

SPLIT SYSTEM AIR COOLED AIR CONDITIONING UNIT (HEAT PUMP)																												BASIS OF DESIGN: MITSUBISHI						
AC: AIR CONDITION UNIT ACCU: AIR COOL CONDENSING UNIT																																		
EVAPORATOR DATA																		CONDENSER DATA										REMARKS						
UNIT	TAG	SERVICE	TYPE	NOMINAL CAPACITY (TONS)	TOTAL CLG CAPACITY (BTUH)	TOTAL HTG CAPACITY (BTUH)	SUPPLY AIR (CFM)	OUTIDE AIR (CFM)	EXTERNAL STATIC PRESSURE (IN. W.G.)	ENTERING AIR		ELECTRIC DATA		MODEL	DIMENSION (WxDxH)	WEIGHT (LBS)	UNIT NO.	CAPACITY (TONS)	LOCATION	ENTERING AIR TEMP. (°F)	TOTAL CLG CAPACITY (BTUH)	TOTAL HTG CAPACITY (BTUH)	CONDENSER ELECTRIC DATA				DIMENSION (WxHxD)		WEIGHT LBS.	MODEL	ACTUAL . EFF.	-		
										DB (°F)	WB (°F)	VOLTS/ PHASE/ HERTZ	MCA										MOCP	VOLTS/ PHASE/ HERTZ	MCA	MOCP							# OF COMP.	RATED AMP.
AC-1.0T	AC-1	MAINT.	CEILING CASSETTE	1.0	12,000	13,500	245-335	--	N/A	80	67	208/1/60	0.30	15	PLFY-P12NFMU-E	24x24x10	30.0	ACCU-1	4.0	ROOF	95	48,000	54,000	208/1/60	36.0	40	1	--	38x56x16	280	PUMY -HP48NKMU1	22.60SEER 12.00HSPF		
AC-1.0T	AC-2	VESTIBULE	CEILING CASSETTE	1.0	12,000	13,500	245-335	--	N/A	80	67	208/1/60	0.30	15	PLFY-P12NFMU-E	24x24x10	30.0																	
AC-1.0T	AC-3	OFFICE	CEILING CASSETTE	1.0	12,000	13,500	245-335	--	N/A	80	67	208/1/60	0.30	15	PLFY-P12NFMU-E	24x24x10	30.0																	
AC-0.5T	AC-4	TOILET	CEILING CASSETTE	0.5	5,000	5,600	230-280	--	N/A	80	67	208/1/60	0.24	15	PLFY-P05NFMU-E	24x24x10	30.0																	
<div>1. INSTALL 7-DAY PROGRAMMABLE THERMOSTATS FOR AC UNIT CONTROL WITH INDEPENDENT COOL AND HEAT SET POINTS; MANUAL COOLING/HEATING CHANGEOVER, WEEKLY PROGRAMMING SCHEDULING.</div> <div>2. INDOOR AC UNIT SHALL BE FIELD PROVIDED WITH FILTER SECTION AND RETURN PLENUM, TYPICAL.</div> <div>3. MC SHALL INCLUDE IN HIS BID PROVISION AND INSTALLATION OF INSULATED CONDENSATE DRAIN PIPING (COPPER) FROM EACH FAN COIL AC UNIT TO THE OPEN FLOOR DRAIN WITH AIR GAP.</div> <div>5. FACTORY START UP AND COMMISSIONING.</div> <div>6. CONTRACTOR SHALL FURNISH A FULLY OPERATIONAL SYSTEM INCLUDING ALL INSULATED REFRIGERANT PIPING, CONTROL WIRING, FILTER, POWER, SENSORS, REMOTE THERMOSTAT, DRY CONTACT ACCESSORIES, ETC. SUBMIT VENDOR PIPING/CONTROL REPORT PRIOR TO COMMENCEMENT.</div>																																		

ERV SCHEDULE													
UNIT NO.	LOCATION/AREA	CFM	TOT. STATIC PRESS. (IN. W.G.)	RPM	DRIVE	MOUNTING	MOTOR DATA MCA/ MFS	VOLTS/ PHASE	MODEL	EFF	DIMENSION (WxDxH)	WEIGHT (LBS)	REMARKS
ERV-1	SEE PLAN	200-300	0.5	1,203 SUP 1,424 RET	DIRECT ECM	HORIZONTAL	10.6/15	208/1/60	MITSUBISHI LOSSNAY LGH-F300RVX2-E	70%SENS 53.5%LAT-CLG 66.5%LAT-HTG	42x14x42	75LBS	
FURNISH AND INSTALL THE FOLLOWING: -PROVIDE WITH REMOTE PRESSURE SENSORS TO CONTROL FAN SPEED. TYPICAL FOR SUPPLY AND EXHAUST -HANGING STRUCTURAL SUPPORTS WITH SPRING ISOLATORS -REMOTE SENSOR/CONTROLLER -ERV HEAT EXCHANGER  -ECONOMIZER BYPASS FOR HUMIDITY CONTROL -SHEET METAL UNDERLINER -HORIZONTAL DISCHARGE -FILTERS -UNIT DISCONNECT													

DIFFUSER, GRILLE & REGISTER SCHEDULE					
APPLICATION	MFR	MODEL	NECK SIZE	CFM	REMARKS
SUPPLY	TITUS	OMNI	8"ø	0-175	12x12 FACE
SUPPLY	TITUS	OMNI	8"ø	0-200	24x24 FACE
SUPPLY	TITUS	OMNI	10"ø	201-300	24x24 FACE
SUPPLY	TITUS	OMNI	12"ø	301-401	24x24 FACE
SUPPLY	TITUS	OMNI	14"ø	401-500	24x24 FACE
SUPPLY	TITUS	OMNI	15"ø	501-700	24x24 FACE
RETURN/EXH.	TITUS	355RL	6x6	0-100	SEE NOTE No.2
RETURN/EXH.	TITUS	355RL	12x12	0-360	
RETURN/EXH.	TITUS	355RL	12x24	361-720	
RETURN/EXH.	TITUS	355RL	24x24	721-1400	
SUPPLY	TITUS	300RL	6x6	0-100	
SUPPLY	TITUS	300RL	10x6	101-200	
SUPPLY	TITUS	300RL	14x6	201-300	
SUPPLY	TITUS	300RL	24x6	301-450	
SUPPLY	TITUS	300RL	18x12	451-675	
SUPPLY	TITUS	300RL	24x12	676-900	
SUPPLY	TITUS	300RL	36x12	901-1100	
SUPPLY	TITUS	300RL	42x12	1101-1300	
SUPPLY	TITUS	300RL	48x12	1301-1500	

MINIMUM PIPE INSULATION THICKNESS (in inches)"								
FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (inches)					
	CONDUCTIVIT BTU • IN./ (H • FT° F) b	MEAN RATING TEMPERATURE, °F	< 1	1 TO < 1 ½	1 ½ TO < 4	4 TO < 8	≥ 8	
HW	141-200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
DX	4060	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0

For SI: 1 inch 25.4mm, °C= [(°F)- 32]/1.8.

a. For piping smaller than 1 ½ inches and located in partitions within conditioned spaces, reduction of these thicknesses by 1 inch shall be permitted (before thickness adjustment required in footnote b) but not to a thickness less than 1 inch.

b. For insulation outside the stated conductivity range, the minimum thickness (T) shall be determined as follows:

where:

T = minimum insulation thickness,

r = actual outside radius of pipe,

t = insulation thickness listed in the table for applicable fluid temperature and pipe size,


K = conductivity of alternate material at mean rating temperature indicated for the applicable fluid temperature (Btu • in/h • ft² • ° F) and

k = the upper value of the conductivity range listed in the table for the applicable fluid temperature.


c. For directburied heating and hot water system piping, reduction of these thidknesses by 1/2 inches (38 mm) shall be permitted (before thickness adjustment required in footnote b but not to thicknesses less than 1 inch (25 mm)).

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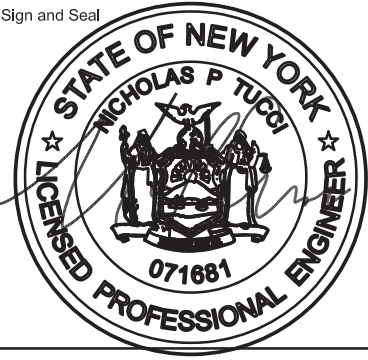
No.	Date	Revisions / Submissions
-	01-19-23	DESIGN DEVELOPMENT
-	08-16-24	ISSUED

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Project Title  
THE SALVATION ARMY WAREHOUSE  
440 WEST NYACK ROAD  
WEST NYACK, NY 10994

Sheet Title  
MECHANICAL SPECIFICATIONS

Date  
08/23/22  
Project ID  
23100  
Drawn By  
TSF  
Checked By  
TSF  
Scale  
AS NOTED  
Sheet No.

Sign and Seal  


M-202  
1 of 11

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