

Project: 1694 - Asylum
 121 Center Street
 Portland, Maine 04103



Submittal #323900-003237416.11-001.0
237416.11 - PACKAGED SMALL-CAPACITY ROOFTOP AIR-CONDITIONING UNITS

P/D: Small Capacity RTUs 1-6 (Para 1.4A, 2)

APPROVERS: Miranda Jones (WBRC Architects and Engineers) **CREATED BY:** Jason Goggin (Consigli Construction Co., Inc.)
 Jason Goggin (Consigli Construction Co., Inc.)

RESPONSIBLE CONTRACTOR: Damon Refrigeration Co, Inc. **STATUS:** Pending
 Mike Lowe (Damon Refrigeration Co, Inc.)

TYPE: Material Delivery **SPEC SECTION:** 237416.11 - PACKAGED SMALL-CAPACITY ROOFTOP AIR-CONDITIONING UNITS

COPIES TO:
 Jason Goggin (Consigli Construction Co., Inc.)

DESCRIPTION:
 Note substitution request for RTU 4 and 5 based on sizing and load requirements.

ATTACHMENTS:
 237416.11 Small RTUs with Substitution Sheet.pdf

ARCHITECT'S STAMP

| | |
|---|-----------------------|
| <input checked="" type="checkbox"/> 1 - Reviewed, No Exception Taken | |
| <input type="checkbox"/> 2 - Reviewed, Revise as Noted | |
| <input type="checkbox"/> 3 - Revise and Resubmit | |
| <input type="checkbox"/> 4 - Rejected | |
| <input type="checkbox"/> 5 - Other, Held for Record, Not Reviewed | |
| <p>This review is only for general conformance with the design concept and the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve the Contractor from compliance with the requirements of the Contract Documents and applicable laws, codes and regulations. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication; quantities, processes, means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all trades and performing all Work in a safe and satisfactory manner.</p> | |
| REVIEWER: Dan Monroe | DATE: 8.9.2016 |

CONTRACTOR'S STAMP

| Consigli Construction Co., Inc. | |
|--|--|
| <input type="checkbox"/> Approved for A/E Review | <input type="checkbox"/> Revise & Resubmit |
| <input checked="" type="checkbox"/> Approved as Noted for A/E Review | <input type="checkbox"/> Rejected |
| Spec. Section: 237416.11 | Submittal No.: 323900-003237416.11-001 |
| Date: | By: Jason Goggin |
| <p>If so marked, approval is given for design only. It does not relieve the subcontractor from complying with the requirements of the contract, contract drawings and specifications. The subcontractor shall be responsible for all dimensions, quantities, schedules and field conditions.</p> | |

SUBMITTAL WORKFLOW

| # | NAME | SUBMITTER/ APPROVER | SENT DATE | DUE DATE | RETURNED DATE | RESPONSE | ATTACHMENTS | COMMENTS |
|---|---------------|---------------------|-----------|-----------|---------------|----------|-------------|----------|
| 1 | Jason Goggin | Approver | | 8/8/2016 | | Pending | | |
| 2 | Miranda Jones | Approver | | 8/23/2016 | | Pending | | |

BY _____

DATE _____

COPIES TO _____



BRIGGS EQUIPMENT SALES, INC.

16 NorthBrook Drive, P.O. Box 1375 Gray, ME 04039
(207) 657-7123 / (207) 657-7124 fax

August 4, 2016

Damon Mechanical
1250 Turner St
Auburn, ME 04210

RE: Asylum
Substitutions

Dear Mike,

Please see my summary below.

See included substitution
request for more information

RTU-4, 5

These (2) units are scheduled as 3 Ton units with 108 MBH gas heat, 700 CFM. While the fans can operate at this low cfm (during economizer mode for example), with such a low face velocity across the DX coil there is danger of freezing the coil. Also, the furnace has a maximum 70F temp rise, with 108 MBH it would require much higher CFM to keep the unit from exceeding the 70F max temp rise, the unit would trip on high limit. The heat load for the spaces served by these units is less than the 3 tons and 108 MBH specified. I believe the 3 ton units were scheduled as model LGH036 units to keep all of the units in the same series, the Emergence series, which starts at 3 tons. The Landmark series has a 2 ton unit that can more closely meet the heat and cooling load requirements and provide 700 CFM as needed.

~~RTU-7~~

~~This unit is specified as a variable air volume unit with Humiditrol, hot gas reheat. Due to a glitch in the Lennox selection and pricing program, I was able to select this unit. While trying to generate submittals, I could not get the technical data to come out correctly. After speaking with the factory, I was told that no Lennox units can be built with both variable air volume and Humiditrol hot gas reheat, you can select VAV without Humiditrol or constant air volume with Humiditrol. I have spoken with several people at Lennox and they can not make any exceptions on this.~~

~~We worked with WBRC in selecting RTU-7 on this project. When the plans and specifications came out I contacted WBRC about changes made from the preliminary selections to the plans and specs but it was past the deadline for asking any questions and and legally they could not discuss it. In this email I did not address the problem with RTU-7 and VAV and Humiditrol because I did not know there was an issue until later in the process.~~

Sincerely,

Ann Marie Juliano

Large RTU
submitted under
separate cover



SUBSTITUTION REQUEST (After the Bidding Phase)

All other small RTUs basis of design.

Project: Asylum
To: Damon Mechanical, Mike Lowe
Re: RTU-4, 5

Substitution Request Number:
From: Briggs Equipment Sales, Inc.
Date: August 4, 2016
A/E Project Number: 4071.10
Contract For:

Specification Title: 237416.11
Section: Page:

Description: PACKAGED, SMALL-CAPACITY, ROOFTOP AIR-CONDITIONING UNITS
Article/Paragraph:

Proposed Substitution: Lennox Model KGB024 Rooftop Units
Manufacturer Address: Dallas, TX Phone:
Trade Name: Lennox Landmark Rooftop Units Model No.: KGB024
Installer: Damon Mechanical Address: Phone:

History: [] New product [] 2-5 years old [X] 5-10 years old [X] More than 10 years old

Differences between proposed substitution and specified product: Scheduled units are 3 ton, proposed substitution are 2 ton. The 2 ton units provide more than enough capacity for the spaces served. The 2 ton units will not have hot gas reheat. They are a different series unit, the are the Landmark series versus the Emergence series. The Landmark series do not have a microprocessor controller but will come with the Comfort Sense 7500 controller as is typical will all of the RTUs. The unit sizes, and weights are virtually identical.

X [] Point-by-point comparative data attached

Reason for not providing specified item: The specified units are scheduled at only 700 CFM, while the fans can run that low there is a danger of freezing the DX coil at such a low face velocity, also the heat exchanger can handle a 70F temp rise, with such a low CFM, the unit will likely trip out often on high limit due to exceeding the 70F max temp rise.

Similar Installation: (Many over many many years and across the state and country)
Project: Freeport High School Architect: PDT Architects
Address: Holbrook St. Owner: RSU 5.
Date Installed: 2016

Proposed substitution affects other parts of Work: X [X] No [] Yes; explain

Savings to Owner for accepting substitution: Three thousand, one hundred dollars (\$ 3,100.00).

Proposed substitution changes Contract Time: [X] No [] Yes [Add] [Deduct] days.

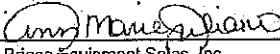
Supporting Data Attached: [X] Drawings [X] Product Data [] Samples [] Tests [] Reports []

**SUBSTITUTION
REQUEST
(Continued)**

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: Ann Marie Juliano

Signed by: 
Briggs Equipment Sales, Inc.

Firm: _____

Address: PO Box 1375
Gray, ME 04039

Telephone: 207-657-7123 ext. 202

Attachments: RTU submittal

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01330.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: Dan Monroe, P.E. Date: 8.9.2016

Additional Comments: Contractor Subcontractor Supplier Manufacturer A/E _____



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

SUBMITTAL DATA

Project: Asylum
Mechanical Engineer: WBRC
Mechanical Contractor: Damon Mechanical
Date: August 4, 2016
Product: Small Pacakged RTUs
Specification Section: 237416.11
Revision: 0

| Tag | Qty | Model / Description | Manufacturer |
|-----------|-----|---------------------|--------------|
| RTU-1, 2 | 2 | LGH060/ 5 ton RTU | Lennox |
| RTU-3, 6 | 2 | LGH060 / 5 Ton RTU | Lennox |
| RTU-4, 5, | 2 | KGB024 / 2 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, 2

Package Model: LGH060H4E

Description: PKGGGE/STON/CONFIGURABLE

HEATING PERFORMANCE

| | | | |
|-------------------|--------------------------|--------------------------|------------|
| Unit Type | Packaged Gas Electric | Gas Supply Connection | 0.50 (in.) |
| H/E LowInput | 113000 (Btuh) | H/E Heat Rise | 55.8 (°F) |
| H/E LowOutput | 90000 (Btuh) | AFUE/ ThermalEff | 80 |
| H/E HighInput | 150000 (Btuh) | Number of Heating Stages | 2 |
| H/E HighOutput | 120000 (Btuh) | Gas Supply Pressure | 7 (in.WC) |
| System HeatOutput | 120000 (Btuh) | | |

COOLING PERFORMANCE

| | | | |
|--|---------------|--------------------------|--------------|
| Refrigerant | R-410A | Number Compressors | 1 |
| ARI EER | 12.7 | Number of Cooling Stages | 2 |
| ARI SEER | 17.1 | Condensate Drain Size | 1.00 (in.) |
| ARI Total Power | 4700 (W) | Cooling OutdoorDB | 95.0 (°F) |
| ARI GrossTotalCool | 61600 (Btuh) | Cooling CondenserDB | 95.0 (°F) |
| ARI NetTotalCool | 60000 (Btuh) | Cooling MixedDB | 80.0 (°F) |
| Coil GrossTotalCool | 63225 (Btuh) | Cooling MixedWB | 67.0 (°F) |
| Unit NetTotalCool | 60842 (Btuh) | Coil DischargeDB | 57.4 (°F) |
| Coil GrossSensCool | 47324 (Btuh) | Coil DischargeWB | 56.5 (°F) |
| Unit NetSensCool | 44941 (Btuh) | Unit DischargeDB | 58.6 (°F) |
| Tube/Fin Humiditrol Refrigerant Charge | 17 LBS. 8 OZ. | Unit DischargeWB | 57.0 (°F) |
| | | Coil MoistureRemoval | 15.0 (lb/hr) |
| | | System MoistRemoval | 15.0 (lb/hr) |

HUMIDITROL PERFORMANCE

| | | | |
|-----------------------|-----------|------------------------|--------------|
| Humid-1st CoilDischDB | 77.5 (°F) | Humiditrol OutdoorDB | 95.0 (°F) |
| Humid-1st CoilDischWB | 63.6 (°F) | Humiditrol MixedDB | 80.0 (°F) |
| Humid-All CoilDischDB | 77.5 (°F) | Humiditrol MixedWB | 67.0 (°F) |
| Humid-All CoilDischWB | 63.6 (°F) | Humid-1st MoistRemoval | 16.0 (lb/hr) |
| | | Humid-All MoistRemoval | 16.0 (lb/hr) |

SUPPLY FAN PERFORMANCE

| | | | |
|-----------------------|-------------------|---------------------------|--------------|
| Supply AirFlow | 1990 (cfm) | TotalStaticPress | 0.81 (in.WC) |
| ExtStaticPress Supply | 0.50 (in.WC) | Wet Coil Static Press | 0.10 (in.WC) |
| SupplyFan Req'dPower | 1.00 (hp) | Gas H/E Static Press | 0.06 (in.WC) |
| SupplyFan NomPower | 1.00 (hp) | Added Filter Static Press | 0.07 (in.WC) |
| Supply Fan Type | MSAV Direct Drive | Humiditrol Static Press | 0.03 (in.WC) |
| SupplyDriveReq'd RPM | 1042 (rpm) | Economizer Static Press | 0.05 (in.WC) |
| Motor Torque Pct | 74 | Air Filter Qty | 4 |
| | | Air Filter Length | 20.0 (in.) |
| | | Air Filter Width | 20.0 (in.) |
| | | Air Filter Thickness | 2.0 (in.) |

ELECTRICAL

| | | | |
|-----------------------------|------------|--------------------|-----------|
| Voltage | 208V 3Ph | SupplyFan FLA | 7.4 (amp) |
| Frequency | 60 (Hz) | CondensingUnit FLA | 4.1 (amp) |
| System MCA | 33.0 (amp) | | |
| System MOCP | 45 (amp) | | |
| Compressors RLA | 17.6 (amp) | | |
| Cooling FLA Total | 29.1 (amp) | | |
| Unit Oper Range-Nom Voltage | +/- 10% | | |

Lennox Industries Inc. - Product Submittal

| | |
|---------------------------------|---|
| System ID: RTU-1, 2 | Description: PKGGE/STON/CONFIGURABLE |
| Package Model: LGH060H4E | |

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 | 865 (lb) | Downflow Return Width | 11.0 (in.) |

SOUND

| | |
|----------------------|---------|
| Outdoor Sound Rating | 82 (db) |
|----------------------|---------|

SYSTEM FEATURES

| | |
|--|---|
| Durable Outdoor Enamel Paint Finish | Crankcase Heater Test |
| Scroll Compressor | Timed Off Control |
| Pre-charged Refrigeration System | AGA-CGA Certified |
| Expansion Valves | 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 |

INCLUDED SYSTEM OPTIONS - FACTORY INSTALLED

| |
|--------------------------------------|
| STANDARD CAP |
| 2 IN MERV13 FILTER |
| BAROMETRIC RELIEF DAMPERS |
| CORROSION PROTECTION |
| DIRTY FILTER SWITCH |
| DISCONNECT - WEATHERPROOF |
| CO2 SENSOR MOUNTING BRACKET |
| 2 IN MERV13 REPL FILTER |
| GFCI - FACTORY INSTALLED/NON-POWERED |
| DRAIN PAN OVERFLOW SWITCH |
| HUMIDITROL |
| DUAL ENTHALPY ECONOMIZER |
| MULTI-STAGE AIR VOLUME |
| HINGED ACCESS DOORS |
| TUBE AND FIN COIL SYSTEM |
| STAINLESS STEEL HEAT |

INCLUDED SYSTEM OPTIONS - FIELD INSTALLED

| | | |
|-------|---|---------------------------------------|
| 13H15 | 2 | CS7500 COMM'L PROGRAMMABLE THERMOSTAT |
| 76M31 | 2 | C0SNSR30AE1- SENSOR, DUCT RH |
| 31W62 | 2 | C1EXTN20FF1 VENT EXTENSION KIT |
| 87N54 | 2 | EG T8100-B-LN CO2 DETECTOR/BLACK/DUCT |
| 85L43 | 2 | C0MISC19AE1- CO2 DWNFLW DUCT MTNG KIT |
| 52W39 | 8 | 101356-04 FILTER-AIR 20X20X2 MERV 13 |

Lennox Industries Inc. - Product Submittal

System ID: RTU-3, 6
 Package Model: LGH060H4E

Description: PKGGE/5TON/CONFIGURABLE

HEATING PERFORMANCE

| | | | |
|-------------------|-----------------------|--------------------------|------------|
| Unit Type | Packaged Gas Electric | Gas Supply Connection | 0.50 (in.) |
| H/E LowInput | 113000 (Btuh) | H/E Heat Rise | 59.4 (°F) |
| H/E LowOutput | 90000 (Btuh) | AFUE/ ThermalEff | 80 |
| H/E HighInput | 150000 (Btuh) | Number of Heating Stages | 2 |
| H/E HighOutput | 120000 (Btuh) | Gas Supply Pressure | 7 (in.WC) |
| System HeatOutput | 120000 (Btuh) | | |

COOLING PERFORMANCE

| | | | |
|--|---------------|--------------------------|--------------|
| Refrigerant | R-410A | Number Compressors | 1 |
| ARI EER | 12.7 | Number of Cooling Stages | 2 |
| ARI SEER | 17.1 | Condensate Drain Size | 1.00 (in.) |
| ARI Total Power | 4700 (W) | Cooling OutdoorDB | 95.0 (°F) |
| ARI GrossTotalCool | 61600 (Btuh) | Cooling CondenserDB | 95.0 (°F) |
| ARI NetTotalCool | 60000 (Btuh) | Cooling MixedDB | 80.0 (°F) |
| Coil GrossTotalCool | 62325 (Btuh) | Cooling MixedWB | 67.0 (°F) |
| Unit NetTotalCool | 59942 (Btuh) | Coil DischargeDB | 56.9 (°F) |
| Coil GrossSensCool | 45528 (Btuh) | Coil DischargeWB | 55.9 (°F) |
| Unit NetSensCool | 43145 (Btuh) | Unit DischargeDB | 58.1 (°F) |
| Tube/Fin Humiditrol Refrigerant Charge | 17 LBS. 8 OZ. | Unit DischargeWB | 56.4 (°F) |
| | | Coil MoistureRemoval | 15.8 (lb/hr) |
| | | System MoistRemoval | 15.8 (lb/hr) |

HUMIDITROL PERFORMANCE

| | | | |
|-----------------------|-----------|------------------------|--------------|
| Humid-1st CoilDischDB | 77.5 (°F) | Humiditrol OutdoorDB | 95.0 (°F) |
| Humid-1st CoilDischWB | 63.4 (°F) | Humiditrol MixedDB | 80.0 (°F) |
| Humid-All CoilDischDB | 77.5 (°F) | Humiditrol MixedWB | 67.0 (°F) |
| Humid-All CoilDischWB | 63.4 (°F) | Humid-1st MoistRemoval | 16.5 (lb/hr) |
| | | Humid-All MoistRemoval | 16.5 (lb/hr) |

SUPPLY FAN PERFORMANCE

| | | | |
|-----------------------|-------------------|---------------------------|--------------|
| Supply AirFlow | 1870 (cfm) | TotalStaticPress | 1.28 (in.WC) |
| ExtStaticPress Supply | 1.00 (in.WC) | Wet Coil Static Press | 0.09 (in.WC) |
| SupplyFan Req'dPower | 1.00 (hp) | Gas H/E Static Press | 0.05 (in.WC) |
| SupplyFan NomPower | 1.00 (hp) | Added Filter Static Press | 0.07 (in.WC) |
| Supply Fan Type | MSAV Direct Drive | Humiditrol Static Press | 0.02 (in.WC) |
| SupplyDriveReq'd RPM | 966 (rpm) | Economizer Static Press | 0.05 (in.WC) |
| Motor Torque Pct | 66 | Air Filter Qty | 4 |
| | | Air Filter Length | 20.0 (in.) |
| | | Air Filter Width | 20.0 (in.) |
| | | Air Filter Thickness | 2.0 (in.) |

ELECTRICAL

| | | | |
|-----------------------------|------------|--------------------|-----------|
| Voltage | 208V 3Ph | SupplyFan FLA | 7.4 (amp) |
| Frequency | 60 (Hz) | CondensingUnit FLA | 4.1 (amp) |
| System MCA | 33.0 (amp) | | |
| System MOCB | 45 (amp) | | |
| Compressors RLA | 17.6 (amp) | | |
| Cooling FLA Total | 29.1 (amp) | | |
| Unit Oper Range-Nom Voltage | +/- 10% | | |

Lennox Industries Inc. - Product Submittal

| | |
|--------------------------|--------------------------------------|
| System ID: RTU-3, 6 | Description: PKGGE/STON/CONFIGURABLE |
| Package Model: LGH060H4E | |

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 | 865 (lb) | Downflow Return Width | 11.0 (in.) |

SOUND

| | |
|----------------------|---------|
| Outdoor Sound Rating | 82 (db) |
|----------------------|---------|

SYSTEM FEATURES

| | |
|--|---|
| Durable Outdoor Enamel Paint Finish | Crankcase Heater Test |
| Scroll Compressor | Timed Off Control |
| Pre-charged Refrigeration System | AGA-CGA Certified |
| Expansion Valves | 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 |

INCLUDED SYSTEM OPTIONS - FACTORY INSTALLED

| |
|--------------------------------------|
| STANDARD CAP |
| 2 IN MERV13 FILTER |
| BAROMETRIC RELIEF DAMPERS |
| CORROSION PROTECTION |
| DIRTY FILTER SWITCH |
| DISCONNECT - WEATHERPROOF |
| CO2 SENSOR MOUNTING BRACKET |
| 2 IN MERV13 REPL FILTER |
| GFCI - FACTORY INSTALLED/NON-POWERED |
| DRAIN PAN OVERFLOW SW |
| HUMIDITROL |
| DUAL ENTHALPY ECONOMIZER |
| MULTI-STAGE AIR VOLUME |
| HINGED ACCESS DOORS |
| TUBE AND FIN COIL SYSTEM |
| STAINLESS STEEL HEAT |

INCLUDED SYSTEM OPTIONS - FIELD INSTALLED

| | | |
|-------|---|---------------------------------------|
| 13H15 | 2 | CS7500 COMM'L PROGRAMMABLE THERMOSTAT |
| 76M31 | 2 | C0SNSR30AE1- SENSOR, DUCT RH |
| 31W62 | 2 | C1EXTN20FF1 VENT EXTENSION KIT |
| 87N54 | 2 | EG T8100-B-LN CO2 DETECTOR/BLACK/DUCT |
| 85L43 | 2 | C0MISC19AE1- CO2 DWNFLW DUCT MTNG KIT |
| 52W39 | 8 | 101356-04 FILTER-AIR 20X20X2 MERV 13 |

Lennox Industries Inc. - Product Submittal

Drawings Typical for RTU-1, 2, 3, 6

System ID: RTU-3, 6

Package Model: LGH060H4E

Description: PKGGE/5TON/CONFIGURABLE

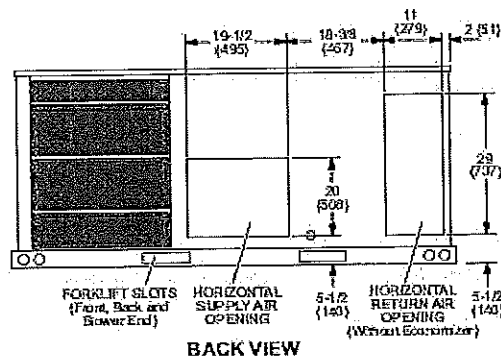
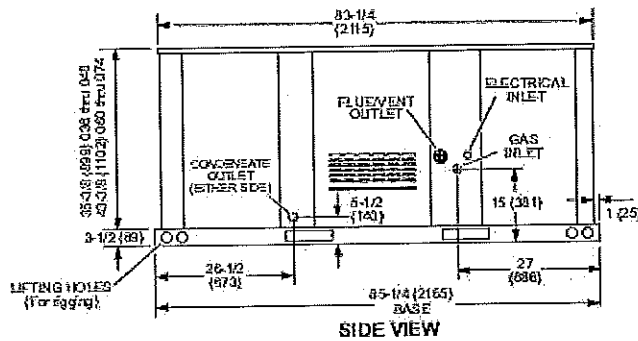
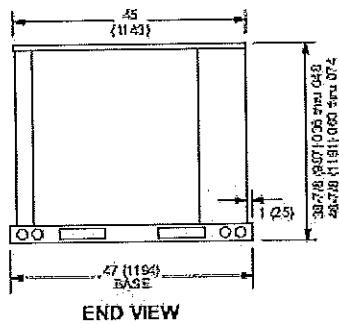
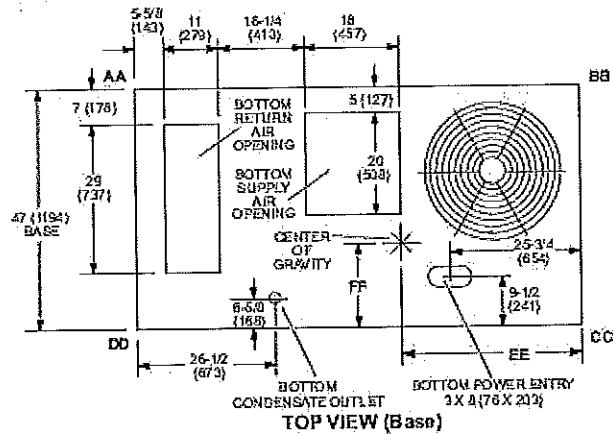
DIMENSIONS - INCHES (MM)

CORNER WEIGHTS

| 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 | 256 | 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 | 256 | 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.



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

Project: 13904 Asylum Nigh Club
 Quote: 4400089797 Asylum Nigh Club
 Page 9 of 16

Last Changed: B10055.ANNMARIE
 Prepared On: 2016-08-02
 Phone: 207-657-7123

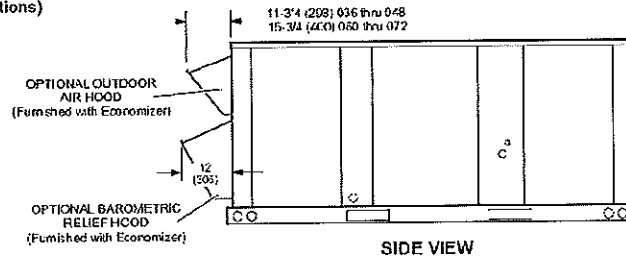
Lennox Industries Inc. - Product Submittal

System ID: RTU-3, 6
 Package Model: LGH060H4E

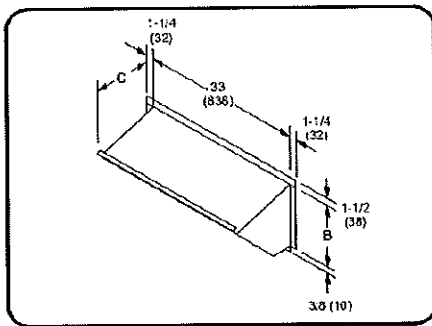
Description: PKGGE/STON/CONFIGURABLE

ACCESSORY DIMENSIONS - INCHES (MM)

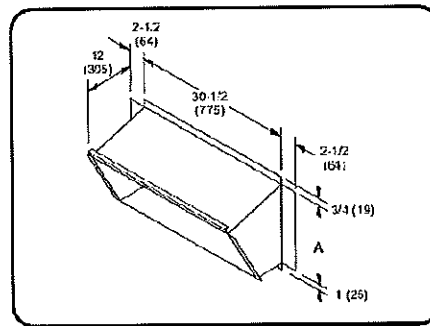
OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS
 (Down-Flow Applications)



OUTDOOR AIR HOOD FOR ECONOMIZER
 (Furnished)



BAROMETRIC RELIEF HOOD FOR ECONOMIZER
 (Furnished)



| Model No. | A | | B | | C | |
|-----------|--------|-----|-----|-----|--------|-----|
| | 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 |

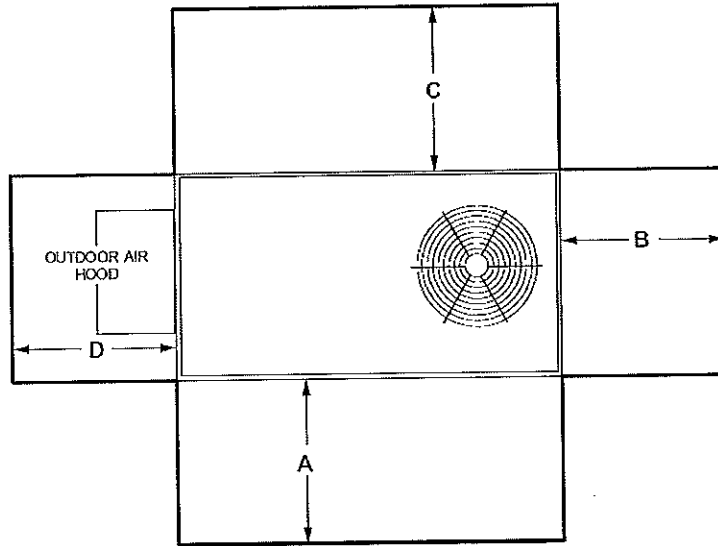
Lennox Industries Inc. - Product Submittal

System ID: RTU-3, 6

Package Model: LGH060H4E

Description: PKGGE/5TON/CONFIGURABLE

UNIT CLEARANCES - INCHES (MM)



| 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 | Unobstructed |
| Clearance to Combustibles | 36 | 914 | 1 | 25 | 1 | 25 | 1 | 25 | |
| 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.

SUBMITTAL

TAG: RTU-1, 2, 3, 6

08/04/2016

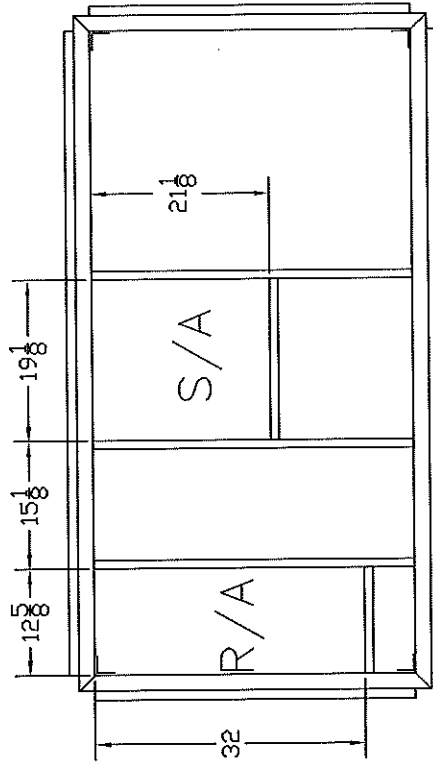
Asylum (Small RTU Submittals)

REV 00

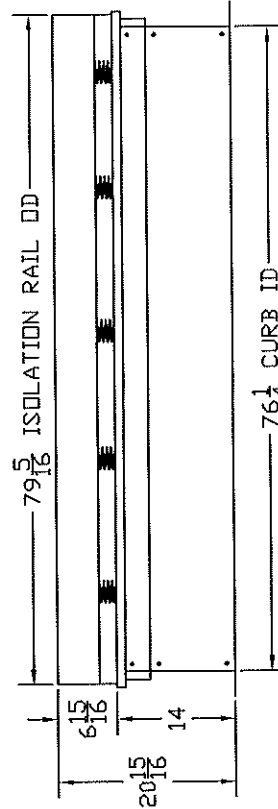
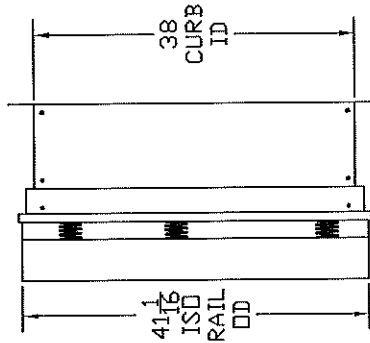
FEATURES:

1. CURB AND ISOLATION RAIL SHIPPED FULLY ASSEMBLED
2. ISOLATION RAIL FABRICATED OF ALUMINUM EXTRUSION
3. CURB FABRICATED OF HEAVY GAUGE GALVANIZED STEEL
4. MITERED TOP CORNERS
5. FULL PERIMETER WOOD NAILER
6. FULL PERIMETER WEATHER SEAL
7. DUCT SUPPORT INCLUDED
8. CANVAS DUCT NOT INCLUDED

TOP VIEW

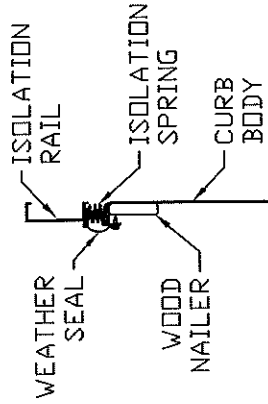


RIGHT VIEW



FRONT VIEW

2" THICK INSULATION INCLUDED



REVISIONS

| REV | EDN # | DESCRIPTION | APP | CHKD | DATE |
|-----|-------|-------------|-----|------|------|
| | | | | | |

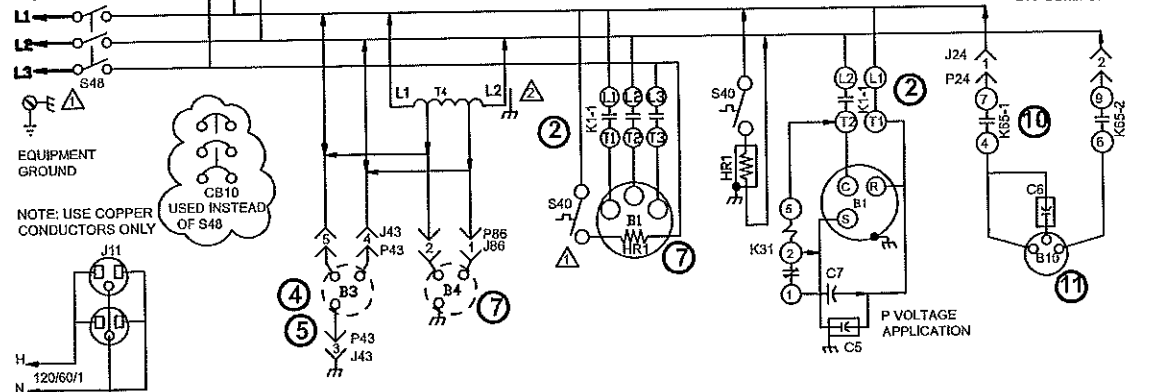
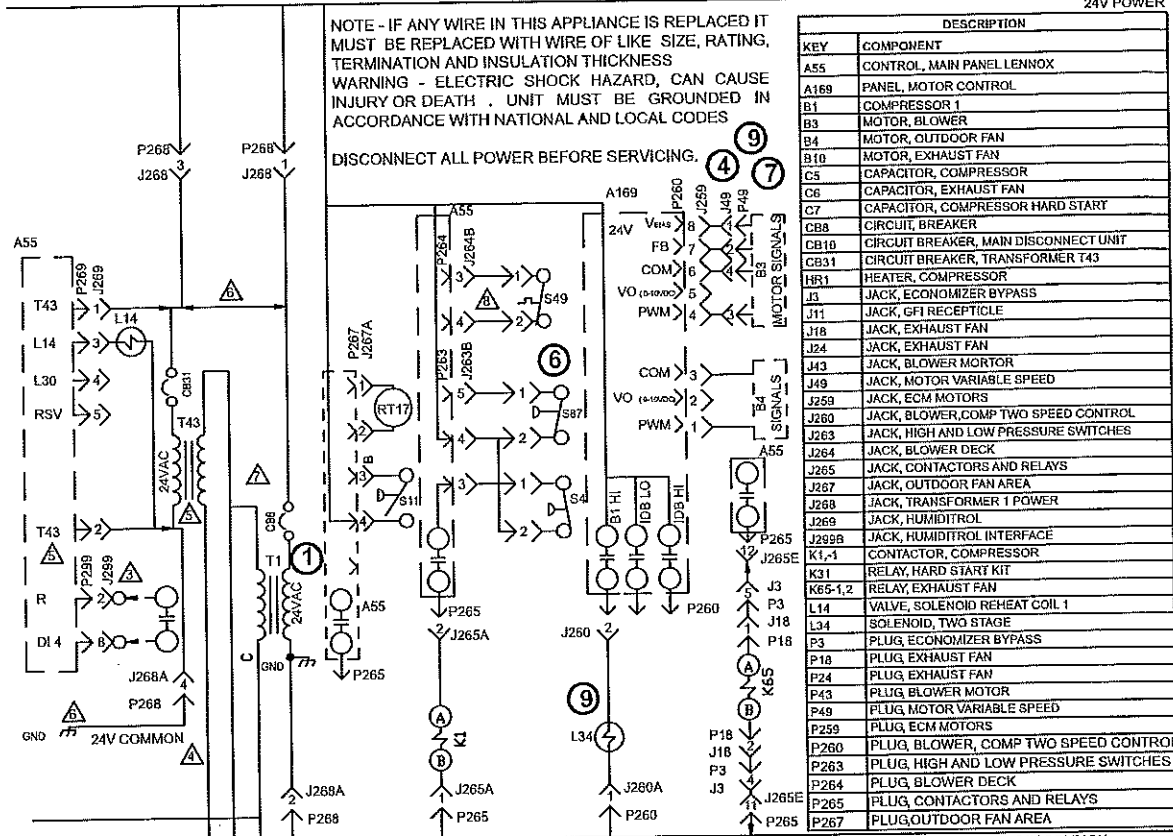
CambridgeportTM
1-800-646-2872

| | |
|---------------------------------------|---------------------------------|
| HVAC Accessories & Engineered Systems | |
| DESCRIPTION | CURB, ISOLATION SUBMITTAL |
| CUSTOMER/JOB NAME | BRIGGS EQUIPMENT SALES / ASYLUM |
| JOB# | |
| DATE | 7/28/16 |
| SCALE | PAGE |
| DRAWN BY | JBH |
| CHECKED BY | |
| DWG # | 38429-A2 |
| CEMS # | |

LENNOX LGH060
2" DEFLECTION

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TOLERANCES: DECIMALS: .000 = +/- .063, .00 = +/- .063, .0 = +/- .063, .0 = +/- .063 ANGLES: +/- 1 DEG FRACTIONS: +/- 1/16"

LGH036/060 DIRECT DRIVE G, J, P, Y VOLTAGE UNIT DIAGRAM



| | |
|------|------------------------------------|
| P268 | PLUG, TRANSFORMERS |
| P269 | PLUG, HUMIDITROL |
| P299 | PLUG, SAFETY INTERFACE |
| RT17 | SENSOR, OUTDOOR AIR |
| S4 | SWITCH, LIMIT HI PRESS |
| S11 | SWITCH, LOW PRESS, LOW AMBIENT KIT |
| S40 | THERMOSTAT, CRANKCASE |
| S48 | SWITCH, DISCONNECT |
| S49 | SWITCH, FREEZE STAT |
| S87 | SWITCH, LOW PRESS, COMPRESSOR 1 |
| T1 | TRANSFORMER, CONTROL |
| T4 | TRANSFORMER, BLOWER MOTOR |
| T43 | TRANSFORMER, REHEAT |

WIRING DIAGRAM 01/10

COOLING

LCH, LGH 036H, 048H, 060H - G, J, P, Y

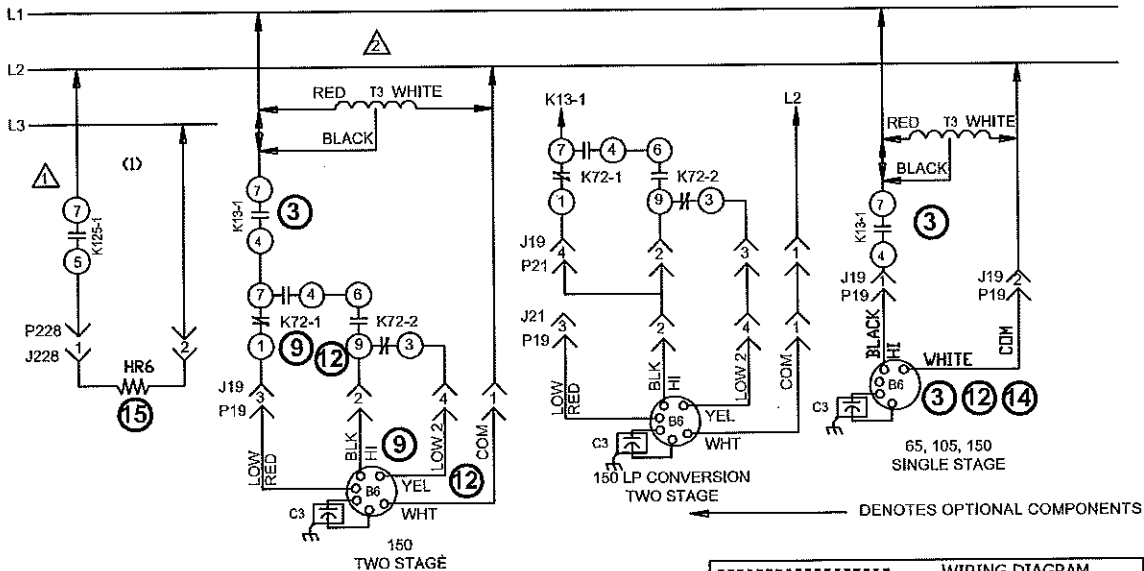
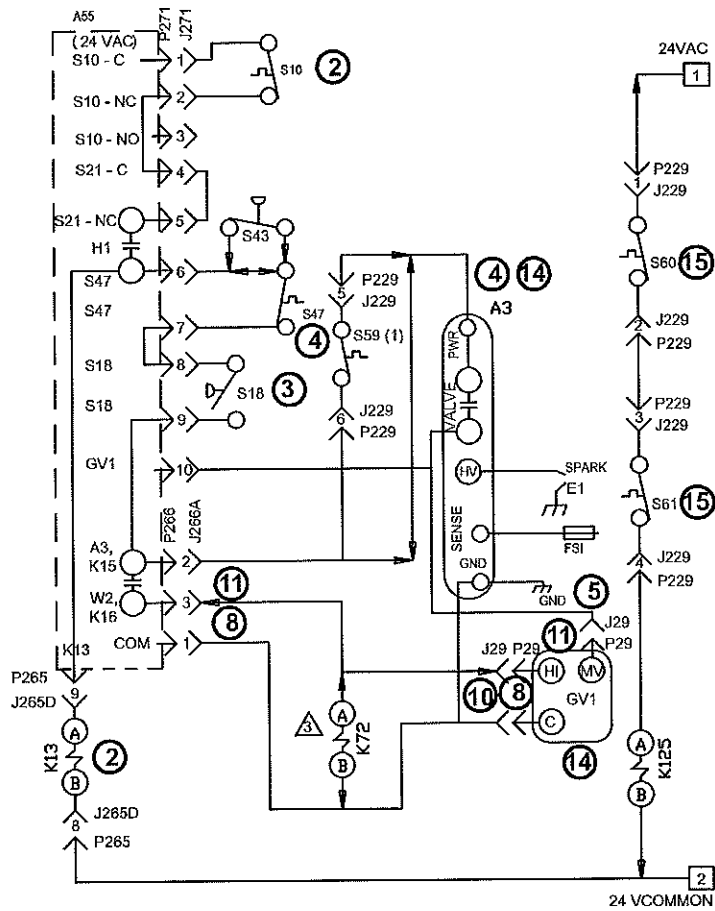
SECTION B REV. 4.0

Supersedes New Form No. 537177-01

Typical RTU-1, 2, 3, 6

GAS HEAT FOR LGH036/072 UNITS

| KEY | DESCRIPTION |
|----------|----------------------------------|
| A3 | CONTROL, BURNER 1 |
| A55 | CONTROL, MAIN BOARD LENNOX |
| B6 | MOTOR, COMBUSTION AIR BLOWER |
| C3 | CAPACITOR, COMB AIR BLOWER 1 |
| E1 | SPARK |
| FS1 | SENSOR, FLAME |
| GV1 | VALVE, GAS 1 |
| HR6 | HEATER, -50C LOW AMBIENT KIT |
| J19 | JACK, COMBUSTION AIR BLOWER 1 |
| J21 | JACK, COMBUSTION AIR BLOWER 2 |
| J29 | JACK, VALVE HONEYWELL |
| J228 | JACK, VESTIBULE HEATER |
| J229 | JACK, VESTIBULE HEATER CONTROL 1 |
| J265C | JACK, CONTACTOR RELAY |
| J266A | JACK, HEATING CONTROL STG 1 |
| J271A,B | JACK, HEATING SENSORS STG 1 |
| K13,-1 | RELAY, COMBUSTION AIR BLOWER |
| K72,-1,2 | RELAY, GAS 3 |
| K125,-1 | RELAY, HEAT SHUT OFF |
| P19 | PLUG, COMBUSTION AIR BLOWER 1 |
| P21 | PLUG, COMBUSTION AIR BLOWER 2 |
| P29 | PLUG, VALVE HONEYWELL |
| P228 | PLUG, VESTIBULE HEATER |
| P229 | PLUG, VESTIBULE HEATER CONTROL 1 |
| P265 | PLUG, CONTACTOR RELAY |
| P266 | PLUG, HEATING CONTROL |
| P271 | PLUG, HEATING SENSORS STG 1 |
| S10 | SWITCH, LIMIT PRIMARY GAS |
| S18 | SWITCH, COMBUSTION AIR PROVE 1 |
| S43 | SWITCH, LOW GAS PRESSURE |
| S47 | SWITCH FLAME ROLLOUT BURNER |
| S59 | TSTAT, OPEN -20F, CLOSE 10F |
| S60 | TSTAT, OPEN 20F, CLOSE -10F |
| S61 | TSTAT, OPEN 50F, CLOSE 20F |
| T3 | TRANSFORMER COMB AIR BWR 1 |



- CSA (-50C) LOW AMBIENT KIT (OPTIONAL)
- T3 USED ON 460V AND 575 V UNITS ONLY
- K72 AND GV1 2STG ARE USED ON TWO STAGE UNITS.

| | | |
|-------------|----------------|----------|
| | WIRING DIAGRAM | 11/09 |
| HEATING | | |
| GAS HEAT | | |
| LGH 65 -150 | | |
| SECTION A | | REV. 2.0 |
| Supersedes | New Form No. | |
| | 537179-01 | |

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Lennox Commercial

Lennox Industries Inc. - Product Submittal

System ID: RTU-4, 5

Package Model: KGB024S4D

Description: PKGGGE/2TON/BTO

HEATING PERFORMANCE

| | | | |
|-------------------|-----------------------|--------------------------|-----------------|
| Unit Type | Packaged Gas Electric | Gas Supply Connection | 0.50 (in.) |
| H/E HighInput | 65000 (Btuh) | H/E Heat Rise | 70 (°F) MAXIMUM |
| H/E HighOutput | 53000 (Btuh) | AFUE/ ThermalEff | 81 |
| System HeatOutput | 53000 (Btuh) | Number of Heating Stages | 1 |
| | | Gas Supply Pressure | 7 (in.WC) |

COOLING PERFORMANCE

| | | | |
|---------------------|--------------|--------------------------|-------------|
| Refrigerant | R-410A | Number Compressors | 1 |
| ARI EER | 12.7 | Number of Cooling Stages | 1 |
| ARI SEER | 14.0 | Condensate Drain Size | 1.00 (in.) |
| ARI Total Power | 1900 (W) | Cooling OutdoorDB | 95.0 (°F) |
| ARI GrossTotalCool | 24800 (Btuh) | Cooling CondenserDB | 95.0 (°F) |
| ARI NetTotalCool | 24200 (Btuh) | Cooling MixedDB | 80.0 (°F) |
| Coil GrossTotalCool | 23544 (Btuh) | Cooling MixedWB | 67.0 (°F) |
| Unit NetTotalCool | 22749 (Btuh) | Coil DischargeDB | 57.9 (°F) |
| Coil GrossSensCool | 16522 (Btuh) | Coil DischargeWB | 56.2 (°F) |
| Unit NetSensCool | 15727 (Btuh) | Unit DischargeDB | 59.0 (°F) |
| | | Unit DischargeWB | 56.7 (°F) |
| | | Coil MoistureRemoval | 6.4 (lb/hr) |
| | | System MoistRemoval | 6.4 (lb/hr) |

SUPPLY FAN PERFORMANCE

| | | | |
|-----------------------|------------------|-------------------------|--------------|
| Supply AirFlow | 698 (cfm) | TotalStaticPress | 0.85 (in.WC) |
| ExtStaticPress Supply | 0.80 (in.WC) | Wet Coil Static Press | 0.01 (in.WC) |
| SupplyFan Req'dPower | 0.25 (hp) | Economizer Static Press | 0.04 (in.WC) |
| SupplyFan NomPower | 0.25 (hp) | Air Filter Qty | 4 |
| Supply Fan Type | CAV Direct Drive | Air Filter Length | 16.0 (in.) |
| SupplyDrive Speed | MEDIUM | Air Filter Width | 20.0 (in.) |
| | | Air Filter Thickness | 2.0 (in.) |

ELECTRICAL

| | | | |
|-----------------------------|------------|--------------------|-----------|
| Voltage | 230V 1Ph | SupplyFan FLA | 1.7 (amp) |
| Frequency | 60 (Hz) | CondensingUnit FLA | 1.7 (amp) |
| System MCA | 16.0 (amp) | CondenserFan Power | 250 (W) |
| System MOCP | 25 (amp) | | |
| Compressors RLA | 9.8 (amp) | | |
| Cooling FLA Total | 13.2 (amp) | | |
| Unit Oper Range-Nom Voltage | +/- 10% | | |

DIMENSIONS

| | | | |
|----------------|------------|------------------------|------------|
| Cabinet Width | 47.0 (in.) | Downflow Supply Length | 18.0 (in.) |
| Cabinet Length | 83.3 (in.) | Downflow Supply Width | 20.0 (in.) |
| Cabinet Height | 36.4 (in.) | Downflow Return Length | 11.0 (in.) |
| Total Weight | 633 (lb) | Downflow Return Width | 29.0 (in.) |

SOUND

| | |
|----------------------|---------|
| Outdoor Sound Rating | 75 (db) |
|----------------------|---------|

Lennox Industries Inc. - Product Submittal

| | |
|--|-----------------------------|
| System ID: KGA-2 TON Package Model: KCB024S4D | Description: PKGEE/2TON/BTO |
|--|-----------------------------|

SYSTEM FEATURES

| | |
|--|---|
| Durable Outdoor Enamel Paint Finish | Limited compressor warranty of 5 years |
| Scroll Compressor | Limited warranty on all other components of 1 year |
| High Capacity Driers | See Limited Warranty Certificate included with unit for details |
| Separate Compressor and Controls Compartment | |

INCLUDED SYSTEM OPTIONS - FACTORY INSTALLED

| |
|---------------------------------|
| CORROSION PROTECTION |
| 2 IN MERV13 FILTER |
| DISCONNECT - WEATHERPROOF |
| SINGLE ENTHALPY ECONOMIZER |
| BAROMETRIC RELIEF DAMPERS |
| CONSTANT AIR VOLUME DIRECTDRIVE |

INCLUDED SYSTEM OPTIONS - FIELD INSTALLED

| | | |
|-------|---|---------------------------------------|
| 13H15 | 2 | CS7500 COMM'L PROGRAMMABLE THERMOSTAT |
| 87N54 | 2 | EG T8100-B-LN CO2 DETECTOR/BLACK/DUCT |
| 85L43 | 2 | COMISC19AE1- CO2 DWNFLW DUCT MTNG KIT |
| 74W42 | 2 | K1SNSR71AB1 FLOAT SWITCH KIT |
| 52W37 | 8 | 101356-02 FILTER-AIR 16X20X2 MERV 13 |

Lennox Industries Inc. - Product Submittal

System ID: RTU-4, 5 2-TON
 Package Model: KGB024S4D

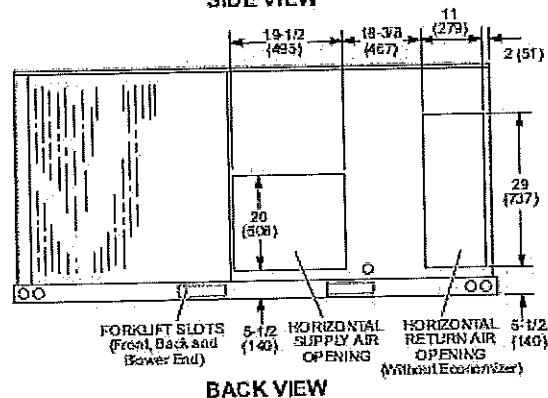
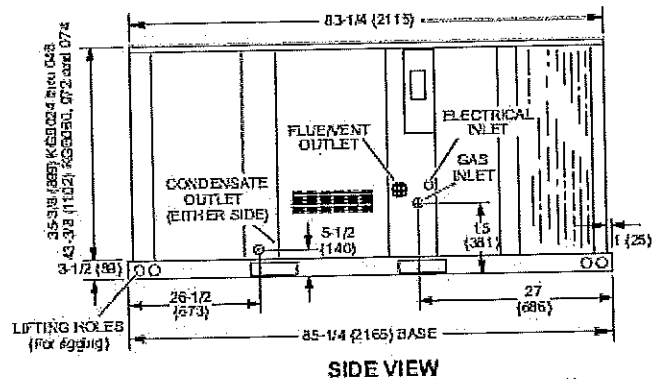
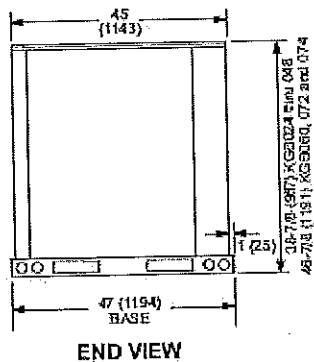
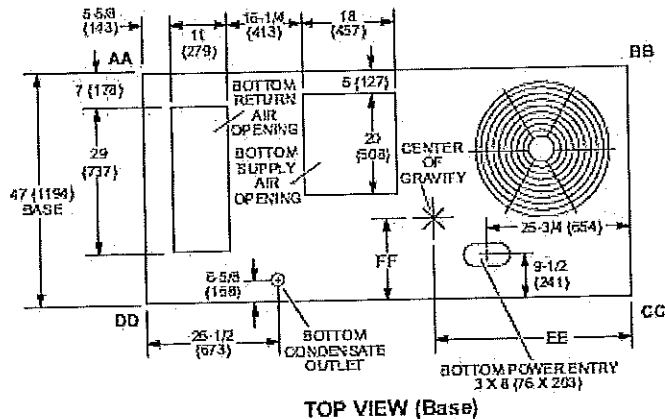
Description: PKGGE/2TON/BTO

DIMENSIONS - UNIT - INCHES (MM) - KGB

| Model No. | CORNER WEIGHTS | | | | | | | | CENTER OF GRAVITY | | | | | | | | | | | | | | | |
|-----------|----------------|------|------|------|------|------|------|------|-------------------|------|------|------|------|------|-----|-----|--------|------|----|------|--------|-----|--------|-----|
| | AA | | BB | | CC | | DD | | EE | | FF | | FF | | | | | | | | | | | |
| | Base | Max. | Base | Max. | Base | Max. | Base | Max. | Base | Max. | Base | Max. | Base | Max. | | | | | | | | | | |
| | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | in. | mm | in. | mm | in. | mm | | | | | | | | | | |
| 024 | 107 | 49 | 129 | 59 | 124 | 56 | 132 | 60 | 160 | 73 | 170 | 77 | 138 | 63 | 208 | 95 | 39-1/2 | 1003 | 45 | 1143 | 20-1/2 | 521 | 20-1/2 | 521 |
| 030 | 108 | 49 | 130 | 59 | 125 | 57 | 132 | 60 | 161 | 73 | 171 | 78 | 139 | 63 | 209 | 95 | 39-1/2 | 1003 | 45 | 1143 | 20-1/2 | 521 | 20-1/2 | 521 |
| 036 | 112 | 51 | 142 | 64 | 130 | 59 | 141 | 64 | 168 | 76 | 190 | 86 | 145 | 66 | 228 | 104 | 39-1/2 | 1003 | 45 | 1143 | 20-1/2 | 521 | 20 | 508 |
| 048 | 112 | 51 | 145 | 68 | 130 | 59 | 144 | 65 | 168 | 76 | 194 | 88 | 145 | 66 | 233 | 106 | 39-1/2 | 1003 | 45 | 1143 | 20-1/2 | 521 | 20 | 508 |
| 060 | 130 | 59 | 162 | 74 | 147 | 67 | 167 | 76 | 198 | 90 | 226 | 103 | 175 | 79 | 257 | 117 | 40 | 1016 | 44 | 1118 | 20 | 508 | 20 | 508 |
| 072 | 130 | 59 | 162 | 74 | 147 | 67 | 167 | 76 | 198 | 90 | 226 | 103 | 175 | 79 | 257 | 117 | 40 | 1016 | 44 | 1118 | 20 | 508 | 20 | 508 |
| 074 | 130 | 59 | 162 | 74 | 147 | 67 | 167 | 76 | 198 | 90 | 226 | 103 | 175 | 79 | 257 | 117 | 40 | 1016 | 44 | 1118 | 20 | 508 | 20 | 508 |

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.



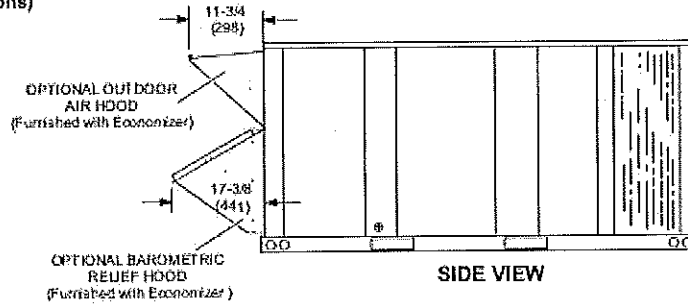
Lennox Industries Inc. - Product Submittal

System ID: RTU-4, 5 2-TON
 Package Model: KGB024S4D

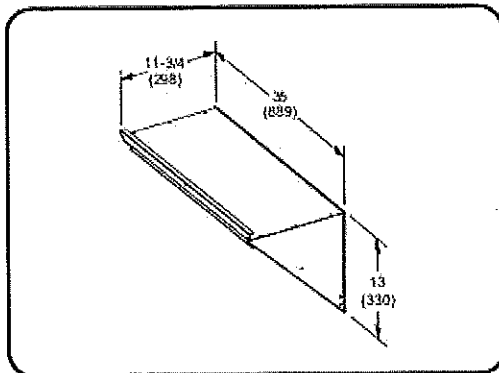
Description: PKGGE/2TON/BTO

DIMENSIONS - ACCESSORIES - INCHES (MM)

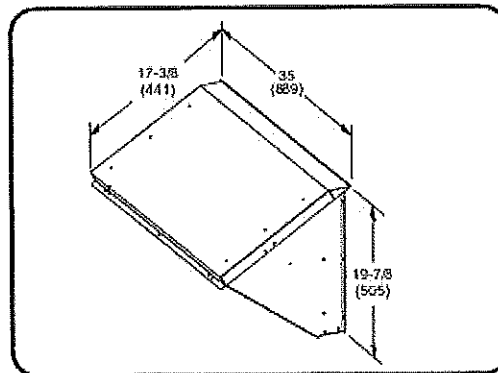
OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS (Downflow Applications)



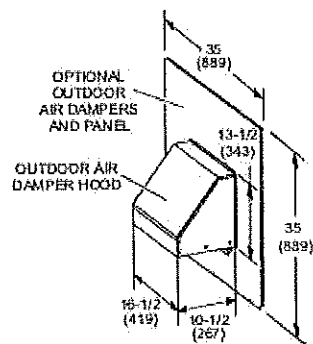
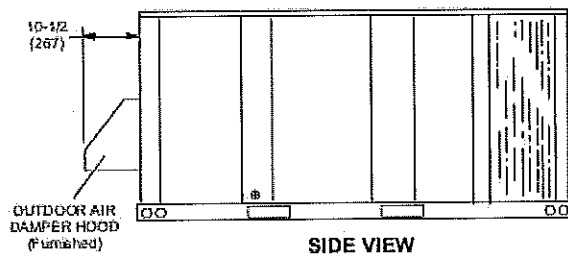
OUTDOOR AIR HOOD FOR ECONOMIZER (Furnished)



BAROMETRIC RELIEF HOOD FOR ECONOMIZER (Furnished)



OUTDOOR AIR DAMPER HOOD DETAIL FOR OPTIONAL MANUAL OR MOTORIZED OUTDOOR AIR DAMPERS (Downflow or Horizontal Applications)

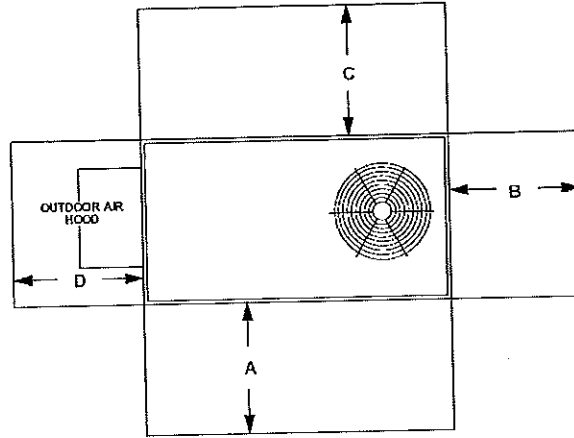


Lennox Industries Inc. - Product Submittal

System ID: RTU-4, 5 2-TON
 Package Model: KGB024S4D

Description: PKGGE/2TON/BTO

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 | 914 | 36 | 914 | Unobstructed |
| Clearance to Combustibles | 36 | 914 | 1 | 25 | 1 | 25 | 1 | 25 | |
| 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.

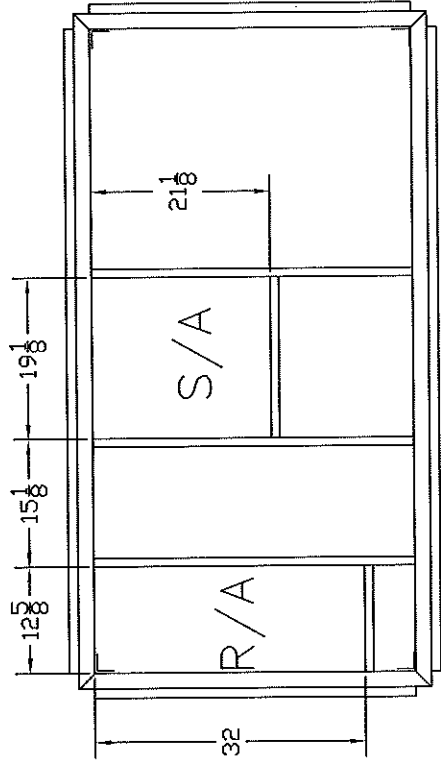
SUBMITTAL

TAG: RTU-4, 5

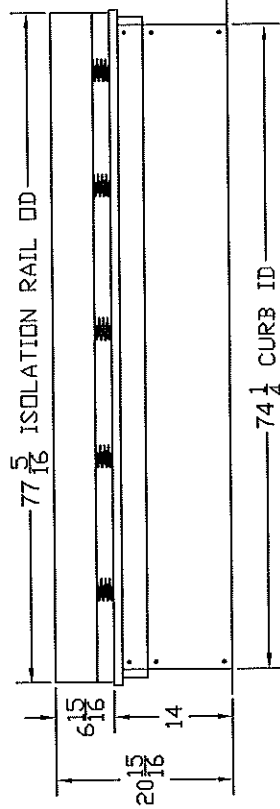
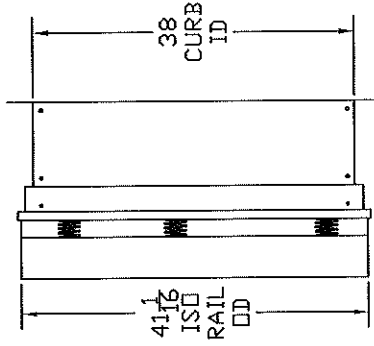
REVISIONS

| REV | ECN # | DESCRIPTION | APP | CHKD | DATE |
|-----|-------|-------------|-----|------|------|
| | | | | | |

TOP VIEW



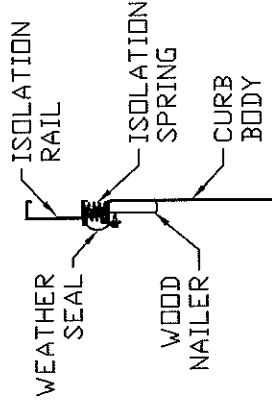
RIGHT VIEW



FRONT VIEW

FEATURES:

1. CURB AND ISOLATION RAIL SHIPPED FULLY ASSEMBLED
2. ISOLATION RAIL FABRICATED OF ALUMINUM EXTRUSION
3. CURB FABRICATED OF HEAVY GAUGE GALVANIZED STEEL
4. MITERED TOP CORNERS
5. FULL PERIMETER WOOD NAILER
6. FULL PERIMETER WEATHER SEAL
7. DUCT SUPPORT INCLUDED
8. CANVAS DUCT NOT INCLUDED



2" THICK INSULATION INCLUDED

LENNOX LGH060
2" DEFLECTION

Cambridgeport™
1-800-548-2872

HVAC Accessories & Engineered Systems

DESCRIPTION CURB, ISOLATION

SUBMITTAL

CUSTOMER/JOB NAME BRIGGS EQUIPMENT SALES / ASYLUM

JOB#

SCALE

DRAWN BY JBH

CHECKED BY

DATE 7/28/16

PAGE

DWG # 38429-A2

CEMS# 170118

Page 1 of 1

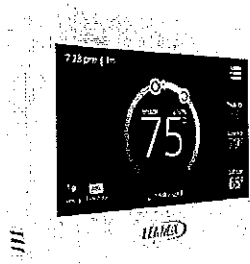
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08/04/2016

Typical All RTUs

COMFORTSENSE® 7500 COMMERCIAL 7-DAY PROGRAMMABLE THERMOSTAT



- Four-Stage Heating / Two-Stage Cooling Universal Multi-Stage
- Intuitive Touchscreen Interface
- Remote Indoor Temperature Sensing with Averaging
- Outside or Discharge Air Temperature Display
- Full Seven-Day Programming
- Four Time Periods Per Day
- Occupancy Scheduling with Economizer Relay Control
- Away Mode
- Holiday Scheduling
- Smooth Setback Recovery (SSR)
- Performance Reports
- Notifications/Reminders
- Dehumidification/Humiditrol® Control for Split Systems and Rooftop Units
- Economizer Relay Control
- Backlit Display
- Wallplate Furnished

Complete user manual supplied at a later date