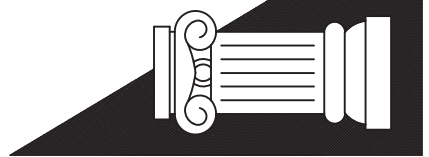


DATE: ISSUE
7.18.22 FOR BID

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TAPPAN FIRE DISTRICT
123 WASHINGTON STREET
TAPPAN NY, 10983

MECHANICAL EQUIPMENT
SCHEDULES

PROJECT #: 21-08

DRAWN BY:

CAD FILE: 21-08/P:/BID

DRAWING#:

M-6

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF
OUTDOOR UNIT SCHEDULE

System Tag		System 1	System 2
Tag Reference			IT ROOM
Nominal Data	M-NET Address	51, 52	
	Model Number	PURY-EP192TSNU-A	MUZ-GL12NA-U2
	Modules	P96, P96	
	Nominal Cooling Capacity (BTU/h)	192,000.0	12,000.0
	Nominal Heating Capacity (BTU/h)	215,000.0	14,400.0
	Cooling Efficiency IEER/IEER [SEER]	28.55 / 13.4	13 [23.1]
	Heating COP @ 47°F [HSPF]	3.825	3.84 [12.5]
	Nom System Connected Capacity (% of NOM)	117.2%	100.0%
Design Conditions	Design Cooling Outdoor Temp DB (°F)	90.0	90.0
	Design Heating Outdoor Temp WB (°F)	2.0	2.0
	Max Pipe Length from BC or 1st Joint (feet)	74.8	0.0
	Refrig Pipe Dim High/Low Pressure (inch) [See Note 4]	7/8 / 1 1/8	1/4 / 3/8
Performance Data	Corrected Cooling Total Capacity (BTU/h)	192,780.1	11,120.8
	Corrected Heating Capacity (BTU/h)	169,800.3	9,006.6
	Sound Pressure (dBA)	61.5/63	49/51
Compressor Data	Compressor Type	SCROLL	
	Compressor Quantity	2	
Preliminary Added Field Charge [See Note 5]		41.9	0.0
Electrical Data	Voltage / Phase	208/230V / 3-phase 3-wire	208/230V / 1-phase
	MCA 208/230 or [460V]	31/29, 31/29	9
	Recommended Fuse Size (RFS)	45/45, 45/45	15
	MOCP	45/45, 45/45	15
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	1, 2, 3, 4, 5, 6, 7, 8, 9

- Notes & Options:
- Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
 - Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
 - Efficiency values for IEER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted
 - For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstre
 - Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping i
 - Factory representatives shall review the project prior to and throughout the installation of CITY MULTI equipme
 - Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment in
 - Factory representatives shall provide on-site assistance for the BMS integration of the CITY MULTI equipment
 - Factory representatives shall provide end-user training on the CITY MULTI equipment upon completion of the i
 - Provide 24" Super Stand Kit

Qty	Model	Description	Tag
1	stock controller	Wireless remote controller	
12	PAR-40MAAU	MA remote controller	CTR1-DISPATCH,CTR1-CHIEFS,CTR1-1ST FL CORR,CTR1-OFFICERS,CTR1-ASSOC,CTR1-READY RM,CTR1-BOFC,CTR1-SEC/TREAS,CTR1-2nd FL CORR,CTR1-STORAGE,CTR1-MTG RM 1,CTR1-MTG RM 2
1	PURY-EP192TSNU-A	R410A R2 Series Outdoor Unit	
1	MUZ-GL12NA-U2	R410A MandS Series Outdoor Unit	IT ROOM
1	CMB-P1016NU-JA1	BC Controller Main	
3	PLFY-EP15NEMU-ER1	Ceiling-Cassette (Four-Way) Indoor Unit	DISPATCH,BOFC,SEC/TREAS
1	PLFY-EP12NEMU-E	Ceiling-Cassette (Four-Way) Indoor Unit	CHIEFS
2	PEFY-P15NMAU-E4	Ceiling-Concealed (Ducted) Indoor Unit	1ST FL CORR,2nd FL CORR
2	PLFY-EP08NEMU-ER1	Ceiling-Cassette (Four-Way) Indoor Unit	OFFICERS,ASSOC
1	PLFY-EP30NEMU-ER1	Ceiling-Cassette (Four-Way) Indoor Unit	READY RM
1	PLFY-P08NFMU-E	Ceiling-Cassette (Four-Way) Indoor Unit	STORAGE
2	PEFY-P36NMAU-E4	Ceiling-Concealed (Ducted) Indoor Unit	MTG RM 1,MTG RM 2
1	PKFY-P12NLMU-E.TH	Wall -Mounted Indoor Unit	UNIFORM
1	MSZ-GL12NA-U1	Wall -Mounted Indoor Unit	IT ROOM
1	CMY-R200NCBK	Twinning Kit	TWK1
1	AE-200A	System Remote Controller	CTR1
1	QSSB48M-24	Super Stand w/ 48in rails, 24in Tall	
1	QSSX48M-24	Super Stand Ext w/ 48in Rails, 24in Tall	
1	SWDN-1	Side Wind Deflector	
1	WDN-2	Front/Rear Wind Deflector	
7	PLP-41EAEU	Grille with 3D i-see Sensor™	DISPATCH,CHIEFS,OFFICERS,ASSOC,READY RM,BOFC,SEC/TREAS
1	SLP-18FAU	Decoration Panel	STORAGE
16	BV38BBSI	Ball Valve 3/8"	
16	BV58BBSI	Ball Valve 5/8"	
1	CMY-R302S-G1	Reducer	
1	MAC-334IF-E	Control Interface	IT ROOM

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNI
SCHEDULE

System Tag		System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 1	System 2
Tag Reference		DISPATCH	CHIEFS	1ST FL CORR	OFFICERS	ASSOC	READY RM	BOFC	SEC/TREAS	2nd FL CORR	STORAGE	MTG RM 1	MTG RM 2	UNIFORM	IT ROOM
Nominal Data	Room Name														
	M-NET Address	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Model	PLFY-EP15NEMU-ER1	PLFY-EP12NEMU-E	PEFY-P15NMAU-E4	PLFY-EP08NEMU-ER1	PLFY-EP08NEMU-ER1	PLFY-EP30NEMU-ER1	PLFY-EP15NEMU-ER1	PLFY-EP15NEMU-ER1	PEFY-P15NMAU-E4	PLFY-P08NFMU-E	PEFY-P36NMAU-E4	PEFY-P36NMAU-E4	PKFY-P12NLMU-E.TH	MSZ-GL12NA-U1
	Type	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Concealed (Ducted)	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Concealed (Ducted)	Ceiling-Cassette (Four-Way)	Ceiling-Concealed (Ducted)	Ceiling-Concealed (Ducted)	Wall -Mounted	Wall -Mounted
	Nominal Cooling Capacity (BTU/h)	15,000.0	12,000.0	15,000.0	8,000.0	8,000.0	30,000.0	15,000.0	15,000.0	15,000.0	8,000.0	36,000.0	36,000.0	12,000.0	12,000.0
	Nominal Heating Capacity (BTU/h)	17,000.0	13,500.0	17,000.0	9,000.0	9,000.0	34,000.0	17,000.0	17,000.0	17,000.0	9,000.0	40,000.0	40,000.0	13,500.0	14,400.0
Design Conditions	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1	72.0/60.1
	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
	Cooling Diversity Full/Partial [See Note 5, 6]	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
	Heating Diversity Full/Partial [See Note 5, 6]	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
Performance Data	Refrig Pipe Dim Liquid/Suction (inch)	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8	1/4 / 1/2	3/8 / 1/4
	Cooling Total Capacity (BTU/h)	12,852.0	10,281.6	12,852.0	6,854.4	6,854.4	25,704.0	12,852.0	12,852.0	12,852.0	6,854.4	30,844.8	30,844.8	10,281.6	11,120.8
	Cooling Sensible Capacity (BTU/h)	10,817.3	9,242.3	10,822.8	6,134.1	6,134.1	20,172.0	10,817.3	10,817.3	10,822.8	5,918.4	27,014.2	27,014.2	7,725.5	8,856.4
	Heating Capacity (BTU/h)	11,409.5	9,060.5	11,409.5	6,040.3	6,040.3	22,819.0	11,409.5	11,409.5	11,409.5	6,040.3	26,845.9	26,845.9	9,060.5	9,006.6
	Estimated Cooling Coil LAT (°F) / [LWLT]	55.2	57.7	51.6	62.5	62.5	48.9	55.2	55.2	51.6	54.5	52.2	52.2	47.8	51.7
	Estimated Heating Coil LAT (°F) / [LWLT]	89.7	86.1	93.5	81.4	81.4	98.1	89.7	89.7	93.5	89.8	91.7	91.7	100.4	92.6
Fan / Water Flow Data	Fan Speed Setting	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
	Peak Fan Airflow (cfm) / [Design gpm]	600	600	494	600	600	812	600	600	494	315	1271	1271	297	406
	Max Fan ESP Setting 208V/230V (in WG)			0.6/0.6						0.6/0.6		0.6/0.6	0.6/0.6		
	Sound Pressure Per Fan Speed 208V/230V (dBA)	28-29-30-31	27-29-30-31	27-31-34	27-29-30-31	27-29-30-31	28-31-33-35	28-29-30-31	28-29-30-31	27-31-34	26-30-33	35-39-43	35-39-43	24-31-37-41	19-22-30-37-45/19-22-30-37-43
Electrical Data	Voltage / Phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase
	Power Cooling 208V/230V (kW)	0.03	0.03	0.062	0.03	0.03	0.04	0.03	0.03	0.062	0.02	0.222	0.222	0.04	
	Power Heating 208V/230V (kW)	0.02	0.02	0.06	0.02	0.02	0.02	0.02	0.02	0.06	0.02	0.22	0.22	0.03	
	Electrical MCA/MFS	0.39/0.39/15	0.39/0.39/15	2.88/15	0.39/0.39/15	0.39/0.39/15	0.57/0.57/15	0.39/0.39/15	0.39/0.39/15	2.88/15	0.28/0.28/15	4.25/15	4.25/15	0.24/0.24/15	Powered by Outdoor
Notes / Options	Condensate Removal Rate (gal/hr)	0.42	0.26	0.46	0.19	0.19	1.09	0.42	0.42	0.46	0.25	0.92	0.92	0.59	0.34
	Actual Port Assignments														
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6

Notes & Options: