

EASTERN MECHANICAL SERVICES 3 Starr Street, Danbury, CT 06810 Ph. 203.792.7668 www.emsinc.us
GENERAL NOTES:
 ALL REFRIGERATION PIPING IS TO BE INSULATED PER ICC 2015 CODE REQUIREMENTS. ALL CONDENSATE DRAIN PIPING TO BE DISCHARGED TO OUTDOORS OR MOP SINK BASED ON COORDINATION WITH
OWNER'S. 3. CONDENSATE DRAIN PIPING MATERIAL AND INSULATION MATERIALS ARE PER MANUFACTURER'S INSTRUCTION AND ICC 2015 CODE REQUIREMENTS. (NOTE: CEILING IS NOT A PLENUM RETURN).
 4. FLASHING OF ROOF CURBS TO BE DONE BY OWNER'S ROOFING CONTRACTOR. CURBS ARE PROVIDE BY THIS CONTACTOR. 5. ERV EXHAUST AND BUILDING RETURN DUCTS ARE NOT INSULATED.
6. ERV SUPPLY AND FRESH AIR INTAKE DUCTS ARE INSULATED WITH "BIG BUBBLE DUCT INSULATION R-8.0". PLEASE NOTE THIS MATERIAL TO BE APPLIED DIRECT TO THE SHEETMETAL DUCT WHICH ALTERS THE RATING TO R-6.0.
 7. SUPPLY AND RETURN DUCT FROM UNIT #10 (DUCTED AHU) TO BE INSULATED WITH "BIG BUBBLE DUCT INSULATION R-8.0". PLEASE NOTE THIS MATERIAL IS TO BE APPLIED DIRECT TO THE SHEETMETAL DUCT WHICH ALTERS THE RATING TO R-6.0. 8. CONCRETE PAD FOR UNIT #1 PUHY-HP144 TSNU-A
IS BY OWNER'S G.C.
No. Description Date
1PRELIMINARY SET FOR ESTIMATING5/2/20222UPDATED FOUIPMENT1/16/2023
LAYOUT AND SCHEDULES
ST GREGORY CATHOLIC CHURCH
SI GREGORY SCHOOL
85 GREAT PLAIN RD DANBURY, CT 06811
MECHANICAL EQUIPMENT LAYOUT PLAN
Project Number 126-21
Date4/30/2022Drawn ByT.H.Checked ByS.C.
M100.00





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No.	Description	Date
1	PRELIMINARY SET FOR ESTIMATING	5/2/2022
1	PRELIMINARY SET FOR ESTIMATING UPDATED EQUIPMENT LAYOUT AND SCHEDULES	5/2/2022 1/16/2023
1	PRELIMINARY SET FOR ESTIMATING UPDATED EQUIPMENT LAYOUT AND SCHEDULES	5/2/2022
1	PRELIMINARY SET FOR ESTIMATING UPDATED EQUIPMENT LAYOUT AND SCHEDULES	5/2/2022

ST GREGORY CATHOLIC CHURCH ST GREGORY SCHOOL

85 GREAT PLAIN RD DANBURY, CT 06811

HVAC PLAN

Project Number 126-21 4/30/2022 Date _____ Drawn By Т.Н. S.C. Checked By

M100.01

1 REFLECTED CEILING PLAN 3/8" = 1'-0"



	Ph. 203.79	92.7668 ww	w.emsinc.us
<u>GENE</u>	RAL	NOTE	<u>S:</u>
 ALL REFRIGI ICC 2015 CODE ALL CONDEN OUTDOORS OR OWNER'S. CONDENSAT MATERIALS AR ICC 2015 CODE A PLENUM RET FLASHING O ROOFING CONT CONTACTOR. ERV EXHAUS INSULATED. ERV SUPPLY INSULATED WIT PLEASE NOTE SUPPLY ANE AHU) TO BE INS INSULATION R- APPLIED DIREC ALTERS THE R/ CONCRETE I IS BY OWNER'S 	ERATION PIPI REQUIREME NSATE DRAIN MOP SINK B/ TE DRAIN PIPI E PER MANUF REQUIREME URN). F ROOF CURI TRACTOR. CU ST AND BUILD (AND FRESH TH "BIG BUBB THIS MATERI/ METAL DUCT O RETURN DU SULATED WITI 8.0". PLEASE CT TO THE SH ATING TO R-6 PAD FOR UNI 5 G.C.	NG IS TO BE INS NTS. PIPING TO BE E ASED ON COOR NG MATERIAL A FACTURER'S INS NTS. (NOTE: CE BS TO BE DONE JRBS ARE PROV DING RETURN DI ALTO BE APPLIE WHICH ALTERS CT FROM UNIT H "BIG BUBBLE NOTE THIS MATE EETMETAL DUC .0. T #1 PUHY-HP14	SULATED PER DISCHARGED TO DINATION WITH AND INSULATION STRUCTION AND EILING IS NOT BY OWNER'S /IDE BY THIS UCTS ARE NOT CTS ARE ATION R-8.0". ED DIRECT THE RATING #10 (DUCTED DUCT TERIAL IS TO BE ET WHICH 14 TSNU-A
8. CONCRETE I IS BY OWNER'S	PAD FOR UNI G.C.	T #1 PUHY-HP14	4 TSNU-A
No. 1 PR 2 UF	Descri ELIMINAR ESTIMA PDATED EC OUT AND S	ption Y SET FOR TING QUIPMENT SCHEDULES	Date 5/2/2022 1/16/2023
No. 1 PR 2 UF LAY	Descri ELIMINAR ESTIMA PDATED EC OUT AND	ption Y SET FOR TING QUIPMENT SCHEDULES	Date 5/2/2022 1/16/2023
No. 1 PR 2 UF LAY	Descri ELIMINAR ESTIMA PDATED EQ OUT AND	ption Y SET FOR TING QUIPMENT SCHEDULES	Date 5/2/2022 1/16/2023
NO. 1 PR 2 UF LAY		Ption Y SET FOR TING QUIPMENT SCHEDULES	Date 5/2/2022 1/16/2023
No. 1 PR 2 UF LAY ST G	Descri ELIMINAR ESTIMA PDATED EC OUT AND REGOF CHU	Ption Y SET FOR TING QUIPMENT SCHEDULES	IDate 5/2/2022 1/16/2023
No. 1 PR 2 UF LAY ST G 85 DA	Descri ELIMINAR ESTIMA PDATED ECOUT AND OUT AND REGOF CHU GREGO	ption Y SET FOR TING QUIPMENT SCHEDULES RY CATH JRCH RY SCH RY SCH RY SCH	IDate 5/2/2022 1/16/2023 IOLIC
NO. 1 PR 2 UF LAY ST C 85 DA 85 DA	Descri ELIMINAR ESTIMA PDATED ECOUT AND OUT AND REGOF CHU GREGO GREA ANBUR ECTED	ption Y SET FOR TING QUIPMENT SCHEDULES RY CATH JRCH RY SCH RY SCH RY SCH T PLAIN Y, CT 06	Date 5/2/2022 1/16/2023 HOLIC OOL RD 811 S PLAN
NO. 1 PR 2 UF LAY ST G ST G 85 DA Project Num Date Drawn By	Descri ELIMINAR ESTIMA PDATED ECOUT AND OUT AND SREGO GREGO GREA ANBUR ECTED	ption Y SET FOR TING DUIPMENT SCHEDULES RY CATH RY SCH RY SCH RY SCH T PLAIN Y, CT 06 CEILING	Date 5/2/2022 1/16/2023 1/16/2023







Mark Model Manufacturer Part Number - Mitsubishi Electric Total Heating Capacity Total Cooling Capacity Voltage 1 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V1 PHASE 60 HZ 2 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V1 PHASE 60 HZ 3 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V1 PHASE 60 HZ 4 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V1 PHASE 60 HZ 5 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V1 PHASE 60 HZ 6 PMFY-P12NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V1 PHASE 60 HZ 7 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V1 PHASE 60 HZ 9 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V1 PHASE 60 HZ 10 PMFY-P12NBMU-E Mitsubishi Electric 9300.0 Btu/h		Mechanical Equipment Schedule								
1 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 2 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 3 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 4 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 5 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 6 PMFY-P12NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 7 PKFY-P00NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 9 PKFY-P08NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 10 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 208-230V 1 PHASE 60 HZ 11 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 208-230V 1 PHASE 60 HZ <td< td=""><td>Mark</td><td>Model</td><td>Manufacturer</td><td>Part Number - Mitsubishi Electric</td><td>Total</td><td>Heating Capacity</td><td>Total Cooling Capacity</td><td>Voltage</td><td></td></td<>	Mark	Model	Manufacturer	Part Number - Mitsubishi Electric	Total	Heating Capacity	Total Cooling Capacity	Voltage		
2 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btw/h 12000.0 Btw/h 208-230V 1 PHASE 60 HZ 3 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btw/h 12000.0 Btw/h 208-230V 1 PHASE 60 HZ 4 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btw/h 12000.0 Btw/h 208-230V 1 PHASE 60 HZ 5 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btw/h 12000.0 Btw/h 208-230V 1 PHASE 60 HZ 6 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btw/h 12000.0 Btw/h 208-230V 1 PHASE 60 HZ 7 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btw/h 6000.0 Btw/h 208-230V 1 PHASE 60 HZ 9 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btw/h 6000.0 Btw/h 208-230V 1 PHASE 60 HZ 10 PMFY-P12NBMU-E Mitsubishi Electric 9000.0 Btw/h 12000.0 Btw/h 208-230V 1 PHASE 60 HZ 11 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btw/h 12000.0 Btw/h 208-230V 1 PHASE 60 HZ 13 PMFY-P12NBMU-E Mitsubishi Electric 9000.0 Btw/h 200-230V 1 PHASE 60 HZ <td>1</td> <td>PMFY-P12NBMU-E</td> <td>Mitsubishi Electric</td> <td></td> <td>13500.0</td> <td>) Btu/h</td> <td>12000.0 Btu/h</td> <td>208-230V 1 PHASE 6</td> <td>0 HZ</td>	1	PMFY-P12NBMU-E	Mitsubishi Electric		13500.0) Btu/h	12000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
3 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 4 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 5 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 6 PMFY-P12NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 7 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 9 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 10 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 12 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 13 PMFY-P08NBMU-E Mitsubishi Electric 90000.0 Btu/h 8000.0 Btu/h <t< td=""><td>2</td><td>PMFY-P12NBMU-E</td><td>Mitsubishi Electric</td><td></td><td>13500.0</td><td>) Btu/h</td><td>12000.0 Btu/h</td><td>208-230V 1 PHASE 6</td><td>0 HZ</td></t<>	2	PMFY-P12NBMU-E	Mitsubishi Electric		13500.0) Btu/h	12000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
4 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 5 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 6 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 208-230V 1 PHASE 60 HZ 7 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 8 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 9 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 10 PMFY-P08NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 11 PMFY-P08NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 13 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ	3	PMFY-P12NBMU-E	Mitsubishi Electric		13500.0) Btu/h	12000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
6 PMFY-P12NBMU-E Mitsubish Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 6 PMFY-P12NBMU-E Mitsubish Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 7 PKFY-P06NBMU-E Mitsubish Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 9 PKFY-P06NBMU-E Mitsubish Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 9 PKFY-P06NBMU-E Mitsubish Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 10 PMFY-P12NBMU-E Mitsubish Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 11 PMFY-P12NBMU-E Mitsubish Electric 13500.0 Btu/h 1200.0 Dtu/h 208-230V 1 PHASE 60 HZ 13 PMFY-P08NBMU-E Mitsubish Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubish Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 15 PMFY-P08NBMU-E Mitsubish Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 P	4	PMFY-P12NBMU-E	Mitsubishi Electric		13500.0) Btu/h	12000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
6 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 7 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 8 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 9 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 10 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 11 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 12 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 13 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 15 PMFY-P08NBMU-E Mitsubishi Electric 90000.0 Btu/h 8000.0 Btu/h <t< td=""><td>5</td><td>PMFY-P12NBMU-E</td><td>Mitsubishi Electric</td><td></td><td>13500.0</td><td>) Btu/h</td><td>12000.0 Btu/h</td><td>208-230V 1 PHASE 6</td><td>0 HZ</td></t<>	5	PMFY-P12NBMU-E	Mitsubishi Electric		13500.0) Btu/h	12000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
7 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 8 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 9 PKFY-P06NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 10 PMFY-P12NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 11 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 1200.0 Btu/h 208-230V 1 PHASE 60 HZ 13 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 15 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 17 LGH-600RVX-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-	6	PMFY-P12NBMU-E	Mitsubishi Electric		13500.0) Btu/h	12000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
8 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 9 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 10 PMFY-P12NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 11 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 12 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 15 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 17 LGH-600RVX-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h	7	PKFY-P06NBMU-E	Mitsubishi Electric		6700.0	Btu/h	6000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
9 PKFY-P06NBMU-E Mitsubishi Electric 6700.0 Btu/h 6000.0 Btu/h 208-230V 1 PHASE 60 HZ 10 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 11 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 12 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 13 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 15 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h<	8	PKFY-P06NBMU-E	Mitsubishi Electric		6700.0	Btu/h	6000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
10 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 11 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 12 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 13 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 17 LCH-600RVX-E Mitsubishi Electric Corporation 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric Corporation 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 208-230V 1 PHASE 60 HZ 18 Titus-Round_Neck_Returm_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 7' - 10'' 8'' 20	9	PKFY-P06NBMU-E	Mitsubishi Electric		6700.0	Btu/h	6000.0 Btu/h	208-230V 1 PHASE 60 HZ		
11 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 12 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 13 PMFY-P12NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 15 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 17 LGH-600RVX-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 208-230V 3 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 208-230V 3 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0	10	PMFY-P08NBMU-E	Mitsubishi Electric		9000.0	Btu/h	8000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
12 PMFY-P12NBMU-E Mitsubishi Electric 13500.0 Btu/h 12000.0 Btu/h 208-230V 1 PHASE 60 HZ 13 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 15 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 17 LGH-600RYX-E Mitsubishi Electric Corporation 208-230V 1 PHASE 60 HZ 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Mark Family and Type Description Elevation from Level Neck Size 18 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 7' - 0'' 6'' 21 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser	11	PMFY-P12NBMU-E	Mitsubishi Electric		13500.0 Btu/h 12000.0 Btu/h			208-230V 1 PHASE 6	0 HZ	
13 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 15 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 17 LGH-600RVX-E Mitsubishi Electric Corporation 208-230V 1 PHASE 60 HZ 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Mark Family and Type Description Elevation from Level Neck Size 18 Titus-Round_Neck_Return_Diffuser-ORNI_Surface_Mount: OMNI-06_24x24 115 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 21 Titus-Round_Neck_Return_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 155 CFM	12	PMFY-P12NBMU-E	Mitsubishi Electric		13500.0 Btu/h 12000.0 Btu/h			208-230V 1 PHASE 6	0 HZ	
14 PKFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 15 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 17 LGH-600RVX-E Mitsubishi Electric Corporation 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Mitsubishi Electric Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Mark Family and Type Description Elevation from Level Neck Size 18 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 6"	13	PMFY-P08NBMU-E	Mitsubishi Electric		9000.0 Btu/h 8000.0 Btu/h			208-230V 1 PHASE 6	0 HZ	
15 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 17 LGH-600RVX-E Mitsubishi Electric Corporation 208-230V 1 PHASE 60 HZ 208-230V 1 PHASE 60 HZ 0U-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Mitsubishi Electric VUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ OU-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Mark Family and Type Mark Family and Type Description Elevation from Level Neck Size 18 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0'' 6'' 21 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0'' 6'' 22 Titus-Round_Neck_Return_Diff	14	PKFY-P08NBMU-E	Mitsubishi Electric		9000.0 Btu/h 8000.0 Btu/h			208-230V 1 PHASE 6	0 HZ	
16 PMFY-P08NBMU-E Mitsubishi Electric 9000.0 Btu/h 8000.0 Btu/h 208-230V 1 PHASE 60 HZ 17 LGH-600RVX-E Mitsubishi Electric Corporation 208-230V 1 PHASE 60 HZ 208-230V 1 PHASE 60 HZ OU-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Air Terminal Schedule Mark Family and Type Description Elevation from Level Neck Size 18 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 7' - 10" 8" 20 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 21 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 22 Titus-Round_Neck_Return_Diffuser-OAR_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 22 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 22 Titus-Round_Neck_Return_Diffuser-OAR_12412 Perforated Square Ceiling Diffuser 8' - 0"	15	PMFY-P08NBMU-E	Mitsubishi Electric		9000.0) Btu/h 8000.0 Btu/h		208-230V 1 PHASE 6	0 HZ	
17 LGH-600RVX-E Mitsubishi Electric Corporation 208-230V 1 PHASE 60 HZ OU-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Air Terminal Schedule Mark Family and Type Description Elevation from Level Neck Size 18 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 7' - 10" 8" 20 Titus-Round_Neck_Return_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 115 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 21 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 22 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 23 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-06_24x24 155 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 23 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: OMNI-06_24x24 155 CFM Architectural Square Ceiling Diffuser 8' - 0" 6" 24 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Di	16	PMFY-P08NBMU-E	Mitsubishi Electric		9000.0	Btu/h	8000.0 Btu/h	208-230V 1 PHASE 6	0 HZ	
OU-1 See Part Number Mitsubishi Electric PUHY-EP168TNU-A 188000.0 Btu/h 168000.0 Btu/h 208-230V 3 PHASE 60 HZ Air Terminal Schedule Mark Family and Type Description Elevation from Level Neck Size 18 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 7' - 10" 8" 20 Titus-Round_Neck_Return_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 115 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 21 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 22 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 000 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 23 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 000 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 23 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 24 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12	17	LGH-600RVX-E	Mitsubishi Electric Corporation					208-230V 1 PHASE 6	0 HZ	
Air Terminal Schedule Mark Family and Type Description Elevation from Level Neck Size 18 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 7' - 10" 8" 20 Titus-Round_Neck_Supply_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 115 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 21 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 6" 22 Titus-Round_Neck_Return_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 155 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 23 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: OMNI-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 24 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 <td< td=""><td>OU-1</td><td>See Part Number</td><td>Mitsubishi Electric</td><td>PUHY-EP168TNU-A</td><td>188000</td><td>.0 Btu/h</td><td>168000.0 Btu/h</td><td>208-230V 3 PHASE 6</td><td>0 HZ</td></td<>	OU-1	See Part Number	Mitsubishi Electric	PUHY-EP168TNU-A	188000	.0 Btu/h	168000.0 Btu/h	208-230V 3 PHASE 6	0 HZ	
Mark Family and Type Description Elevation from Level Neck Size 18 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 7' - 10" 8" 20 Titus-Round_Neck_Return_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 115 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 21 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 8" 22 Titus-Round_Neck_Return_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 155 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 23 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 24 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 26 Titus-Round_Neck Return Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0"				Air Terminal Sc	hedule					
18Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFMPerforated Square Ceiling Diffuser7' - 10"8"20Titus-Round_Neck_Supply_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 115 CFMArchitectural Square Plaque Diffuser8' - 0"6"21Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFMPerforated Square Ceiling Diffuser8' - 0"8"22Titus-Round_Neck_Supply_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 155 CFMArchitectural Square Plaque Diffuser8' - 0"6"23Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12Perforated Square Ceiling Diffuser8' - 0"6"24Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12Perforated Square Ceiling Diffuser8' - 0"6"25Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12Perforated Square Ceiling Diffuser8' - 0"6"26Titus-Round_Neck Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12Perforated Square Ceiling Diffuser8' - 0"6"	Mark		Family and Type			Descri	ption	Elevation from Level	Neck Size	
10Intes-Round_Neck_Tetum_Diffuser-NR_Edy+in: PAR-06_24x24 200 CFMPerforated equale ceiling DiffuserPerforated equale ceiling Diffuser20Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFMArchitectural Square Plaque Diffuser8' - 0"6"21Titus-Round_Neck_Supply_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 155 CFMPerforated Square Ceiling Diffuser8' - 0"6"22Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: OMNI-06_24x24 155 CFMArchitectural Square Plaque Diffuser8' - 0"6"23Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12Perforated Square Ceiling Diffuser8' - 0"6"24Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12Perforated Square Ceiling Diffuser8' - 0"6"25Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12Perforated Square Ceiling Diffuser8' - 0"6"26Titus-Round_Neck Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12Perforated Square Ceiling Diffuser8' - 0"6"26Titus-Round_Neck Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12Perforated Square Ceiling Diffuser8' - 0"6"	18	Titus-Round Neck Return	Diffuser-PAR Lav-In: PAR-08	24x24 200 CEM		Perforated Square	Ceiling Diffuser	7' - 10"	8"	
20 Intes-Round_Neck_Couppiy_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 THS OF M Architectural Square Ceiling Diffuser 0 = 0 0 21 Titus-Round_Neck_Return_Diffuser-PAR_Lay-In: PAR-08_24x24 200 CFM Perforated Square Ceiling Diffuser 8' - 0" 8" 22 Titus-Round_Neck_Supply_Diffuser-OMNI_Surface_Mount: OMNI-06_24x24 155 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 23 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 24 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 26 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6"	20	Titus-Round Neck Supply	/ Diffuser-OMNL Surface Moun	<u>_24,24 200 01 m t: OMNIL06 24x24 115 (</u>		Architectural Square	e Plaque Diffuser	8' - 0"	6"	
21 Intel Round_Neck_Return_Diffuser PAR_Surface_Mount: OMNI-06_24x24 155 CFM Architectural Square Plaque Diffuser 8' - 0" 6" 23 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 24 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 26 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6"	20	Titus-Round Neck Return	Diffuser-PAR Lav-In: PAR-08	24x24 200 CFM		Perforated Square	Ceiling Diffuser	8' - 0"	8"	
22 Intel Round_Rock_cappiy_billacer ownin_candos_meant: control o_2 in2 inter or on interaction or one of the optical of the	22	Titus-Round Neck Supply		<u>-21721200 01 m</u> t: OMNI-06_24x24 155 (CEM	Architectural Squar	e Plaque Diffuser	8' - 0"	6"	
24 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 26 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 26 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6"	23	Titus-Round Neck Return	Diffuser-PAR Surface Mount	PAR-06 12×12		Perforated Square	Ceiling Diffuser	8' - 0"	6"	
25 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6" 26 Titus-Round_Neck_Return_Diffuser-PAR_Surface_Mount: PAR-06_12x12 Perforated Square Ceiling Diffuser 8' - 0" 6"	24	Titus-Round Neck Return	Diffuser-PAR Surface Mount	PAR-06 12x12		Perforated Square	Ceiling Diffuser	8' - 0"	6"	
26 Titus-Round Neck Return Diffuser-PAR Surface Mount: PAR-06 12x12 Perforated Square Ceiling Diffuser 8' - 0" 6"	25	Titus-Round Neck Return	Diffuser-PAR Surface Mount	PAR-06_12x12		Perforated Square	Ceiling Diffuser	8' - 0"	6"	
	26	Titus-Round Neck Return	Diffuser-PAR Surface Mount:	PAR-06 12x12		Perforated Square	Ceiling Diffuser	8' - 0"	6"	





EASTERN MECHANICAL SERVICES 3 Starr Street, Danbury, CT 06810 Ph. 203.792.7668 www.emsinc.us

GENERAL NOTES:

1. ALL REFRIGERATION PIPING IS TO BE INSULATED PER ICC 2015 CODE REQUIREMENTS.

2. ALL CONDENSATE DRAIN PIPING TO BE DISCHARGED TO OUTDOORS OR MOP SINK BASED ON COORDINATION WITH OWNER'S.

3. CONDENSATE DRAIN PIPING MATERIAL AND INSULATION MATERIALS ARE PER MANUFACTURER'S INSTRUCTION AND ICC 2015 CODE REQUIREMENTS. (NOTE: CEILING IS NOT A PLENUM RETURN).

4. FLASHING OF ROOF CURBS TO BE DONE BY OWNER'S ROOFING CONTRACTOR. CURBS ARE PROVIDE BY THIS CONTACTOR.

5. ERV EXHAUST AND BUILDING RETURN DUCTS ARE NOT INSULATED. 6. ERV SUPPLY AND FRESH AIR INTAKE DUCTS ARE INSULATED WITH "BIG BUBBLE DUCT INSULATION R-8.0". PLEASE NOTE THIS MATERIAL TO BE APPLIED DIRECT

TO THE SHEETMETAL DUCT WHICH ALTERS THE RATING TO R-6.0.

7. SUPPLY AND RETURN DUCT FROM UNIT #10 (DUCTED AHU) TO BE INSULATED WITH "BIG BUBBLE DUCT INSULATION R-8.0". PLEASE NOTE THIS MATERIAL IS TO BE APPLIED DIRECT TO THE SHEETMETAL DUCT WHICH ALTERS THE RATING TO R-6.0. 8. CONCRETE PAD FOR UNIT #1 PUHY-HP144 TSNU-A IS BY OWNER'S G.C.

Date Description No. PRELIMINARY SET FOR 5/2/2022 ESTIMATING 1 UPDATED EQUIPMENT 1/16/2023 LAYOUT AND SCHEDULES 2

ST GREGORY CATHOLIC CHURCH

ST GREGORY SCHOOL

85 GREAT PLAIN RD DANBURY, CT 06811

DUCT INSTALLATION SECTION & ISO VIEWS

M100.04



CITY MULTI ® Mo		
Job Name:		Job Name:
System Reference:	Date:	System Reference:
-	SPECIFICATIONS Capacity* Cooling Heating 12,000 Btw/h Heating 13,500 Btw/h Power Power Source 208 / 230V, 1 phase, 60Hz Power Consumption Cooling 0.04 kW Heating 0.04 kW Current Cooling 0.021 A Cooling 0.21 A	
	Minimum Circuit Ampacity (MCA)	SPECIFICATIONS
	External Elalah	Capacity
GENERAL FEATURES	External Finish	Power Source
 Dual set point functionality 	Dimensions	Power Consumption
 Lightweight and compact design Equip expect fan settinge 	inches	Current
Built-in condensate lift mechanism	Grile	Starting Current
 Ventilation air intake supported 	Inches	Minimum Circuit Ampacity
	mm	Maximum Overcurrent Pro
	Net Weight Unit	Fan
OPTIONS D CN24 Relay KitCN24	RELAY-KIT-CM3 Coil Type	Exchange Efficiency
	Fan	External Finish
	Type x Quantity	External Dimensions (H x)
	Motor Type	Net Weight
	Air Filter	Energy Transfer Mechanis
		Heat Exchange Material
	Refrigerant Pipe Dimensions	Heat Exchange System
	Gas 1/2" / 6.35 mm flare	Blower Type
		Motor Type
 Cooling / Heating capacity indicated at the maximum operation under the following conditions: 	value at Drainpipe Dimension O.D. 1" / 26 mm	Included: Standard Filter (F
Cooling Indoor: 80" F (27" C) DB / 67" F (19" C) We Cooling Outdoor: 85" F (25" C) DB		Optional: High-Efficiency M
Heating Indoor: 70° F (21° C) DB	Sound Level (Low-Mid1-Mid2-High) 32-34-36-37 dB (A)	Entering Air Temperature C
Heating Outdoor: 47" F (8" C) DB / 43" F (6" C) WB	Na Ri	Sound Pressure Level
		¹ Requires one filter set (two

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Specifications are subject to change without notice.

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MECHANICAL SPECIFICATIONS

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1. ALL WORK SHALL CONFORM TO LATEST EDITIONS OF ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.

Specifications are subject to change without notice.

- 2. THE CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN EXISTING CONDITIONS WHICH MAY BE PECULIAR TO THE
- PROJECT. NO PROPOSALS WILL BE ACCEPTED WITHOUT SUCH VISIT. 3. FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND APPURTENANCES NECESSARY FOR A COMPLETE AND OPERATIONAL
- SYSTEM AS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED BY THE PROJECT. WORKMANSHIP SHALL REPRESENT THE HIGHEST STANDARDS OF THE INDUSTRY. GUARANTEE ALL MATERIAL AND
- WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY THE TENANT AND/OR OWNER.
- GRILLS, ETC. AS SHOWN ON THE DRAWINGS.
- STANDARDS FOR LOW VELOCITY SYSTEMS. SEAL JOINTS AND SEAMS AS REQUIRED.
- FLEXIBLE DUCTWORK SHALL BE FACTORY FABRICATED INSULATED CLASS I, UL 181 LISTED AIR DUCT AS MANUFACTURED BY DOW CORNING OR EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. (MAXIMUM LENGTH 6'-0")
- PROPERLY SECURE DUCTWORK TO FRAMING ELEMENTS AS REQUIRED BY JOB CONDITIONS.
- 9. COORDINATE ALL NEW DUCTWORK WITH WORK OF OTHER TRADES.
- 10. PERFORM ALL TESTS, ADJUSTMENTS, ETC. AS REQUIRED BY EQUIPMENT MANUFACTURERS OR AUTHORITIES HAVING JURISDICTION. BALANCE SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR QUANTITIES AS SHOWN ON THE PLANS AND/OR AS REQUIRED. TRIM BALANCE FOR COMFORT CONDITIONING OF INDIVIDUALS IN EACH AREA WHILE MAINTAINING MINIMUM CODE REQUIRED OUTSIDE AIR. CHANGE FAN SPEEDS AND/OR PULLEYS AS NEEDED. SUBMIT BALANCING REPORTS TO THE ARCHITECT AND OWNER FOR APPROVAL.
- 11. INSULATE ALL NEW SUPPLY DUCTWORK WITH 1" THICK "BIG BUBBLE DUCT INSULATION" PER MANUFACTURER'S **RECOMMENDATIONS FOR AN R-6.0 INSULATION VALUE.**
- 12. SUBMIT MANUFACTURER'S OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT.
- 13. EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES.
- 14. NO CUTTING SHALL BE PERFORMED WITHOUT PRIOR APPROVAL. PATCHING SHALL BE CONSISTANT WITH ADJACENT SURFACES.
- 15. ALL EQUIPMENT, DUCTS, PIPES, ETC. SHALL BE CONCEALED ABOVE THE CEILIING OR IN WALLS UNLESS SHOWN.
- BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 17. SUBMIT THREE (3) COPIES OF OPERATING MANUALS TO OWNER/TENANT WHICH INCLUDES MANUFACTURER'S DATA OF ALL EQUIPMENT INSTALLED, ROUTINE MAINTENANCE REQUIRED AND ANY ADDITIONAL INSTRUCTIONS THE OWNER/TENANT NEEDS TO OPERATE THE EQUIPMENT. MEET WITH THE OWNER/TENANT AND THOROUGHLY EXPLAIN THE MANUAL AND INSTRUCTIONS WITHIN THIRTY (30) DAYS OF SUBSTANTIAL COMPLETION.



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CHYMULIF	PKFY-P(6,000 BTU/H	DENLMU-E WALL MOUNT	
Job Name: System Reference:			Date:
1		GENERAL FEATURES Dual set point functionality Compact, lightweight, flat-white, fl Quiet operation Multiple fan speed settings Easily removed intake grille filter fi Back and right-side wiring take-ou Wireless receiver on board	at-panel, modern design or cleaning t
	Specifications		System
Cooline catacity (Morrison)/	(China by Pern	BTUE	8.000
Hasting capacity (Nerrinal)		BTIAH	6,700
Power source	Voltage, Phase, Hartz		208/230V, 1-ohase, 80 Hz
	Cooling	1 kW	0.02
Power Consumption	Heating	EW	0.01
Power source Power consumption Current	Cooling	A	0.2
	Heating	A	0.2
MCA		A	0.24
MCA Maximum Oversument Protection (MOCP)		A	0.24
MCA Maximum Overcument Protection (MOCP) Recommended Fuse Size		A A A	0.24 15 15
MCA Maamum Overcument Protection (MOCP) Recommended Fuse Size External finish		A A A	0.24 15 15 Paste: MUNSELL (0.7PB 9.20.4)
MCA Maamum Overcument Protection (MOCP) Recommended Fuse Size Edumat finish Edumat Dimensions		A A A (n. (mm)	0.24 15 15 Pixete:, MUNELL (0.7PB 9.2/0.4) 30-7/16 x 9-11/32 x 11-25/32 (733 x 237 x 2
MCA Maximum Overcument Protection (MOCP) Recommended Fuse Size External Internations External Dimensions Net weight		A A A (n. jmm) Lits [tg]	0.24 15 15 Pasels: MUNSELL (0.7PB 9.20.4) 30-3716 x 9-11/32 x 11-25/32 (233 x 237 x 2 24.5 (11.1)
MCA Maximum Overcurrent Protection (MOCP) Recommended Fuse Size External Inten External Dimensions Net weight Heat exchanger		A A A (n. jmm) Lbs [eg]	0.24 15 15 Pateric, MUNSELL (0.7PB 9.20.4) 30-3718 x 9-11/32 x 11-25/32 (733 x 237 x 2 24.5 (11.1) Cross fn (Aluminum fin and copper tube)
MCA Maximum Overcament Protection (MOCP) Recommended Fuse Stat Edemal finish Edemal Dimensions Net weight Heat exchanger	Type x quantity	A A A (n. jmm) Lits [kg]	0.24 15 15 Pasetic: MUNSELL (0.7PB 9.20.4) 30-7/18 x 0-11/02 x 11-25/32 (733 x 237 x 2 24.5 (11.1) Cross fin (Aluminum fin and copper tube) Line See fan x 1
MCA Maximum Overcament Protection (MOCP) Recommended Fuse Size Edemal Internions Retweight Net weight Heat exchanger	Type x quantity Artice rate	A A In jmmj Ltos [eg]	0.24 15 Phontics, MUNISELL (0.7PB 9.200.4) 90-7/18 x 0-11/02 x 11-25/32 (733 x 237 x 2 24.5 [11.1] Cross fin (Alumnum fin and copper tube) Line Sce fair x 1 141-156-173-191
MCA Maaimum Overcument Protection (MOCP) Recommended Fuse Size External Internations Net weight Heat exchanger Fiel	Type x quantity Airficer rate Motor type Motor type	A A A In (rm) Lts (sg) CFM	0.24 15 15 Phote:, MUNEELL(0.7PB 9.200.4) 30-7/16 x 9-11/32 x 11-25/32 (733 x 237 x 2) 24.5 (11.1) Cross fn (Alammum fin and copper tube) Line Sev fan x 1 141-155-173-191 DC Molor
MCA Maximum Overcument Protection (MOCP) Recommended Fuse Size External Dimensions Net weigh Heat exchanger Fan	Type x quantity Airfoer nite Motor type Motor Cutput Motor Cutput	A A A In (mm) Lbs (kg) CFM kW	0.24 15 15 Peeter, MUNSELL (0.7PB 9.20.4) 30-3718 x 9-11/32 x 11-25/32 (733 x 237 x 2 24.5 (11.1) Cross fn (Alummum fin and copper tube) Line See fan x 1 141-155-173-191 DC Molor 03 0.15
MCA Maximum Overcurrent Protection (MOCP) Recommended Fuse Size External Inten External Dimensions Net weigh Heat exchanger Fiel Sound measure land (diseasand in metho	Type x quantity Articer rate Motor type Motor Cutput Motor FLA Promotor Staters	A A A In jmm) Lbs [kg] CFM kW A A	0.24 15 15 Paste: MUNSELL (0.7PB 9.20.4) 30-716 x 9-11/32 x 11-25/32 (733 x 237 x 2) 24.5 (11.1) Cross fin (Alamman fin and copper tube) Line See fan x 1 141-152-173-191 DC Motor 63 0.19 2091.20.31
MCA Maximum Overcument Protection (MOCP) Recommended Fuse Size Edemtel finish External Dimensions Net weight Net weight Heat excitunger Fiet Sound pressure level (Measured in anechd Ar filter	Type x quantity Airfow rate Motor type Motor Cutput Motor FLA It: room)=sup>3 <fsup></fsup>	A A A (n. jmm) Ltss [eg] CFM KW A A dB(A)	0.24 15 15 Phontic, MUNISELL (0.7PB 9.200.4) 90-7/18 x 0-11/02 x 11-25/32 (733 x 237 x 2 24.5 [11,1] Cross fin (Aluminum fin and copper tube) Line Sce fan x 1 141-156-173-191 DC Molor 0.03 0.19 22-26-29-31 PP homescraft
MCA Maaimum Overcument Protection (MOCP) Recommended Fuse Size Edunnal Friah Edunnal Dimensions Net weight Heat exchanger Fan Sound pressure level (Vieseured in anecho Air filler	Type x quantity Article rate Motor type Motor Cutput Motor FLA 8: room)=sup>3=faup= Lacut (Hoto Pressure)	A A A In jmmj Ltn [eg] CFM kW A dB(A)	0.24 15 15 Pixete:, MUNEELL (0.7PB 9.200.4) 30-7/16 x 9-11/32 x 11-25/32 (733 x 237 x 2 24.5 [11.1] Cross fn (Alummum fin and copper tube) Los See tim x 1 141-158-173-191 DC Molor 03 0.19 22-26-29-31 PP horsepcords 14 (9.30) fram
MCA Maximum Overcurrent Protection (MOCP) Recommended Fuse Size External Dimensions Net weigh Heat exchanger Fan Sound pressure level (Measured in anecho Air filter Dismeter of refrigerant pipe (O.D.)	Type x quantity Airficer rate Motor type Motor Cutput Motor FLA It: room/=sup>3=thup> Liquid (High Pressure) Can Low Pressure)	A A A In (rm) Lts [kg] CFM kW A dB(A) In (rm) in frm)	0.24 15 15 Pleate: MUMSELL (0.7PB 9.20.4) 30-7/16 x 9-11/32 x 11-25/32 (733 x 237 x 21 24.5 (11.1) Cross fn (Akammum fin and copper tube) Line Sear fan x 5 141-158-173-191 DC Motor 03 0.19 22-28-29-31 PP heneysorth 1/4 (5.35) Flare 1/2 (15.36) Flare

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	INDOOR UNIT ACCESSORIES: PKFY-P06NLMU-	E
	3-Pin Connector	D PAC-71540
	BACnet [®] and Modbus Interface	D PAC-UKPRC001-CN-1
	CN24 Relay IO	CN24RELAV-KIT-CM3
0.0002012000	Connector and wire for Operation status/error using CN51	D PAC-725AD
Sontrol Interface	IT Extender	D PAC-WHS01IE-E
	kumo station" for kumo cloud"	PAC-WHS01HC-E
	Thermoslat Interface	D PAC-US444CN-1
lanata Ranara	Winsiasa Interface for kurno cloud ^a	PAC-USWH9002-WF-2
	Flush Mount Temperature Sensor	PAC-USSEN001-FM-1
Remate Senace	Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humility sensor for kumo cloud*	PAC-USWHS000-TH-1
Terminal Signal Adapter	Terminal Signal Adapter	C PAC-IT51AD-E
leminal signa Asapier	Terminal Signal Adapter	C PACHTS2AD-E
	Deluse Wred MA Remote Controller'	D PAR-40MAAU
Alred Remote Controller	Simple MA Ramote Controller	C PAC-YT53CRAU-J
	Touch MA Controller1	D PAR-CT01MAU-SB
Manhara Danasta Contactor	kumo touch" RedLINK" Wineless Controller	II MHK2
Ponemia Politicie Conzoler	Wireless MA Receiver	D PAR-FA32WA-W
	Blue Damand MultiTank — collection tank for use with multiple pumps	C21-014
	Blue Diamond Sensor Extension Cable 15 FL	C 13-100
Condensate	Drain Pan Level Sensor/Control	CI 89610E
	Fascia Kit for MicroBiue Pump, mounts the MicroBiue and sensor directly beneath indoor unit.	C T18-016
	Sauermann Condensate Pump	II 8/30-230
Terrograph Sailth	(304/600V/UL) (%s 2" X 4" utility box) - Black	C TAZ-M5303
DISCONDUC DWILD	(30A/800V/UL) [Rs 2" X 4" utility box] - White	II TAZ-MS303W

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EACH CONTRACTOR SHALL SECURE ALL PERMITS, TESTS AND INSPECTIONS AS REQUIRED FOR HIS WORK.

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INSTALL AIR CONDITIONING DUCTWORK, VRF EQUIPMENT, ERV EQUIPMENT REFRIGERATION PIPING, INSULATION, DIFFUSERS,

SHEETMETAL DUCTWORK SHALL BE PRIME GALVANIZED STEEL FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA

16. CONTROL WIRING, DEVICES, RELAYS, ETC. SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. POWER WIRING SHALL

 ALL REFRIGERATION PIPING IS TO BE INSULATED PEIC 2015 CODE REQUIREMENTS. ALL CONDENSATE DRAIN PIPING TO BE DISCHARGEE OUTDOORS OR MOP SINK BASED ON COORDINATION WOWNERS. CONDENSATE DRAIN PIPING MATERIAL AND INSULAT MATERIALS ARE PER MANUFACTURER'S INSTRUCTION ICC 2015 CODE REQUIREMENTS. (NOTE: CEILING IS NO A PLENUM RETURN). FLASHING OF ROOF CURBS TO BE DONE BY OWNER ROOFING CONTRACTOR. CURBS ARE PROVIDE BY THIS CONTACTOR. ERV EXHAUST AND BUILDING RETURN DUCTS ARE NINSULATED WITH "BIG BUBBLE DUCT INSULATION RACTOR. ERV EXHAUST AND BUILDING RETURN DUCTS ARE NINSULATED WITH "BIG BUBBLE DUCT INSULATION RACTOR. SUPPLY AND FRESH AIR INTAKE DUCTS ARE INSULATED WITH "BIG BUBBLE DUCT INSULATION RACTOR. SUPPLY AND RETURN DUCT FROM UNIT #10 (DUCTED AND) TO BE INSULATED WITH "BIG BUBBLE DUCT INSULATED WITH "BIG BUBBLE DUCT INSULATION RACTOR. SUPPLY AND RETURN DUCT FROM UNIT #10 (DUCTED AND) TO BE INSULATED WITH "BIG BUBBLE DUCT INSULATERS THE RATING TO R-6.0. CONCRETE FAD FOR UNIT #1 PUHY-HP144 TSNU-A IS BY OWNER'S G.C. 	R D TO TH TION AND T S S OT S D D D D BE
 1. ALL REFRIGERATION PIPING IS TO BE INSULATED PEICC 2015 CODE REQUIREMENTS. 2. ALL CONDENSATE DRAIN PIPING TO BE DISCHARGED OUTDOORS OR MOP SINK BASED ON COORDINATION WOWNER'S. 3. CONDENSATE DRAIN PIPING MATERIAL AND INSULAT MATERIALS ARE PER MANUFACTURER'S INSTRUCTION ICC 2015 CODE REQUIREMENTS. (NOTE: CEILING IS NO A PLENUM RETURN). 4. FLASHING OF ROOF CURBS TO BE DONE BY OWNER' ROOFING CONTRACTOR. CURBS ARE PROVIDE BY THIS CONTACTOR. 5. ERV EXHAUST AND BUILDING RETURN DUCTS ARE NINSULATED. 6. ERV SUPPLY AND FRESH AIR INTAKE DUCTS ARE INSULATED WITH "BIG BUBBLE DUCT INSULATION R-8.0" PLEASE NOTE THIS MATERIAL TO BE APPLIED DIRECT TO THE SHEETMETAL DUCT WHICH ALTERS THE RATING TO R-6.0. 7. SUPPLY AND RETURN DUCT FROM UNIT #10 (DUCTEI AHU) TO BE INSULATED WITH "BIG BUBBLE DUCT WHICH ALTERS THE RATING TO R-6.0. 8. CONCRETE PAD FOR UNIT #1 PUHY-HP144 TSNU-A IS BY OWNER'S G.C. 	R D TO ITH S S OT S D D D BE
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ALL TIONS.) BE
APPLIED DIRECT TO THE SHEETMETAL DUCT WHICH ALTERS THE RATING TO R-6.0. 8. CONCRETE PAD FOR UNIT #1 PUHY-HP144 TSNU-A IS BY OWNER'S G.C.	
ALL TIONS.	
R FILTER REMOVAL SERVICE CLEARANCE	
JNLINED PLENUM.	
G DAMPER	
No. Description Det	
No. Description Date 1 PRELIMINARY SET FOR 5/2/202	e 22
2 UPDATED EQUIPMENT 1/16/20 LAYOUT AND SCHEDULES	23
ST GREGORY CATHOLIC CHURCH	
ST GREGORY SCHOOL	
85 GREAT PLAIN RD DANBURY, CT 06811	
DETAILS AND SPECIFICATIONS	
Project Number 126-2	21
Drawn By T.H Checked By	∠ <u></u> <u></u> <u></u> <u></u>
3.0	<u>·</u>

AIR FLOW → - TRANSITION TO SUPPLY DUCT DUCT MATE FLANGE CONNECTION ALL AROUND W/1/8" NEOPRENE GASKET, BOLT, & WINGNUT ON SIDES. TYP. FOR SUPPLY & RETURN AIR CONNEC - HANGER RODS TO STRUCTURE (TYP.)

MOUNTING BRACKETS AND VIBRATION ISOLATORS SHALL BE PROVIDED WITH UNIT. PROVIDE FULL ACCESS FOI AND ALL SERVICE WORK.
 2'6" ALL SIDES.

RETURN A - VENTILATION DUCTWORK W/ VOLUN JPPLY, RETURN, & CONDENSATE MAINS ABOVE PROPOSED CEILING SEE FLOOR PLANS FOR MAIN SIZE & SCHEDULE

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Indoor Units: 15 / 1 to 36	Mar	tilation Units	Indoor Lipite															
Capacity: 156 / 72 to 187	(108.3%)	-																
* Connectable capacity is not actual capacity.		Lossnay	PMFY-P12NBMU-ERS New Class 1-1	5 PMFY-P12NBMU-ER New Class 1-2	5 PMFY-P12NBMU-EK New Class 1-3	> PMFY-P12NBMU-ER5 New Class 1-4	New Class 2-1	5 PMFY-P12NBMU New Class 2-3	ER5 PMFY-P12Nt New Clas	SMU-ERS PMFY-P12 Is 2-3 New C	INBMU-ER5	PFFY-P06NEMU-E Bath 1	PFFY-PO6NEMU-E Bath 2	: PEFY-P18NMAU-ь Corridor	New Corridor	PMFY-P08NBMU-E Office 1	R5 PMFY-P08NBMU-ER5 Office 2	
Total Pipe Length: 590.0 / 3280.0	feet				-	-	-	-			-		and the second			-		
Furthest Actual: 190.0 / 541.0	feet	110.	50 cfm	50 cfm	50 cfm	50 cfm	50 cfm	50 cfm	50 cf	fm 50	cfm	0 cfm	0 cfm	150 cfm	0 cfm	25 cfm	25 cfm	
Furthest Equiv.: 190.0 / 623.0	feet																	
After 1st Branch Actual: 160.0 / 295.0	feet Co	ooling Dry Bulb: 79.3 °F																
After 1st Branch Equiv.: 160.0 / 295.0	feet Co	ooling Wet Bulb: 73.8 °F																
Correction Factors	He	eating Dry Bulb: 47.7 °F																
Temperature: 102 106	Air	flow Volume																
Piping Length: 0.02 0.07		apply All. 600 cill																
Defrocting - 0.95	- <u>11-</u>	 																
User Derate: 100 100																		
										AE-200A - S	PECIFICA	TIONS CONT						STEN
Total Derate: 0.97 0.98		CITY MULTI		MODEL: A	E-200A		ISUBISHI ECTRIC			AL-200A - 0								
Additional Refrigerant: 26.5 lb								TE-200A CENTRALIZE							CONT			
Total Refrigerant Amount: 69.7 lb		Job Name:						TE-200A CENTRALIZE	DCONTROLLER						1. AE-2	0	S OF EQUIPMENT	2. EW
Cardinary (PD)		System Reference:				Date:		Item	Rated input		100-24	240 VAC ± 10%; 0.3–0.2 A 50/60	Hz Single-phase					
Conditions (F)				SP	ECIFICATIONS			Power Supply	Fuse		250 VA	AC 6.3 A Time-Lag type (IEC 601	127-2S.S.5)			AE 200	City Multi sustant	Г
Cooling	Subdra physical and single f			_	Supports dual set point functionality (Displays:	connected equipment dependent)		M-NET power feeding	capability		No spe	ecifications**Only an MN convert	ter can be connected.		ſ	M-NET 5	Indoor unit	L
Indoor DB 80.0 Humidity 51.8% Indoor V	WB 67.0	Monitor/ Depration	Litersy Schedule 01/61/2014 Hgmt Settings 12112W Block AHC 101	<u> </u>	 CITY MULTI® compressor speed a AdvancedHVAC Controller (DC-A) 	nd hi/low pressure PO) input/output status		Ambient conditions	Temperature	Operating Range	0° C to	o +40° C (+32° F to +104° F)				÷		6
Outdoor DB 88.0		1F Z	r 3 ¹ / ¹ odu 1 Zone 2		 Indoor unit free contact input/output Space temperature and humidity (it status from Smart ME or AI controller)		Amplent conditions	Humidity	Hon-operating rang	30% to	o 90% RH (no condensation)			l	Outdo	por unit	
Heating				POWER .	 Error code (Can be emailed auton Unoccupied setback up temperatulation 	atically to specified recipients) re range		Weight			2.3 kg	(5-5/64 lbs)					Remote controller	
Indoor DB 70.0				STATUS	Functions - Hold function (temporarily disable)	schedules indoor unit model depender	nt)	Dimensions (W x H x	D)		11-5/32	32 × 7-55/64 × 2-17/32 in. (284 ×	200 × 65 mm)					
Outdoor DB 3.0 Humidity 72.8% Outdoor	or WB 2.2				Initial setting Operation data back-up		157		•			i only to be used in a business	once of similar environment					
					Permits or prohibits remote controller	functions:												
			Bierate Coperate	A4-209	Change Operation Mode Change Operation Mode			WEB BROWSER REQ	JIREMENTS						CONTI Note	OLLING MORE THAN 50 UNIT	TS OF EQUIPMENT (WITH CONNECTION TO AN AE-20	00 CONTR
		AE-200A			 Change Set Point Temperature Filter Status 			Item	Rec	quirements					AE-200	s required when using AE-50		
		AE-200A is the Master ControlleMaster Controller can operate a	er Ind monitor up to 50 indoor units		 Change Fan Speed Change Air Direction 			_	CPU 1 G Memory 2 G	Hz or faster (2 GHz or faster reco	mmended)							
		 Expansion Controllers can expansion indoor units through the touchso 	and an AE-200A to operate and monit creen or web browser	itor up to 50 additional	External input/output signals can be u Emergency Stop (requires PAC-YG10	sed for batch operations such as Start/s HA)	Stop and	7	Screen Resolution 102	24 x 768 or higher recommended								
		 Network up to three AE-50A or E 200 indoor units 	EW-50A to one AE-200A to allow the	• AE-200A to manage up to	Pulse signal input can obtain watt-hou on the cumulative number of pulse sig	r meter, billing data and energy manag nal pulse signals directly input from a n	ement data based netering device		• Mi • Mi	icrosoft® Windows® 8.1 icrosoft® Windows® 10							M-NET	
		OPTIONAL LICENSES			Temperature set point range limits can User defined indoor unit functions:	be set for local remote controllers			• Ma OS/Java® execution * Ja	ac OS® X10.11 or later (Only CSV ava® execution environment (Oracl	File Download Tool is e [®] Java or AdoptOpe	is not guaranteed to work.) enJDK) is required. Verified to wo	ork properly on			AE-200	HUB	
		 LIC-BACnet Master: BACnet Fu Connected air conditioning u 	unction units can be monitored and operated	not only from the existing	 On/Off Monitoring and Operation 			PC	environment Or * Th	racle [®] Java8 (https://www.java.com ne version of the Oracle® Java car	n/download/) and Ado n be verified by clicking	loptOpenJDK11 HotSpot (https:// ing [Java] in the Control Panel.	adoptopenjdk.net/).				AE-50	
		using the BACnet [®] communi information.	ication protocol. See LIC-BACnet Da	ata Sheet for more	 Operation mode: Auto* (Dual or Single set point 				W	hen using a 64-bit Air-conditioner	Control Tool, install 6	64-bit Oracle® Java or AdoptOpe	nJDK				·]	ł
		LIC-Charge Master: Energy Allo The apportioned electricity b	ocation		∘ Heat ∘ Fan				• Mi • Mi • Mi	icrosoft® Internet Explorer® 11 icrosoft® Edge®							EW-50	
		 apportionment system that a a pulse generator function. T 	apportions electric energy using input The respective amounts of electric en	it from electricity meters with nergy can be apportioned	 Drying Setback* 			_	• Sa	afari® 13							M-NET	2
		based on the operating statumore information.	us and capacity of each tenant. See L	LIC-Charge Data Sheet for	Note: *R2 Series only (conne - Temperature Setting	cted equipment dependent)			Microsoft® Excel® • Mi	icrosoft® Excel® 2010 or later							M-NET	
		 LIC-PWeb Master: Online Perso Allows tenant managers and 	onal Browser d general users to control their respec	ective zone conditions via a	Fan SpeedAirflow Direction				tem	Requirements								f.
		networked PC, tablet, or mol the space. See LIC-PWeb D	bile phone with or without local remo Data Sheet for more information.	ote controllers installed in	Monitoring and Control: CITY MULTI® indoor units				Safari® 12	 iPhone 6s (Plus) (iOS 10.1.1 iPhone 7 (Plus) (iOS 10.1.1 o 	or later) or later)							
					 M & P Series units (requires M-Ne Lossnav[®] units 	t adapter)		Smartphone		IPhone SE (IOS 10.1.1 or late iPhone XR (IOS 12.1.1 or late	ər) ər)							
					 PWFY hydronic heat pump units DIDO controllers 				Google Chrome™ Ver. 83	• Galaxy SC-04J (Android™ 8. • HUAWEI P9 (Android™ 6.0 o	0.0) or later)							
					CITY MULTI® DOAS Interlock setting enables integratic	n of general equipment inputs/outputs	and indeer units		Sofori® 12	• iPad Air 2 (iOS 12.2.2 or later	ater) r)				WHEN	USING AN APPORTIONED EL	ECTRICITY BULLING FUNCTION	
					Scheduling	n of general equipment inputs/outputs a		Tablet	Google Chrome™ Ver 83	• 9.7-inch iPad Pro (iOS 10.1.1 • MediaPad T2 7 0 Pro (Androi	or later)				Notes AE-200	s required to use a billing function	ı.	
					- Annually	h-dd-					u ().1.1)				AE-200 "Charge	M-NET cannot be used when a bil ' license is requited to use a billing	lling function is used g function.	
					 Five pattern of weekly seasonal so Twenty four scheduled events per day 	hedule , indoor unit model dependent:		 Note: Registered trade Android is a register 	emarks ed trademark of Google LLC. ir	n the U.S. and other countries.								
					- ON/OFF - Mode			 Apple is a trademar Google is a register 	of Apple Inc., registered in the	e U.S. and other countries.								
					Temperature SettingVane Direction			Google Chrome is a Edge is a trademark	registered trademark of Google	e LLC. in the U.S. and other countr	ies. other countries						M-NET	
					- Fan - Speed			Internet Explorer is The official nerve of	a trademark or registered trade	mark of Microsoft Corporation in the	e U.S. and other cour	ntries.				AE-200	HUB	
					 Operation Prohibits Trend data: 			 iOS is a trademark of 	r registered trademark of Cisco	o in the U.S. and other countries an	d is used under licen	nse.					M-NET	
					Fan operation timeThermo-on time			 IPad is a trademark Mac OS is a tradem 	or Apple Inc., registered in the l ark of Apple Inc., registered in t	the U.S. and other countries.								
					 Set temperature Room temperature 			Microsoft Office ExcWindows is a trader	el is a product name of Microson nark or registered trademark of	ort Corporation in the U.S. Microsoft Corporation in the U.S. a	and other countries.						M-NET	- 2
					 Al Controller temperature and hun controller) 	idity (requires PAC-YG63-MCA, 2 inpu	ts total for each	The official name ofSafari is a trademar	Windows is "Microsoft® Windo or registered trademark of Ap	ws® Operating System". ple Inc. in the U.S.							EW-50	
					Memory back up via USB (universal s	erial bus) petwork) port		Nexus is a registereGalaxy is a tradema	d trademark of Google LLC. in the state of t	the U.S. and other countries. amsun Co., Ltd.							M-NET	- 7
					איזיז איזע איזע גאיזע אויז געראיז איזעראיז איזעראיז איזעראיז איזעראיז איזעראיז איזעראיז איזעראיז איזעראיז איזער	Sectory port		Note: Company name	or product name that is de	scribed in this manual may be	a trademark or a r	registered trademark of each	company					
										,							M-NET	- ~
		Specifications are subject to ch	nange without notice.		© 2021 Mitsubishi I	Electric Trane HVAC US LLC. All	rights reserved.	Specifications are su	pject to change without no	tice.		© 2021 Mitsub	ishi Electric Trane HVAC	US LLC. All rights reserved.	Specif	cations are subject to change	e without notice.	

CITY MULTI ®			
Job Name:			
System Reference:			Date:
Ata	GENERAL • Dual s • Compa • Quiet o • Multipl • Easily • Back a • Wirele	FEATURES et point functionality act, lightweight, flat-white, fla operation e fan speed settings removed intake grille filter fo and right-side wiring take-out ss receiver on board	t-panel, modern design r cleaning
	Specifications		System
	Unit Type		PKFY-P08NLMU-E
Cooling capacity (Nominal) ¹		BTU/H	8,000
Heating capacity (Nominal) ¹		BTU/H	9,000
Power source	Voltage, Phase, Hertz	and and a second	208/230V, 1-phase, 60 Hz
Power Consumption	Cooling	kW	0.03
10 Modelson March - Menterholm of Status - Accounting	Heating	kW	0.02
Current	Cooling	A	0.3
	Heating	A	0.2
		A	0.24
Maximum Overcurrent Protection (MOCP)		A	15
Recommended Fuse Size		A	15 Directio MUNISELL (0.7DD 0.2/0.4)
External limanaiana		la [mm]	Plastic, MONSELL (0.7PB 9.2/0.4)
Net weight			24 5 [11 1]
Heat exchanger			Cross fin (Aluminum fin and conper tube)
neatexchanger	Type x quantity		Line flow fan x 1
	Airflow rate	CEM	141_162_191_237
Fan	Motor type	C. M	DC Motor
	Motor Output	kW	03
	Motor FLA	A	0.19
Sound pressure level (Measured in anecho	ic room) ³	dB(A)	22–27–31–35
Air filter	······································	(/)	PP honeycomb
	Liquid (High Pressure)	In. [mm]	1/4 [6.35] Flare
Diameter of refrigerant pipe (O.D.)	Gas (Low Pressure)	In. [mm]	1/2 [12.70] Flare
Diameter of drain pipe	 A settempor et control d'Altra de La Recordance 	In. [mm]	I.D. 5/8 [16]

	INDOOR UNIT ACCES
	3-Pin Connector
	BACnet [®] and Modbus Interface
	CN24 Relay Kit
	Connector and wire for Operation status/error using CN5
Control Interface	IT Extender
	kumo station [®] for kumo cloud [®]
	Thermostat Interface
	Wireless Interface for kumo cloud®
Remote Sensor	Flush Mount Temperature Sensor
	Remote Temperature Sensor
	Wireless temperature and humitity sensor for kumo cloud
Terminal Signal Adapter	Terminal Signal Adapter
	Terminal Signal Adapter
	Deluxe Wired MA Remote Controller [†]
Wired Remote Controller	Simple MA Remote Controller [†]
	Touch MA Controller [†]
	kumo touch [™] RedLINK [™] Wireless Controller
Wireless Remote Controller	Wireless MA Receiver
	Blue Diamond MultiTank — collection tank for use with m
	Blue Diamond Sensor Extension Cable — 15 Ft.
Condensate	Drain Pan Level Sensor/Control
	Fascia Kit for MicroBlue Pump, mounts the MicroBlue an
	Sauermann Condensate Pump
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White

MITSUBISHI

▼ %FAN

2-wire

Simple MA R/C

Non-polarized

Simple MA R/C

MODE VANE

......

STEMP.

NOTES: ¹Cooling / Heating capacity indicated at the maximum value at operation under the following conditions: Cooling | Indoor: 80° F (26.7° C) DB / 67° F (19.4° C) WB; Outdoor 95° F (35° C) DB Heating | Indoor: 70° F (21.1° C) DB; Outdoor 47° F (8.3° C) DB / 43° F (6.1° C) WB

Specifications are subject to change without notice.

Remote controller

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Outdoor unit



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	DIMENSIONS:	PA
70[2-3/4]	14.5[9/10	6]
CENTRAL GLEER Room Set to D Altro COOLHEATEAN BRYING YENTI, SETBACK CON/OFF TEMP. CON/OFF	120[4-3/4]	

MODE Two VANE

FORM# M_SUBMITTAL_PAC-YT53CRAU-J - 202104 Specifications are subject to change without notice.

SSORIES: PKFY-P08NLMU-E	1
	D PAC-715AD
	PAC-UKPRC001-CN-1
	CN24RELAY-KIT-CM3
N51	D PAC-725AD
	D PAC-WHS01IE-E
	D PAC-WHS01HC-E
	D PAC-US444CN-1
	D PAC-USWHS002-WF-2
	D PAC-USSEN001-FM-1
	D PAC-SE41TS-E
ud®	D PAC-USWHS003-TH-1
	D PAC-IT51AD-E
	D PAC-IT52AD-E
	D PAR-40MAAU
	D PAC-YT53CRAU-J
	D PAR-CT01MAU-SB
	□ MHK2
	D PAR-FA32MA-W
multiple pumps	□ C21-014
	□ C13-103
	□ SS610E
and sensor directly beneath indoor unit	□ T18-016
	□ SI30-230
	TAZ-MS303
	TAZ-MS303W

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MODEL: PAC-YT53CRAU-J Date: SIMPLE MA REMOTE CONTROLLER (PAC-YT53CRAU-J) SPECIFICATIONS Controls group operation for up to 16 indoor units in a single group Supports both Fahrenheit and Celsius User defined functions: - ON/OFF - Operation mode: AUTO (R2-Series only), COOL, HEAT, FAN, DRY, SETBACK, or ADD Set temperature Fan speed setting Air flow direction - Set temperature range: depending on operation mode and indoor unit connected. Set temperature range limit: Simple MA allowable set temperature range can be reduced for cool and heat modes. LOSSNAY[®]: Simple MA for interlocked system can set high/low/Stop on LOSSNAY. Room temperature can be sensed either at the indoor unit (default) or at the remote controller. Diagnostics: Displays four-digit error code and error unit address. Grouping: Same group use only with other PAC-YT53CRAU-J Simple MA Controllers with up to two remote controllers per group. Addressing: No addressing required. Wiring: Uses two-wire, stranded, non-polar control wire for connecting TB15 connection terminal on the indoor unit. Requires crossover wiring for grouping across indoor units. Dimensions: 2-3/4 x 9/16 x 4-3/4" (70 x 14.5 x 120mm). NOTE: A MAC-334IF-E may be needed in order to connect to the indoor unit. Please see the compatibility charts for more information. Non-polarized 2-wire

IS: PAC-YT53CRAU-J



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EASTERN MECHANICAL SERVICES 3 Starr Street, Danbury, CT 06810 Ph. 203.792.7668 www.emsinc.us

GENERAL NOTES:

1. ALL REFRIGERATION PIPING IS TO BE INSULATED PER ICC 2015 CODE REQUIREMENTS. 2. ALL CONDENSATE DRAIN PIPING TO BE DISCHARGED TO OUTDOORS OR MOP SINK BASED ON COORDINATION WITH OWNER'S.

3. CONDENSATE DRAIN PIPING MATERIAL AND INSULATION MATERIALS ARE PER MANUFACTURER'S INSTRUCTION AND ICC 2015 CODE REQUIREMENTS. (NOTE: CEILING IS NOT A PLENUM RETURN).

4. FLASHING OF ROOF CURBS TO BE DONE BY OWNER'S ROOFING CONTRACTOR. CURBS ARE PROVIDE BY THIS CONTACTOR.

5. ERV EXHAUST AND BUILDING RETURN DUCTS ARE NOT INSULATED. 6. ERV SUPPLY AND FRESH AIR INTAKE DUCTS ARE INSULATED WITH "BIG BUBBLE DUCT INSULATION R-8.0".

PLEASE NOTE THIS MATERIAL TO BE APPLIED DIRECT TO THE SHEETMETAL DUCT WHICH ALTERS THE RATING TO R-6.0. 7. SUPPLY AND RETURN DUCT FROM UNIT #10 (DUCTED AHU) TO BE INSULATED WITH "BIG BUBBLE DUCT INSULATION R-8.0". PLEASE NOTE THIS MATERIAL IS TO BE APPLIED DIRECT TO THE SHEETMETAL DUCT WHICH ALTERS THE RATING TO R-6.0.

8. CONCRETE PAD FOR UNIT #1 PUHY-HP144 TSNU-A IS BY OWNER'S G.C.

Description Date No. PRELIMINARY SET FOR 5/2/2022 1 ESTIMATING UPDATED EQUIPMENT 1/16/2023 2 LAYOUT AND SCHEDULES

ST GREGORY CATHOLIC CHURCH ST GREGORY SCHOOL

85 GREAT PLAIN RD DANBURY, CT 06811

DETAILS / WIRING

DIAGRAM / SPECIFICATIONS 126 21 Project Number

Project Number	126-21
Date	4/30/2022
Drawn By	T.H.
Checked By	S.C.

M100.06

PERCAND CONTROLS CONTROLSCO STATUS	DIAGRAM DISPLAY 	SYMBOL LEGEND DESCRIPTION 'OWER WIRE ONTROL WIRE (EF. PIPE	CONT.No	PAGE	
LIVES: Specific and a second s	PIPING AND SYMBOL BRANCH F J1 CMY-Y J2 CMY-Y SYMBOL LIQUID PIF P1 5/8 P2 1/2 P3 3/8 P4 3/8 P5 3/8 P6 1/2 P7 3/8 P7 3/8 SYMBOL MODEL CR PAC-YT53/ LR PZ-62DR-E	D CONTROLS PIPE MODEL NAME (102LS-G2 (102SS-G2 PE/GAS PIPE SIZE 1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8			1
DIAGRAM SYMBOL LEGEND DISPLAY POWER WIRE REF. PIPE 16-2 AWG(5) TB-2 AWG(5) TB-2 AWG(5) TB-2 AWG(5) TB-2 AWG(5) TB-2 AWG(5) TB-2 AWG(5)				P8 001 Gp1 PMFY- P12NBMU-ER5	P8 P8 002 PMFY- P12NBM
	DIAGRAM SYME DISPLAY DES —/// POWE — CONT — REF.	30L LEGEND SCRIPTION ER WIRE ROL WIRE PIPE	DNT.No 16-2 AWG(S)	Diamond System Builder sw: 4.4.3.44 db: 4.4.3.13 1/16/2023 11:44 AM	CITY SY:
AE-200A					

CITY MULTI SYSTEM SCHEMATIC DWG.

This drawing is schematic in nature. Final routing of piping & wiring

shall be determined by the installing contractor and/or designer of record Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book. 1.25mm($\frac{1}{2}$ 6 AWG) : 1.25mm(16 AWG) or

more.





/ MULTI STEM SCHEMATIC DWG.

shall be determined by the installing contractor and/or designer of record Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book. 1.25mm(16 AWG) : 1.25mm(16 AWG) or more.

0.75mm(2 0 AWG) : between 0.5mm(24 AWG) and 0.75mm(20 AWG).²





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EASTERN MECHANICAL SERVICES S 3 Starr Street, Danbury, CT 06810 Ph. 203.792.7668 www.emsinc.us

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	<	01	7	Gp10
τN	14	TB5	LGH-	
		_ 28~16-2 AWO		VAZ-E
	L	R		

126-21 Project Number 4/30/2022 Т.Н.

ST GREGORY CATHOLIC

CHURCH

ST GREGORY SCHOOL

85 GREAT PLAIN RD

DANBURY, CT 06811

DETAILS AND PIPING LINE

DIAGRAM

Date

No.

Description

PRELIMINARY SET FOR 5/2/2022 ESTIMATING

M100.07

Date Drawn By S.C. Checked By