TOWN OF SALISBURY, CONNECTICUT HISTORIC DISTRICT COMMISSION

APPLICATION FOR CERTIFICATE OF APPROPRIATENESS

Appl. No	Name of property	Congregational Church	n of Salisbury, UCC
Ctf. Issued	Ctf . No	Property No	
an "Ordinace Esta adopted on Febru	by made for the issuance blishing Historic District ary 9, 1970 and enacted	s within the Town o	of Salisbury", duly abling authority
	ons 7-147(a) through 7-1		
	he proposed work descri		
this application:	ns, or drawings (where ap	opiicable of approp	riate), accompanying
emo appricación			
Address of propos	sed work 30 Main Street, Sa	lisbury, CT 06068	
Owner Congregation	nal Church of Owner's add	ress <u>30 Main Street, Sa</u>	alisbury, CT 06068
Salisbury, UC Applicant, if not o	CC wner		
Agent or contract	or MHR Development, LLC	(203) 228-6846	
Address_ P.O. Box 1	1034, New Canaan, CT 06840-	1034	
Proposed work is	in connection with:	a dwelling;an a	accessory building;
a commerc	cial building;an indu	strial building; <u>x</u>	other (specify) church
Nature and descri	iption of proposed work	(attach extra sheets	as necessary);
	ace one existing and install thre building foundation, please see		
Signature of Appl	icant Palor A	(Pastor	John Nelson)
Action taken:	\mathcal{O}		
Planning and Zon	ing Commission		Date
Building Inspecto	r		Date
Historic District C	commission		Date

Option A (East Side): HVAC Submission Summary - Historic Commission COA

One replacement and three new HVAC units to be located along the east wall of the church by the Library Street corner.

Note, due to clearance requirements, the existing propane tank may be moved farther to the back of the east wall closer to the Kitchen.

Dimensions of New Outdoor Units

	Sanctuary	Parish Hall 1st Floor	Parish Hall 2 nd Floor (Lennox Replacement)	Parish Hall 2 nd Floor (Remaining Rooms)
Width	48 13/16"	36 5/8"	35 7/16"	36 5/8"
Depth	29 29/32"	29 29/32"	14 9/16"	29 29/32"
Height	66 17/32"	66 17/32"	45 7/8"	66 17/32"

Note: Outdoor units will be mounted on concrete or stone pad (approximately 12" height)

LG-1: Outdoor unit to be located on the east wall of church by Library Street corner.

LG-2: Outdoor unit to be located on the east wall of church by Library Street corner. Exterior linesets will be run on the exterior of the north wall vertically from the height of the interior wall units and will run directly to the ground and into the building.

LG-3: Outdoor unit to be located on the east wall of church by Library Street corner. Lineset will be run up the exterior wall into attic space and covered with a line hide (similar to what is currently used for the existing air conditioning unit; however, it will be painted white and not brown).

LG-4: Existing Lennox unit to be replaced with new white colored outdoor unit located on the east wall of church. Lineset will be run up the exterior wall into attic space and covered with a line hide (similar to what is currently used for the existing air conditioning unit; however, it will be painted white and not brown).

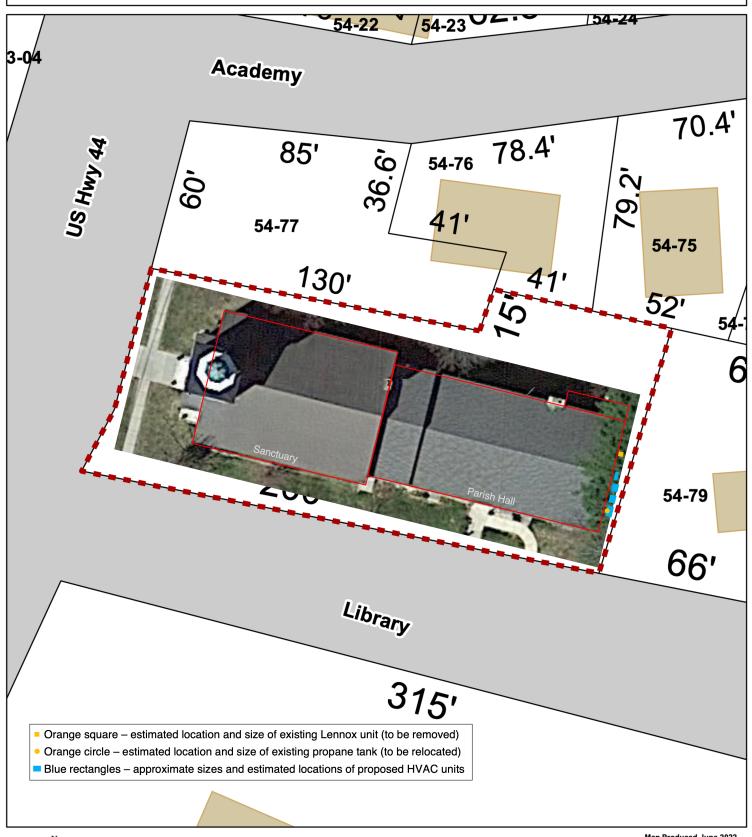
Estimated Existing Lennox Air Conditioner Dimensions: Width: 22 1/4"; Depth: 22 1/4"

Town of Salisbury, Connecticut - Assessment Parcel Map

Unique ID: 2589

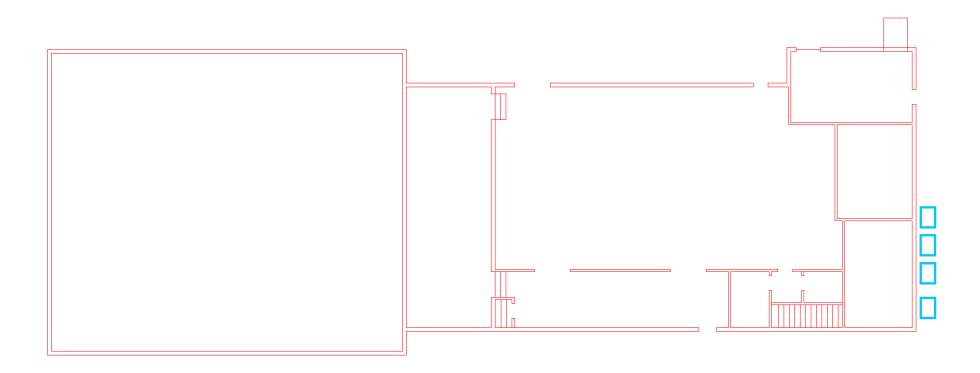
MBL: 54-78

Address: 30 MAIN STREET



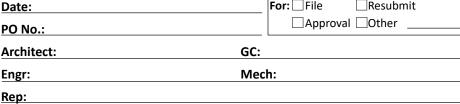


Outdoor Unit Layout



Job Name/Location: Salisbury Sanctuary		
Date:	For: ☐ File	Resubr
	Annroy	al Other

LG-1



(Project Manager)



ARUM121BTE5

Multi V™ 5 with LGRED° 208-230V ODU

10 Ton Single Frame Heat Pump and Heat Recovery

Performance:

Cooling Mode:

Nominal Capacity (Btu/h)	119,700
Power Input (kW)	7.72

Heating Mode:

Nominal Capacity (Bt	u/h)	135,000
Power Input (kW)		9.20

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Electrical:

Frame	ARUM121BTE5
Power Supply $(V/Hz/\cancel{Q})^1$	208-230/60/3
MOP (A)	40
MCA (A)	30.9
Rated Amps (A)	26.3
Compressor A (A)	18.3
Compressor B (B)	-
Fan (A)	8.0

Piping:2

Frame	ARUM121BTE5
Refrigerant Charge (lbs.)	23.2
Liquid (in., O.D.)	1/2 Braze
High Pressure Vapor	
(Heat Recov only; in, O.D.)	3/4 Braze
Low Pressure Vapor	_
(in., O.D.)	1-1/8 Braze

Standard Features:

- Advanced Smart Load Control
- Intelligent Heating
- HiPOR (High Pressure Oil Return)
- Smart Oil Control
- Night Quiet Operation
- Fault Detection and Diagnosis
- Active Refrigerant Control
- Variable Heat Path Exchanger
- Subcooling and Vapor Injection Control
- Liquid Cooled Inverter Controller
- Advanced Comfort Cooling

Operating Range:

Cooling (°F DB)**	5 - 122
Heating (°F WB)	-22 - 61
Synchronous	
Cooling Based (°F DB)	14 - 81
Heating Based (°F WB)	14 - 61

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Max. Number of Indoor Units ³	20
Sound Pressure⁴ dB(A)	59.0
Weight	33.0
Frame	ARUM121BTE5
Net (lbs.)	507
Shipping (lbs.)	534
Communication Cable (No x AWG) ⁵	2 x 18
Heat Exchanger Coating	Black Coated Fin™

Compressor:

Туре	HSS DC Scroll
Quantity	1
Oil / Type	PVE / FVC68D

Fan:

Туре	Propeller
Quantity	2
Motor Drive	Brushless Digitally Controlled Direct
Air Flow Rate (rated/max, CFM)	8,400 / 11,300

Notes:

- 1. Power wiring cable size must comply with the applicable local and national codes. Cables terminate at each frame.
- 2. For main pipe segment size, refer to the LATS Multi V tree diagram.
- 3. The combination ratio must be between 50-130%.
- 4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745 for the combination of outdoor units.
- 5. Communication cable between ODU and IDUs must be 2-conductor, 18 AWG, twisted, stranded, and shielded. Ensure the communication cable shield is properly grounded to the Main ODU chassis only. Do not ground the communication cable at any other point. Wiring must comply with all applicable local and national codes.
- 6. Acceptable operating voltage: 187V 253V
- 7. Fan ESP (in wg) selectable range is 0.16 to 0.32.

Optional Accessories:

- ☐ Air Guide ZAGDKA52A
 ☐ Hail Guard Kit ZHGDKA52A
 ☐ Low Ambient Baffle Kit ZLABKA52A, Control Kit -
- PRVC2 (1 per system)

 ☐ Base Pan Heater ZPLT1A52A
- **Cooling range with the Low Ambient Baffle Kit (sold separately) is -9.9°F to +122°F and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.





ARUM121BTE5

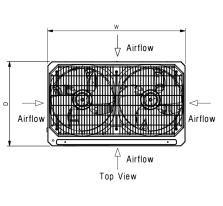
Multi V[™] 5 with LGRED° 208-230V ODU

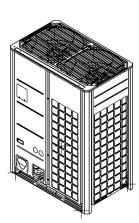
10 Ton Single Frame Heat Pump and Heat Recovery

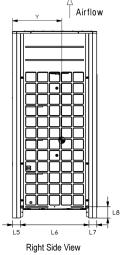


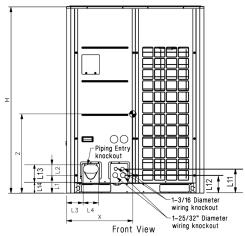
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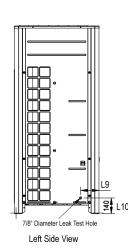
PO No.: _____











Piping Routing Holes (Bottom); two - \(\theta 2-5/8\)", \(\theta 2-1/8\)" M5 M8 Power Cord Routing Hole (Bottom); two (2) - \(\theta 2\)" Routing Holes (Bottom) 19/32" Diameter Wire Routing Holes (Bottom) 19/32" Diameter hole (Pitch of foundation bolt holes)
Bottom Mounting Holes

M1	28-25/32"
M2	5/8"
М3	3-15/16"
M4	40-15/16"
M5	11 – 15/16"
M6	11 – 1/16"
M7	10 – 1/2"
M8	8 – 7/16"
M9	8 – 1/8"
M10	6 – 1/16"
M11	4 – 15/16"
M12	7 – 1/2"
M13	4 – 13/16"
M14	4 – 5/16"
M15	3 – 5/8"
M16	3"

W	48-13/16"
Н	66-17/32"
D	29-29/32"
L1	6-5/16"
L2	3-3/4"
L3	5-29/32"
L4	5-13/32"
L5	2-25/32"
L6	24-9/32"
L7	2-25/32"
L8	4-1/32"
L9	6 – 1/2"
L10	5 – 9/16"
L11	8 – 5/8"
L12	6 – 7/16"
L13	9 – 15/16"
L14	3 – 5/8"

Center of Gravity

Х	23-7/32"
Υ	15-5/8"
Z	25-9/16"

All dimensions have a tolerance of \pm 0.25 in. [Unit: inch]



= Center of Gravity

Job Name/Location: Salisbury Sanctuary

LG-1

ARUM121BTE5

Multi V[™] 5 with LGRED° 208-230V ODU 10 Ton Single Frame Heat Pump and Heat Recovery

	Tag No.:	
I G	Date:	
Life's Good	DO No :	
Life's Good	PO NO	

AHRI Data:

Reference Number	Indoor Type	Cooling Capacity (95°F)	EER (95°F)	IEER	SCHE	High Heating Capacity (47°F)	High COP (47°F)	Low Heating Capacity (17°F)	Low COP (17°F)
205281462	Ducted Indoor Units	114,000	12.50	24.60	26.40	129,000	3.46	84,000	2.53
202516176	Non-Ducted Indoor Units	114,000	13.10	29.60	31.00	129,000	3.97	84,000	2.74

Date:	For: ☐ File ☐ Resubmit
PO No.:	☐ Approval ☐ Other
Architect:	GC:
Engr:	Mech:
Rep:	
(Company)	(Project Manager)



ARUM072BTE5

Multi V™ 5 with LGRED° 208-230V ODU

6 Ton Single Frame Heat Pump and Heat Recovery

Performance:

Cooling Mode:

Nominal Capacity (Btu/h)	72,000
Power Input (kW)	4.28

Heating Mode:

Nominal Capacity (Btu/h)	81,000
Power Input (kW)	5.39

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Electrical:

Frame	ARUM072BTE5
Power Supply (V/Hz/Ø) ¹	208-230/60/3
MOP (A)	35
MCA (A)	22.6
Rated Amps (A)	19.1
Compressor A (A)	14.1
Compressor B (B)	-
Fan (A)	5.0

Piping:2

Frame	ARUM072BTE5
Refrigerant Charge (lbs.)	14.3
Liquid (in., O.D.)	3/8 Braze
High Pressure Vapor	
(Heat Recov only; in, O.D.)	5/8 Braze
Low Pressure Vapor	
(in., O.D.)	3/4 Braze

Standard Features:

- Advanced Smart Load Control
- Intelligent Heating
- HiPOR (High Pressure Oil Return)
- Smart Oil Control
- Night Quiet Operation
- Fault Detection and Diagnosis

☐ Drain Pan Heater - ZPLT1A51A

- Active Refrigerant Control
- Variable Heat Path Exchanger
- Subcooling and Vapor Injection Control
- Liquid Cooled Inverter Controller
- · Advanced Comfort Cooling

Life's Good

Operating Range:

Cooling (°F DB)** Heating (°F WB)	5 - 122 -22 - 61
Synchronous	22 01
Cooling Based (°F DB)	14 - 81
Heating Based (°F WB)	14 - 61

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Max. Number of Indoor Units ³	13
Sound Pressure⁴ dB(A)	58.0
Weight	30.0
Frame	ARUM072BTE5
Net (lbs.)	430
Shipping (lbs.)	452
Communication Cable (No x AWG) ⁵	2 x 18
Heat Exchanger Coating	Black Coated Fin™
i e	

Compressor:

Туре	HSS DC Scroll
Quantity	1
Oil / Type	PVE / FVC68D

Fan:

i uiii	
Туре	Propeller
Quantity	1
Motor Drive	Brushless Digitally Controlled Direct
Air Flow Rate (rated/max, CFM)	6,600 / 8,470

Notes:

- Power wiring cable size must comply with the applicable local and national codes.
 Cables terminate at each frame.
- 2. For main pipe segment size, refer to the LATS Multi V tree diagram.
- 3. The combination ratio must be between 50-130%.
- 4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745 for the combination of outdoor units.
- 5. Communication cable between ODU and IDUs must be 2-conductor, 18 AWG, twisted, stranded, and shielded. Ensure the communication cable shield is properly grounded to the Main ODU chassis only. Do not ground the communication cable at any other point. Wiring must comply with all applicable local and national codes.
- 6. Acceptable operating voltage: 187V 253V
- 7. Fan ESP (in wg) selectable range is 0.16 to 0.32.

Optional Accessories:

- ☐ Air Guide ZAGDKA51A
 ☐ Hail Guard Kit ZHGDKA51A
 ☐ Low Ambient Baffle Kit ZLABKA51A, Control Kit PRVC2 (1 per system)
- **Cooling range with the Low Ambient Baffle Kit (sold separately) is -9.9°F to +122°F and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.





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ARUM072BTE5

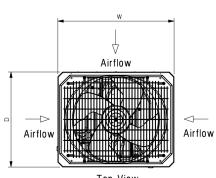
Multi V™ 5 with LGRED° 208-230V ODU

6 Ton Single Frame Heat Pump and Heat Recovery



Tag No.: _____

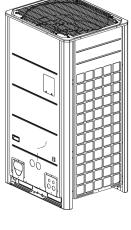
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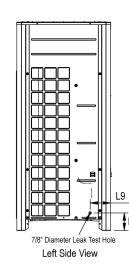




Airflow

Right Side View

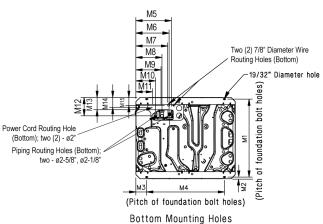




	Access Panel
I N L2 L1	Piping Entry knockout 1-3/16" Diameter wiring knockout
<u> </u>	L13 L14 Wiring knockout

 \blacksquare

Front View



28-25/32"
5/8"
3-31/32"
28-3/4"
13 – 1/8"
12 – 5/16"
11 – 3/4"
9 – 11/16"
9 – 5/16"
7 – 5/16"
6 – 3/16"
6 – 13/16"
4 – 1/2"
3 – 11/16"
3"

W	36-5/8"
Н	66-17/32"
D	29-29/32"
L1	6-5/16"
L2	3-3/4"
L3	6-3/32"
L4	5-13/32"
L5	2-25/32"
L6	24-9/32"
L7	2-25/32"
L8	4-1/16"
L9	6 – 1/2"
L10	5 – 9/16"
L11	8 – 5/8"
L12	6 – 7/16"
L13	24 – 5/8"
L14	26 – 7/16"
L15	29 – 3/16"

Center of Gravity

Х	18-3/16"
Υ	16-5/16"
Z	31–15/32"

All dimensions have a tolerance of $\pm\,0.25$ in. [Unit: inch]



= Center of Gravity

Job Name/Location: Salisbury Parish first and second floor

ARUM072BTE5

Multi V[™] 5 with LGRED° 208-230V ODU

6 Ton Single Frame Heat Pump and Heat Recovery

		LG-2 & LG-3
	Tag No.:	
I G	Date:	
Life's Good	PO No.:	

AHRI Data:

Reference Number	Indoor Type	Cooling Capacity (95°F)	EER (95°F)	IEER	SCHE	High Heating Capacity (47°F)	High COP (47°F)	Low Heating Capacity (17°F)	Low COP (17°F)
205281456	Ducted Indoor Units	69,000	13.00	23.60	26.10	77,000	3.48	51,000	2.49
202515434	Non-Ducted Indoor Units	69,000	13.40	28.40	28.50	77,000	3.83 51,000		2.66

Job Name :	Location :
Purchaser:	P.O. No. :
Engineer:	Architect :
Submitted To:	Date :
Submitted By :	For : ☐ Reference ☐ Approval ☐ Construction
Unit Designation : Schedule No.:	Model No.:

Submittal Data: LMU369HV

Flex Multi-Split Inverter Heat Pump Outdoor Unit



Standard Features:

- · Limited Five Year Compressor Warranty
- · Limited Two Year Functional Parts Warranty
- · Defrost/Deicing
- Restart delay (3-minutes)
- Self Diagnosis
- Soft Start
- Auto Operation (Artificial intelligence)
- · Auto restart operation
- Built-in Low Ambient Standard down to 14°F (cooling mode)
- Gold Fin [™] Anti-Corrosion Treatment for Condenser

Specification:

Capacity (BTUs)	34,000 Class
Power Supply (V, Hz, Ph)	208-230/60/1
Maximum Overcurrent Protection (A)	25
Minimum Circuit Ampacity (A)	20.1
Power Input (Rated)	
Cooling (kW)	2.72
Heating (kW)	3.58
Cooling Running Current (Rated) (A)	11.8
Heating Running Current (Rated) (A)	15.5
Compressor Running Current (Rated) (A) 14.4
Fan Motor Running Current (Rated) (A) 0.55
Communication Cable (No. x AWG)	4 x 18
(Outdoor to Indoor Unit)	
Dimension (WxHxD, inches)	35 7/16 x 45 7/8 x 14 9/16
Net Weight (lbs)	209.4
Max. # of Connectable Indoor Units	4
Refrigerant	
Charge (98.4ft) (lbs)	7.72
Туре	R 410a
Control	EEV
Sound Level (±3dB(A))	57











Specification:

Piping Connections	
Liquid (inches)	1/4 x 4EA
Gas (inches)	3/8 x 4EA
Piping length spec.	
Max. total piping (ft.)	246.1
Max. OD~ID piping (ft.)	82.0
Piping length (no add'l refrigerant, ft.)	98.4
Max. Elevation Difference	
Outdoor Unit ~ Indoor Unit (ft.)	49.2
Indoor Unit ~ Indoor Unit (ft.)	24.6
Operating Range (Outdoor)	
Cooling (°F)	14~115
Heating (°F)	5~75

- 1. Capacities are based on the following conditions : Cooling : Indoor Temperature 80°F DB / 67°F WB

 - Outdoor Temperature 95°F DB / 67°F WB
 Heating: Indoor Temperature 70°F DB / 60°F WB
 - Outdoor Temperature 47°F DB / 43°F WB Piping Length : Interconnecting Piping Length 24.6ft. Level Difference of Zero
- Wiring cable size must comply with the applicable local and national code.
 The specification may be subject to change without prior notice for purpose of
- 4. For more capacity(*) information, refer to the combination tables.

Combination Performance Table:

System	Combined With	Nominal Cooling Capacity	EER	SEER	Nominal Heating Capacity	СОР	Low Heating Capacity	СОР	HSPF	Energy Star
		Btu/h	95°F		Btu/h	47°F	Btu/h	17°F		
	Non-Ducted Indoor Unit	34,000	12.50	17.5	41,000	3.40	23,300	2.4	10.5	Yes
LMU369HV	Ducted Indoor Unit	34,000	12.00	16.5	41,000	3.20	25,300	2.6	10.5	
	Mixed Ducted & Non-Ducted	34,000	12.25	17.0	41,000	3.30	24,300	2.5	10.5	

Note:

LG Electronics USA, Inc. HVAC Division 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632 / www.lg.com www.lghvac.com

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