	161+ (cfm)	Wet Coil Static Press	0.10 (in.WC)
ExtStaticPress Supply	0.75 (in.WC)	Gas H/E Static Press	0.06 (in.WC)
SupplyFan Req'dPower	0.89 (hp)	Added Filter Static Press	0.07 (in.WC)
SupplyFan NomPower	1.00 (hp)	Economizer Static Press	0.05 (in.WC)
Supply Fan Type	MSAV Belt Drive	Air Filter Qty	4
SupplyDriveReq'd RPM	1221 (rpm)	Air Filter Length	20.0 (in.)
SupplyDrive Min RPM	833 (rpm)	Air Filter Width	20.0 (in.)
SupplyDrive Max RPM	1250 (rpm)	Air Filter Thickness	2.0 (in.)
Number Exhaust Fans	1	Air Filter Efficiency	MERV 13

ELECTRICAL

Voltage	208V 3Ph	SupplyFan FLA	4.6 (amp)
Frequency	60 (Hz)	CondensingUnit FLA	2.4 (amp)
System MCA	31.0 (amp)	CondenserFan Power	410 (W)
System MOCP	45 (amp)		
Compressors RLA	17.6 (amp)		
Cooling FLA Total	24.6 (amp)		
Unit Oper Range-Nom Voltage	+/- 10%		

DIMENSIONS

Cabinet Width	47.0 (in.)	Downflow Supply Length	20.0 (in.)
Cabinet Length	85.3 (in.)	Downflow Supply Width	18.0 (in.)
Cabinet Height	46.9 (in.)	Downflow Return Length	29.0 (in.)
Total Weight	928 (lb)	Downflow Return Width	11.0 (in.)

SOUND

Outdoor Sound Rating	82 (db)

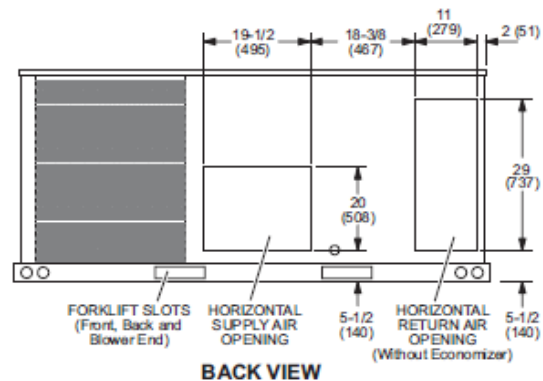# Lennox Industries Inc. - Product Submittal

System ID: RTU-2
Package Model: LGH060S4T   **Description:** PKGGE/5TON/CONFIGURABLE

SYSTEM FEATURES

Durable Outdoor Enamel Paint Finish	Timed Off Control
Scroll Compressor	AGA-CGA Certified
Pre-charged Refrigeration System	Units will operate cooling down to 0 degrees F (-17.7 degrees C) without additional controls.
High Capacity Driers	Redundant Comb. Gas Control Valve
Auto reset high & low pressure switch with strike 3 lockout feature in Prodigy unit controller	Electronic Flame Sensor
Totally Enclosed Fan Motor	Direct Spark Ignition
PVC Coated Fan Guard	Separate Compressor and Controls Compartment
Fan and Limit Controls	Advanced controls with Prodigy Control System
Factory Test Operated	Limited compressor warranty of 5 years
Bonded for Grounding	Limited warranty on Prodigy Unit Controller of 3 years
Internal Pressure Relief Valve	Limited warranty on all other components of 1 year
Overload Protection	See Limited Warranty Certificate included with unit for details
Crankcase Heater Test	

INCLUDED SYSTEM OPTIONS - FACTORY INSTALLED

SA SMOKE DETECTOR
BOTTOM GAS PIPING KIT - FACTORY PROVIDED / FIELD INSTALLED
STANDARD CAP
2 IN MERV13 FILTER
STD STATIC POWER EXHAUST FAN
CORROSION PROTECTION
DISCONNECT - WEATHERPROOF
CO2 SENSOR MOUNTING BRACKET
GFCI - FACTORY INSTALLED/NON-POWERED
DUAL ENTHALPY ECONOMIZER
MULTI-STAGE AIR VOLUME
HINGED ACCESS DOORS
ENVIRON COIL SYSTEM
RA SMOKE DETECTOR

INCLUDED SYSTEM OPTIONS - FIELD INSTALLED

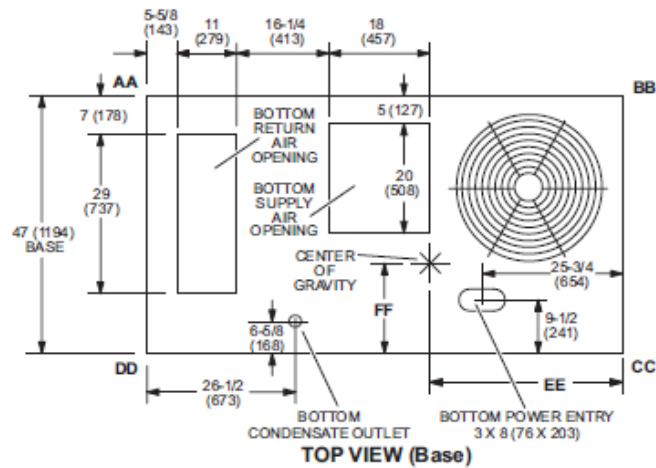|		
11F53	1	C1CURB73A-1 DNFLOW HYBRID CURB 24"
72W89	1	605993-01 GED PKG ASSY (SHORT CAB)
11Y05	1	CS3000 COMMERCIAL PROGRAMMABLE TSTAT
13T03	1	C1GARD51AT1 MESH HAIL/COIL GUARD
87N54	1	EG T8100-B-LN CO2 DETECTOR/BLACK/DUCT
85L43	1	C0MISC19AE1- CO2 DWNFLW DUCT MTNG KIT

DIMENSIONS - INCHES (MM)

CORNER WEIGHTS									CENTER OF GRAVITY			
Model No.	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
LGH036 Base Unit	98	45	119	54	192	87	158	72	38.5	978	18	457
LGH036 Max. Unit	137	62	155	70	250	113	221	100	40	1016	18	457
LGH048 Base Unit	104	47	126	57	202	92	167	76	38.5	978	18	457
LGH048 Max. Unit	145	66	164	74	264	120	233	106	40	1016	18	457
LGH060 Base Unit	118	54	144	65	232	105	191	87	38.5	978	18	457
LGH060 Max. Unit	164	75	186	84	299	136	264	120	40	1016	18	457
LGH072 Base Unit	132	60	160	73	258	117	212	96	38.5	978	18	457
LGH072 Max. Unit	173	78	195	89	314	143	278	126	40	1016	18	457
LGH074 Base Unit	132	60	160	73	258	117	212	96	38.5	978	18	457
LGH074 Max. Unit	173	78	195	89	314	143	278	126	40	1016	18	457

Base Unit - The unit with NO INTERNAL OPTIONS.

Max. Unit - The unit with ALL INTERNAL OPTIONS installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.

TOP VIEW (Base)

END VIEW

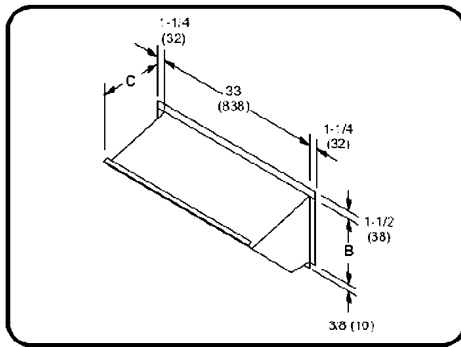

SIDE VIEW

Energence® Packaged Gas / Electric 3 to 6 Ton / Page 52

BACK VIEW
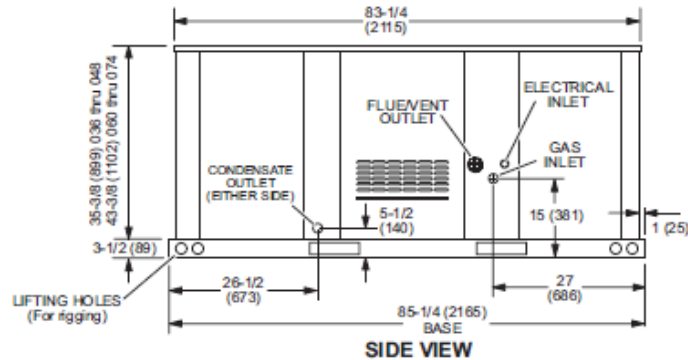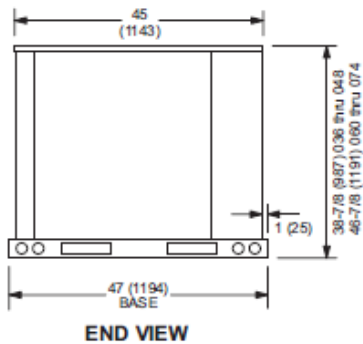
ACCESSORY DIMENSIONS - INCHES (MM)

OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS
(Down-Flow Applications)

11-3/4 (298) 036 thru 048
15-3/4 (400) 060 thru 072

OPTIONAL OUTDOOR AIR HOOD
(Furnished with Economizer)

12 (305)

OPTIONAL BAROMETRIC RELIEF HOOD
(Furnished with Economizer)

SIDE VIEW
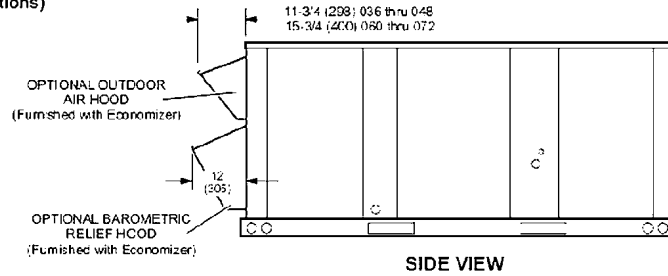
OUTDOOR AIR HOOD FOR ECONOMIZER
(Furnished)

1-1/4 (32)
C
33 (838)
1-1/4 (32)
1-1/2 (38)
B
3/8 (10)

BAROMETRIC RELIEF HOOD FOR ECONOMIZER
(Furnished)

2-1/2 (64)
12 (305)
30-1/2 (775)
2-1/2 (64)
3/4 (19)
A
1 (25)
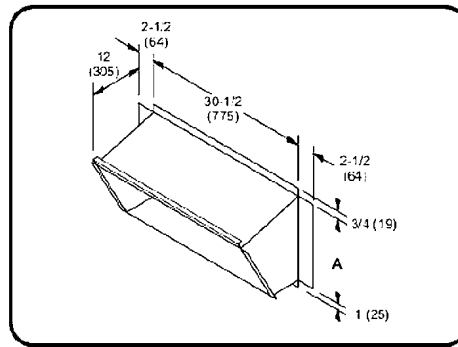
| Model | A | | B | | C | |
No.	in.	mm	in.	mm	in.	mm
036, 048	19-1/4	489	13	330	11-3/4	298
060, 072	23-1/4	591	17	432	15-3/4	400

HYBRID ROOF CURBS - DOUBLE DUCT OPENING

79-3/4 (2026)
76-1/4 (1937)
38 (965)
41-1/2 (1054)
19-1/8 (486)
21-1/8 (537)
15-1/8 (384)
12-5/8 (321)
1-3/4 (44)
32 (813)
8 (203)
14 (356)
18 (457)
24 (610)
SUPPLY OPENING
RETURN OPENING

NOTE - Roof deck may be omitted within confines of curb.

TYPICAL FLASHING DETAIL FOR ROOF CURB

BASE BOTTOM
PACKAGED UNIT
FIBERGLASS INSULATION (Furnished)
NAILER STRIP (Furnished)
ROOF CURB (Extends around entire perimeter of unit)
RIGID INSULATION (Field Supplied)
COUNTER FLASHING (Field Supplied)
CANT STRIP (Field Supplied)
ROOFING MATERIAL

DETAIL ROOF CURB

1-3/4 (44)
1/2 (13)
8 (203)
14 (356)
18 (457)
24 (610)
FACTORY INSTALLED PERIMETER WOOD NAILER STRIP
1-3/4 (44)
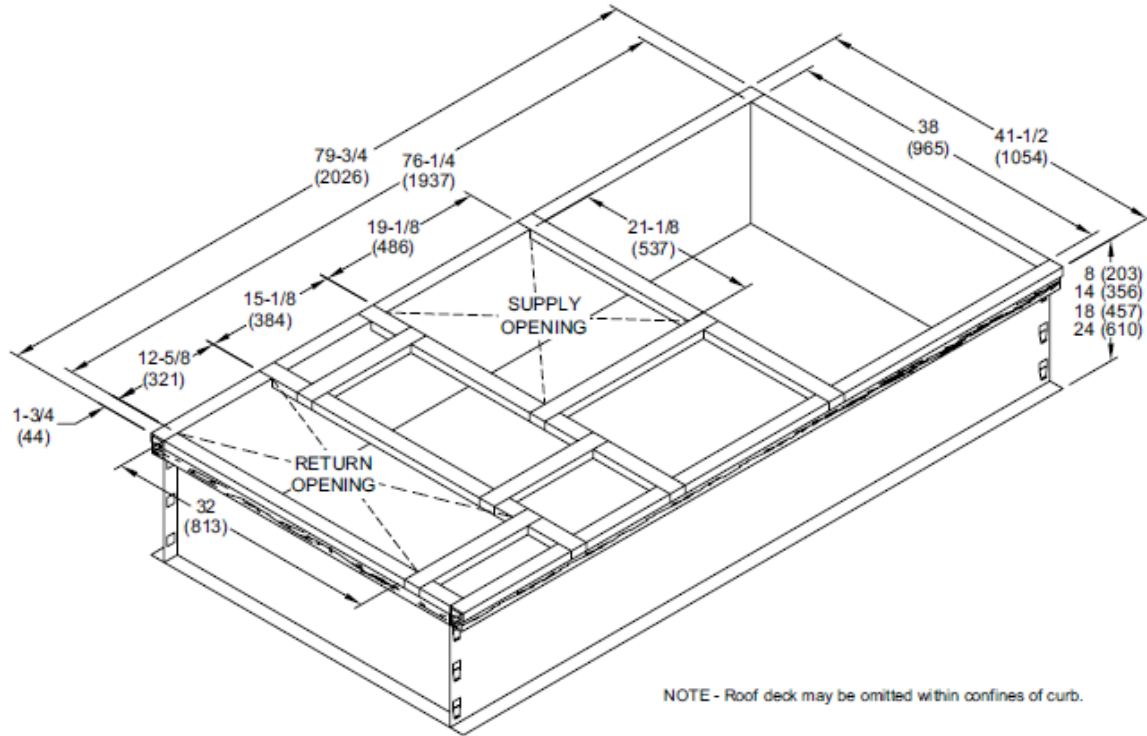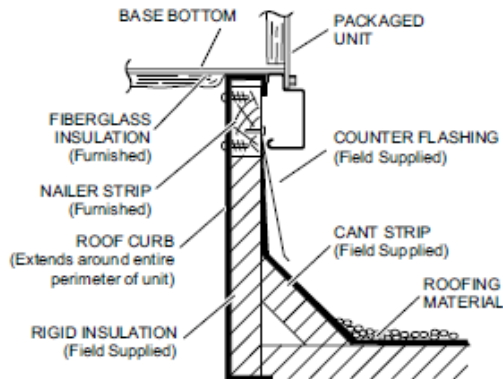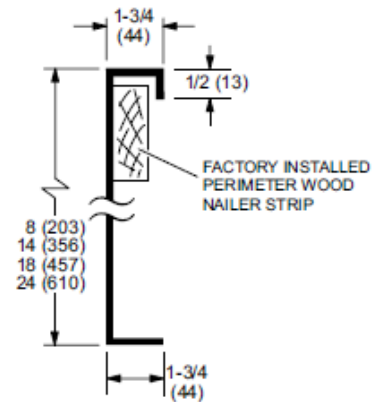
UNIT CLEARANCES - INCHES (MM)
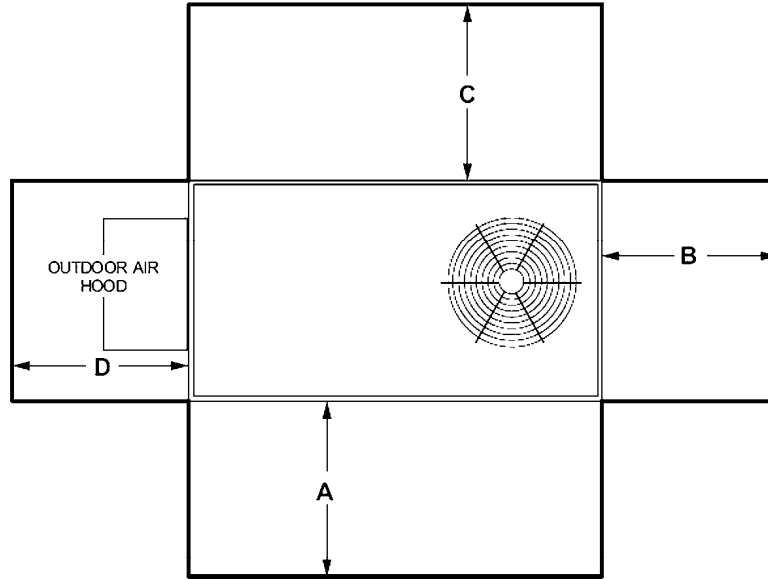
¹ Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
Service Clearance	48	1219	36	914	36	934	36	914	
Clearance to Combustibles	36	914	1	25	1	25	1	25	Unobstructed
Minimum Operation Clearance	36	914	36	914	36	914	36	914	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.
¹ **Service Clearance** - Required for removal of serviceable parts.
  Clearance to Combustibles - Required clearance to combustible material.
  Minimum Operation Clearance - Required clearance for proper unit operation.

PRODUCT SPECIFICATIONS

The ComfortSense® 3000 is an electronic 5-2 day, multi-stage, programmable commercial thermostat.

Thermostat also features enhanced capabilities for commercial packaged rooftop units and split systems including remote temperature sensing, economizer control and equipment maintenance reminders.

- Large, back-lit, easy-to-read LCD screen with digital display
- Large buttons are easy to push
- Sleek, modern appearance works well with any decor
- System status icons show when the HVAC system is running
- Maintenance reminder lets user know when routine service is required
- Filter monitor displays when it is time to service the HVAC system filter
- Service monitor indicates when the cooling system is not operating properly
- Gradually changes room temperature to next program period for increased comfort
- Hard-wired to the indoor unit power supply. No batteries to change
- Thermostat can be used in conventional heating/cooling (non-heat pump) applications
- Smooth Setback Recovery starts system early to achieve setpoint at start of program period
- Economizer relay control
- Five-minute compressor short-cycle protection
- Minimum cycle time of 6 minutes

FULLY PROGRAMMABLE
- 5-2 day programming, four time periods per day.
- Day/Time button allows quick clock setting changes
- Heat/Cool buttons simplify setting precise heating and cooling temperatures
- Fan button selects continuous or automatic blower operation
- Programming button sets, reviews, or changes schedule
- Hold feature will temporarily hold setpoints for two hours or permanently without changing the program
- Maintains program in memory for 24-hours in the event of a power outage
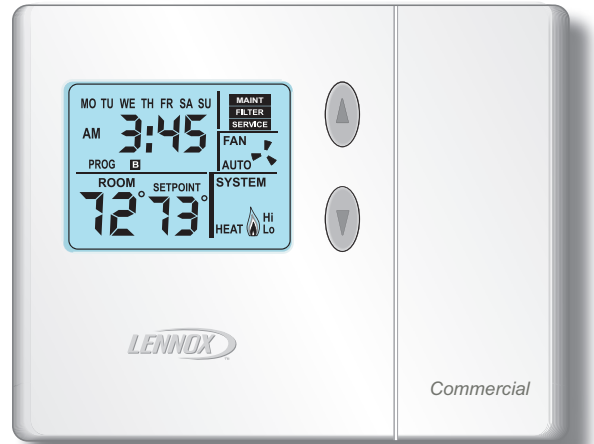
Commercial

2 Heat / 2 Cool
Commercial Heat/Cool Systems (conventional)
Commercial Packaged Heat Pumps (2-20 Tons)
Commercial Split Heat Pump Systems (7-10 Tons)

WARRANTY
One-year limited warranty.

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

DISPLAY
- 30 second display when any button is pressed
- Day and time display will show current day and time
- Program/Hold indicators show the current program (A, B, C, D) and the program override (HOLD) status
- Compressor stage indicators show if the first or second stage of the compressor is activated (if applicable)
- Filter reminder (FILTER) will be displayed when the filter reminder timer expires
- Service (SERVICE) and maintenance (MAINT) reminders
- ROOM - shows the current room temperature
- SETPOINT - shows the set point temperature
- Occupied (OC) and unoccupied (UC) program status
- System selector indicators - shows the current selection of system control: *COOL, OFF and HEAT*
- If heating is activated, the system status will show a flame animation

DISPLAY (continued)

- If cooling is activated, the system status will show a snowflake animation
- Fan selection indicator shows the current selection of fan control which can be *ON* or *AUTO*
- If the fan is activated, the fan status indicator will show a rotating fan animation
- The service indicator will show a 1HZ blinking indicator when 24VAC is present at the L terminal and Y1 is on for five minutes
- LCD backlight turns on for 30 seconds when any button is pressed

SPECIFICATIONS

NOTE - For use with air conditioning equipment only.

- Temperature set range: 50°F to 90°F (10°C to 32°C) in one degree increments
- Room Temperature Display range: 35°F to 99°F (2°C to 37°C)
- Room Temperature Display: User selectable Fahrenheit or Celsius (press Settings button three time, press up/down arrow button to toggle between Fahrenheit or Celsius)
- Internal temperature sensor or optional remote room temperature sensor (DIP switch setting)
- Fan control: On/Auto
- Stage up timer: 15 minutes
- User selectable filter reminder: Off, 1, 3, 6. or 12 months
- User selectable maintenance reminder: Off, 6 or 12 months
- Service reminder
- DIP switch settings: temperature offset, internal/ external (room) temperature sensing, fan option (gas or electric heat), Smooth Setback Recovery (SSR)
- Temperature Offset (DIP switch setting): -3°F to 0°F (-19°C to -18°C)
- User selectable maintenance reminder: Off, 6 or 12 months
- Memory, clock, filter and maintenance counters maintained for 24 hours of power outage
- Reset button restores thermostat to original factory settings
- Power Supply: 18-30 VAC - 50/60Hz
- Dimensions (H x W x D): 3-1/2 x 4-9/16 x 1-5/16 in. (89 x 16 x 33 mm)

Terminals

- OC - Occupancy Output (economizer)
- R - 24VAC
- Y1 - 1st Stage Cooling
- W1 - 1st Stage Heating
- Y2 - 2nd Stage Cooling
- W2 - 2nd Stage Heating
- G - Fan
- L - Service Indicator
- C - Common 24VAC
- T - Remote Indoor (Room) Temperature Sensor 1
- T - Remote Indoor (Room) Temperature Sensor 2

ORDERING INFORMATION

C0STAT05FF1L (11Y05)
2 Heat/2 Cool

- Commercial heat/cool systems (conventional)
- Commercial packaged heat pumps (2-20 tons)
- Commercial split heat pump systems (7-10 tons)

NOTE - Not for use with small 3-5 ton split heat pump systems.

Optional Accessories

C0SNZN73AE1- Indoor Room Temperature Sensor (47W37)
Remote non-adjustable wall mount 10k averaging temperature sensor allows remote temperature sensing away from the thermostat.

DIP switch sets internal (thermostat) or external (remote temperature sensing.

Room sensor wiring can be sized from 16 to 22 AWG depending on the application.

The maximum length of wire from a device to a zone sensor is 1000 feet (305 m).

Twisted pair wire is recommended for wire runs longer than 100 feet (30 m).

C0MISC17AE1- Wall Plate (X2659)

REVISIONS

Sections	Description of Change
Usage	Added heat pump system usage and restrictions.

Visit us at www.lennox.com

For the latest technical information, www.lennoxdavenet.com

Contact us at 1-800-4-LENNOX