

DIFFUSER, GRILLE AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA AT MAX CFM	MODEL
RC1212	EGGCRATE GRILLE	12x12	12x12	25	TITUS 50F
RC2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
RS1812	EGGCRATE GRILLE	18x12	18x12	25	TITUS 50F
SC0804	DOUBLE DEFLECTION SUPPLY	10x6	8x4	25	TITUS 300FS
SC1206	DOUBLE DEFLECTION SUPPLY	14x8	12x6	25	TITUS 300FS
SC06	PLAQUE SUPPLY	24x24	60	25	TITUS OMNI
SCP08	PLAQUE SUPPLY	24x24	80	25	TITUS OMNI
SCP10	PLAQUE SUPPLY	24x24	100	25	TITUS OMNI
SCP12	PLAQUE SUPPLY	24x24	120	25	TITUS OMNI
SS1206	DOUBLE DEFLECTION SUPPLY	14x8	12x6	25	TITUS 300FS

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.
 B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

SPLIT DIRECT EXPANSION (DX) EQUIPMENT

MARK	SERVES	INDOOR UNIT						OUTDOOR UNIT			COMBINED COOLING CAPACITIES								REMARKS								
		TOTAL S.A (CFM)	O.A (CFM)	E.S.P. (IN WG)	MOTOR (HP)	AUXILIARY HEATER (KW @ 208V)	WEIGHT (LBS)	BASIS OF DESIGN	MIN. SEER	WEIGHT (LBS)	BASIS OF DESIGN	NOMINAL TONNAGE (TONS)	TOTAL (MBH)	SENS (MBH)	LAT (MBH)	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)	1	2	3	4	5	6	7	8
FCU-1 / CU-1	LOADING DOCK	600	0	0.50	1/6	6.0	117.0	FY5BNF018	14.0	122.0	24ACC418	1.5	18.7	13.2	5.5	75.0	64.0	54.0	53.0	X	X	X	X	X	X	X	X
FCU-2 / CU-2	LVL 1 - LOBBY	1,400	240	0.50	1/2	13.5	156.0	FY5BNF042	14.5	191.0	24ACC442	3.5	40.7	30.9	9.9	78.2	65.9	57.0	56.0	X	X	X	X	X	X	X	X
FCU-3 / CU-3	LVL 1 - VERIFICATION	1,000	250	0.50	1/3	11.3	145.0	FY5BNF030	15.0	151.0	24ACC430	2.5	31.8	23.6	8.3	79.7	66.7	57.0	56.0	X	X	X	X	X	X	X	X
FCU-4 / CU-4	LVL 1 - STERILE PREP	600	115	0.50	1/6	6.0	117.0	FY5BNF018	14.0	122.0	24ACC418	1.5	19.5	14.1	5.4	78.6	66.1	56.0	55.0	X	X	X	X	X	X	X	X

NOTES (APPLY TO ALL):
 A. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
 B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-10% OF SCHEDULED CAPACITIES.
 C. BASIS OF DESIGN: CARRIER. REFER TO SPECIFICATIONS.
 ACCEPTABLE ALTERNATES: JCI/YORK, TRANE, DAKIN/MCGUAY, LENOX
 D. ALL EVAPORATORS AND COILING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.
 E. AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE EQUIPMENT SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.
 REMARKS (APPLY AS SCHEDULED):
 1. PROGRAMMABLE THERMOSTAT.
 2. LOW AMBIENT PACKAGE.
 3. DISPOSABLE FILTER.
 4. ANTI-SHORT CYCLE TIMER.
 5. INDOOR FAN DELAY KIT.
 6. DISCONNECT SWITCH PROVIDED BY THE ELECTRICAL SUBCONTRACTOR AT BOTH THE INDOOR AND OUTDOOR UNIT. REFER TO THE ELECTRICAL DOCUMENTS.
 7. MOUNT OUTDOOR CONDENSING UNIT ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.
 8. UNIT PROVIDED IN DOWNFLOW CONFIGURATION.

FAN FILTER UNIT

TAG	MANUFACTURER	MODEL	SIZE (W X H)	TOTAL CFM	VOLT	WEIGHT	SEAL	EFFICIENCY	REMARKS
FB-1	CLEAN ROOM INTERNATIONAL	SAM22GS	2x2	340	1PH/115V	68	GEL	99.99% @ 0.3UM	1,2,3,4,5,8,7
FB-2	CLEAN ROOM INTERNATIONAL	SAM24GS	2x4	840	1PH/115V	84	GEL	99.99% @ 0.3UM	1,2,3,4,5,8,7

- 1PH/115V N310 MOTOR
- 12" DUCT COLLAR ADAPTER
- CHALLENGE TEST PORTS
- ROOMSIDE VARIABLE SPEED CONTROLLER
- FITS 1.5" T CEILING GRID
- GEL SEAL, ROOM SIDE REPLACEABLE FILTER
- FRAME TO BE WHITE POWDERCOATED STEEL
- SAM MICRO SOUND GS SERIES

DEDICATED OUTSIDE AIR SPLIT SYSTEM SCHEDULE

TAG	SUPPLY FAN			COOLING COIL						HOT GAS REHEAT CAPACITY (MBH)	INDOOR UNIT MODEL	OUTDOOR UNIT MODEL	UNIT WEIGHT (INDOOR / OUTDOOR) (LBS)	REMARKS												
	NOMINAL SUPPLY CFM	ESP (IN WC)	MOTOR (HP / QTY)	O.A (CFM)	TOTAL CAP (MBH)	SENSIBLE CAP (MBH)	EAT DB (°F)	WB (°F)	LAT (COL) DB (°F)					WB (°F)	EER	1	2	3	4	5	6	7	8	9		
CRU-1 / CROU-1	4,900	3.00	4.8 / 2	800	219.6	137.7	71.0	61.2	44.0	43.7	9.7	107.0	CAHU-300-DX-HG-208	RACU-20-1-M-208	2000 / 2300	X	X	X	X	X	X	X	X	X	X	X
CRU-2 / CROU-2	3,300	1.25	(4.8 / 2)	3,300	303.6	117.9	81.0	76.0	46.5	46.5	10.3	71.0	CAHU-300-DX-HG-208	RACU-25-1-M-208	2100 / 2700	X	X	X	X	X	X	X	X	X	X	X
CRU-3 / CROU-3	1,100	1.25	(4.8 / 1)	1,100	95.0	36.5	81.0	76.0	49.0	49.0	10.9	71.0	CAHU-1100-DX-HG-208	RACU-10-1-M-208	1400 / 1500	X	X	X	X	X	X	X	X	X	X	X

NOTES:
 A. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL POWER INFORMATION
 B. DESIGN IS BASED ON CUSTOM PRODUCTS BY INNOVENT.
 C. ALL UNITS SHALL BE INSTALLED WITH AN ELECTRONIC WATER LEVEL DETECTOR IN THE PRIMARY DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE INSTALLED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE AND LOWER THAN THE DRAIN PAN OVERFLOW RIM. THE WATER LEVEL DETECTOR SHALL BE WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER. SHUTDOWN THE UNIT UPON DETECTION OF WATER.
 REMARKS:
 1. BACKWARD INCLINED PLENUM (PLUG) FAN.
 2. FACTORY DISCONNECT SWITCH.
 3. MODULATING HOT GAS REHEAT TO PRODUCE 64°F LEAVING AIR TEMPERATURE AT 50% RH.
 4. FACTORY CONTROL PANEL.
 5. 2" THICK, MERV 8 AND 4" THICK MERV 13 FILTERS.
 6. VARIABLE FREQUENCY DRIVE TO ALLOW FOR EASE OF BALANCING.

BAG IN BAG OUT HEPA HOUSING

SERVICES	LOCATION	TAG	CFM	SIZE H X W	DEPTH	TYPE	CLASS	EFF	QUAN H	VEL W	INSTAL FPM	MAKE/MODEL	REMARKS	
SAFETY FILTER	MEZZANINE	BIB3-1	4,100	24" X 72"	27"	HEPA	-	89.97	2	3	400	3.5 WG	PNG	EH HEPA

- NOTES:
 1. BIBO HOUSING SHALL BE CONSTRUCTED OF SEAM WELDED 14 GAUGE 304 STAINLESS STEEL TESTED TO - 10" W.G.
 2. DOORS SHALL BE WELDED LIFT-OFF TYPE WITH WELDED HANDLES AND DEEP CHAMBER FOR CONTAINMENT BAG.
 3. EACH DOOR STANDING SEAL EDGE SHALL BE FITTED WITH HIGH INTEGRITY "U" SHAPED NEOPRENE GASKET SPECIFICALLY DESIGNED FOR CONTAINMENT SERVICE.
 4. DOORS SHALL BE SECURED BY LARGE THREADED STAINLESS STEEL STUDS LOCATED ON THE HOUSING AND SPIN-ON THREADED KNOBS
 5. PROVIDE WEATHER COVER FOR OUTSIDE SERVICE
 6. PROVIDE (1) STATIC TAPS BEFORE HEPA FILTER - (1) STATIC TAPS AFTER HEPA FILTER
 7. FURNISH UNIT WITH ADDITIONAL (4) BAGS, (1) ADDITIONAL SECURITY STRAP, AND (1) ADDITIONAL CINCING STRAP

DUCT PRESSURE CLASS	APPLICABLE PRESSURE CLASS
AKU SUPPLY AND EXHAUST DUCTWORK	3 W.G.
RETUR AIR DUCTWORK	
GENERAL EXHAUST DUCTWORK	
TOILET EXHAUST DUCTWORK	

- NOTES:
 1. LEAKAGE CLASS SHALL BE DETERMINED PER ASHRAE 62.1-2010 REQUIREMENTS.
 2. PRESSURE CLASS SHALL BE DEFINED PER SMACNA THIRD EDITION - 2015.
 3. DUCTWORK, JOINTS, SEALING, AND FITTINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA THIRD EDITION - 2015.
 4. ALL EXTERIOR RETURN DUCTWORK UP TO SUCTION SIDE OF RAF-1 SHALL BE PRESSURE-TESTED

DUCTLESS SPLIT DIRECT EXPANSION (DX) EQUIPMENT

MARK	SERVES	TYPE	MODEL/SERIES	INDOOR UNIT			OUTDOOR UNIT			COMBINED CAPACITIES			
				NOMINAL TONS	SUPPLY AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	EXTERNAL STAT. PRESS. (IN. WG)	MARK	MIN. SEER	MIN. HSPF (°EER)	MODEL/SERIES	COOLING TOTAL (MBH)	HEATING @ 47°F (MBH)
FCU-1	BRICKROOM	HORIZONTAL DUCTED, HEAT PUMP	FBO30PVJU	2.50	882	165	0.5	MHP-1	16.0	*10.5	RZQ30TAVJU	30.0	34.0
FCU-2	CONFERENCE	HORIZONTAL DUCTED, HEAT PUMP	FBO30PVJU	2.50	882	150	0.5	MHP-2	16.0	*10.5	RZQ30TAVJU	30.0	34.0
MFCU-3	HALL CENTER	HORIZONTAL DUCTED, HEAT PUMP	FBO30PVJU	2.50	882	155	0.5	MHP-3	16.0	*10.5	RZQ30TAVJU	30.0	34.0
MFCU-4	LOUNGE	HORIZONTAL DUCTED, HEAT PUMP	FBO18PVJU	1.50	635	85	0.5	MHP-4	16.7	*13	RZQ18TAVJU	18.0	20.0
MFCU-5	EXT. OFFICE	HORIZONTAL DUCTED, HEAT PUMP	FBO18PVJU	1.50	635	70	0.5	MHP-5	16.7	*13	RZQ18TAVJU	18.0	20.0
MFCU-6	INT. OFFICE	HORIZONTAL DUCTED, HEAT PUMP	FBO30PVJU	2.50	882	165	0.5	MHP-6	16.0	*10.5	RZQ30TAVJU	30.0	34.0
MFCU-7	ELEVATOR SHAFT	WALL MOUNTED, HEAT PUMP	FTXN18NMVJU	1.50	713	---	---	MHP-7	15.0	8.2	RXN18NMVJU	17.1	18.0

NOTES (APPLY TO ALL):
 A. BASIS OF DESIGN: DAIKIN. EQUAL PRODUCTS: MITSUBISHI, LENOX, SAMSUNG, LG, SANYO, CARRIER, JCI/YORK.
 B. SINGLE POWER CONNECTION, ONLY FOR MFCU/MHP-7, AT OUTDOOR UNIT. DISCONNECT SWITCHES PROVIDED AT THE INDOOR AND OUTDOOR UNITS BY ELECTRICAL SUBCONTRACTOR. REFER TO THE ELECTRICAL DOCUMENTS.
 C. R-410A REFRIGERANT.
 D. FACTORY CONDENSATE PUMP OR CONDENSATE LIFT MECHANISM.
 E. WALL MOUNTED WIRED REMOTE CONTROLLER. MFCU-7 SHALL ALSO BE PROVIDED WITH A REMOTE TEMPERATURE SENSOR.
 F. INVERTER DRIVEN COMPRESSOR.
 G. MOUNT MHP SIDEWALL ON EXTERIOR WALL.
 H. REFRIGERANT LINE SET TOTAL EQUIVALENT LENGTH SHALL NOT EXCEED 164 FEET. SHOULD AN ALTERNATE MANUFACTURER BE USED, CONTRACTOR SHALL COMPLY WITH ALTERNATE MANUFACTURER LINE SET LIMITATIONS.

Order Plans



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REVISIONS:		
NO.	DATE	DESCRIPTION
1	10.11.19	REVISION 1

DRAWN BY: AS
 CHECKED BY: PK
 DATE: 09.24.19
 PROJECT NUMBER: 17125-IC
 SHEET NO: MO.4

ISSUED FOR PERMITTING