

SUPPLY AIR DEVICES							
MARK	NECK SIZE	CFM RANGE	MAX TOTAL ΔP	MAX NC	TITUS MODEL NO.		
					SERIES	ACCESSORIES	REMARKS
S1 —	4"ø NECK	UP TO 85	0.08"	30	TMSI	①	12x12 SQUARE CEILING DIFFUSER WITH OPPOSED BLADE DAMPER AND INSULATION BLANKET
	5"ø NECK	86–125	0.08"	30	TMSI		
	6"ø NECK	126–160	0.08"	30	TMSI		
S1 —	6"ø NECK	161–180	0.08"	30	TMSI	①	24x24 SQUARE CEILING DIFFUSER WITH OPPOSED BLADE DAMPER AND INSULATION BLANKET
	8"ø NECK	181–310	0.08"	30	TMSI		
	10"ø NECK	311–440	0.08"	30	TMSI		
	12"ø NECK	441–590	0.08"	30	TMSI		
	14"ø NECK	591–750	0.08"	30	TMSI		
	15"ø NECK	751–825	0.08"	30	TMSI		
EXHAUST DEVICES							
E1 —	6x6	UP TO 115	0.08"	30	50F		1/2" EGGRATE RETURN GRILLE W/ ALUMINUM BORDER AND GRID
	8x8	116–250	0.08"	30	50F		
	10x10	251–390	0.08"	30	50F		
	12x12	391–585	0.08"	30	50F		
	14x14	586–760	0.08"	30	50F		
	16x16	761–1050	0.08"	30	50F		
RETURN DEVICES							
R1 —	6"ø NECK	UP TO 115	0.08"	30	8R		24x24 PERFORATED FACE RETURN
	8"ø NECK	116–200	0.08"	30	8R		
	10"ø NECK	201–310	0.08"	30	8R		
	12"ø NECK	311–450	0.08"	30	8R		
	14"ø NECK	451–600	0.08"	30	8R		
	15x15 NECK	601–930	0.08"	30	8R		
X XXX SERVICE AND MARK NUMBER (ON PLANS) S E R SUPPLY EXHAUST RETURN					ACCESSORIES: ① OBD		
NOTES: 1. CEILING DEVICES FURNISHED SHALL BE COMPATIBLE WITH CEILINGS SPECIFIED BY ARCHITECT. 2. UNLESS OTHERWISE NOTED, PROVIDE SOUND ATTENUATING FLEX DUCT AT CONNECTION. 3. PROVIDE SUPPLY AIR CEILING DEVICES WITH 4–WAY THROW PATTERN, UNLESS OTHERWISE INDICATED.							
SUPPLY RUNOUT SIZES (U.N.O.)				RETURN RUNOUT SIZES (U.N.O.)			
CFM_RANGES	DUCT_SIZE			CFM_RANGES	DUCT_SIZE		
0–100	6"ø			0–75	6"ø or 6/6		
101–130	7"ø			76–140	7"ø or 8/6		
131–200	8"ø			141–190	8"ø or 8/8		
201–260	9"ø			191–250	9"ø or 10/8		
261–400	10"ø			251–320	10"ø or 10/10		
401–500	11"ø			321–420	11"ø or 12/10		
501–620	12"ø			421–520	12"ø or 12/12		
621–790	14"ø			521–800	14"ø or 14/12		
* RUNOUT SIZES TO BE USED ONLY IF NOT NOTED ON PLANS.							

SPLIT SYSTEM HEAT PUMP HVAC UNIT																			
INDOOR UNIT											OUTDOOR UNIT						ACCESSORIES	NOTES	
MARK	CFM	O.A. CFM	FAN HP	COOLING DATA				AUXILIARY HEATING			MANUFACTURER MODEL NUMBER	MARK	DESIGN TEMP.		MANUFACTURER MODEL NUMBER	VOLTAGE			MCA/MOCP
				EATdb	EATwb	SENS. MBH	TOTAL MBH	KW RATING	VOLTAGE	MCA/MOCP		db	wb						
F=1	1,950	200	3/4	80	67	45.9	58.4	15	208/1/60	97 / 100	CARRIER / FT5A	HP=1	95°	75°	CARRIER / 27TPA	208/1/60	35 / 60	1,2,3,4,5,6	1,2,3
F=2	210	—	—	80	67	—	9.0	—	—	—	CARRIER / 45MHHAQ09XC3	HP=2	95°	75°	CARRIER / 37MHRAQ09AA3	208/1/60	14 / 20	1,2,3,4,5,7,8	2,4,5
F=3	210	—	—	80	67	—	9.0	—	—	—	CARRIER / 45MHHAQ09XC3	HP=3	95°	75°	CARRIER / 37MHRAQ09AA3	208/1/60	14 / 20	1,2,3,4,5,7,8	2,4,5
F=4	210	—	—	80	67	—	9.0	—	—	—	CARRIER / 45MHHAQ09XC3	HP=4	95°	75°	CARRIER / 37MHRAQ09AA3	208/1/60	14 / 20	1,2,3,4,5,7,8	2,4,5
F=5	210	—	—	80	67	—	9.0	—	—	—	CARRIER / 45MHHAQ09XC3	HP=5	95°	75°	CARRIER / 37MHRAQ09AA3	208/1/60	14 / 20	1,2,3,4,5,7,8	2,4,5

ACCESSORIES:
1. PROVIDE 5 YEAR COMPRESSOR WARRANTY.
2. CONDENSING UNIT ON COMPOSITE PAD.
3. CRANKCASE HEATER.
4. FREEZESTAT.
5. HIGH / LOW PRESSURE CUTOUTS.
6. TWO-STAGE COOLING
7. LOW AMBIENT
8. WIRELESS CONTROLLER, WALL MOUNTED.

NOTES:
1. ROUTE 3/4" CONDENSATE TO HUB DRAIN IN STORAGE.
2. ROUTE REFRIGERANT PIPING FROM OUTDOOR UNIT TO INDOOR UNIT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR FAN COIL AND AUXILIARY HEAT.
4. PROVIDE SINGLE POINT ELECTRICAL TO OUTDOOR UNIT.
5. ROUTE CONDENSATE TO GRADE.

LEGEND	
SYMBOL	DESCRIPTION
AC	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
CU	CONDENSING UNIT
EF	EXHAUST FAN
F	FURNACE
OA	OUTSIDE AIR
RA	RETURN AIR
=====	SUPPLY DUCTWORK
=====	RETURN DUCTWORK
=====	EXHAUST DUCTWORK
☒	SUPPLY AIR (DENOTES FOUR WAY DIFFUSER)
☐	RETURN AIR
☐	EXHAUST AIR
☐	SUPPLY DUCT UP
☐	RETURN / EXHAUST DUCT UP
☐	INDICATES KEY NOTES
☐	AIR DEVICE #1 CFM AIR QUANTITY } SEE SCHEDULE
— MVMD	MANUAL VOLUME BALANCING DAMPER

FAN SCHEDULE													
MARK	CFM	SPWG. INCHES	RPM	SONES	ELECTRICAL			SERVICE	ACCESSORIES	MANUFACTURER	MODEL NO.	INTERLOCK	REMARKS
					HP (WATTS)	VOLTAGE	STARTER/ DISCONNECT						
EF=1	1,000	0.375"	1725	—	1/3	120/1/60	MAN	EF	1,2,3,4,5	LOREN COOK	100 ACEB	WALL SWITCH	—
EF=2	425	0.50"	1466	—	1/6	120/1/60	MAN	EF	1,2,3	LOREN COOK	80 ACEB	NONE	FAN TO RUN CONTINUOUSLY

SERVICE:
EF – EXHAUST FAN

ACCESSORIES:
1. GRAVITY BACK-DRAFT DAMPER
2. ROOF CURB
3. SPEED CONTROLLER
4. DIGITAL WALL TIMED OVERRIDE SWITCH

STARTER/DISCONNECT:
MAN – MANUAL STARTER WITH PILOT LIGHT FOR "RUN" AND HANDLE LOCK-OFF FOR DISCONNECTING MEANS

ELECTRIC UNIT HEATER SCHEDULE									
MARK	CFM	ELECTRICAL				CAPACITY BTU/HR OUTPUT	MANUFACTURER & MODEL NO.	ACCESSORIES	REMARKS
		VOLTAGE	HP	KW	AMPS				
EUH=1	910	208/3/60	1/20	15.0	36.1	36,000	QMARK MUH–15–2	1,2,3,4,5	SEE NOTES
EUH=2	910	208/3/60	1/20	15.0	36.1	36,000	QMARK MUH–15–2	1,2,3,4,5	SEE NOTES

NOTES:
1. MOUNT UNIT HEATERS MINIMUM 12" AFF.

ACCESSORIES:
1. FURNISH WITH REMOTE THERMOSTAT W/ SUMMER FAN OVER-RIDE.
2. FURNISH SUSPENDED MOUNTING HARDWARE.
3. POWER DISCONNECT.
4. LOUVER DIFFUSER.
5. PROXIMITY SWITCH FOR DOOR BY OTHERS.

OUTSIDE AIR REQUIREMENTS (ASHRAE 62.1-2019)										
AREA SERVED	AREA CLASSIFICATION	UNIIT SERVED	FLOOR AREA (SF)	OA RATE CFM/SF	CFM	OCCUPANCY PEOPLE / 1000 SF	TOTAL PEOPLE	CFM / PERSON	CFM	TOTAL OA CFM
BEDROOM 1	BEDROOM	F-1	120	0.06	7	10	1	5	6	13
BEDROOM 2	BEDROOM	F-1	120	0.06	7	10	1	5	6	13
BEDROOM 3	BEDROOM	F-1	120	0.06	7	10	1	5	6	13
BEDROOM 4	BEDROOM	F-1	120	0.06	7	10	1	5	6	13
STORAGE	STORAGE	F-1	15	0.06	1	2	0	5	0	1
CORRIDOR	CORRIDOR	F-1	175	0.06	11	0	0	0	0	11
MENS BATH	TOILET	F-1	53	0	0	0	0	0	0	0
WOMENS BATH	TOILET	F-1	53	0	0	0	0	0	0	0
KITCHEN	KITCHEN	F-1	252	0.12	30	20	5	7.5	38	68
ENTRY DISPATCH	OFFICE	F-1	200	0.06	12	5	1	5	5	17
MEDICAL SUPPLIES	STORAGE	F-1	52	0.12	6	2	0	5	1	7
TELE SERVER	STORAGE	F-1	32	0.06	2	2	0	5	0	2
TOILET	TOILET	F-1	43	0	0	0	0	0	0	0
MECH	STORAGE	F-1	41	0.06	2	2	0	5	0	3
RECREATION AREA	LIVING ROOM	F-1	135	0.06	8	10	1	5	7	15
LAUNDRY	LAUNDRY	F-1	45	0.12	5	10	0	5	2	8
										184



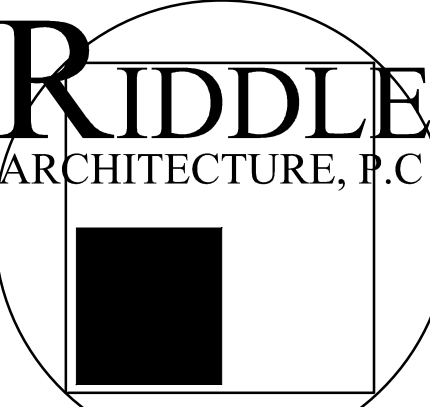
REVISIONS

#	DATE

A NEW
EMS
FACILITY
FOR:

OCONEE
COUNTY

WATKINSVILLE,
GEORGIA



497 BROOMSDGE COURT
BOLIVIA, NC
28422
(404) 285-8646

TITLE: HVAC
SCHEDULES AND
DETAILS

JOB #: 2502

DATE: 09.11.26

SHEET #

M2