

Highlands Health & Rehabilitation Center 3549 Norriswood Ave, Memphis, TN, 38111

REQUEST FOR PROPOSAL (RFP) REVISED

May 16, 2024

Dear Prospective Bidder,

This is a solicitation for bids for a scope of work as delineated below. Highlands Health & Rehabilitation Center hereby requests your proposal for the below delineated scope of work.

The project involves funding from a state agency and hence, all requirements of the funding agency that has jurisdiction over this project will need to be adhered to by the prospective bidder. Further information regarding the requirements will follow the pre-bid meeting.

ABOUT HIGHLANDS HEALTH & REHABILITATION CENTER

Highlands Health & Rehabilitation Center is a skilled nursing facility that provides short-term rehabilitation, long-term care services including memory care and hospice, and a comprehensive range of therapy and care programs. We firmly believe and strongly encourage our staff to treat every resident with the utmost respect and dignity, as if they were their own parent. www.highlands-healthcenter.com

SCOPE OF WORK

The project scope of work is to remove and replace the current rooftop heating and air conditioning units (HVAC) with new units, per all required safety standards and local laws, including proper disposal of old units without damage to the building or property. Work is to be performed efficiently and in coordination with the facility manager in order to not impede the regular functioning of the business or safety of its residents. The proposed bidder must provide proof of current insurance. Any damages incurred during the project to the roof, building, or property will be the sole responsibility of the proposed bidder.

The scope includes the purchase of the following rooftop HVAC units:

- Lennox LGT156H4M or equivalent (qty 2)
 Tag MUH 1, MUH 2: LGT156H4M-Y 13T CONF E=12.0
- Lennox LGT150H4E or equivalent (qty 2)
 Tag RTU 3, KIT 2: LGT150H4E-Y 12.5T CONF E=10.8

- Lennox LGT150H4E or equivalent (qty 1)
 Tag RTU-1: LGT150H4E-Y 12.5T CONF E=10.8
- Lennox LGT210H4M or equivalent (qty 1)

Tag Kit-1: LGT210H4M-Y 17.5T CONF E=12.0

- Lennox LGT120H4E or equivalent (qty 1)
 Tag Porch-5: LGT120H4E-Y 10T CONF E=12.1
- Lennox LGT072H4E or equivalent (qty 1)
 Tag Lobby-4: LGT072H4E-Y 6T CONF E=12.2
- Lennox ZGB036S4E or equivalent (qty 1)
 Tag RTU 9: ZGB036S4E 108k .5hp ENV

See attached for complete equipment specifications and dimensions.

The scope includes the installation of the above units including:

- electrical and drainage work;
- any curbing, roof mounting, or roof finishing/alterations necessary.

The following onsite equipment is anticipated to be necessary:

- 100-ton Crane with 80-ton weight capacity 140' reach.
- Two flatbed trailers (one to haul in new equipment; one to remove old equipment)

BONDING: THE FOLLOWING MINIMUM REQUIREMENTS MUST BE AS FOLLOWS:

- (a) A bid guarantee from each bidder equivalent to five percent of the bid price. The "bid guarantee" must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual documents as may be required within the time specified.
- (b) A performance bond on the part of the contractor for 100 percent of the contract price. A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's requirements under such contract.
- (c) A payment bond on the part of the contractor for 100 percent of the contract price. A "payment bond" is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

INSURANCE

Active general liability insurance, workers' compensation insurance, and all business-owned vehicles covered by commercial auto insurance. Additional umbrella policy of at least \$1 million preferred.

SAM.GOV REQUIREMENT

All potential bidders should be prepared to be registered on sam.gov. Awarded bidder MUST have an active UEI (unique entity identifier) on sam.gov.

PROJECT FUNDING

The project is funded by ARPA SLFRF through the Tennessee Department of Health's HRP-CI program.

ANTICIPATED PROJECT START: JUNE 14, 2024

PRE-BID WALK THRU DATE: 10:00AM ON THURSDAY, MAY 23, 2024

Location: 3549 Norriswood Ave, Memphis, TN, 38111

BID PROPOSAL EVALUATION FACTORS:

- 1) Price (55%)
- 2) Quality of Proposed Bidder/Company including Experience, Past Performance, and Safety Protocols (25%)
- 3) Ability to Complete Onsite Work within a reasonable timeframe (20%)

BIDS DUE: BY 12:00PM NOON EDT ON TUESDAY, JUNE 4, 2024

- 1) Provide cost breakdown of labor & material for the following:
 - a. Purchase & Installation of HVAC Units
 - b. Crane Rental
- 2) Provide Anticipated Project Completion Date
- 3) Provide Number of Anticipated Days on Site
- 4) Provide Company Resume or Bio, including but not limited to:
 - a. Company Qualifications
 - b. Number of Years of Experience
 - c. Safety protocols
 - d. Engineering and Site Experience
- 5) Proof of insurances to be provided upon BID award.
- 6) Proof of an active sam.gov and UEI number to be provided upon BID award.

BIDS SHALL BE ADDRESSED TO:

Administrator Highlands Health & Rehabilitation Center 3549 Norriswood Ave, Memphis, TN, 38111

CONTACT PERSON FOR ANY QUESTIONS OR TO COORDINATE SITE VISIT:

Wilmer Lopez: maintenance@highlands-healthcenter.com



Project Location: Memphis, Tennessee US

Table of Contents

Tag	Qty	Model	Description
MUH 1, MUH 2	2	LGT156H4M	LGT156H4M-Y 13T CONF E=12.0
RTU 3, KIT 2	2	LGT150H4E	LGT150H4E-Y 12.5T CONF E=10.8
RTU-1	1	LGT150H4E	LGT150H4E-Y 12.5T CONF E=10.8
<u>Kit -1</u>	1	LGT210H4M	LGT210H4M-Y 17.5T CONF E=12.0
Porch -5	1	LGT120H4E	LGT120H4E-Y 10T CONF E=12.1
Lobby - 4	1	LGT072H4E	LGT072H4E-Y 6T CONF E=12,2
RTU 9	1	ZGB036S4E	ZGB036S4E 108k .5hp ENV



MUH 1, MUH 2

Model:

LGT156H4M - LGT156H4M-Y 13T CONF E=12.0

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Tti/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB	LAT DB/WB
208V 3Ph 60Hz	15.5 12	64 / 80	160.8 / 120.6	155.7 / 115.5	5,200	0.50 / 0.61	(°F) 80.0 / 67.0	(°F) 57.6 / 56.7

Coolin	g Performance	Temp	eratures (DB/WB °F)	
Gross Cooling (Ttl/Sens) Net Cooling (Ttl/Sens) Coil Moisture Removal System Moisture Removal	160.8 / 120.6 MBH 155.7 / 115.5 MBH 37.89 lb/hr 37.89 lb/hr	Ambient Entering Total Leaving – (Coil) Total Leaving – (Unit)	95.0 80.0 57.6 58.5	67.0 56.7 57.1

	Performance	Compres	sors		Refrigerant	Condensate	Drain
ARI Cooling ARI Power	152.0 / 148.0 MBH 12,300 W	Cooling Stages Compressor Qty Compressor RLA	3 2 42.6 amp	Type Charge	R-410A 0.0	Qty Size Pipe Thread	1 1 in

Humiditrol Dehumic	lification Performance	Temper	atures (DB/WB °F)	PRINCIPAL DIVINING
Gross Cooling - Stage 1(Ttl/Sens)	68.5 / 32,9 MBH	Ambient	95.0	
Gross Cooling - Stage 2 (Ttl/Sens)	88.9 / 58.7 MBH	Entering	80.0	67.0
Moisture Removal - Stage 1	33.6 lb/hr	Total Leaving - (Stage 1)	73.9	62.9
Moisture Removal - Stage 2	28.5 lb/hr	Total Leaving – (Stage 2)	69.1	61.6

Heating Performance Temperatures (DB/WB °F)	Specifications
Output (High/Low) 211.0 / 69.0 MBH Total Leaving 37.6 Input (High/Low) 260.0 / 85.0 MBH Total Leaving 37.6 Gas Heat Rise 37.6 °F Total Leaving 37.6	Heat Stages 2

	ir Flow (cfm)		Supply Fan	Air Resistance (in.WC)		
Supply	5,200	Nominal Power Required Power Drive Type RPM Range Required RPM	3.00 hp 1.70 hp MSAV Belt Drive 535 - 725 rpm 682 rpm	Total Ext Supply	0.61 0.50	

RRESISTANO	CE - OPTIONS/AC	CESSORIES (in	.WC)	4.4.1.401			No. of the last
Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.02	0.03	0.06			5.114.947	Exitatist	EKVV

ELECTRICAL				
Voltage MCA MOCP Condenser Power Oper Range-Nom Volt	208V 3Ph / 60Hz 64 amp 80 amp 1100 W +/- 10%	Compressor RLA Cooling FLA Total Condenser FLA Supply Fan FLA	42.6 amp 60.8 amp 7.6 amp 10.6 amp	

Cabina	407.75: 04.40: 4.55:			
Cabinet	107.75 in. x 91.12 in. x 54.25 in.	Total Weight	2,251 lb	
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	2.014 lb	
Downflow Return	15.0 in. x 60.5 in.	OAS/Econ Weight	167 lb	
Filters	(6) 24.0 in. x 24.0 in. x 2.0 in.	Exaust Weight	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Sound Rating	3 TO 1 TO	[20 lb	
sound Kating	86 dBA	Humiditrol Weight	50 lb	



MUH 1, MUH 2

Factory Installed Options

High Performance Economizer Upgrade Factory Installed Dual Enthalpy High Performance Economizer Belt Drive Unit Orientation Downflow Supply Fan: Multi-Stage Air Volume Belt 208/220/230/240V 3Phase 80Amp Non-Fused Disconnect Factory Installed Built-in BACnet IP and MS/TP (standard) Supply Motor - 3.0 Hp Std- w/ MSAV Supply Drive Kit 1 (535-725 RPM) Barometric Relief Damper Factory Installed 260K S.S. (Dual Stage)

Hinged Access Doors Factory Installed

Dirty Filter Switch Factory Installed

Fresh Air Tempering Factory Installed

Supply Air Smoke Detector Factory Installed

Environ Condenser Coll System Factory Installed

Humiditrol Factory Installed

2" MERV4 - Std. Filter Factory Installed

Product Features

Cabinet

Hinged Access Panels Durable Outdoor Enamel Paint Finish Totally Enclosed Outdoor Fan Motor PVC Coated Fan Guard Corrosion-Resistant Drain Pan Isolated Compressor Compartment

Cooling System

Scroll Compressor **Expansion Valves** High Capacity Driers Crankcase Heater System can operate from 0°F to 125°F without any additional controls Pre-charged Refrigeration System Timed Off Control Internal Pressure Relief Valve

Heating System

Redundant Automatic Gas Valve with Manual Shut-off Electronic Flame Sensor Direct Spark Ignition Inshot Burners AGA-CGA Certified

Humiditrol - Hot Gas Reheat Dehumidification System

Control System

Fan and Limit Controls Overload Protection Microprocessor Controls - Lennox® CORE Control System Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System Built-in BACnet IP & MS/TP Phase/Voltage Detection Return Air Sensor Factory Installed Outdoor Air Sensor Factory Installed Factory Installed Discharge Air Sensor

Compliance

Components are Bonded for Grounding

Factory Test Operated

All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8 All models meet DOE 2018 and 2023 energy efficiency standards

Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6,4,3,10 requirements for staged airflow



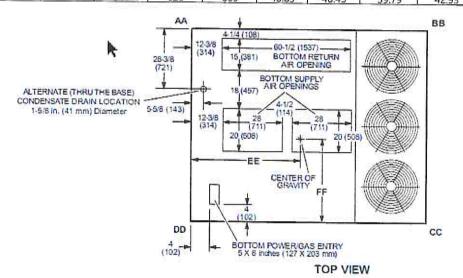
Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019 California Building Code (CBC) ASCE 7, and ICC-ES AC156 ISO 9001 Registered Manufacturing Quality System

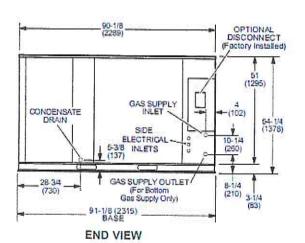
Warranty

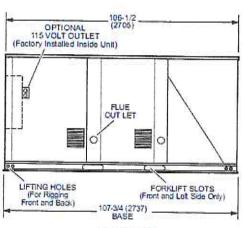
Limited warranty on stainless steel heat exchanger of 15 years
Limited warranty on compressor of 5 years
Limited warranty on Environ Coil System of 3 years
Limited warranty on High Performance Economizer of 5 years
Limited warranty on all other components of 1 year
See Limited Warranty Certificate included with unit for details
Limited warranty on Lennox® CORE Control System of 3 years



			Corner W	eights (lb)					Center of	Gravity (in	3
A	A	В	В	C	C	D	D	11.0 Approx. 10.0 Apr. 10.77	E	F	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
481	596	399	487	514	547	620	669	48.85	48.43	39.79	42.93



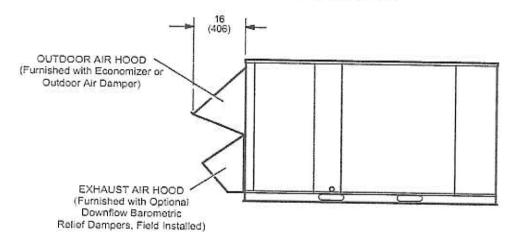




SIDE VIEW

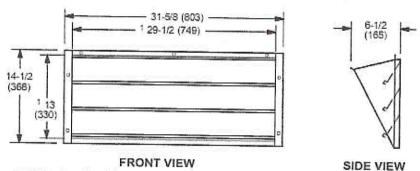


OUTDOOR AIR HOOD DETAIL



OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS WITH HOOD

(Field installed in horizontal return air duct adjacent to unit)

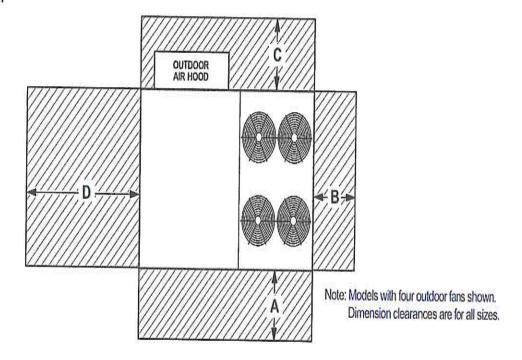


NOTE - Two furnished per order no.

1 NOTE - Opening size required in return air duct.



Unit With Economizer



¹ Unit Clearance		A	В		С		D		Тор	
offic of caralice	in.	mm	in.	mm	in.	mm	in.	mm	Clearance	
Service Clearance	60	1524	36	914	36	934	66	1676	***************************************	
Clearance to Combustibles	36	914	1	25	1	25	1	25	Unobstructed	
Minimum Operation Clearance	45	1143	36	914	36	914	41	1041	1230	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

Clearance to Combustibles - Required clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.

Service Clearance - Required for removal of serviceable parts.



RTU 3, KIT 2

Model:

LGT150H4E - LGT150H4E-Y 12.5T CONF E=10.8

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in,WC)	EAT DB/WB (°F)	LAT DB/WB
208V 3Ph 60Hz	14.6 10.8	63 / 80	146.1 / 108.1	133.2 / 95.2	5,000	0.50 / 1.41	80.0 / 67.0	(°F) 59.1 / 57.4

Coolin	g Performance	Tempe	ratures (DB/WB °F)	KANOOSIA MARKA
Gross Cooling (Ttl/Sens)	146.1 / 108.1 MBH	Ambient	95.0	
Net Cooling (Ttl/Sens)	133.2 / 95.2 MBH	Entering	80.0	67.0
Coil Moisture Removal	35.80 lb/hr	Total Leaving - (Coil)	59.1	57.4
System Moisture Removal	35,80 lb/hr	Total Leaving - (Unit)	61.6	58.3

	Performance	Compres	sors	TVANCTURE.	Refrigerant	Condensa	te Drain
ARI Cooling ARI Power	141.0 / 136.0 MBH 12,500 W	Cooling Stages Compressor Qty Compressor RLA	3 2 40.2 amp	Type Charge	R-410A 0.0	Qty Size	1 1 in.

Humiditrol Dehumid	ification Performance	Temper	tures (DB/WB °F)	
Gross Cooling - Stage 1(Ttl/Sens)	23.7 / 11.4 MBH	Ambient	95.0	
Gross Cooling - Stage 2 (Ttl/Sens)	90.4 / 57.9 MBH	Entering	80.0	67.0
Moisture Removal - Stage 1	11.6 lb/hr	Total Leaving - (Stage 1)	77.8	65.6
Moisture Removal - Stage 2	30.7 lb/hr	Total Leaving – (Stage 2)	68.9	61.3

Heati	ng Performance	Temperati	ures (DB/WB °F)	Specifica	tions
Output (High/Low) Input (High/Low) Gas Heat Rise	144.0 / 93.6 MBH 180.0 / 117.0 MBH 26.7 °F	Total Leaving	26.7	Heat Stages Thermal Efficiency Gas Line Size Gas Pressure	2 81.0% 0.75 in. 7 in WC

	ir Flow (cfm)		Supply Fan	Air Resista	nce (in.WC)
Supply	5,000 0	Nominal Power Required Power Drive Type Required Watts	3.75 hp 4.07 hp ECM Direct Drive 3.035 W	Total Ext Supply	1.41 0.50

AIR RESISTANO	CE - OPTIONS/AC	CESSORIES (in	.WC)				
Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.20	0.08	0.34	0.29	1,000		LANDUJ	LIXVY

Voltage	208V 3Ph / 60Hz	Compressor RLA	40.2 0000	-
MCA	63 amp		40.2 amp	
MOCP	57/51 Mark 196 # 10/4	Cooling FLA Total	55.0 amp	
	80 amp	Condenser FLA	6.0 amp	
Condenser Power	1000 W	Supply Fan FLA	8.8 amp	
Oper Range-Nom Volt	+/- 10%			

Cabinet	101.25 in. x 60.12 in. x 46.88 in.	Total Weight	1,293 lb	
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	1,150 lb	
Downflow Return	24.0 in. x 27.0 in,	OAS/Econ Weight	83 lb	
Filters	(4) 20.0 in. x 25.0 in. x 2.0 in.	Exaust Weight	31 lb	
Sound Rating	90 dBA	Humiditrol Weight	20 lb	
		Gas Heat Weight	9 lb	



RTU 3, KIT 2

Factory Installed Options

High Performance Economizer Upgrade Factory Installed Dual Enthalpy High Performance Economizer Direct Drive

Unit Orientation Downflow

Supply Fan: Multi-Speed ECM Direct Drive

208/220/230/240V 3Phase

80Amp Non-Fused Disconnect Factory Installed

Built-in BACnet IP and MS/TP (standard)

Supply Motor - 3.75 Hp - DirectPlus w/MSAV

Std Static Power Exhaust Fan Factory Installed

180K A.S. (Dual Stage)

Hinged Access Doors Factory Installed

15A GFCI Factory Installed/Field Wired

Dirty Filter Switch Factory Installed

Fresh Air Tempering Factory Installed

Supply Air Smoke Detector Factory Installed

Return Air Smoke Detector Factory Installed

Environ Condenser Coil System Factory Installed

Humiditrol Factory Installed

2" MERV4 - Std. Filter Factory Installed

Field Installed Accessories

Catalog Number	Qty	Description	i i canowat
54W96	2	Return Air Adaptor Plate Field Installed	

Product Features

Cabinet

Hinged Access Panels

Durable Outdoor Enamel Paint Finish

Totally Enclosed Outdoor Fan Motor

PVC Coated Fan Guard

Corrosion-Resistant Removable, Reversible Drain Pan

Isolated Compressor Compartment

Cooling System

Scroll Compressor

Expansion Valves

High Capacity Driers

Crankcase Heater

System can operate from 0°F to 125°F without any additional controls

Pre-charged Refrigeration System

Timed Off Control

Internal Pressure Relief Valve

Humiditrol - Hot Gas Reheat Dehumidification System

Heating System

Redundant Automatic Gas Valve with Manual Shut-off

Electronic Flame Sensor

Direct Spark Ignition

Inshot Burners

AGA-CGA Certified

If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

Control System

Fan and Limit Controls

Overload Protection

Microprocessor Controls - Lennox® CORE Control System

Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System

Built-in BACnet IP & MS/TP

Phase/Voltage Detection

Return Air Sensor Factory Installed

Outdoor Air Sensor Factory Installed

Factory Installed Discharge Air Sensor



Compliance

Components are Bonded for Grounding
Factory Test Operated
All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8
All models meet DOE 2018 and 2023 energy efficiency standards
Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow
Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019
California Building Code (CBC) ASCE 7, and ICC-ES AC156
ISO 9001 Registered Manufacturing Quality System

Warranty

Limited warranty on aluminized heat exchanger of 10 years
Limited warranty on compressor of 5 years
Limited warranty on Environ Coil System of 3 years
Limited warranty on High Performance Economizer of 5 years
Limited warranty on all other components of 1 year
See Limited Warranty Certificate included with unit for details
Limited warranty on Lennox® CORE Control System of 3 years



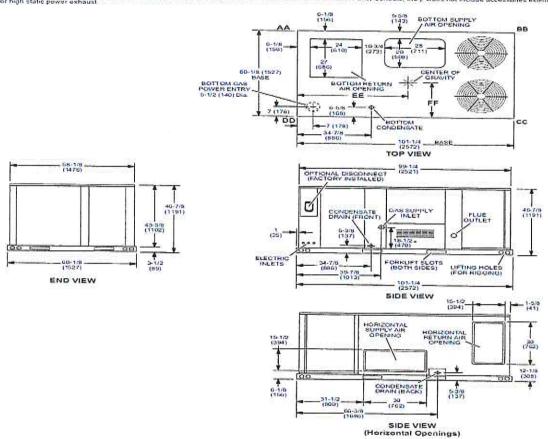
	CANCEL VIEW		Corner W	eights (lb)					Center of	Gravity (in)
A	A	В	В	C	C	D	D	THE TOWN DOWN THE PARTY OF	E	F	Control of the Contro
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
316	359	284	314	304	393	345	393	46.50	45.50	24.50	25.50

	COR	NEF	WE	GHT	s				//								CENT	TER C	FGR	AVITY			· ·	TIME
Model		A	A			B	В			C	C				D		-		E			F	c	
No.	Ba	se	Ma	ıx.	Ba	80	Ma	x.	Be	30	Ma	ax.	Ba	50	M	x.	Be	ine		nx.	Ba		-	ox.
	lbs.	kg	Iba.	kg	lbs.	Kg	Iba.	ka	Ibs.	kg	lbs.	ker	Ibs.	ka	lbs.	ka	In.	mm	in.	mm	in.	mm	7.00	-
092	293	133	338	153	263		295				316									1150	24.5	200	in.	mm
102	294	134	340	154			297				318		328		372						24.5		Associated	TOTAL STREET
120	308	139	349	158	275	125	305	138	295	134	328	148	334		382						24.5			648
150	20 142		950				2 1 1				THE PERSON NAMED IN	1 70 10	40.00	1.00	0.000	ALTERNATION AND ADDRESS.	40,0	1101	40.5	1100	44.5	022	25.5	648

150 316 143 350 163 284 120 314 142 304 138 393 178 345 157 393 178 46.5 1181 45.5 1160 24.5 622 25.5 648

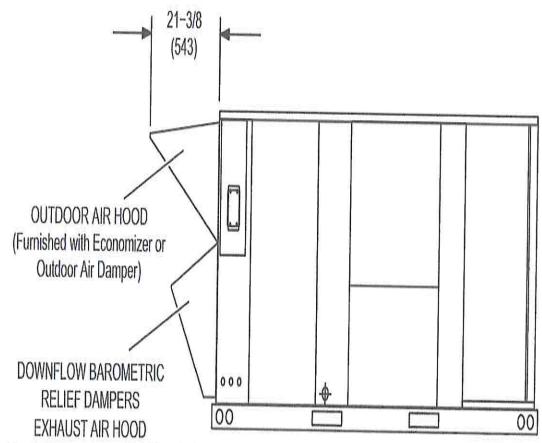
Base Unit. The unit with NO INTERNAL OPTIONS.

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





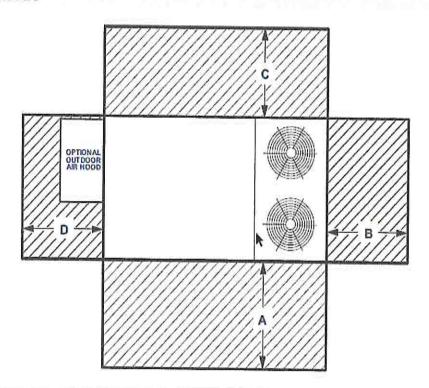
OUTDOOR AIR HOOD DETAIL



(Furnished with Economizer, Field Installed)



UNIT CLEARANCES



1 Unit Clearance		A		В		С		D	Top	
onit dicardince	in.	mm	in.	mm	in.	mm	in.	mm	Clearance	
Service Clearance	60	1524	36	914	36	934	60	1524	Service Control of the Control	
Clearance to Combustibles	36	914	1	25	1	25	1	25	Unobstructed	
Minimum Operation Clearance	36	914	36	914	36	914	36	914	Onobstructed	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

! 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.



RTU-1

Model:

LGT150H4E - LGT150H4E-Y 12.5T CONF E=10.8

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Tti/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP	EAT DB/WB	LAT DB/WB
208V 3Ph 60Hz	14.6 10.8	61 / 80	146.1 / 108.1	133.2 / 95.2	5,000	(in.WC) 0.50 / 1.41	("F) 80.0 / 67.0	(°F) 59.1 / 57.4

Coolin	g Performance	Toma	eratures (DB/WB °F)	
Gross Cooling (Ttl/Sens) Net Cooling (Ttl/Sens) Coil Moisture Removal System Moisture Removal	146.1 / 108.1 MBH 133.2 / 95.2 MBH 35.80 lb/hr 35.80 lb/hr	Ambient Entering Total Leaving – (Coil) Total Leaving – (Unit)	95.0 80.0 59.1 61.6	67.0 57.4 58.3

ARI	Performance	Compres	sors		Refrigerant		
ARI Cooling ARI Power	141.0 / 136.0 MBH 12,500 W	Cooling Stages Compressor Qty Compressor RLA	3 2 40.2 amp	Type Charge	R-410A 0.0	Oty Size	1 1 in

Humiditrol Dehumic	lification Performance	Temper	atures (DB/WB °F)	
Gross Cooling - Stage 1(Ttl/Sens)	23.7 / 11.4 MBH	Ambient	95.0	
Gross Cooling - Stage 2 (Ttl/Sens)	90.4 / 57.9 MBH	Entering	80.0	67.0
Moisture Removal - Stage 1	11.6 lb/hr	Total Leaving – (Stage 1)	77.8	65.6
Moisture Removal - Stage 2	30.7 lb/hr	Total Leaving - (Stage 2)	68.9	61.3

	ng Performance	Temperati	res (DB/WB °F)	Specifica	tions
Output (High/Low) Input (High/Low) Gas Heat Rise	144.0 / 93.6 MBH 180.0 / 117.0 MBH 26.7 °F	Total Leaving	26.7	Heat Stages Thermal Efficiency Gas Line Size Gas Pressure	2 81.0% 0.75 in.

	Flow (cfm)		Supply Fan	Air Resistance (in.WC)	
Supply	5,000 0	Nominal Power Required Power Drive Type Required Watts	3.75 hp 4.07 hp ECM Direct Drive 3,035 W	Total Ext Supply	1,4° 0.50

Wet Coil Humiditrol Heat Economics File			2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
red conomizer Filters Diffuser Eulerust	et Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW

VI. I.				
Voltage MCA MOCP Condenser Power Oper Range-Nom Volt	208V 3Ph / 60Hz 61 amp 80 amp 1000 W +/- 10%	Compressor RLA Cooling FLA Total Condenser FLA Supply Fan FLA	40.2 amp 55.0 amp 6.0 amp 8.8 amp	*

Cabinet 101.25 in. x 60.12 in, x 46.88 in. Horizontal Supply 15.5 in. x 30.0 in. Horizontal Return 15.5 in. x 30.0 in. Filters (4) 20.0 in. x 25.0 in. x 2.0 in. Sound Rating 90 dBA	Total Weight Base Unit Net Weight OAS/Econ Weight Humiditrol Weight Gas Heat Weight	1,262 lb 1,150 lb 83 lb 20 lb 9 lb	
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RTU-1

Factory Installed Options

High Performance Economizer Upgrade Factory Installed Dual Enthalpy High Performance Economizer Direct Drive Unit Orientation Horizontal Supply Fan: Multi-Speed ECM Direct Drive 208/220/230/240V 3Phase 80Amp Non-Fused Disconnect Factory Installed Built-in BACnet IP and MS/TP (standard) Supply Motor - 3.75 Hp - DirectPlus w/MSAV 180K A.S. (Dual Stage) Hinged Access Doors Factory Installed 15A GFCI Factory Installed/Field Wired Dirty Filter Switch Factory Installed Fresh Air Tempering Factory Installed Supply Air Smoke Detector Factory Installed Return Air Smoke Detector Factory Installed

Environ Condenser Coil System Factory Installed

Field Installed Accessories

Humiditrol Factory Installed 2" MERV4 - Std. Filter Factory Installed

Catalog Number	Qty	Description	DESCRIPTION OF THE
53K04	1	Horiz Barometric Relief Dampers Field Installed	
51W25	1	Horizontal Discharge Kit Field Installed	

Product Features

Cabinet

Hinged Access Panels
Durable Outdoor Enamel Paint Finish
Totally Enclosed Outdoor Fan Motor
PVC Coated Fan Guard
Corrosion-Resistant Removable, Reversible Drain Pan
Isolated Compressor Compartment

Cooling System

Scroll Compressor
Expansion Valves
High Capacity Driers
Crankcase Heater
System can operate from 0°F to 125°F without any additional controls
Pre-charged Refrigeration System
Timed Off Control
Internal Pressure Relief Valve
Humiditrol - Hot Gas Reheat Dehumidification System

Heating System Redundant Automatic Gas Valve with Manual Shut-off

Electronic Flame Sensor
Direct Spark Ignition
Inshot Burners
AGA-CGA Certified
If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

Control System

Fan and Limit Controls
Overload Protection
Microprocessor Controls – Lennox® CORE Control System
Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System
Built-in BACnet IP & MS/TP
Phase/Voltage Detection
Return Air Sensor Factory Installed
Outdoor Air Sensor Factory Installed
Factory Installed Discharge Air Sensor



Compliance

Components are Bonded for Grounding
Factory Test Operated
All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8
All models meet DOE 2018 and 2023 energy efficiency standards
Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow
Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019
California Building Code (CBC) ASCE 7, and ICC-ES AC156
ISO 9001 Registered Manufacturing Quality System

Warranty

Limited warranty on aluminized heat exchanger of 10 years Limited warranty on compressor of 5 years Limited warranty on Environ Coll System of 3 years Limited warranty on High Performance Economizer of 5 years Limited warranty on all other components of 1 year See Limited Warranty Certificate included with unit for details Limited warranty on Lennox® CORE Control System of 3 years



			Corner W	eights (lb)					Center of	Gravity (in.	.)
A	A	В	В	C	C	D	D	THE RESERVE AND ADDRESS OF THE PARTY OF THE	E	F	Will be the second
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Мах
316	359	284	314	304	393	345	393	46.50	45.50	24.50	25.50

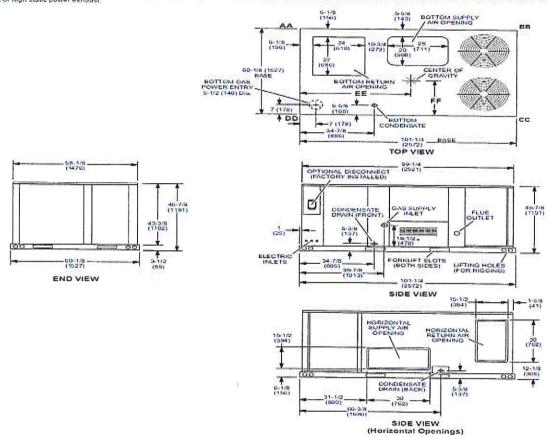
DI	M	EN	S	10	NS
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		٠	٠	-

	COR	NER	WE	GHT	'S			222871.00									CENT	TER C	FGR	AVITY				
Model	5,51130	A	A			. 0	隙			C	c				00	_		E	E			F	F	
No.	80		Me		Ba		Me		Be		Ma		Ba		M:	ax.	B	120	M	nx.	В	20	M	nx.
	Iba.	kg	ibs.	kg	lbs.	kg	Iba.	kg	lbs.	kg	Iba.	ka	Ibs.	ka	lbs.	ka	in.	mm	In.	mm	In.	mm	1	
092	293	133	338	153	263	119	295	134	286	130	316	143	326	148	370	1658	46 5	1181	46.6	4466	24.5	600	OF F	40 4 40
102	2244	134	340	154	265	150	297	135	288	131	318	144	328	1.4.0	370	********	A 645 M.	1.1.01	46 C	10 1 10 10	474 A 40	Are this loss	200	0.40
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	303	178	46.5	1101	45.5	1150	24.5	622	20.5	040

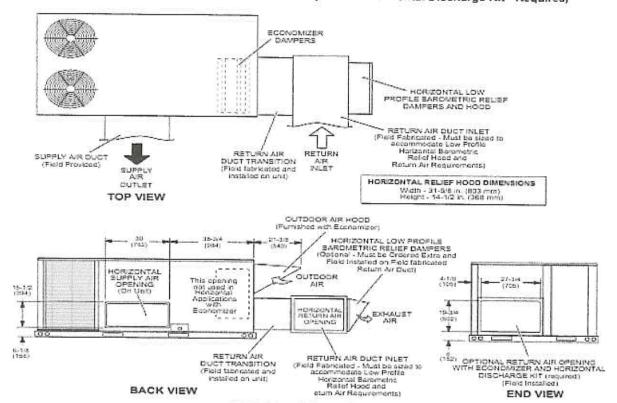
E a s ş

Base Unit - The unit with NO INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessomes external to unit or high static power exhaust.





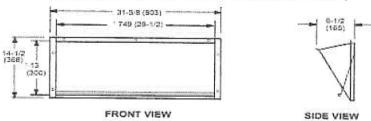
HORIZONTAL ECONOMIZER APPLICATION (with Optional Low Profile Horizontal Barometric Relief Dampers and Horizontal Discharge Kit - Required)



NOTE - Return Air Duct and Transition must be supported.

HORIZONTAL LOW PROFILE BAROMETRIC RELIEF DAMPERS

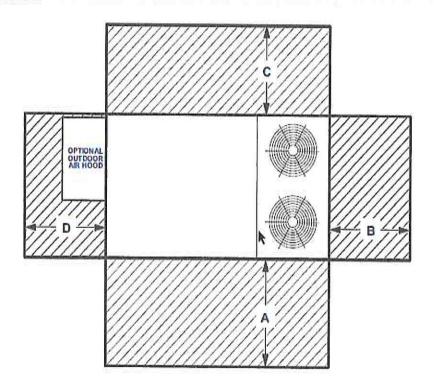
(Field installed in horizontal return air duct adjacent to unit)



^{&#}x27; NOTE - Opening size required in return air duct.



UNIT CLEARANCES



¹ Unit Clearance		A		В		С		D	Тор
Onit Clearance	in.	mm	in.	mm	in.	mm	in.	mm	Clearance
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.

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.



Kit -1

Model:

LGT210H4M - LGT210H4M-Y 17.5T CONF E=12.0

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB	LAT DB/WB
208V 3Ph 60Hz	16 12	90 / 100	218.8 / 166.3	206.8 / 154.3	7,000	0.80 / 1.07	(°F) 80.0 / 67.0	(°F) 57.0 / 56.6

Coolin	g Performance	Tomp	eratures (DB/WB "F)	AVAILATE NEEDS
Gross Cooling (Ttl/Sens) Net Cooling (Ttl/Sens) Coil Maisture Removal	218.8 / 166.3 MBH 206.8 / 154.3 MBH 49.49 lb/hr	Ambient Entering Total Leaving – (Coil)	95.0 80.0 57.0	67.0 56.6
System Moisture Removal	49.49 lb/hr	Total Leaving – (Coli)	58.7	57.3

ARI	Performance	Compres	iors	II Textest now her	Refrigerant	Condensa	to Drain
ARI Cooling ARI Power	206.0 / 200.0 MBH 16,600 W	Cooling Stages Compressor Qty Compressor RLA	4 4 48 amp	Type Charge	R-410A 0.0	Qty Size Pipe Thread	1 1 in, FPT

Humiditrol Dehumic	lification Performance	Temper	etures (DB/WB °F)	W-1000
Gross Cooling - Stage 1(Ttl/Sens)	39.7 / 30.2 MBH	Ambient	95.0	
Gross Cooling - Stage 2 (Ttl/Sens)	124.1 / 64.5 MBH	Entering	80.0	67.0
Moisture Removal - Stage 1	9.0 lb/hr	Total Leaving – (Stage 1)	75.8	65.3
Moisture Removal - Stage 2	56.2 lb/hr	Total Leaving – (Stage 2)	71.1	61.5

	ng Performance	Temperatu	res (DB/WB °F)	Specifica	tions
Output (High/Low) Input (High/Low) Gas Heat Rise	.211.0 / 69.0 MBH 260.0 / 85.0 MBH 27.9 °F	Total Leaving	27.9	Heat Stages Thermal Efficiency Gas Line Size Gas Pressure	2 81.0% 1 in. 7 in.WC

Air Flow (cf	(m)		Supply Fan		tance (in.WC)
Supply	7,000	Nominal Power Required Power Drive Type RPM Range Required RPM	5.00 hp 4.13 hp MSAV Belt Drive 850 - 1,045 rpm 911 rpm	Total Ext Supply	1.07 0.80

R RESISTANC	CE - OPTIONS/A	CCESSORIES (in	.WC)		THE STATE OF THE S	THE PROPERTY OF THE PROPERTY OF	ON VIETERS
Wet Coll	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.10	0.04	0.09	0.04		- STANSON	Exhaust	ERVV

Voltage	208V 3Ph / 60Hz	Compressor RLA	48.0 amp
MCA	90 amp	Cooling FLA Total	75.1 amp
MOCP	100 amp	Condenser FLA	10.4 amp
Condenser Power Oper Range-Nom Volt	1500 W +/- 10%	Supply Fan FLA	16.7 amp

Cabinet	122 62 in v 01 12 in v 64 25 in	The second second		
	132.62 in. x 91.12 in. x 54.25 in.	Total Weight	2,806 lb	
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	2,569 lb	
Downflow Return	15.0 in. x 60.5 in.	OAS/Econ Weight	167 lb	
Filters	(6) 24.0 in. x 24.0 in. x 2.0 in.	Exaust Weight	20 lb	
Sound Rating	94 dBA			
Journa Rating	94 QBA	Humiditrol Weight	50 lb	



Kit -1

Factory Installed Options

High Performance Economizer Upgrade Factory Installed Single Sensible High Performance Economizer Belt Drive Unit Orientation Downflow Supply Fan: Multi-Stage Air Volume Belt 208/220/230/240V 3Phase 150Amp Non-Fused Disconnect Factory Installed Built-in BACnet IP and MS/TP (standard) Supply Motor - 5.0 Hp Std- w/ MSAV Supply Drive Kit 4 (850-1045 RPM) Barometric Relief Damper Factory Installed 260K S.S. (Dual Stage) Hinged Access Doors Factory Installed Dirty Filter Switch Factory Installed Fresh Air Tempering Factory Installed Supply Air Smoke Detector Factory Installed Return Air Smoke Detector Factory Installed Environ Condenser Coil System Factory Installed

Product Features

Humiditrol Factory Installed 2" MERV4 - Std. Filter Factory Installed

Cabinet

Hinged Access Panels
Durable Outdoor Enamel Paint Finish
Totally Enclosed Outdoor Fan Motor
PVC Coated Fan Guard
Corrosion-Resistant Drain Pan
Isolated Compressor Compartment

Cooling System

Scroll Compressor
Expansion Valves
High Capacity Driers
Crankcase Heater
System can operate from 0°F to 125°F without any additional controls
Pre-charged Refrigeration System
Timed Off Control
Internal Pressure Relief Valve
Building Automation Integrated Control - Up to 4 Stages of Cooling
Thermostat Control - 4 Stages of Cooling
Humiditrol - Hot Gas Reheat Dehumidification System

Heating System

Redundant Automatic Gas Valve with Manual Shut-off Electronic Flame Sensor Direct Spark Ignition Inshot Burners AGA-CGA Certified

Control System Fan and Limit Controls

Overload Protection
Microprocessor Controls – Lennox® CORE Control System
Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System
Built-in BACnet IP & MS/TP
Phase/Voltage Detection
Return Air Sensor Factory Installed

Compliance

Outdoor Air Sensor Factory Installed Factory Installed Discharge Air Sensor

Components are Bonded for Grounding
Factory Test Operated
All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8



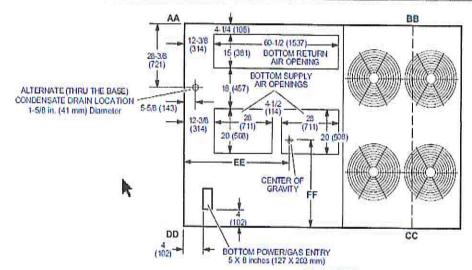
All models meet DOE 2018 and 2023 energy efficiency standards
Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow
Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019
California Building Code (CBC) ASCE 7, and ICC-ES AC156
ISO 9001 Registered Manufacturing Quality System

Warranty

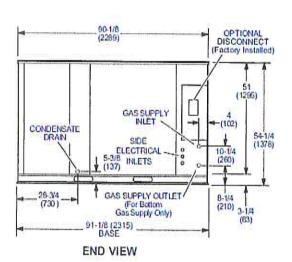
Limited warranty on stainless steel heat exchanger of 15 years Limited warranty on compressor of 5 years Limited warranty on Environ Coll System of 3 years Limited warranty on High Performance Economizer of 5 years Limited warranty on all other components of 1 year See Limited Warranty Certificate included with unit for details Limited warranty on Lennox® CORE Control System of 3 years

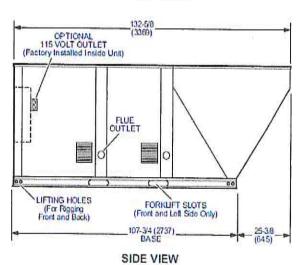


			Corner W	eights (lb)				Separate Se	Center of	Gravity (in	A COLUMN
A	A	В	В	C	C	D	D	OUNE LINE	E		F
Base	Max	Base	Max	Base	Мах	Base	Max	Base	Max	Base	Мах
512	624	620	709	787	809	650	712	58 99	5731	40.16	42.54



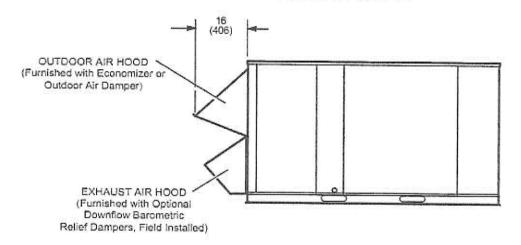
TOP VIEW





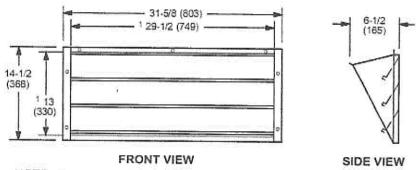


OUTDOOR AIR HOOD DETAIL



OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS WITH HOOD

(Field installed in horizontal return air duct adjacent to unit)

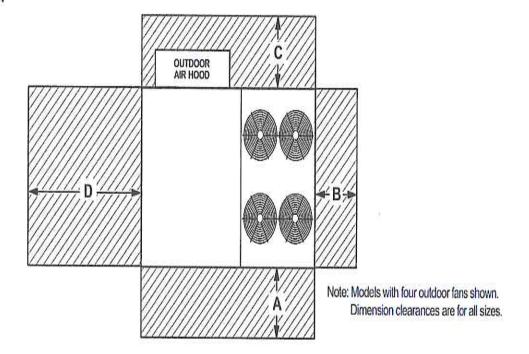


NOTE - Two furnished per order no.

NOTE - Opening size required in return air duct.



Unit With Economizer



¹ Unit Clearance	A			В		С		D	Тор	
Offit Officiality	in.	mm	in.	mm	in.	mm	in.	mm	Clearance	
Service Clearance	60	1524	36	914	36	934	66	1676		
Clearance to Combustibles	36	914	1	25	1	25	1	25	Unobstructed	
Minimum Operation Clearance	45	1143	36	914	36	914	41	1041		

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

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.



Porch -5

Model:

LGT120H4E - LGT120H4E-Y 10T CONF E=12.1

UNIT OVE	RVIEW							
Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Tti/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (In.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
208V 3Ph 60Hz	15,5 12.1	52 / 60	121.9 / 89.0	114.1 / 81.2	4,000	0.50 / 1.09	80.0 / 67.0	58.5 / 56.9

Coolin	g Performance	Temps	eratures (DB/WB "F)	
Gross Cooling (Ttl/Sens)	121.9 / 89.0 MBH	Ambient	95.0	
Net Cooling (Ttl/Sens)	114.1 / 81.2 MBH	Entering	80.0	67.0
Coil Moisture Removal	31.02 lb/hr	Total Leaving - (Coil)	58.5	56.9
System Moisture Removal	31.02 lb/hr	Total Leaving – (Unit)	60,4	57.6

ARI	Performance	Compres	sors	ATTENDED TO	Refrigerant	Condensate	Drain
ARI Cooling ARI Power	117.0 / 114.0 MBH 9,500 W	Cooling Stages Compressor Qty Compressor RLA	3 2 32.7 amp	Type Charge	R-410A 0.0	Qty Size Pipe Thread	1 1 in, npt

Humiditrol Dehumid	ification Performance	Temper	atures (DB/WB *F)	
Gross Cooling - Stage 1(Ttl/Sens)	23.4 / 11.0 MBH	Ambient	95.0	
Gross Cooling - Stage 2 (Ttl/Sens)	72.4 / 39.1 MBH	Entering	80.0	67.0
Moisture Removal - Stage 1	11.7 lb/hr	Total Leaving - (Stage 1)	77.3	65.2
Moisture Removal - Stage 2	31,4 lb/hr	Total Leaving - (Stage 2)	70.6	613

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low) Input (High/Low) Gas Heat Rise	144.0 / 93.6 MBH 180.0 / 117.0 MBH 33.3 °F	Total Leaving	33.3	Heat Stages Thermal Efficiency Gas Line Size Gas Pressure	2 81,0% 0.75 in, 7 in,W0

Air Flow (cfm)			Supply Fan		Air Resistance (in.WC)	
Supply	4,000 0	Nominal Power Required Power Drive Type Required Watts	3.75 hp 2.46 hp ECM Direct Drive 1,831 W	Total Ext Supply	1.09 0.50	

R RESISTANC	CE - OPTIONS/AC	CESSORIES (in	.WC)				
Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.14	0.05	0,21	0.19				51117

Voltage	208V 3Ph / 60Hz	Compressor RLA	32.7 amp	
MCA	52 amp	Cooling FLA Total	47.5 amp	
MOCP	60 amp	Condenser FLA	6.0 amp	
Condenser Power	1000 W	Supply Fan FLA	8.8 amp	
Oper Range-Nom Volt	+/- 10%	Pro tentien	o.o amp	

Downflow Supply Downflow Return Filters	101.25 in. x 60.12 in. x 46.88 in. 20.0 in. x 28.0 in. 24.0 in. x 27.0 in. (4) 20.0 in. x 25.0 in. x 2.0 in. 90 dBA	Total Weight Base Unit Net Weight OAS/Econ Weight Exaust Weight Humiditrol Weight Gas Heat Weight	1,250 lb 1,130 lb 83 lb 8 lb 20 lb 9 lb	
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Porch -5

Factory Installed Options

High Performance Economizer Upgrade Factory Installed Single Sensible High Performance Economizer Direct Drive Unit Orientation Downflow Supply Fan: Multi-Speed ECM Direct Drive 208/220/230/240V 3Phase 80Amp Non-Fused Disconnect Factory Installed Built-in BACnet IP and MS/TP (standard) Supply Motor - 3.75 Hp - DirectPlus w/MSAV Barometric Relief Damper Factory Installed 180K S.S. (Dual Stage) Return Air Adaptor Plate Factory Installed Hinged Access Doors Factory Installed 15A GFCI Factory Installed/Field Wired Dirty Filter Switch Factory Installed

Fresh Air Tempering Factory Installed

Supply Air Smoke Detector Factory Installed

Environ Condenser Coil System Factory Installed

Humiditrol Factory Installed

2" MERV4 - Std. Filter Factory Installed

Product Features

Cabinet

Hinged Access Panels **Durable Outdoor Enamel Paint Finish** Totally Enclosed Outdoor Fan Motor PVC Coated Fan Guard Corrosion-Resistant Removable, Reversible Drain Pan Isolated Compressor Compartment

Cooling System

Scroll Compressor Expansion Valves High Capacity Driers Crankcase Heater

System can operate from 0°F to 125°F without any additional controls

Pre-charged Refrigeration System

Timed Off Control

Internal Pressure Relief Valve

Humiditrol - Hot Gas Reheat Dehumidification System

Heating System

Redundant Automatic Gas Valve with Manual Shut-off

Electronic Flame Sensor

Direct Spark Ignition

Inshot Burners

AGA-CGA Certified

If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

Control System

Fan and Limit Controls

Overload Protection

Microprocessor Controls - Lennox® CORE Control System

Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System

Built-in BACnet IP & MS/TP

Phase/Voltage Detection

Return Air Sensor Factory Installed

Outdoor Air Sensor Factory Installed

Factory Installed Discharge Air Sensor

Compliance

Components are Bonded for Grounding

Factory Test Operated

All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8 All models meet DOE 2018 and 2023 energy efficiency standards



Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019 California Building Code (CBC) ASCE 7, and ICC-ES AC156 ISO 9001 Registered Manufacturing Quality System

Warranty

Limited warranty on stainless steel heat exchanger of 15 years Limited warranty on compressor of 5 years Limited warranty on Environ Coil System of 3 years Limited warranty on High Performance Economizer of 5 years Limited warranty on all other components of 1 year See Limited Warranty Certificate included with unit for details Limited warranty on Lennox® CORE Control System of 3 years

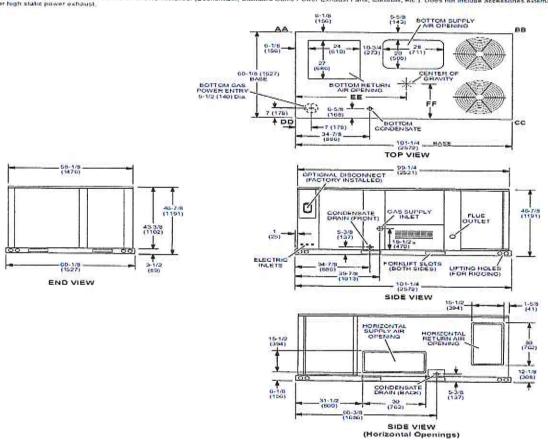


		Name of the last o	Corner W	eights (lb)					Center of	Gravity (in	.)
A	A	В	В	C	C	D	D	N 10 TO LET			F
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Мах
306	349	275	305	295	326	334	382	46.50	45.50	24.50	25.50

870 W 88	COR	NER	WE	GHT	\$			-	Total Co.								CENT	TERC	FGR	AVITY				רואו
Nodel	200	A	A		7-1	В	8			C	C			- 0	O.O.	13/25		E	E			F	F	
No.	Ba	20	Ma	æ,	Ba	00	ME	ж.	Ba	20	Ma	ıx.	Ba	90	Ma	×.	Be	150	M	ax.	B.	se.	M	ax.
			Ibs.		Iba.		iba.		Ibs.		lbs.	kg	Iba.	ke	Ibs.	ka	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			25.5	
102			340				297			131					372		46.5		45.5			622	THE PARTY NAMED IN COLUMN	648
120	300	139	349	158	275	125	305	138	295	134	326	148	334	152						1156			25.5	
150			350				314										Transferance and	110	40.0	1156		622		

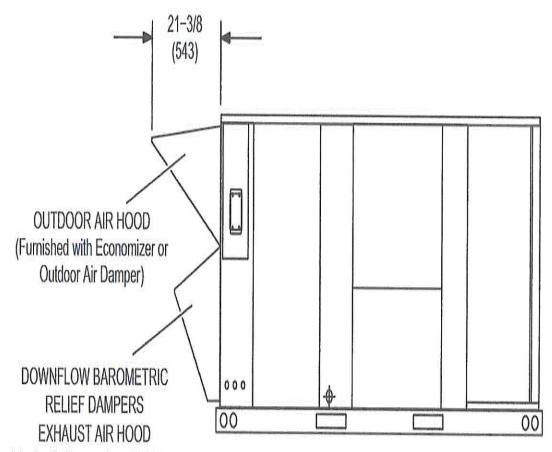
Base Unit - The unit with NO INTERNAL OPTIONS.

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 oxhaust.





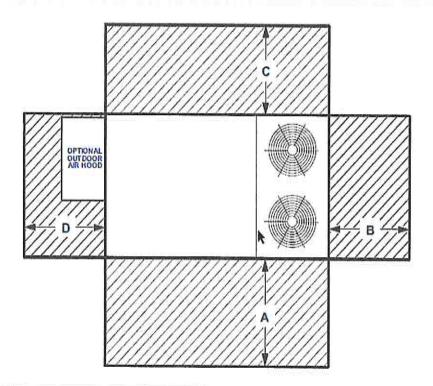
OUTDOOR AIR HOOD DETAIL



(Furnished with Economizer, Field Installed)



UNIT CLEARANCES



¹ Unit Clearance	0.000	A		В		С		D	Тор	
Offit Clearance	in.	mm	in.	mm	in.	mm	in.	mm	Clearance	
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.

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.



Lobby - 4

Model:

LGT072H4E - LGT072H4E-Y 6T CONF E=12.2

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow	ESP/TSP	DB/WB	LAT DB/WB
	17	, and a	(WIDITY)	(MBH)	(cfm)	(in.WC)	(°F)	(°F)
208V 3Ph 60Hz	12.2	30 / 45	73.9 / 56.9	70.0 / 53.0	2,400	0.50 / 0.80	80.0 / 67.0	57.1 / 56.

Coolin	g Performance	Temps	eratures (DB/WB "F)	O MAPS THREE PLANS
Gross Cooling (Ttl/Sens)	73.9 / 56.9 MBH	Ambient	95.0	
Net Cooling (Ttl/Sens)	70.0 / 53.0 MBH	Entering	80.0	67.0
Coil Moisture Removal	16.02 lb/hr	Total Leaving - (Coil)	57.1	56.8
System Moisture Removal	16.02 lb/hr	Total Leaving - (Unit)	58.7	57.4

ARI	Performance	Compress	sors	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Refrigerant	Condensate	Drain
ARI Cooling ARI Power	72.0 / 69.0 MBH 5,600 W	Cooling Stages Compressor Qty Compressor RLA	2 1 17,6 amp	Type Charge	R-410A 5 LBS. 14 OZ.	Qty Size Pipe Thread	1 1 in.

Humiditrol Dehumid	lification Performance	Tempera	stures (DB/WB °F)	
Gross Cooling - Stage 1(Ttl/Sens)	13.5 / 13.5 MBH	Ambient	95.0	
Moisture Removal - Stage 1	lb/hr	Entering	80.0	67.0
		Total Leaving – (Stage 1)	74.6	65.3

	ng Performance	Temperatures (DB/WB °F)		Specifications	
Output (High/Low) Input (High/Low) Gas Heat Rise	121.0 / 92.0 MBH 150.0 / 113.0 MBH 46.3 °F	Total Leaving	46.3	Heat Stages Thermal Efficiency NOX Gas Line Size Gas Pressure	2 81.0% 0.5 in. 7 in.WC

Air Flow (cfm)			Supply Fan	Air Resistance (in.WC)	
Supply	2,400 0	Nominal Power Required Power Drive Type Required Watts	1.50 hp 1.23 hp MSAV Direct Drive 916 W	Total Ext Supply	0.80 0.50

R RESISTAN	CE - OPTIONS/AC	CESSORIES (in.	WC)				Winter Carlo
Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.13	0.04	0.08	0.05			LAHOUST	LISTY

ELECTRICAL				Marie Mend
Voltage MCA MOCP Condenser Power Oper Range-Nom Volt	208V 3Ph /60Hz 30 amp 45 amp 350 W +/- 10%	Compressor RLA Cooling FLA Total Condenser FLA Supply Fan FLA	17.6 amp 24.8 amp 2.8 amp 4.4 amp	

Cabinet	85.25 in. x 47.00 in. x 46.88 in.	Total Weight	807 lb	
Downflow Supply	20.0 in, x 18.0 in.	Base Unit Net Weight	630 lb	
Downflow Return	29.0 in. x 11.0 in.	OAS/Econ Weight	131 lb	
Filters	(4) 20.0 in. x 20.0 in. x 2.0 in.	Humiditrol Weight	27 lb	
Sound Rating	82 dBA	Gas Heat Weight	19 lb	



Tag: Lobby - 4

Factory Installed Options

High Performance Economizer Upgrade Factory Installed Single Sensible High Performance Economizer Direct Drive Unit Orientation Downflow Supply Fan: Multi-Speed ECM Direct Drive 208/220/230/240V 3Phase 80Amp Non-Fused Disconnect Factory Installed Built-in BACnet IP and MS/TP (standard) Supply Motor - 1.5 Hp ECM - w/ MSAV 150K S.S. (Dual Stage) Low Nox Factory Installed Hinged Access Doors Factory Installed 15A GFCI Factory Installed/Field Wired Dirty Filter Switch Factory Installed Fresh Air Tempering Factory Installed Supply Air Smoke Detector Factory Installed Environ Evaporator and Condenser Coil System Factory Installed

Product Features

Humiditrol Factory Installed 2" MERV4 - Std. Filter Factory Installed

Cabinet

Hinged Access Panels
Durable Outdoor Enamel Paint Finish
Totally Enclosed Outdoor Fan Motor
PVC Coated Fan Guard
Corrosion-Resistant Removable, Reversible Drain Pan
Isolated Compressor Compartment

Cooling System

Scroll Compressor
Expansion Valves
High Capacity Driers
Crankcase Heater
System can operate from 0°F to 125°F without any additional controls
Pre-charged Refrigeration System
Timed Off Control
Internal Pressure Relief Valve
Thermostat Control – 2 Stages of Cooling

Heating System

Redundant Automatic Gas Valve with Manual Shut-off Electronic Flame Sensor Direct Spark Ignition Inshot Burners AGA-CGA Certified

Humiditrol - Hot Gas Reheat Dehumidification System

If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

Control System

Fan and Limit Controls Overload Protection

Microprocessor Contrals - Lennox® CORE Control System

Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System

Built-in BACnet IP & MS/TP

Return Air Sensor Factory Installed

Outdoor Air Sensor Factory Installed

Factory Installed Discharge Air Sensor

Compliance

Components are Bonded for Grounding

Factory Test Operated

All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8 All models meet DOE 2018 and 2023 energy efficiency standards

Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow



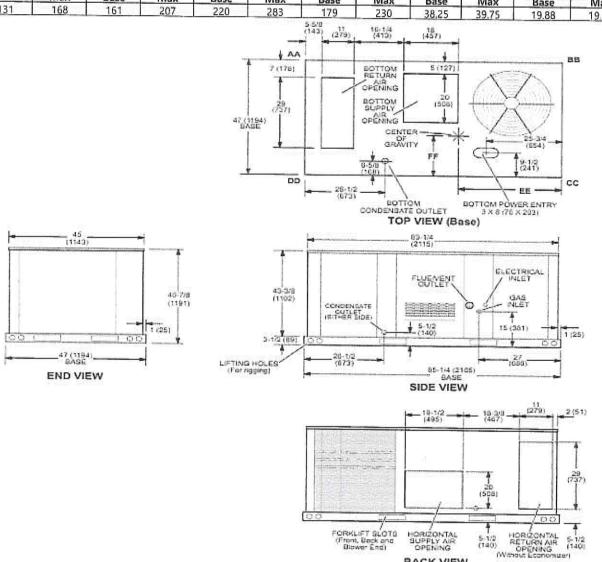
Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019 California Building Code (CBC) ASCE 7, and ICC-ES AC156 ISO 9001 Registered Manufacturing Quality System

Warranty

Limited warranty on stainless steel heat exchanger of 15 years Limited warranty on compressor of 5 years Limited warranty on Environ Coil System of 3 years Limited warranty on High Performance Economizer of 5 years Limited warranty on all other components of 1 year See Limited Warranty Certificate included with unit for details Limited warranty on Lennox® CORE Control System of 3 years



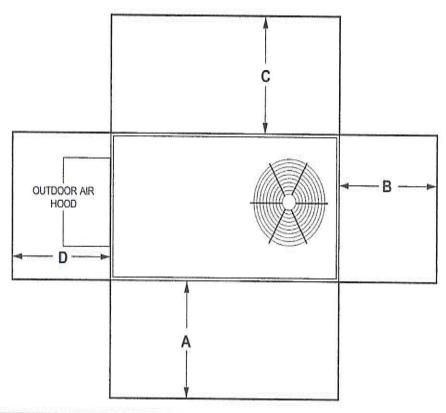
	Corner Weights (lb)									Center of Gravity (in.)			
A	A	В	В	C	C	D	D	The state of the s	E	F	AND DESCRIPTION OF THE PERSON		
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max		
131	168	161	207	220	283	179	230	38.25	39.75	19.88	19.8		



BACK VIEW



UNIT CLEARANCES



1 Unit Clearance		A		В		С		D	Тор	
Offic Greatance	in.	mm	in.	mm	in.	mm	in.	mm	Clearance	
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.

Clearance to Combustibles - Required clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.

¹ Service Clearance - Required for removal of serviceable parts.



RTU 9

Model:

ZGB036S4E - ZGB036S4E 108k .5hp ENV

	SEER EER	MCA/MOCP	Gross Cooling Ttl/Sens	Net Cooling Ttl/Sens	Supply Air Flow	ESP/TSP	EAT DB/WB	LAT DB/WB
Voltage		(amp)	(MBH)	(MBH)	(cfm)	(In.WC)	(°F)	(°F)
208V 3Ph 60Hz	14 11.7	18 / 25	36.7 / 28.3	35.5 / 27.1	1,290	0.50 / 0.59	80.0 / 67.0	57.9 / 57.2

Coolin	g Performance	Temperatures (DB/WB °F)				
Gross Cooling (Ttl/Sens)	36.7 / 28.3 MBH	Ambient	95.0			
Net Cooling (Ttl/Sens)	35.5 / 27.1 MBH	Entering	80.0	67.0		
Coil Moisture Removal	7.85 lb/hr	Total Leaving - (Coil)	57.9	57.2		
System Moisture Removal	7.85 lb/hr	Total Leaving - (Unit)	58.9	57.5		

ARI	Performance	Compressors		Refrigerant		Condensate Drain	
ARI Cooling ARI Power	36.2 / 35.0 MBH 3,000 W	Cooling Stages Compressor Qty Compressor RLA	1 1 8.7 amp	Type Charge	R-410A 5 LBS. 2 OZ.	Qty Size Pipe Thread	1 1 in

	ng Performance	Temperatu	res (DB/WB °F)	Specifica:	tions
Output (High/Low) Input (High/Low) Gas Heat Rise	86.0 / 0.0 MBH 108.0 / 0.0 MBH 61.7 °F	Total Leaving	61,7	Heat Stages Thermal Efficiency Gas Line Size Gas Pressure	1 80.0% 0.5 in. 7 in W

Air Flow (cfm)		وداويت الإمالياتيان الملكة	Supply Fan	Air Resistance (in,WC)		
Supply	1,290 0	Nominal Power Required Power Drive Type Speed	0.50 hp 0.50 hp ECM Direct Drive 4	Total Ext Supply	0.59 0.50	

AIR RESISTANO	CE - OPTIONS/AC	CESSORIES (in.	.WC)	NIV DALIVE I AVEN		era Maluria Asami	80 A/7 SV (NEW
Wet Coll	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.02		0.06				SAIMMAN	LINOV

ELECTRICAL				No. of Concession,
Voltage MCA MOCP Condenser Power Oper Range-Nom Volt	208V 3Ph / 60Hz 18 amp 25 amp 310 W +/- 10%	Compressor RLA Cooling FLA Total Condenser FLA Supply Fan FLA	8.7 amp 15.0 amp 1.7 amp 4.6 amp	

Cabinet	75.88 in. x 47.25 in. x 36.88 in.	Total Weight	561 lb	
Dawnflow Comple			77477 131 Tab	
Downflow Supply	12.1 in. x 17.8 in.	Base Unit Net Weight	524 lb	
Downflow Return	25.6 in. x 10.9 in.	OAS/Econ Weight	29 lb	
Filters	(4) 14.0 in, x 20.0 in, x 2.0 in.	Gas Heat Weight	8 lb	
Sound Rating	77 dBA	Sus ricut right	0.10	



RTU 9

Factory Installed Options

Standard Cap, Std Packaging
Direct Drive
Unit Orientation Downflow
Supply Fan: Multi-Speed ECM Direct Drive
208/220/230/240V 3Phase
Supply Motor - 0.50 Hp ECM - Multi-Speed Direct Drive
108K A.S. (Single Stage)
Non-Hinged Doors Factory Installed
Environ Condenser Coil System Factory Installed
2" MERV4 - Std. Filter Factory Installed

Field Installed Accessories

Catalog Number	Qty	Description
15D20	- 1	Manual OAD Field Installed

Product Features

Cabinet

Durable Outdoor Enamel Paint Finish Totally Enclosed Outdoor Fan Motor PVC Coated Fan Guard Corrosion-Resistant Drain Pan Isolated Compressor Compartment

Cooling System

Scroll Compressor
High Capacity Driers
Crankcase Heater
System can operate from 35°F to 125°F without any additional controls
Pre-charged Refrigeration System
Internal Pressure Relief Valve

Heating System Redundant Automatic Gas Valve with Manual Shut-off

Electronic Flame Sensor Direct Spark Ignition Inshot Burners If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

Control System

Fan and Limit Controls Overload Protection

Compliance

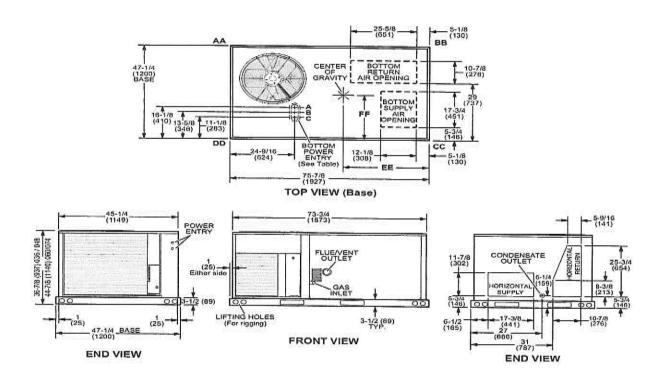
Components are Bonded for Grounding
Factory Test Operated
All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8
All models meet DOE 2018 and 2023 energy efficiency standards
ISO 9001 Registered Manufacturing Quality System

Warranty

Limited warranty on aluminized heat exchanger of 10 years Limited warranty on compressor of 5 years Limited warranty on Environ Coil System of 3 years Limited warranty on all other components of 1 year See Limited Warranty Certificate included with unit for details

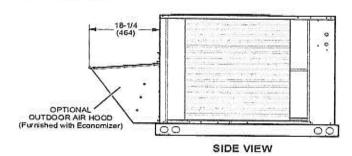


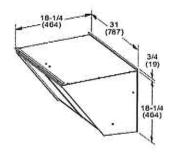
	Corner Weights (lb)									Center of Gravity (in.)			
A	Α	В	В		C	D	D	HALL SA - LOYE	A SECOND AND DESCRIPTION OF THE PERSON OF TH	The second second second second second	F		
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max		
129	147	124	141	133	150	138	156	38.75	36.75	22.75	24.50		





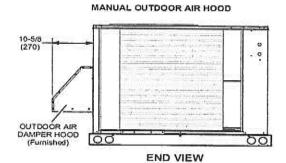
OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER (Downflow Applications)

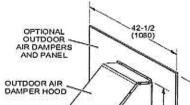




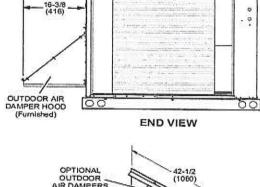
OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

(559)

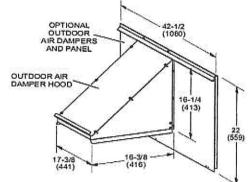




10-5/8 (270)



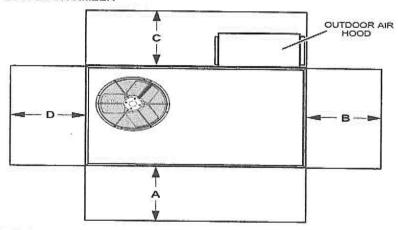
MOTORIZED OUTDOOR AIR HOOD



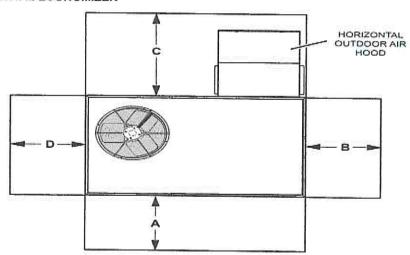


UNIT CLEARANCES

UNIT WITH DOWNFLOW ECONOMIZER



UNIT WITH HORIZONTAL ECONOMIZER



¹ Unit Clearance	A		В		C Downflow		C Horizontal		D		Тор
	in.	mm	in.	mm	ln.	mm	in.	mm	in.	mm	Clearance
Service Clearance	36	914	36	914	36	914	60	1524	36	914	Unobstructed
Clearance to Combustibles	36	914	1	25	1	25	1	25	1	25	
Minimum Operation Clearance	36	914	36	914	36	914	60	1524	36	914	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

Service Clearance - Required for removal of serviceable parts.

Minimum Operation Clearance - Required clearance for proper unit operation.