

DEDICATED OUTSIDE AIR UNIT W/ENERGY RECOVERY SCHEDULE																			
No.	SUPPLY FAN			EXHAUST FAN			SUMMER CONDITIONS					WINTER CONDITIONS					MANUFACTURER		
	CFM	ESP (IN. WC)	MIN. HP	CFM	ESP (IN. WC)	MIN. HP	O.A. EAT (*F)	LAT WHEEL (*F)	WHEEL %EFF	COOLING MBH	LAT COIL (*F)	HOT GAS REHEAT (*F)	O.A. EAT (*F)	LAT WHEEL (*F)	WHEEL %EFF	LAT GAS BURNER (*F)		INPUT CAPACITY (BTU/HR)	OUTPUT CAPACITY (BTU/HR)
ERU-100	1365	.45	1.3	1275	.45	1.3	93/75	81/64	.62	47399	52/52	70/61	18/15	53/42	.65	96	80000	64000	DAIKIN DPS004A

- NOTES:
 1. REFER TO SPECIFICATION SECTION 237433 FOR FEATURES.
 2. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
 4. ENERGY RECOVERY WHEEL MOTOR TO BE A MINIMUM 1/2 HP.
 5. ROOM RETURN AIR CONDITIONS: 75 F DB @ 50 R.H.
 6. DX COIL TO BE SIZED FOR SUMMER LEAVING CONDITIONS 55°F DB, 54°F WB.

ROOFTOP AIR CONDITIONING UNIT SCHEDULE															
No.	TOTAL CFM COOLING	O.A. CFM	EXT. STATIC PRESS. (IN. WC)	MIN. FAN MOTOR H.P.	NET COOLING				HEATING				MANUFACTURER		
					TOTAL CAPACITY (BTU/HR)	ENTERING D.B. (*F)	SENSIBLE CAPACITY (BTU/HR)	O.A. CONDENSER (*F)	INPUT CAPACITY (BTU/HR)	OUTPUT CAPACITY (BTU/HR)	ENT. D.B. (*F)	FUEL		MIN. EFF. (EER)	
RTU-1	5,625	1050	.85	5	177,580	78.7	65.2	138,713	95	250,000	203,000	47	N. GAS	80	DAIKIN MPS015

- NOTES:
 1. REFER TO SPECIFICATION SECTION 237413 FOR FEATURES.
 2. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
 4. PROVIDE EACH RTU WITH AN AIR TREATMENT SYSTEM CONTROLLING CONTAMINANTS OF CONCERN AND MEETING THE REQUIREMENTS OF THE INDOOR AIR QUALITY PROCEDURE OF ASHRAE 62.1-2007. AIR TREATMENT MUST BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. SYSTEM SHALL BE POWERED THROUGH A 120 VOLT OUTLET PROVIDED WITH THE UNIT. SUPPLIER SHALL PROVIDE A LETTER STATING THAT THEIR PRODUCT MEETS ALL REQUIREMENTS OF ASHRAE 62.1-2007 FOR REDUCTION OF OUTSIDE AIR AS WELL AS SUBMIT ALL SUPPORTING DOCUMENTATION AND CALCULATIONS.
 5. PROVIDE THIRD PARTY ECONOMIZER AS REQUIRED TO ALLOW FOR DUCT CONFIGURATION AS SHOWN ON THE FLOOR PLAN AND RELIEF.

EXHAUST FAN SCHEDULE							
No.	CFM	EXT. SP. (IN. WC)	MAX. SOLE LEVEL	DRIVE	H.P.	LOCATION	CONTROLLED BY
EF-100	200	.125	4.5	DIRECT	1/25	JANITOR	TIMING DEVICE
EF-101	400	.125	6	DIRECT	1/12	ELECTRICAL	THERMOSTAT

- NOTES:
 1. REFER TO SPECIFICATION SECTION 233423 FOR FEATURES.
 2. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
 4. AT CONTRACTOR'S OPTION, PROVIDE TRANSITION FROM FAN BACKDRAFT DAMPER TO EQUIVALENT ROUND DUCT AND EXTEND DOWN TO EXHAUST GRILLE, WHEN FAN SERVES A SINGLE GRILLE.

MINI-SPLIT HEAT PUMP SCHEDULE										
No.	INSIDE UNIT (MAHU)			OUTSIDE UNIT (MHP)						MANUFACTURER
	TOTAL CFM COOLING	OUTSIDE AIR CFM	ADD. HTG. (KW)	TOTAL CAP. (BTU/HR)	ENTERING D.B. (*F)	W.B. (*F)	O.A. CONDENSER (*F)	OUTPUT CAPACITY (BTU/HR)	AMBIENT D.B. (*F)	
MAHU-100	275	---	---	---	---	---	---	---	---	DAIKIN FTK12NMVJU
MHP-100	---	---	---	12,000	80	67	95	0	0	DAIKIN RK12NMVJU

- NOTES:
 1. REFER TO SPECIFICATION SECTION 238126 FOR FEATURES.
 2. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
 4. PROVIDE EACH MAHU WITH AN AIR TREATMENT SYSTEM CONTROLLING CONTAMINANTS OF CONCERN AND MEETING THE REQUIREMENTS OF THE INDOOR AIR QUALITY PROCEDURE OF ASHRAE 62.1-2007. AIR TREATMENT MUST BE FULLY ENCLOSED IN THE EQUIPMENT AND POWERED BY 208/1 VOLT CIRCUIT THROUGH THE UNIT. SUPPLIER SHALL PROVIDE A LETTER STATING THAT THEIR PRODUCT MEETS ALL REQUIREMENTS OF ASHRAE 62.1-2007 FOR REDUCTION OF OUTSIDE AIR AS WELL AS SUBMIT ALL SUPPORTING DOCUMENTATION AND CALCULATION.
 5. PROVIDE ALL UNITS WITH AN EXTRA WASHABLE FILTER.

ELECTRIC HEATER SCHEDULE					
No.	TYPE	LOCATION	KW	ELECTRICAL CHARACTERISTICS	MANUFACTURER
EH-100	CILING	LOCATION	3	RE: ELECTRICAL DOCUMENTS	MARKEL 3480
EH-101	CILING	LOCATION	3	RE: ELECTRICAL DOCUMENTS	MARKEL 3480
EH-102	CILING	LOCATION	3	RE: ELECTRICAL DOCUMENTS	MARKEL 3480
EH-103	WALL	LOCATION	2	RE: ELECTRICAL DOCUMENTS	MARKEL 3320

- NOTES:
 1. REFER TO SPECIFICATION SECTION 238230 FOR FEATURES.
 2. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
 3. SURFACE MOUNTED UNITS WITH BOTTOM OF UNIT 2'-0" A.F.F. UNLESS OTHERWISE NOTED.

VARIABLE REFRIGERANT FLOW COIL SCHEDULE										
No.	TOTAL CFM COOLING	O.A. CFM	EXTERNAL STATIC PRESSURE (IN. WC)	NET COOLING			HEATING		MANUFACTURER	ASSOCIATED OUTDOOR UNIT (VRHP)
				TOTAL CAPACITY (BTU/HR)	ENTERING D.B. (*F)	W.B. (*F)	O.A. CONDENSER (*F)	OUTPUT CAPACITY (BTU/HR)		
VRFC-101	918	0	0	36,000	80	67	95	40,000	DAIKIN FXFQ36	VRHP-100
VRFC-102	918	0	0	36,000	80	67	95	40,000	DAIKIN FXFQ36	VRHP-100
VRFC-103	918	0	0	36,000	80	67	95	40,000	DAIKIN FXFQ36	VRHP-100
VRFC-104	918	0	0	36,000	80	67	95	40,000	DAIKIN FXFQ36	VRHP-100
VRFC-105	918	0	0	36,000	80	67	95	40,000	DAIKIN FXFQ36	VRHP-100
VRFC-106	918	0	0	36,000	80	67	95	40,000	DAIKIN FXFQ36	VRHP-100
VRFC-107	335	0	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-100
VRFC-108	335	0	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-100
VRFC-109	335	20	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-100
VRFC-110	335	20	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-100
VRFC-201	335	20	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-200
VRFC-202	335	15	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-200
VRFC-203	335	20	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-200
VRFC-204	CFM	15	0	7,000	80	67	95	HEAT CAP.	DAIKIN FXZQ07	VRHP-200
VRFC-205	335	40	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-200
VRFC-206	500	20	0	12,000	80	67	95	HEAT CAP.	DAIKIN FXMQ12	VRHP-200
VRFC-207	CFM	15	0	7,000	80	67	95	HEAT CAP.	DAIKIN FXZQ07	VRHP-200
VRFC-208	CFM	40	0	12,000	80	67	95	13,500	DAIKIN FXFQ12	VRHP-200
VRFC-209	830	0	0	30,000	80	67	95	34,000	DAIKIN FXFQ30	VRHP-200
VRFC-210	830	0	0	30,000	80	67	95	34,000	DAIKIN FXFQ30	VRHP-200
VRFC-211	335	0	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-200
VRFC-212	335	0	0	12,000	80	67	95	14,000	DAIKIN FXZQ12	VRHP-200

- NOTES:
 1. REFER TO SPECIFICATION SECTION 238129 FOR FEATURES.
 2. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
 4. PROVIDE EACH VRFC WITH AN AIR TREATMENT SYSTEM CONTROLLING CONTAMINANTS OF CONCERN AND MEETING THE REQUIREMENTS OF THE INDOOR AIR QUALITY PROCEDURE OF ASHRAE 62.1-2007. AIR TREATMENT MUST BE FULLY ENCLOSED IN THE EQUIPMENT AND POWERED BY 208/1 VOLT CIRCUIT THROUGH THE UNIT. SUPPLIER SHALL PROVIDE A LETTER STATING THAT THEIR PRODUCT MEETS ALL REQUIREMENTS OF ASHRAE 62.1-2007 FOR REDUCTION OF OUTSIDE AIR AS WELL AS SUBMIT ALL SUPPORTING DOCUMENTATION AND CALCULATION.
 5. PROVIDE ALL UNITS WITH AN EXTRA WASHABLE FILTER.
 6. EACH VRFC UNIT SHALL HAVE AN INTEGRAL CONDENSATE LIFT PUMP.

AIR DISTRIBUTION COMPONENTS SCHEDULE							
SYMBOL	MAX. CFM	FACE SIZE	NECK SIZE	THROW	FUNCTION	MANUFACTURER	REMARKS
E1	750	24 X 12	22 X 10	---	E/RAG	PRICE 80	SUITABLE FOR DUCTING
E2	1600	24 X 24	22 X 22	---	E/RAG	PRICE 80	SUITABLE FOR DUCTING
S1	200	24 X 24	8 DIA	4 WAY	CD	PRICE SCD-1	W/ FACTORY INSULATED METAL BACK PAN
S2	400	24 X 24	10 DIA	4 WAY	CD	PRICE SCD-1	W/ FACTORY INSULATED METAL BACK PAN
S3	550	24 X 24	12 DIA	4 WAY	CD	PRICE SCD-1	W/ FACTORY INSULATED METAL BACK PAN
SR1	---	18 X 18	16 X 16	---	SRAG	PRICE 535	
D1	1100	---	18 X 24	---	EXT. D.G.	SEE ARCHITECTURAL	GOOD FOR 600 MBH GAS INPUT

- NOTES:
 1. PROVIDE SQUARE TO ROUND ADAPTERS FOR EXHAUST/RETURN GRILLES AS REQUIRED.
 2. ALL SUPPLY-AIR DIFFUSERS SHALL BE FACTORY INSULATED, FOIL-BACKED TYPE.
 3. SEE WALL HUNG UNIT SCHEDULE FOR ADDITIONAL DEVICES.
 4. ALL SIDEWALL MOUNTED DEVICES SHALL BE FACTORY PRIMED FOR FIELD PAINTING TO MATCH THE WALL PER SPECIFICATION SECTION 099123.

VARIABLE REFRIGERANT HEAT PUMP SCHEDULE						
No.	NET COOLING		HEATING		MINIMUM EFFICIENCY (SCHE)	MANUFACTURER
	TOTAL CAPACITY (BTU/HR)	DESIGN AMBIENT TEMP. (*F)	OUTPUT CAPACITY (BTU/HR)	DESIGN AMBIENT TEMP. (*F)		
VRHP-100	240,000	95	270,000	47	10.7	DAIKIN REYQ240TYDN
VRHP-200	192,000	95	216,000	47	10.8	DAIKIN REYQ192TYDN

- NOTES:
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 2. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

REFRIGERANT CONTROL UNIT SCHEDULE				
No.	MIN. BRANCHES	CONNECTED COOLING CAPACITY (BTU/H)	MANUFACTURER	ASSOCIATED OUTDOOR UNIT
RC-100	12	264,000	DAIKIN BS12Q54TVJ	VRHP-100
RC-200	12	171,000	DAIKIN BS12Q54TVJ	VRHP-200

- NOTES:
 1. REFER TO SPECIFICATION SECTION 238129 FOR FEATURES.
 2. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

Order Plans @

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architects & engineers

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RENOVATIONS TO:
BELWOOD ELEMENTARY SCHOOL
GORDON COUNTY BOARD OF EDUCATION
CALHOUN, GEORGIA

DRAWING NUMBER: **M601**

REGISTERED ARCHITECT
MICHAEL C. WALDRUP