

Order Plans @

ROOFTOP UNIT SCHEDULE - (DX COOLING - REFRIGERANT R-410a - WITH GAS HEAT)

SYMBOL	CFM	NOMINAL TONNAGE	O.A. CFM	E.S.P.	COOLING CAPACITY			HEATING CAPACITY			EFFICIENCY		COMPRESSOR (EA)		COMB. FAN	POWER EXHAUST	POWER SUPPLY		OPERATING WEIGHT	MANUFACTURER					
					IC (BTUH)	SHG (BTUH)	SEER	SEER	IP/LV	INPUT (BTUH)	OUTPUT (BTUH)	SEER	HLA	HLA			HLA	MCA			MUSC	VOLTAGE			
RTU-LP22	1600	4	400	0.5"	48,900	38,700	14.0	12.0	N/A	130,000	108,300	81%	1	8.2	41	1	0.7	2.5	1	11.0	15	480V-3#	711 LBS	YSC049	
RTU-LP23	3000	7 1/2	800	0.5"	94,800	73,600	-	11.2	N/A	190,000 / 105,000	120,000 / 84,000	81%	2	SEE NOTE "A"	1	1.5	3.6	1	1.0	8.34	18.0	20	480V-3#	1,026 LBS	YSC092
RTU-LP24	4000	10	1000	0.5"	116,300	96,800	-	11.2	N/A	190,000 / 105,000	120,000 / 85,000	81%	2	SEE NOTE "B"	1	1.5	3.6	1	1.0	8.34	22.0	25	480V-3#	1,259 LBS	YSC0120

COMPRESSOR NOTES:
A. COMPRESSOR #1: 6.3 RLA, 55 LRA; COMPRESSOR #2: 6.3 RLA, 41 LRA
B. COMPRESSOR #1: 8.2 RLA, 66 LRA; COMPRESSOR #2: 6.1 RLA, 41 LRA

NOTES:
1. COOLING CAPACITIES BASED ON 95° AMBIENT, 80/87 ENTERING AIR.
2. PROVIDE ALL UNITS WITH ROOF CURB, DDC THERMOSTAT AND CONTROLLER (BY GAS VENDOR), 2" THROWAWAY FILTERS (MERV 8 MINIMUM), COMPARATIVE ENTHALPY ECONOMIZER (RTU-LP23, LB24), INTERMITTENT PILOT IGNITION (2-STAGE GAS HEAT; RTU-LP23, LP24), CONDENSER COIL HAIL GUARDS, POWER EXHAUST (RTU-LP23, LB24) AND HINGED ACCESS DOORS WITH "DOOR-LESS" ENTRY.
3. ALL UNITS SHALL BE AGA CERTIFIED, U.L. LABELED, AND ASHRAE 90.1 COMPLIANT.
4. PROVIDE EACH UNIT WITH A IONIZATION TYPE SMOKE DETECTOR, INSTALLED IN THE RETURN DUCT W/ WIRE TO SHUT DOWN THE UNIT UPON ACTIVATION. SMOKE DETECTOR SHALL BE SUPPLIED, W/ WIRE FOR INTERFACE WITH FIRE ALARM SYSTEM AND UNIT SHUTDOWN BY THE ELECTRICAL CONTRACTOR. SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN DUCT BY THE MECHANICAL CONTRACTOR.
5. PRIMARY COOLING COIL DRAIN PAN SHALL BE PROVIDED WITH A FLOAT SWITCH BY UNIT MFR; ACTIVATION OF THE FLOAT SWITCH SHALL SHUT DOWN UNIT AND SEND AN ALARM TO THE CENTRAL DAS.

DUCTLESS SPLIT SYSTEMS

INDOOR UNIT										OUTDOOR UNIT															
SYMBOL	ROOM NO.	CFM	OPERATING WEIGHT	MANUFACTURER	ELECTRICAL DATA	SYSTEM COOLING CAP.	HEATING CAP.	COMPRESSOR	ELECTRICAL DATA	OPERATING WEIGHT	MANUFACTURER	ALLOWABLE LINE-SET LENGTHS	SYMBOL		LOCATION	TC (BTUH)	SHG (BTUH)	(BTUH)	RLA	MCA	FUSE VOLTAGE	WEIGHT	MIN LENGTH	MAX LENGTH	96" TOTAL
A/C-1	ELEC ROOM	549	28.5 LBS	FTXN24MVJU	* * 208V-1#	24,000	18,000	28,800	12.0	18.3	20	93 LBS	ODU-1	ROOF	24,000	18,000	28,800	12.0	18.3	20	208V-1#	93 LBS	9'	9'	96"

NOTES:
1. ALL UNITS SHALL BE U.L. LISTED AND HAVE A MINIMUM SEER OF 15
2. COOLING CAPACITIES ARE BASED ON 95° AMBIENT, 80° ENTERING AIR DRY BULB, 67° ENTERING AIR WET BULB. AIRFLOWS INDICATED ARE AT 'HIGH' SPEED.
3. MOUNT UNITS ON ROOF ON EQUIPMENT SUPPORT RAILS AS MFG. BY ROOF PRODUCTS AND SERVICE CORP. (OR EQUAL).
4. PROVIDE MANUFACTURER'S SUGGESTED CLEARANCES AROUND UNIT.
5. PROVIDE UNITS WITH MANUFACTURER'S WIND BATTLES OR LOW AMBIENT CONTROLS FOR COOLING OPERATION DOWN TO 0° F. (WATER COMPRESSOR, W/ WIRE THERMOSTAT (WALL-MOUNTED))
6. PROVIDE OUTDOOR UNITS WITH 6 YEAR EXTENDED COMPRESSOR WARRANTY.
7. SEE MANUFACTURER'S RECOMMENDATIONS FOR REQUIRED ADDITIONAL REFRIGERANT CHARGE AND RECOMMENDED LINE-SET LENGTHS.
8. REFRIGERANT PIPING AND WIRING FOR WALL-MOUNTED UNITS SHALL BE ROUTED IN WALL WHERE FEASIBLE. ANY EXPOSED PIPING SHALL BE ROUTED IN LINE-SET COVERS (DIVERSITECH SPEEDICHANNEL OR EQUAL).
* INDOOR UNIT POWER IS FED FROM OUTDOOR UNIT. ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING FROM OUTDOOR UNIT AND EXTEND POWER FROM OUTDOOR UNIT TO INDOOR UNIT. COORDINATE FINAL LOCATIONS WITH ELECTRICAL CONTRACTOR.

GRILLE AND DIFFUSER SCHEDULE

SYMBOL	SERVICE	CFM RANGE	FACE SIZE	NECK SIZE	TYPE	ORD	PRICE
A	SUPPLY	0 - 100	24x24	6x6	LOUVERED	NO	SMD
B	SUPPLY	100 - 275	24x24	6x6	LOUVERED	NO	SMD
C	SUPPLY	275 - 450	24x24	12x12	LOUVERED	NO	SMD
D	RET/EX	0 - 1750	24x24	22x22	LOUVERED	NO	SMD
E	EXHAUST	100	NK#FRAME	12x6	LOUVERED	YES	S3
F	SUPPLY	250 - 400	4'-0" LONG x 8 SLOTS (1" EA.)	SLOT	NO	SS1	
G	RETURN	1500	8'-0" LONG x 8 SLOTS (1" EA.)	SLOT	NO	SS10	

NOTES:
1. ALL CEILING AND WALL MOUNTED DEVICES SHALL BE FINISHED WITH WHITE FINISH.
2. ALL DEVICES SHALL BE FURNISHED WITH FRAMES SUITABLE TO THE TYPE OF INSTALLATION REQUIRED.
3. FOR SYMBOL "B" RETURN GRILLE PROVIDE A 6" DEEP FULL SIZE PLATE REFER TO DWG 2/W201
4. GRILLES MARKED "TI" SHALL BE TYPE 24x24-PRC-PPD2, PROVIDE VAV COOLING AND VAV HEATING. A WALL MOUNTED THERMOSTAT WILL PROVIDE ROOM TEMPERATURE SENSING AS WELL AS ROOM ADJUSTMENT FOR HEATING AND COOLING. PROVIDE BAGNET SYSTEM INTERFACE WITH ROOM ADJUSTMENT. PROVIDE PRESSURE RELIEF COLLAR (PRC).
5. FOR SYMBOL "D" AND "G" PROVIDE SLOT DIFFUSERS WITH LINED SLOPED SHOULDER PLENUM BOXES
* MEETS EXISTING BUILDING STANDARD

FAN SCHEDULE

SYMBOL	LOCATION	TYPE	CFM	APPROX. S.E.	DRIVE	FAN RPM	ELECTRICAL DATA	MANUFACTURER	ACCESSORIES	CONTROLS
F-1	ROOF	EXHAUST	500	0.50"	BELT	1570	1/4 120V-1#	GREENECK	GB-081	A,B,D,E 2
KZF-1	ROOF	EXHAUST	3500	1.50"	BELT	1414	3 480V-3#	CAPTIVE AIRE		
KZF-2	ROOF	EXHAUST	1800	1.40"	BELT	1107	1 480V-3#	DUIBOFA	A,B,D,P,Q,U	7

ACCESSORIES:
A: DISCONNECT SWITCH
B: GRAVITY BACKDRAFT DAMPER
C: MOTORIZED BACKDRAFT DAMPER
D: PREFAB ROOF CURB
E: BRODSOREN
F: ACOUSTICAL LINING
G: HANGING BRACKETS WITH VIBRATION ISOLATION
H: WL WALL LOUVER DISCHARGE
I: RC OR GR ROOF CAP (FLAT ROOF) OR RJ ROOF CAP (PITCHED ROOF)
K: WALL MOUNTING COLLAR
L: INLET GUARD

CONTROLS:
M: 2" WASHABLE ALUMINUM FILTERS
N: MOTORSIDE FAN GUARD
O: EXHAUST GRILLE
P: U.L. 762
Q: VENTED ROOF CURB EXTENSION
R: COMBINATION KITCHEN HOOD FAN CURB
S: INTERLOCK WITH FLAME HOOD
T: PROVIDE DRAIN PLUG ACCESSORY
U: VFD

NOTES:
1. ALL FANS SHALL BE U.L. LISTED AND LABELED AND SHALL BE AMCA CERTIFIED FOR SOUND AND AIR FLOW. ALL FANS INSTALLED INSIDE, ABOVE, OR ADJACENT TO OCCUPIED SPACES SHALL HAVE A MAXIMUM 9.0 INLET SONE LEVEL.
2. ALL FANS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
3. MECHANICAL CONTRACTOR SHALL PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AS REQUIRED.

adwarchitects
environmentsforlife
architecture planning interiors
8 coliseum centre,
2815 coliseum drive, suite 500
charlotte, north carolina 28217
t) 704 379 1919
f) 704 379 1920
www.adwarchitects.com



RICHMOND
COMMUNITY COLLEGE
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BID DOCUMENTS

MECHANICAL SCHEDULES,
NOTES AND LEGEND

DATE 4-5-2019
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REVISIONS

NO	DATE	DESCRIPTION:

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