

AIR DEVICE SCHEDULE

MARK	FACE SIZE	NECK SIZE	MATERIAL	ACCESSORIES	FINISH	MANUFACTURER AND MODEL	NOTES
A	24X24	6"ø	ALUMINUM			METALAIRE-5700-AL	①②
B	24X24	8"ø	ALUMINUM			METALAIRE-5700-AL	①②
C	24X24	10"ø	ALUMINUM			METALAIRE-5700-AL	①②
F	12X12	6"ø	ALUMINUM			METALAIRE-5000-2-AL	①②
L	24X24	22X22	ALUMINUM			METALAIRE-CC5-AL	③④⑤⑥
M	12X12	10X10	ALUMINUM			METALAIRE-CC5-AL	③④⑤⑥
N	48X24	48X22	ALUMINUM			METALAIRE-CC5-AL	③④⑤⑥
L1	108X42	108X42	ALUMINUM		70% KYNAR (2 COAT)	RUSKIN-ELF6375DX	⑦⑧
L2	44X24	44X24	ALUMINUM		70% KYNAR (2 COAT)	RUSKIN-EME6325D	⑦⑧

- AIR DEVICE GENERAL NOTES:**
- ALL UNITS FOR LAY-IN T-BAR GRILLE SHALL BE PROVIDED WITH TYPE 6 BORDER CEILING MODULE (24X24).
 - ALL AIR DEVICES SHALL HAVE PAINTED WHITE FINISH UNLESS COLOR COORDINATED WITH ARCHITECT.
 - ALL 24X24 FACE AIR DEVICES INSTALLED IN HARD CEILINGS SHALL BE PROVIDED WITH T-BAR FRAME FOR PLASTER OR GYPSUM CEILINGS.
 - PROVIDE SQUARE TO ROUND TRANSITIONS AS REQUIRED FOR COORDINATION OF DUCT AND AIR DEVICE NECK.
 - COORDINATE FRAME TYPE WITH LATEST ARCHITECTURAL REFLECTED CEILING PLAN.
 - INSULATE THE TOPS OF ALL SUPPLY AIR DEVICES, REFER TO SPECIFICATIONS.
 - AIR DEVICES LOCATED IN HARD CEILINGS, SOFFITS, OR SIDE WALLS WITH INACCESSIBLE BRANCH DUCTS, SHALL BE EQUIPPED WITH AN OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.

- KEYED NOTES:**
- FLEX DUCT SIZE TO MATCH NECK SIZE. MINIMUM LENGTH OF FLEX SHALL BE 6'-0" TO MAXIMUM LENGTH OF 10'-0". BALANCE OF DUCT SHOWN ON PLAN SHALL BE RIGID STEEL DUCT SAME SIZE AS NECK SIZE, EXTERNALLY INSULATED.
 - PROVIDE RUNOUT BRANCH DUCT TO AIR DEVICE SAME SIZE AS AIR DEVICE NECK UNLESS OTHERWISE NOTED ON PLANS. PROVIDE METALAIRE MODEL OBD O.B.D. FOR AIR DEVICES IN HARD CEILING.
 - ALUMINUM 1/2"X1/2"X1/8" GRID.
 - AIR DEVICES USED FOR THE TRANSFER OF AIR DO NOT REQUIRE O.B.D. OR FILTER. PROVIDE METALAIRE MODEL OBD O.B.D. FOR AIR DEVICES IN HARD CEILING.
 - HORIZONTAL RUNOUT BRANCH DUCTS SERVING A SINGLE AIR DEVICE WITH:
 - 95 C.F.M. OR LESS SHALL BE 6"ø RIGID STEEL DUCT AND TRANSITION TO 6"ø FLEX DUCT PRIOR TO AIR DEVICE.
 - 100 TO 200 C.F.M. SHALL BE 8"ø RIGID STEEL DUCT AND TRANSITION TO 8"ø FLEX DUCT PRIOR TO AIR DEVICE.
 - 205 TO 370 C.F.M. SHALL BE 10"ø RIGID STEEL DUCT AND TRANSITION TO 10"ø FLEX DUCT PRIOR TO AIR DEVICE.
 - 375 TO 600 C.F.M. SHALL BE 12"ø RIGID STEEL DUCT AND TRANSITION TO 12"ø FLEX DUCT PRIOR TO AIR DEVICE.
 - 605 TO 900 C.F.M. SHALL BE 14"ø RIGID STEEL DUCT AND TRANSITION TO 14"ø FLEX DUCT PRIOR TO AIR DEVICE.
 - ALL ELSE SHALL BE 22X10 AND TRANSITION TO 22X22, UNLESS OTHERWISE NOTED.
 - MINIMUM LENGTH OF FLEX SHALL BE 6'-0" TO MAXIMUM LENGTH OF 10'-0".
 - PROVIDE METALAIRE MODEL JR ALUMINUM SQUARE TO ROUND DUCT TRANSITION.
 - PROVIDE WITH SHEETMETAL PLENUM, REFER TO MECHANICAL DETAILS FOR MORE INFORMATION.
 - LOUVER ASSEMBLY SHALL WITHSTAND (150MPH) AND HAVE MIAMI DADE N.O.A. FOR TESTS TAS-201 AND TAS-202. LOUVER ASSEMBLY SHALL BE INSTALLED PER MANUFACTURERS INSTALLATION DETAILS TO MAINTAIN ALL RATINGS.

DX SPLIT SYSTEM A/C SCHEDULE

AIR HANDLING UNIT DATA			
MARK		AH-2-1	AH-2-2
MANUFACTURER		TRANE	TRANE
MODEL		GAM048	GAM036
NET TOTAL COOLING CAPACITY (COOLING)	MBH	48.5	32.7
NET SENSIBLE CAPACITY (COOLING)	MBH	35.0	23.4
SUPPLY AIR QUANTITY	CFM	1671	1090
OUTSIDE AIR QUANTITY	CFM	560 (PRE-COND.)	165 (PRE-COND.)
MOTOR SIZE		3/4 HP	3/4 HP
STATIC PRESSURE (EXT/TOTAL)	IN. H2O	.8/-	.8/-
ELECTRICAL	V/ø/HZ	208/3/60	208/3/60
MINIMUM CIRCUIT AMPACITY	AMPS	44.0	42.0
ENERGY EFFICIENCY RATIO (E.E.R.)	BTUH/W	12.00	11.5
ENTERING AIR TEMP. DB/WB (COOLING)	°F/°F	72.00/61.00	73.00/62.00
LEAVING AIR TEMP. DB/WB (COOLING)	°F/°F	52.60/51.10	53.00/51.20
ELECTRIC HEAT/ STAGE	KW/-	10.8/1	10.8/1
FILTER		THROWAWAY	THROWAWAY
WEIGHT	LBS.	176	150
CONDENSING UNIT DATA			
MARK		CJ-2-1	CJ-2-2
MANUFACTURER		TRANE	TRANE
MODEL		4TTA3048	4TTA036
OUTDOOR TEMPERATURE	°F	95	95
ELECTRICAL CHARACTERISTICS	V/ø/HZ	208/3/60	208/3/60
MINIMUM CIRCUIT AMPACITY	AMPS	18.0	14.0

- NOTES:**
- ALL SEQUENCERS AND CONTROLLERS SHALL BE PROVIDED BY CONTROLS CONTRACTOR. THIS MANUFACTURER SHALL PROVIDE FACTORY INSTALLED TIME DELAY RELAYS FOR CONDENSING UNIT START/STOP DELAY.
 - PROVIDE WITH SINGLE POINT POWER CONNECTION. CU SHALL BE LOCKED IN HEATING MODE. PROVIDE FACTORY MOUNTED ELECTRIC HEAT. REFER TO DETAIL FOR MORE INFORMATION.
 - PROVIDE 3 SETS OF FILTERS: 1 DURING CONSTRUCTION, 1 AT SUBSTANTIAL COMPLETION, AND 1 SPARE.
 - REFER TO SPECIFICATIONS FOR WARRANTY BID ALTERNATES.
 - PROVIDE ANTIMICROBIAL COATING ON INTERIOR SURFACE OF AIR HANDLER.
 - PROVIDE CORROSION RESISTANT COATING:
 - A. CONDENSER COILS (TUBES AND FINS), EVAPORATOR COILS AND EXPOSED CABINERY SHALL BE PROVIDED WITH A FACTORY APPLIED CORROSION RESISTANT COATING.
 - B. CORROSION RESISTANT COATING SHALL RESULT IN LESS THAN A 1% LOSS OF RATED HEAT TRANSFER CAPACITY.
 - C. CORROSION RESISTANT COATING SHALL BE RESISTANT TO MATERIALS WITH A PH RANGE FROM 3 TO 11.
 - D. CORROSION RESISTANT COATING SHALL HAVE A SALT SPRAY TEST RATING OF AT LEAST 5,000 HOURS.
 - E. CORROSION RESISTANT COATING SHALL BE NON-FLAMMABLE.

100% OUTSIDE AIR DX SPLIT SYSTEM A/C SCHEDULE

AIR HANDLING UNIT DATA			
MARK		AH-1-1	OAU-1
MANUFACTURER		AAON	AAON
MODEL		V3-CRB	V3-BRB
NET TOTAL COOLING CAPACITY (COOLING)	MBH	118.49	63.66
NET SENSIBLE CAPACITY (COOLING)	MBH	82.33	27.56
SUPPLY AIR QUANTITY	CFM	2,155	725
OUTSIDE AIR QUANTITY	CFM	1,225	725
SUPPLY FAN TYPE		BACKWARD CURVED PLENUM	BACKWARD CURVED PLENUM
MAX SUPPLY FAN SPEED	RPM	2,433	885
SUPPLY FAN MOTOR SIZE	HP	1.10 HP	1.10 HP
STATIC PRESSURE (EXT/TOTAL)	IN. H2O	0.8/1.18	0.8/1.18
ELECTRICAL	V/ø/HZ	208/3/60	208/3/60
MINIMUM CIRCUIT AMPACITY	AMPS	43.0	43.0
ENERGY EFFICIENCY RATIO (E.E.R.)	BTUH/W	12.0	11.8
ENTERING AIR TEMP. DB/WB (COOLING)	°F/°F	91.00/80.00	91.00/80.00
LEAVING AIR TEMP. DB/WB (COOLING)	°F/°F	54.26/53.55	54.26/53.55
TOTAL COOLING CAPACITY (HG RE-HEAT)	MBH	36.0	13.0
LEAVING AIR TEMP. DB/WB (HG RE-HEAT)	°F/°F	70.0/60.4	70.0/59.7
FILTER		2 IN. MERV 8	2 IN. MERV 8
ELECTRIC HEAT/ STAGE	KW/-	22.5/4	11.3/2
SOUND POWER DB (DISCHARGE AT 250 HZ OCTAVE BAND)	dB	79	67
CONDENSING UNIT DATA			
MARK		CJ-1-1	CJ-1X
MANUFACTURER		AAON	AAON
MODEL		CFA-011-B-A-8	CFA-007-A-A-8
OUTDOOR TEMPERATURE	°F	95	95
ELECTRICAL CHARACTERISTICS	V/ø/HZ	208/3/60	208/3/60
COMPRESSOR-1/COMPRESSOR-2 RLA	AMPS	16.9/15.6	20.4/-
CONDENSER FAN-1/CONDENSER FAN-2 FLA	AMPS	2.8/2.8	2.8/-
MINIMUM CIRCUIT AMPACITY	AMPS	42.0	28.0

- NOTES:**
- UNIT SHALL BE SUPPLIED WITH FACTORY MOUNTED ELECTRIC HEAT WITH SCR CONTROL, PHASE LOSS AND BROWN OUT PROTECTION WITH AUTOMATIC RESET, FAN CYCLING, PREMIUM EFFICIENCY ECM BLOWER MOTOR, FACTORY MOUNTED SINGLE POINT OF CONNECTION, FACTORY MOUNTED DISCONNECT SWITCH FOR CONDENSING UNIT, AND ANTI-SHORT CYCLE TIMER. UNIT SHALL BE PROVIDED WITH DIGITAL SCROLL COMPRESSOR AND MODULATING HOT GAS REHEAT. PROVIDE UNIT WITH INTEGRAL SUCTION PRESSURE TRANSDUCER. PROVIDE MODULATING FAN HEAD PRESSURE CONTROL FOR CONDENSING UNIT FAN. ALL SEQUENCERS AND CONTROLLERS SHALL BE PROVIDED BY CONTROLS CONTRACTOR. THIS MANUFACTURER SHALL PROVIDE FACTORY INSTALLED TIME DELAY RELAYS FOR CONDENSING UNIT START/STOP DELAY.
 - PROVIDE 3 SETS OF FILTERS: 1 DURING CONSTRUCTION, 1 AT SUBSTANTIAL COMPLETION, AND 1 SPARE.
 - REFER TO SPECIFICATIONS FOR WARRANTY BID ALTERNATES.
 - REFER TO EQUIPMENT SPECIFICATIONS AND CONTROLS DRAWINGS FOR MANUFACTURER'S REQUIREMENTS ASSOCIATED WITH CONTROLS.
 - PROVIDE ANTIMICROBIAL COATING ON INTERIOR SURFACE OF AIR HANDLER.
 - PROVIDE CORROSION RESISTANT COATING:
 - A. CONDENSER COILS (TUBES AND FINS), EVAPORATOR COILS AND EXPOSED CABINERY SHALL BE PROVIDED WITH A FACTORY APPLIED CORROSION RESISTANT COATING.
 - B. CORROSION RESISTANT COATING SHALL RESULT IN LESS THAN A 1% LOSS OF RATED HEAT TRANSFER CAPACITY.
 - C. CORROSION RESISTANT COATING SHALL BE RESISTANT TO MATERIALS WITH A PH RANGE FROM 3 TO 11.
 - D. CORROSION RESISTANT COATING SHALL HAVE A SALT SPRAY TEST RATING OF AT LEAST 5,000 HOURS.
 - E. CORROSION RESISTANT COATING SHALL BE NON-FLAMMABLE.
 - F. ACCEPTABLE COATINGS (1) ADSIL, (2) ELECTROFIN, (3) BRONZ-GLOW
 - PROVIDE STAINLESS STEEL OR COMPOSITE, NON CORROSIVE DRAIN PAN.

OWNER: PASCO COUNTY
 PROJECT NAME: FIRE STATION NO. 17
 PROJECT ADDRESS: NEW PORT RICHEY, FL

THE FOLLOWING INFORMATION IS PROVIDED FOR COMPLIANCE WITH THE EXCEPTION LISTED IN THE 2017 FBC-ENERGY; SECTION 403.2.1, CALCULATION OF HEATING AND COOLING LOADS.

MECHANICAL SYSTEM INFO	UNITS	AH-1-1	AH-1-2	AH-1-3	AH-1-4	AH-1-5	AH-2-1	AH-2-2	OAU-1-1X
AREA	SF	3,413	63	365	385	58	2,439	1,484	-
SIZING METHOD		ASHRAE CLTD-CLF	ASHRAE CLTD-CLF	ASHRAE CLTD-CLF	ASHRAE CLTD-CLF	ASHRAE CLTD-CLF	ASHRAE CLTD-CLF	ASHRAE CLTD-CLF	ASHRAE CLTD-CLF
OUTDOOR DRY BULB	°F	91	-	-	-	-	-	-	91
OUTDOOR WET BULB	°F	80	-	-	-	-	-	-	80
INDOOR DRY BULB	°F	75	75	75	75	75	75	75	-
GRAINS WATER (DIFFERENCE)	GR/LB	35.3	0.3	14.0	9.5	0.3	9.3	7.6	73.2
TOTAL SENSIBLE LOAD	MBH	63.7	6.9	6.8	9.2	1.8	35.0	27.1	28.3
TOTAL LATENT GAIN	MBH	58.2	0.0	2.9	2.6	0.0	10.6	5.6	36.1
RELATIVE HUMIDITY	%	50	50	50	50	50	50	50	83
TOTAL COOLING REQUIRED / OUTSIDE AIR	MBH	121.9	6.9	9.7	11.8	1.8	45.6	32.7	64.4
TOTAL HEATING REQUIRED / OUTSIDE AIR	MBH	76.8	0.0	0.0	0.0	0.0	36.8	0.0	38.6

NOTES:

- OAU-1-1X IS A 100% OUTSIDE AIR UNIT THAT PRE-TREATS THE OUTSIDE AIR FOR AH-2-1 AND AH-2-2.
- THE ASHRAE CLTD-CLF SIZING METHODOLOGY (ALSO KNOWN AS THE TRANSFER FUNCTION METHOD) IS BASED ON THE ASHRAE FUNDAMENTALS HANDBOOK.

2017 FBC-ENERGY C403.2.1 - SUMMARY SHEET

VENTILATION SCHEDULE

UNIT NUMBER	NUMBER OF PEOPLE	OUTDOOR AIR		EXHAUST AND PRESSURIZATION			TOTAL DESIGN OUTDOOR INTAKE CFM
		AREA	PEOPLE+AREA CFM (CORRECTED)	EXHAUST AIR CFM	PRESS. AIR CFM	PRESS. & EX. CFM	
AH-1-1	22	3,415	1,125	1,070	155	1,225	1,225
AH-2-1	16	2,440	560	435	125	560	560
AH-2-2	15	1,485	165	35	130	165	165

- KEYED NOTES:**
- OUTDOOR AIR CALCULATION BASED ON 2017 FLORIDA BUILDING CODE (MECHANICAL) TABLE 403.3. VALUE LISTED IN TABLE IS THE CORRECTED O/A VALUE.

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 New Port Richey, Florida**

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FGA PROJECT NUMBER
19039

ISSUE DATE
05-25-20

REVISIONS
 DATE: _____
 DATE: _____
 DATE: _____

SHEET NUMBER
M4.1