

AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE																
CONDENSING UNIT																
CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER/PLV	REFRIG./LBS LIQ./SUCT. LINES	NO. FANS	FAN FLA(EA)	NO. COMP.	COMP.RLA(EA)	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES		
CU-1 & 2	YORK YCJD60S41S1	5.0	1	13	R410A	-	1	-	1	208/1/60	21.1/35	173	29X29X30	1-9		
AIR HANDLING UNIT																
AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P.(\"W.G.)	ENT. DB/WB	LEAV. DB/WB	ROWS/FPI	FAN HP/FLA	HEATER KW	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES
AHU-1 & 2	YORK AHP 60D3XH2	55.8	42.5	2000	SEE SCHEDULE	0.45	76.8/64.1	55.3/53.1	-	-	7.2	208/1/60	47.6/50	179	21.5X24.5X57	1-9

NOTES:

- UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL.
- PROVIDE WITH ELECTRIC EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES
- PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
- PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION.
- PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
- PROVIDE DISCONNECT BY ELECTRICAL CONTRACTOR FOR C.U., COORDINATE PRIOR TO PURCHASING
- PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 50 FT. EQUIV. LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
- CONTRACTOR TO COORDINATE WITH ELECTRICAL TO INSURE THAT THE CONDENSING UNIT AND RACK ARE TIED TO THE LIGHTNING PROTECTION SYSTEM ON THE ROOF.
- PROVIDE WITH CONDENSATE LINE SHUT OFF SWITCH.

COORDINATION NOTE:
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

FAN SCHEDULE																
SELECTION DATA				FAN DATA			MOTOR DATA			GENERAL DATA						
TAG	SERVICE AREA	MANUF.(*)	MODEL	CONFIG.	CFM	ESP (\"WG)	SONES	HP	RPM	DRIVE	VOLTAGE	WEIGHT (LBS)	DIMENSIONS L\"XW\"XHT	OPENING L\"XW\"	CONTROL	ACCESSORIES
EF-1	BATHROOMS	GREENHECK	SP-B70	CEILING	50	.2	1.1	45 WATT	563	DIRECT	120/1/60	10	14X12X8	*	LIGHT INTERLOCK	1-7

(*) APPROVED EQUAL MANUFACTURER: COOK, TWIN-CITY, ACME, PENN
ACCESSORIES NOTES:

- PROVIDE GRILLE COLOR PER ARCH. SPECS
- PROVIDE BACK DRAFT DAMPER
- LOCATE BACK DRAFT DAMPER AT DISCHARGE
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND INTEGRAL THERMAL OVERLOAD PROTECTION, COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY PURCHASING.
- PROVIDE BIRD SCREEN
- SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION ISOLATORS
- PROVIDE WEATHERHOOD DRAIN AND CORROSION COATING.
- PROVIDE WITH MOTORIZED DAMPER.
- PROVIDE MOTOR SIDE GUARD
- PROVIDE SPARK RESISTANCE CONSTRUCTION FAN

GENERAL FAN NOTES:

- MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT NORMAL POWER AND EMERGENCY POWER WIRING BY ELEC. CONTRACTOR
- ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32.
- FIELD ADJUST OPENINGS WITH STRUCTURE.
- ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS.
- COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT.
- SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION.
- ALL FANS ON ROOF SHALL BE PAINTED AS PER ARCHITECTURAL SPECS.

AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE																
CONDENSING UNIT																
CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER/PLV	REFRIG./LBS LIQ./SUCT. LINES	NO. FANS	FAN FLA(EA)	NO. COMP.	COMP.RLA(EA)	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES		
CU-3	SANYO CL1271	1.0	1	17	R410A	3/8\" / 5/8\"	1	-	1	16.2	120/1/60	10.9/20	75.0	29X22X11	1-9	
AIR HANDLING UNIT																
AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P.(\"W.G.)	ENT. DB/WB	LEAV. DB/WB	ROWS/FPI	FAN HP/FLA	HEATER KW	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES
AHU-3	SANYO	11.9	-	294	-	-	-	-	-	-	-	-	FROM CU	19.8	33X12X8	1-9

NOTES:

- UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: SANYO
- PROVIDE WITH ELECTRIC EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES
- PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
- PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION.
- PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
- PROVIDE DISCONNECT BY ELECTRICAL CONTRACTOR FOR C.U., COORDINATE PRIOR TO PURCHASING
- PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 50 FT. EQUIV. LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
- CONTRACTOR TO COORDINATE WITH ELECTRICAL TO INSURE THAT THE CONDENSING UNIT AND RACK ARE TIED TO THE EXISTING LIGHTNING PROTECTION SYSTEM ON THE ROOF.
- PROVIDE WITH CONDENSATE LINE SHUT OFF SWITCH (SAFE-T-SWITCH SSI).

COORDINATION NOTE:
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

OUTSIDE AIR CALCULATIONS										
(PER TABLE 6-1, ASHRAE 62.1-2004)										
AREA SERVED OR UNIT TAG	NET OCCUPIABLE AREA SQ.FT.	AREA OUTDOOR AIR RATE (RA) CFM/FT ²	TOTAL NO. OF PEOPLE	PEOPLE OUTDOOR AIR RATE (RP) CFM/PERSON	DEFAULT VALUES OCC. DENS. P/1000FT ² FL. AR.	TOTAL NO. OF PEOPLE FROM DEFAULT VALUES	COMBINED OUTDOOR AIR RATE CFM/PERSON	TOTAL CFM O/A REQUIRED	TOTAL CFM O/A PROVIDED	NOTES
AHU-1	1515	0.12	32	5	-	-	182+160	342	342	SEE NOTES
AHU-2	1930	0.12	35	5	-	-	232+175	407	407	SEE NOTES
TOTAL	3445.0	-	-	-	-	-	-	749.0	749.0	-

NOTES:

- CALCULATIONS ARE BASED ON ESTIMATED MAX. OCCUPANCY RATES PER ARCHITECTURAL PLANS AND ASHRAE 62.1-2004. VENTILATION RATES PER ASHRAE 62.1-2004.
- FOR OFFICE AND OTHER SIMILAR AREAS CALCULATIONS ARE BASED ON CONTINUOUS OCCUPANCY

SUPPLY AIR GRILLE SCHEDULE											
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	TITUS/ TDCA-AA	24X24	SEE SCH.	ALUM.	NOTE #3	OFF WHITE	OBD	4-WAY	MAX. 30	SEE SCH.	1-6
B	TITUS/ TDCA-AA	12X12	SEE SCH.	ALUM.	NOTE #3	OFF WHITE	OBD	4-WAY	MAX. 30	SEE SCH.	1-6
C	TITUS	LINEAR	SEE SCH.	ALUM.	NOTE #3	OFF WHITE	OBD	4-WAY	MAX. 30	SEE SCH.	1-6

(*) EQUIVALENT MANUFACTURER: METALAIR, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES:

- PROVIDE SPIN-IN COLLAR AT TRUNK TO FLEX DUCT CONNECTION.
- PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLAN
- REFER TO ARCHITECT PLANS FOR CEILING TYPE.
- FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
- FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
- PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE.

FLEX SCHEDULE	
6\"	50-125 CFM
8\"	130-200 CFM
10\"	205-330 CFM
12\"	335-450 CFM
14\"	455-600 CFM
16\"	605-700 CFM

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.

RETURN AIR GRILLE SCHEDULE											
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	TITUS/ PAR-AA	24X24	SEE SCH.	ALUM.	NOTE #1	OFF WHITE	OBD	-	MAX. 30	SEE SCH.	2-3
A	TITUS/ PAR-AA	12X12	SEE SCH.	ALUM.	NOTE #1	OFF WHITE	OBD	-	MAX. 30	SEE SCH.	2-3
A	TITUS	LINEAR	SEE SCH.	ALUM.	NOTE #1	OFF WHITE	OBD	-	MAX. 30	SEE SCH.	2-3

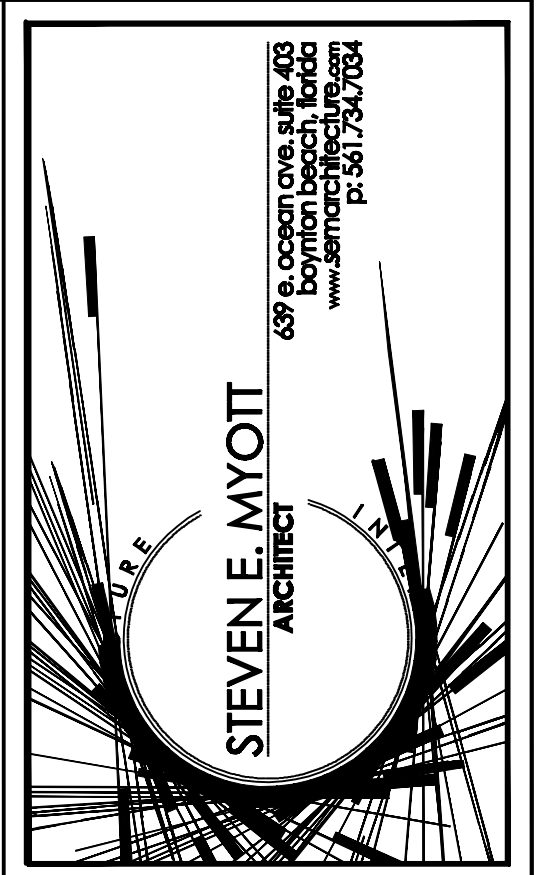
(*) EQUIVALENT MANUFACTURER: METALAIR, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES:

- REFER TO ARCHITECT PLANS FOR CEILING TYPE.
- FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
- PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE.
- CONTRACTOR TO PROVIDE ALTERNATE TO PROVIDE AND INSTALL SOUND BOOTS ON RETURN AIR AT ALL PRIVATE OFFICES. SEE DETAIL SHEET M7.1.

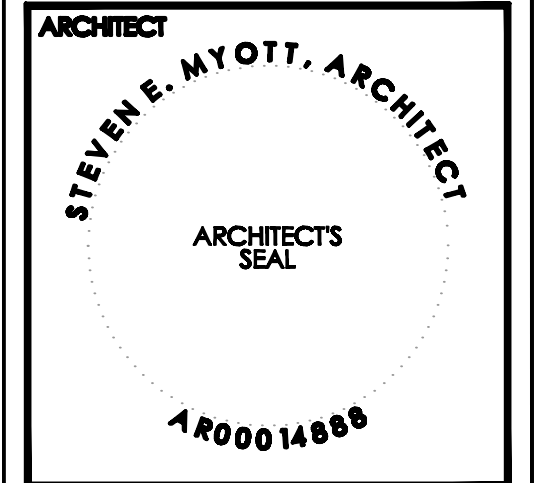
NECK SIZE	CFM RANGE	NECK SIZE	CFM RANGE
6X6	0-150 CFM	15X15	0-900 CFM
8X8	0-250 CFM	18X18	0-1350 CFM
10X10	0-400 CFM	22X22	0-2000 CFM
12X12	0-600 CFM		

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.



PRIVATE TUTORING SERVICES AT WELLINGTON - TENANT BUILD OUT -

PROFESSIONAL CENTER AT WELLINGTON
13421 SOUTHWEST BOULEVARD
VILLAGE OF WELLINGTON, FLORIDA 33421



ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREON ARE THE ORIGINAL AND UNREVISED WORK OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT

PROJECT NO: 2012-0053
DRAWN BY: MP
CHECKED BY: BB

NO. DATE: ISSUED FOR:
1 02/12 PERMIT SET

NO.	DATE	ISSUED FOR
1	02/12	PERMIT SET

ISSUED FOR PERMIT 01-07-13

KAMM CONSULTING PROJECT #: 2013-005
PROJECT MANAGER: MIKE PERKINSON

KAMM CONSULTING
1408 Orange Avenue
Fort Myers, Florida 33909
Phone: 772-333-1744 Fax: 772-993-1745
www.kammconsulting.com
Certification of Accreditation #0119

PRINCIPAL: Randy L. Brown Florida License #58232 Date: 01-07-13

M6.1