

Order Plans @

FMS INPUT/OUTPUT SUMMARY	OUTPUTS		INPUTS		SOFTWARE																				
	BINARY	ANALOG	BINARY	ANALOG	ALARM	DDC	ENERGY MGMT.																		
TYPICAL DUCTLESS SPLIT SYSTEM HEAT PUMP	START/STOP	ENABLE/DISABLE	SETPOINT ADJUST	DDC CONTROL	DIFF. PRESSURE SWITCH	AUX. CONTACT	ALARM CONTACT	PULSE CONTACT	TEMPERATURE	RELATIVE HUMIDITY	PRESSURE	VOLUME (CFM)	STATUS/INTERLOCK	H/I/O LIMIT	RUN TIME TOTALIZATION	PROPORTIONAL	PROP. - INTEGRAL	TIME SCHEDULE S/S	OPTIMUM START/STOP	DAY/NIGHT SETBACK	DEMAND LIMIT/CYCLE	RESET OPTIMIZATION	ECONOMIZER	FAN SYNCHRONIZATION	NOTES
ROOM TEMPERATURE																									(1)

(1) TEMPERATURE POINT FOR INFORMATION ONLY. CONTROL SHALL BE BY THERMOSTAT FURNISHED BY UNIT MANUFACTURER.

FMS INPUT/OUTPUT SUMMARY	OUTPUTS		INPUTS		SOFTWARE																				
	BINARY	ANALOG	BINARY	ANALOG	ALARM	DDC	ENERGY MGMT.																		
TYPICAL FOR WALL-MOUNT UNIT (GAS HEAT)	START/STOP	ENABLE/DISABLE	SETPOINT ADJUST	DDC CONTROL	DIFF. PRESSURE SWITCH	AUX. CONTACT	ALARM CONTACT	PULSE CONTACT	TEMPERATURE	RELATIVE HUMIDITY	PRESSURE	HUMIDITY	STATUS/INTERLOCK	H/I/O LIMIT	RUN TIME TOTALIZATION	PROPORTIONAL	PROP. - INTEGRAL	TIME SCHEDULE S/S	OPTIMUM START/STOP	DAY/NIGHT SETBACK	DEMAND LIMIT/CYCLE	RESET OPTIMIZATION	ECONOMIZER	FAN SYNCHRONIZATION	NOTES
ROOM TEMPERATURE																									
ROOM OFFSET																									
COOLING STAGE 1	X																								
HEATING STAGE 1	X																								
VENTILATION SYSTEM		X																							
SUPPLY FAN	X																								
SUPPLY AIR TEMPERATURE																									

CONTROL DEHUMIDIFICATION CYCLE WITH DEVICES FURNISHED BY UNIT MANUFACTURER.

FMS INPUT/OUTPUT SUMMARY	OUTPUTS		INPUTS		SOFTWARE																				
	BINARY	ANALOG	BINARY	ANALOG	ALARM	DDC	ENERGY MGMT.																		
MISCELLANEOUS	START/STOP	ENABLE/DISABLE	SETPOINT ADJUST	DDC CONTROL	DIFF. PRESSURE SWITCH	AUX. CONTACT	ALARM CONTACT	PULSE CONTACT	TEMPERATURE	RELATIVE HUMIDITY	PRESSURE	VOLUME (CFM)	STATUS/INTERLOCK	H/I/O LIMIT	RUN TIME TOTALIZATION	PROPORTIONAL	PROP. - INTEGRAL	TIME SCHEDULE S/S	OPTIMUM START/STOP	DAY/NIGHT SETBACK	DEMAND LIMIT/CYCLE	RESET OPTIMIZATION	ECONOMIZER	FAN SYNCHRONIZATION	NOTES
FREEZER TEMPERATURE SENSOR																									
COOLER TEMPERATURE SENSOR																									
OUTSIDE AIR TEMPERATURE																									
OUTSIDE AIR HUMIDITY																									
CABINET HEATERS	X																								
THRU-WALL (PTAC) UNITS	X																								
EXHAUST FANS	X																								

-- AIR DISTRIBUTION SCHEDULE --						
MARK	TYPE	NECK CONNECTION (1)	FINISH	OBD	PRICE NO. UNLESS NOTED	REMARKS (2)
A	CEILING DIFFUSER	6"Ø	MANUFACTURER'S STANDARD FINISH	YES	SCD-4C	24 X 24 PANEL (3)
B	CEILING DIFFUSER	8"Ø	MANUFACTURER'S STANDARD FINISH	YES	SCD-4C	24 X 24 PANEL (3)
C	CEILING DIFFUSER	10"Ø	MANUFACTURER'S STANDARD FINISH	YES	SCD-4C	24 X 24 PANEL (3)
D	CEILING RETURN/EXHAUST	10" X 10"	MANUFACTURER'S STANDARD FINISH	NO	80	12 X 12 PANEL WITH BORDER FRAME
E	CEILING RETURN/EXHAUST	22" X 22"	MANUFACTURER'S STANDARD FINISH	NO	80	24 X 24 PANEL WITH BORDER FRAME
F	SUPPLY REGISTER	SEE PLANS	MANUFACTURER'S STANDARD FINISH	YES	5200	DOUBLE DEFLECTION 3/4" BLADE SPACING
G	RETURN GRILLE	SEE PLANS	MANUFACTURER'S STANDARD FINISH	NO	535	45° DEFLECTION 1/2" BLADE SPACING

- DUCT RUNOUT SIZE SAME AS NECK CONNECTION SIZE, UNLESS NOTED OTHERWISE.
- PROVIDE LAY-IN TYPE FOR T-BAR CEILINGS AND SURFACE TYPE FOR ALL OTHER CEILINGS. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR CEILING TYPES.
- PROVIDE WITH REMOVABLE CORE (RC) AND MOLDED, INSULATED BACKPAN WITH FOIL SKRIM VAPOR BARRIER.
- NOT USED.
- NOT USED.
- OMIT OBD FOR WALL MOUNT HVAC UNITS.

-- FAN SCHEDULE --								
ITEM	LOCATION	C.F.M.	S.P.	HP.	R.P.M.	MAX SONES	GREENHECK MODEL NO.	REMARKS (10)
F-1	TLT 109/112	140	0.25	1/60	1300	2.8	G-070-G	(1)(3)
F-2	TLT 104/105/116	210	0.25	1/30	1550	4.4	G-070-D	(1)(2)
F-3	TLT 124	70	0.20	1/60	1330	3.5	G-060-D	(1)(3)
F-4	TLT 137/163	800	0.25	1/8	1487	8.7	G-095-D	(1)(2)
F-5	KILN 141	1020	0.50	1/4	1725	12.8	G-099-A	(1)(6)
F-6	ROOM 152/153/154	350	0.25	1/25	1300	5.5	G-090-G	(1)(2)
F-7	ELEC 157	700	0.125	1/15	1550	7.5	G-090-D	(1)(4)
F-8	KITCHEN 148	1000	0.30	1/4	1725	12.8	G-099-A	(1)(7)
F-9	DISHWASH 146	1400	0.30	1/6	1140	9.3	G-133-B	(1)(5)
F-10	CUSTODIAN 302	100	0.125	1/100	1300	2.7	G-060-G	(1)(3)
F-11	ELECTRICAL 307	500	0.125	1/25	1300	5.5	G-090-G	(1)(4)
F-12	STORAGE 306	500	0.125	1/25	1300	5.5	G-090-G	(1)(4)
F-13	STORAGE 305	530	0.125	1/30	1330	4.5	G-095-D	(1)(2)
F-14	TLT 303/304	280	0.25	1/30	1330	4.5	G-070-D	(1)(2)
F-15	ROOMS 410/451	200	0.25	1/25	1330	4.4	G-070-D	(1)(3)
F-16	TLT 418/419	200	0.25	1/25	1330	4.4	G-095-VG	(1)(2)
F-17	TLT 400/415	140	0.20	1/60	1330	3.5	G-070-G	(1)(3)
F-18	ELECTRICAL 417	500	0.125	1/25	1300	5.5	G-090-G	(1)(4)
F-19	TLT 236	70	0.20	1/60	1330	3.5	G-060-D	(1)(3)
F-20	CUSTOMER 218	150	0.125	1/100	1050	1.5	G-070-E	(1)(2)
F-21	ROOM 211	130	0.125	1/100	1050	1.5	G-070-E	(1)(2)
F-22	TLT 213	70	0.20	1/60	1330	3.5	G-060-D	(1)(3)
F-23	TLT 212	980	0.25	1/6	1688	10.2	G-095-VG	(1)(2)
F-24	ELECTRICAL 215	500	0.125	1/15	1550	7.5	G-090-D	(1)(4)
F-25	TLT 235	70	0.20	1/60	1330	3.5	G-060-D	(1)(3)
F-26	MECHANICAL 159	500	0.125	1/25	1300	5.5	G-090-G	(1)(4)

- COMPLETE WITH BACKDRAFT DAMPER, ADAPTOR CURB, BIRDSCREEN AND DISCONNECT MEANS.
- CONTROL WITH FACILITY MANAGEMENT SYSTEM.
- SWITCH WITH ROOM LIGHTS. FURNISH CONTACTORS AS REQUIRED.
- CONTROL WITH THERMOSTAT SET AT 85° (ADJ.).
- INTERLOCK CONTROL WITH DISHWASHER.
- CONTROL WITH TIMED OVERRIDE SWITCH.
- CONTROL WITH WALL SWITCH BY DIV. 16.

-- INDOOR HEAT PUMP SCHEDULE --										
ITEM	LOCATION	SUPPLY C.F.M.	EXT. S.P. (IN.) W.C.	O.A. C.F.M.	FAN HP.	DRIVE	COOLING CAP. MBH (1)		MODEL NO.	REMARKS
							SENSIBLE	TOTAL		
IHP-1	OFFICE 151	250	0.0	-	1/25	DIR.	3.2	2.5	MSZ-FH09NA	(3)
IHP-2	DRY FOOD 149	400	0.0	-	1/25	DIR.	3.1	2.6	MSZ-FH09NA	(2)(3)
IHP-3	TESTING 411	90	0.0	-	1/25	DIR.	2.0	1.7	MSZ-FH09NA	(3)
IHP-4	TIMEOUT 412	90	0.0	-	1/25	DIR.	2.0	1.7	MSZ-FH09NA	(3)
IHP-5	LOUNGE 414	70	0.0	-	1/25	DIR.	2.8	1.7	MSZ-FH09NA	(3)
IHP-6	LOUNGE 214	70	0.0	-	1/25	DIR.	2.8	1.7	MSZ-FH09NA	(3)

- RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.
- PROVIDE GRAVITY FED CONDENSATE PUMP KIT FOR NEW INDOOR HEAT PUMP. RECTORSEAL OR EQUIVALENT MANUFACTURER. COLOR OF CONDENSATE PUMP SHALL MATCH COLOR OF INDOOR UNIT.
- PROVIDE LINE HIDE KIT FOR NEW INDOOR HEAT PUMP.

-- OUTDOOR HEAT PUMP SCHEDULE --									
ITEM	COOLING CAP. MBH (1)	E.E.R. MIN.	HEATING CAP. MBH (1)		C.O.P. (1)	FRIG. MODEL NO.			
			HI	LO					
OHP-1	6.0	19.1	8.7	1.6	4.68	2.80	MUZ-FH09NA		
OHP-2	6.0	19.1	8.7	1.6	4.68	2.80	MUZ-FH09NA		
OHP-3	6.0	19.1	14.0	1.7	4.50	2.80	MUZ-FH09NA		
OHP-4	6.0	19.1	14.0	1.7	4.50	2.80	MUZ-FH09NA		
OHP-5	6.0	19.1	7.7	1.5	4.68	2.80	MUZ-FH09NA		
OHP-6	6.0	19.1	7.7	1.5	4.68	2.80	MUZ-FH09NA		

RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.

-- REFRIGERATION PIPE SCHEDULE --			
INDOOR UNIT	OUTDOOR UNIT	SUCTION LINE O.D.	LIQUID LINE O.D.
IHP-1	OHP-1	3/8"	1/4"
IHP-2	OHP-2	3/8"	1/4"
IHP-3	OHP-3	3/8"	1/4"
IHP-4	OHP-4	3/8"	1/4"
IHP-5	OHP-5	3/8"	1/4"
IHP-6	OHP-6	3/8"	1/4"

(1) REFRIGERANT PIPE SIZES INDICATED ARE FOR ESTIMATING PURPOSES ONLY. EXACT SIZES AND ACCESSORIES REQUIRED SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER FROM FIELD OBTAINED DIMENSIONS.

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240 HARDIN BRIDGE ROAD, KINGSTON, GA 30145
FOR THE BARTOW COUNTY SCHOOL SYSTEM - DR. PHILLIP D. PAGE, SUPERINTENDENT
CARTERSVILLE, GEORGIA



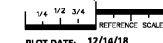
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NO.	REVISIONS	DATE

CONSTRUCTION DOCUMENTS

HVAC CONTROLS & SCHEDULES
SCALE: 1/8" = 1'-0"
SHEET
M4.01
17 OF 30
FILE: 18_04
DATE: 12/14/18



REFERENCE SCALE:
PLOT DATE: 12/14/18
FILENAME: 18108M3
PLOT SCALE: 1 = 96
JLS

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