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Order Plans @ www.DIYLine.com

RETAIL AREA ROOFTOP UNIT SCHEDULE (DX COOLING /W GAS HEAT)

TAG	AREA SERVED	S.A. CFM	O.A. CFM	E.S.P.	COOLING CAPACITY			HEATING CAPACITY (GAS)		IFM	COMPRESSOR (EA)			ELECTRICAL DATA			OPERATING WEIGHT	MANUFACTURER TRANE & MODEL	NOMINAL TONS	ADDITIONAL OPTIONS
					TC (MBH)	SC (MBH)	EFFICIENCY	INPUT (MBH)	OUTPUT (MBH)	FLA	NO.	RLA	LRA	MCA	MOCP	VOLTAGE				
RTU-1	105 RETAIL	3400	625	1.0	98.1	77.9	EER 12.5	120.0	96.0	8.5	2	16/10	110/71	42.0	50	208V-3ø	1300 LBS	YHC102F3	8.5	B,F,J,K,R,S
RTU-2	102 TRAV/INS	3750	680	1.0	111.15	84.75	EER 12.4	150.0	120.0	8.5	2	20/10	136/73	46.1	60	208V-3ø	1408 LBS	YHC120F3	10	B,F,J,K,R,S
RTU-3	OFFICES	4595	275	1.0	109.93	89.91	EER 12.4	200.0	160.0	8.5	2	20/10	136/73	46.1	60	208V-3ø	1408 LBS	YHC120F3	10	B,F,J,K,R,S

OPTIONS (ALL UNITS)

- 14" HIGH PREFAB. ROOF CURB
- HIGH EFFICIENCY
- SINGLE POINT ELEC. CONN.
- DX COOLING, GAS HEAT
- DUCT SMOKE DETECTOR, SEE NOTE #3
- STANDARD CONDENSER COIL
- BIRD/INSECT SCREENS
- PHASE MONITOR
- SINGLE ZONE VAV /W ECM MOTOR OR VFD (PER MANUFACTURER)
- ≤ 4 TONS; 0-50% MOTORIZED O.A. DAMPER
- ≥ 5 TON; 100% COMPARATIVE ENTHALPY ECONOMIZER /W BAROMETRIC RELIEF
- CONDENSATE DRAIN PAN OVERFLOW SWITCH
- 'PROLIPHIX' #MT550c 7-DAY PROGRAMMABLE DIGITAL THERMOSTAT
- 2" FILTERS
- LOW AMBIENT CONTROL TO 0°F
- DUAL SLOPED DRAIN PAN
- FACTORY TRAINED START-UP
- STANDARD FACTORY WARRANTY, 1ST YEAR PARTS & LABOR

ADDITIONAL OPTIONS (UNITS AS NOTED)

A: BACNET/LONTALK CONTROLS
B: DEMAND CONTROL VENTILATION
C: CO2 SENSOR, WALL MOUNTED
D: CO2 SENSOR, DUCT MOUNTED
E: HUMIDITY SENSOR, WALL MOUNTED
F: HUMIDITY SENSOR, DUCT MOUNTED
G: HINGED ACCESS PANELS
H: VIBRATION ISOLATION ROOF CURB
J: INSULATED CURB VOID FOR SOUND
K: CORROSION RESISTANT CONDENSER COIL (FACTORY APPLIED)
L: HOT GAS REHEAT
M: STAINLESS STEEL HEAT EXCHANGER
N: STAINLESS STEEL DRAIN PAN
O: CLOGGED FILTER SWITCH
P: DISCHARGE AIR TEMP KIT
Q: FROSTAT
R: HIGH STATIC DRIVE
S: HAIL GUARDS
T: LAT SENSOR, DUCT MOUNTED
U: EAT SENSOR, DUCT MOUNTED
V: 5 YEAR COMPRESSOR WARRANTY

NOTES:

1. ALL UNITS SHALL BE AGA CERTIFIED AND U.L. LABELED.
2. ALL UNITS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE EACH UNIT WITH A SMOKE DETECTOR IN S.A. AND R.A. DUCTWORK. THE SMOKE DETECTOR SHALL BE IONIZATION TYPE WIRED TO SHUT-DOWN UNIT WHEN ACTIVATED. THE SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN DUCT BY THE MECHANICAL CONTRACTOR. THE SMOKE DETECTOR SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR TO AN AN HVAC MONITORING PANEL. THE PANEL SHALL PROVIDE VISUAL AND AUDIBLE SIGNAL. THE SIGNAL SHALL INDICATE AND BE LABELED AS AIR DETECTOR TROUBLE. THE PANEL SHALL BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SMOKE DETECTOR WITH REMOTE ALARM OR SUPERVISORY INDICATING DEVICES. EACH REMOTE DEVICE SHALL BE PERMANENTLY LABELED TO ACCURATELY IDENTIFY THE UNIT SERVED.

SHOP AREA ROOFTOP UNIT SCHEDULE (DX COOLING /W GAS HEAT)

TAG	AREA SERVED	S.A. CFM	O.A. CFM	E.S.P.	COOLING CAPACITY			HEATING CAPACITY (GAS)		IFM	COMPRESSOR (EA)			ELECTRICAL DATA			OPERATING WEIGHT	MANUFACTURER TRANE & MODEL	NOMINAL TONS	ADDITIONAL OPTIONS
					TC (MBH)	SC (MBH)	EFFICIENCY	INPUT (MBH)	OUTPUT (MBH)	FLA	NO.	RLA	LRA	MCA	MOCP	VOLTAGE				
RTU-4,5	118 CAR CARE	2475	200	1.0	90.3	54.63	EER 12.6	120.0	96.0	7.3	2	16/10	110/71	41.9	50	208V-3ø	1291 LBS	YHC092F3	7.5	J,K

OPTIONS (ALL UNITS)

- 14" HIGH PREFAB. ROOF CURB
- HIGH EFFICIENCY
- SINGLE POINT ELEC. CONN.
- DX COOLING, GAS HEAT
- DUCT SMOKE DETECTOR, SEE NOTE #3
- STANDARD CONDENSER COIL
- BIRD/INSECT SCREENS
- PHASE MONITOR
- SINGLE ZONE VAV /W ECM MOTOR OR VFD (PER MANUFACTURER)
- ≤ 4 TONS; 0-50% MOTORIZED O.A. DAMPER
- ≥ 5 TON; 100% COMPARATIVE ENTHALPY ECONOMIZER /W BAROMETRIC RELIEF
- CONDENSATE DRAIN PAN OVERFLOW SWITCH
- 7-DAY PROGRAMMABLE DIGITAL THERMOSTAT
- 2" FILTERS
- LOW AMBIENT CONTROL TO 0°F
- DUAL SLOPED DRAIN PAN
- FACTORY TRAINED START-UP
- STANDARD FACTORY WARRANTY, 1ST YEAR PARTS & LABOR

ADDITIONAL OPTIONS (UNITS AS NOTED)

A: BACNET/LONTALK CONTROLS
B: DEMAND CONTROL VENTILATION
C: CO2 SENSOR, WALL MOUNTED
D: CO2 SENSOR, DUCT MOUNTED
E: HUMIDITY SENSOR, WALL MOUNTED
F: HUMIDITY SENSOR, DUCT MOUNTED
G: HINGED ACCESS PANELS
H: VIBRATION ISOLATION ROOF CURB
J: INSULATED CURB VOID FOR SOUND
K: CORROSION RESISTANT CONDENSER COIL
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N: STAINLESS STEEL DRAIN PAN
O: CLOGGED FILTER SWITCH
P: DISCHARGE AIR TEMP KIT
Q: FROSTAT
R: HIGH STATIC DRIVE
S: HAIL GUARDS
T: LAT SENSOR, DUCT MOUNTED
U: EAT SENSOR, DUCT MOUNTED
V: 5 YEAR COMPRESSOR WARRANTY

NOTES:

1. ALL UNITS SHALL BE AGA CERTIFIED AND U.L. LABELED.
2. ALL UNITS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE EACH UNIT WITH A SMOKE DETECTOR IN S.A. AND R.A. DUCTWORK. THE SMOKE DETECTOR SHALL BE IONIZATION TYPE WIRED TO SHUT-DOWN UNIT WHEN ACTIVATED. THE SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN DUCT BY THE MECHANICAL CONTRACTOR. THE SMOKE DETECTOR SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR TO AN AN HVAC MONITORING PANEL. THE PANEL SHALL PROVIDE VISUAL AND AUDIBLE SIGNAL. THE SIGNAL SHALL INDICATE AND BE LABELED AS AIR DETECTOR TROUBLE. THE PANEL SHALL BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SMOKE DETECTOR WITH REMOTE ALARM OR SUPERVISORY INDICATING DEVICES. EACH REMOTE DEVICE SHALL BE PERMANENTLY LABELED TO ACCURATELY IDENTIFY THE UNIT SERVED.

INTAKE HOOD SCHEDULE

TAG	QTY	MOUNTING	CFM	THROAT (WxL)	OVERALL (WxL)	THROAT AREA	THROAT VELOCITY	MANUFACTURER & MODEL	WEIGHT	AREA SERVED	NOTES
IH-1	1	ROOF	11,725	30"x60"	60"x99"	12.5 FT^2	950 FT/MIN	GREENHECK "FGI"	186 LBS	118 CAR CARE	1,2

NOTES:

1. PROVIDE WITH MANUFACTURER PROVIDED ROOF CURB.
2. PROVIDE WITH 120V MOTORIZED DAMPER INTERLOCKED WITH ASSOCIATED EXHAUST FAN FOR ENERGIZING.

EXHAUST AIR CALCULATION

2017 FLORIDA BUILDING CODE, 6TH EDITION (MECHANICAL) – TABLE 403.3

ROOM NAME	AREA (SQ.FT) NET	NUMBER OF UNIT	CFM/UNIT	NET AREA O.A. RATE (CFM/SQ FT)	REQUIRED EXHAUST (CFM)	PROVIDED EXHAUST (CFM)	SERVED BY
MEN	126	2	50		100	150	EF-1
WOMEN	128	2	50		100	150	EF-2
CC JANITOR	29	–	–	1.0	29	75	EF-3
CC RESTROOM	76	1	50		50	100	EF-4
PARTS STORAGE	349	–	–	1.0	349	350	[illegible]
OIL STORAGE/COMP	133	–	–	1.0	133	900	[illegible]F-6
CAR CARE	7,816	–	–	1.5	11,724	11,725	[illegible]-8
114 JANITOR	33	–	–	1.0	33	75	[illegible]
DATA 253	56	–	–	1.0	56	75	EF-[illegible]

UNIT = WATER CLOSET OR URINAL

OUTDOOR VENTILATION AIR CALCULATION

2017 FLORIDA MECHANICAL CODE - CHAPTER 4 TABLE 403.3 (6TH EDITION)

System	Zone	Zone Floor Area FT^2 (A_Z)	Occupant Density #/1000 FT^2	Zone Population (P_Z)	People O.A. Rate (R_P)	Area O.A. Rate (R_A)	Calculated (R_PP_Z)	Calculated (R_AA_Z)	Breathing Zone O.A. Flow (V_{bz})	Zone Air Distribution Effectiveness (E_Z)	Zone O.A. Flow (V_{OZ})	Zone Primary Air Flow (V_{PZ})	Primary O.A. Fraction (Z_P)	System Ventilation Efficiency (E_V)	System Population (P_S)	Occupant Diversity (D)	Uncorrected O.A. Intake (V_{OU})	O.A. Intake Flow Rate (V_{OT})	Provided O.A. CFM	Note
RTU-1	105 RETAIL	2160	15	[illegible]	[illegible]	0.12	240	259	499	0.8	624	3300	0.19	0.8	32	1.00	499.20	624.00	**625**	2
RTU-2	102 TRAVEL/INS.	[illegible]	[illegible]	35	7.5	[illegible]	263	278	541	0.8	676	3750	0.18	0.8	35	1.00	540.66	675.83	**680**	2
RTU-3	[illegible]	[illegible]	5	1	[illegible]	0.06	5	7	12	0.8	15	300	0.05	0.9	21	1.00	247.32	274.80	**275**	1
	104 [illegible]	[illegible]	5	1	5	0.06	5	7	12	0.8	15	165	0.09							
	106 WORK	[illegible]	5	[illegible]	5	0.06	10	21	31	0.8	39	500	0.08							
	112 REMIT	[illegible]	5	0	5	0.06	0	4	4	0.8	5	140	0.04							
	113 SHARED BR[illegible]	340	30	10	5	0.06	50	20	70	0.8	88	550	0.16							
	115 SVC. WRITERS	304	[illegible]	2	5	0.06	10	18	28	0.8	35	460	0.08							
	235 TAX OFFICE	1087	5	5	5	0.06	25	65	90	0.8	113	2100	0.05							

1. System [illegible]tilation calculated in accordance with section 403.3.2.3 of the 2017 Florida Mechanical Code (6th Edition) for Multiple Zone Recirculating Systems
2. Zone [illegible] air calculated based on Single Zone System where Vot=Voz meeting section 403.3.2.1 of the 2017 Florida Mechanical Code (6th Edition)

DUCTLESS SPLIT SYSTEM SCHEDULE (COOLING ONLY)

TAG	MANUF	MODEL	EVAPORATOR SECTION			CONDENSING SECTION		LOCATION
			TC (MBH)	V/PH	MCA / MOCP	V/PH	MCA / MOCP	
DAHU-1/CU-1	MITSUBISH	PKA-A12HA PUY-[illegible]	[illegible]	[illegible]	1/15	208V/1ø	15/20	DATA/ELEC
DAHU-2/CU-2	MITSUBISH	PKA-A12HA PUY-A12NHA[illegible]	12,000	208V/[illegible]	1/15	208V/1ø	15/20	DATA/ELEC

NOTES:

A: CONTRACTOR SHALL VERIFY EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATION.
B: COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR EVAPORATOR AND CONDENSING SECTION.
C: PROVIDE WITH WALL MOUNTED THERMOSTAT BY UNIT MANUFACTURER.
D: PROVIDE WITH INTEGRAL CONDENSATE PUMP & HIGH LEVEL SWITCH TO DEACTIVATE UNIT UPON HIGH LEVEL DETECTION.
E: EQUIPMENT TO BE ENERGY STAR LABELED WITH A MINIMUM 15 SEER RATING.

EXHAUST FAN SCHEDULE

UNIT NUMBER	DESCRIPTION	CFM	APPROX. S.P.	DRIVE	MAX RPM	ELECTRICAL DATA			SELECTION BASED ON		ACCESSORIES	LOCATION
						WATTS	H.P.	VOLTAGE	MFGR	MODEL		
EF-1	CEILING EXHAUST	150	0.25"	DIRECT	1,400	54.2	–	115V/1ø	GREENHECK	SP-B150	A,B,E,F,K	MEN
EF-2	CEILING EXHAUST	150	0.25"	DIRECT	1,050	128	–	115V/1ø	GREENHECK	SP-B150	A,B,E,F,K	WOMEN
EF-3	CEILING EXHAUST	75	0.25"	DIRECT	700	50	–	115V/1ø	GREENHECK	SP-B90	A,B,D,E,F	CC JANITOR
EF-4	CEILING EXHAUST	100	0.25"	DIRECT	700	50	–	115V/1ø	GREENHECK	SP-B90	A,B,E,F,K	CC RESTROOM
EF-5	INLINE EXHAUST	350	0.25"	DIRECT	2,874	116	–	115V/1ø	FANTECH	FR160	A,B,E,F,K	PARTS STORAGE
EF-6	INLINE EXHAUST	900	0.25"	BELT	2,296	–	1/4	115V/1ø	GREENHECK	BSQ-90-4	A,B,E,F,P	OIL STORAGE
EF-7	ROOF EXHAUST	400	0.25"	BELT	1,550	–	1/20	115V/1ø	GREENHECK	GB-085	A,B,C,H,U,X	SERVICE AREA – ROOF MTD
EF-8	ROOF EXHAUST	11,725	0.25"	BELT	483	–	2	208V/3ø	GREENHECK	GB-360	A,B,C,G,T,Y NOTE #3	SERVICE AREA – ROOF MTD
EF-9	CEILING EXHAUST	75	0.25"	DIRECT	700	50	–	115V/1ø	GREENHECK	SP-B90	A,B,D,E,F,P	JANITOR
EF-10	UTILITY EXHAUST	600	7.1"	BELT	MFGR	–	2	208/3/60	ASCENT SYSTEMS	RD-111-20	A,B,C,J,L,Z	CAR CARE
EF-11	UTILITY EXHAUST	600	7.1"	BELT	MFGR	–	2	208/3/60	ASCENT SYSTEMS	RD-111-20	A,B,C,J,L,Z	CAR CARE

ACCESSORIES

A: DISCONNECT SWITCH
B: BACKDRAFT DAMPER
C: PREFAB. ROOF CURB
D: THERMOSTAT CONTROL
E: ACOUSTICAL LINING
F: HANGING BRACKETS WITH VIBRATION ISOLATION
G: WALL MOUNTED HAND-OFF-AUTO (HOA) SWITCH WITH COMBINATION MAGNETIC MOTOR STARTER/DISCONNET (3 PHASES) WITH AUXILIARY CONTACT AND RELAY. STARTER PROVIDED BY M.C.
H: WALL MOUNTED HAND-OFF-AUTO (HOA) SWITCH WITH MANUAL MOTOR STARTER/DISCONNET (SINGLE PHASE) AND AUXILIARY CONTACT AND RELAY. STARTER PROVIDED BY M.C.
I: WALL MOUNTED HAND-OFF-AUTO (HOA) SWITCH WITH MOTOR STARTER/DISCONNET (2 POLES – SINGLE PHASE) AND AUXILIARY CONTACT AND RELAY. STARTER PROVIDED BY M.C.
J: HAND-OFF AUTO /W AUXILLIARY CONTACTOR & TIMED AUTO SHUT-OFF
K: INTERLOCK WITH ROOM LIGHT SWITCH
L: BIRD SCREEN
M: INTAKE WALL LOUVER
N: WALL MOUNTING KIT/SLEEVE COLLAR
P: CONTINUOUS RUN
Q: PROGRAMMABLE THERMOSTAT
R: SMOKE DETECTOR
S: PROGRAMMABLE THERMOSTAT
T: INTERLOCK WITH INTAKE ACTUATOR
U: INTERLOCK WITH SHOP LIGHTING ENERGIZE FAN WHEN BLDG OCCUPIED
W: CONTINUOUS RUN WHEN BLDG IS OCCUPIED
X: INTERLOCK WITH RTU-4,5 TO ACTIVATE ECONIMIZER WHILE FAN IS ACTIVATED
Y: INTERLOCK WITH SHOP CARBON MONOXIDE DETECTOR TO ENERGIZE FAN WHEN DETECTOR READS 25PPM
Z: MOTOR STARTER

NOTES:

1. ALL FANS SHALL BE U.L. LISTED AND LABELED.
2. ALL FANS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
3. EF-8 – EXHAUST FAN SHALL BE IN THE 'HAND' POSITION WHEN THE CAR CARE AREA IS OCCUPIED AND IN THE 'AUTO' POSITION WITH THE CARE CARE AREA IS UNOCCUPIED.

GAS FIRED INFRARED TUBE HEATER SCHEDULE

TAG	QTY	STRAIGHT TUBE LENGTH		HEATING CAPACITY	MOUNTING HEIGHT	EXH. FLUE	FRESH AIR	MANUFACTURER & MODEL	WEIGHT	LOCATION	NOTES
		TUBE	OVERALL	INPUT HI/LO (BTUH)							
IRH-1,2	2	30'	32'-3"	60,000/[illegible]	12'	4"ø	4"ø	SPACERAY [illegible]LTS-60	120 LBS	107 SERVICE	1,2,3,4,5,6,7

NOTES:

1. POWER SUPPLY: 120V/60/1ø; 4.8 AMPS IGNITION CURRENT, [illegible] AMPS RUNNING CURRENT.
2. PROVIDE WITH WALL MOUNTED THERMOSTAT.
3. PROVIDE WITH ROOFTOP VENT PACKAGE, MODEL AND SIZE PER MANUFACTURER
4. PROVIDE WITH GAS REGULATOR: 2 PSI TO 7"W.C. [M.C. TO VERIFY EXACT EXISTING GAS PRESSURE BEFORE ORDERING]
5. PROVIDE WITH COMBUSTION AIR CAP ON ROOF
6. PROVIDE WITH WALL MOUNTED THERMOSTAT/WATER RESISTANT.
7. ALL UNITS SHALL HAVE CALORIZED ALUMINIZED STEEL EMITTER TUBES (ALC) – NO HOT ROLLED STEEL EMITTER TUBES.

GRILLE/ DIFFUSER SCHEDULE

SYMBOL	SERVICE	CFM	FACE SIZE	NECK SIZE	TYPE	SLOT WIDTH	MANUF.
(A)	SUPPLY	0-100	24x24	6"ø	LOUVER	N/A	PRICE SCD
(B)	SUPPLY	105-200	24x24	8"ø	LOUVER	N/A	PRICE SCD
(C)	SUPPLY	205-400	24x24	10"ø	LOUVER	N/A	PRICE SCD
(D)	SUPPLY	310	4'x(6"??)	10"ø	4-SLOT	1.5"	PRICE SDS100
A	RETURN	0-120	24X24	8"ø (6"X6")	PERF.	N/A	PRICE PDDR
B	RETURN	125-245	24X24	10"ø (8"X8")	PERF.	N/A	PRICE PDDR
C	RETURN	250-600	24X24	12"ø(10"X10")	PERF.	N/A	PRICE PDDR
D	RETURN	605-940	24x24	14"ø(18"X18")	PERF.	N/A	PRICE PDDR
E	RETURN	50	12x12	6"ø	PERF.	N/A	PRICE PDDR

COORD SLOT WIDTH/NECK

NOTES:

1. ALL DEVICES SHALL BE FINISHED WITH WHITE (B12) POWDER COAT DIFFUSER FACE FINISH. ALL SLOT DIFFUSERS [AS210, TBD4, TBDR] FINISHED WITH WHITE (B12) POWDER COAT DIFFUSER FACE, WHITE (B12) CENTRE TEE'S, BLACK (B17) FRAME INTERIOR, AND BLACK (B17) PATTERN CONTROLLERS. ALL DEVICES PAINTED FROM THE FACTORY.
2. ALL DEVICES SHALL BE FURNISHED WITH FRAMES SUITABLE FOR TYPE OF INSTALLATION REQUIRED.
3. PROVIDE INSULATION BLANKET OVER TOP OF DIFFUSER/GRILLE HOUSING.
4. COORDINATE GRILLES/DIFFUSERS WITH ARCHITECTURAL CEILING LAYOUT AND COORDINATE ALL GRILLE/DIFFUSER COLORS AND FINISHES WITH ARCHITECT PRIOR TO ORDERING.
5. MECHANICAL CONTRACTOR TO PROVIDE 6" X 60" FLAT SHEET METAL PANELS BY PRICE INDUSTRIES FOR BLANK LOCATIONS IN DIFFUSER & LIGHTING RUNS IN RETAIL CEILNG. PANEL FINISH IS TO BE WHITE (B12) POWDER COAT FINISH ON BOTH SIDES OF PANELS. PROVIDE SIZE TOLERANCES AS REQUIRED FOR BLANKS TO BE INSTALLED PROPERLY IN CEILING GRID. GENERAL CONTRACTOR TO FIELD CUT PANELS WHERE REQUIRED AND INSTALL IN CEILING GRID. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS. FOR ORDERING INFORMATION, CONTACT JOE SCHRADER AT HOFFMAN & HOFFMAN, INC. (704) 364-4700.
6. ALL "SDS100" LINEAR DIFFUSERS TO BE PROVIDED WITH "SDB" PLENUM BOX AND OPTIONAL "8EC" DAMPER FOR CONTROL FROM LOUVER FACE.

DIFFUSERS ENGINEERED BY PRICE FOR PROJECT SPECIFIC REQUIREMENTS. CONTRACTOR TO PROVIDE PRICE GRILLES/DIFFUSERS, NO EXCEPTIONS.

FLORIDA ENERGY CODE

2017 Florida Building Code, 6th Edition (Energy Conservation)

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE:

PRESCRIPTIVE [X] ENERGY COST BUDGET [ ]

THERMAL ZONE: 2A

EXTERIOR DESIGN CONDITIONS
- winter dry bulb: 40° F.
- summer dry bulb: 91° F.

INTERIOR DESIGN CONDITIONS
- winter dry bulb: 72° F.
- summer dry bulb: 75° F.
- relative humidity: 50% R.H.

BUILDING HEATING LOAD: 253.7 MBH (peak)
BUILDING COOLING LOAD: 509.6 MBH (peak)

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY
- description of unit: PACKAGED ROOFTOP UNIT
- heating efficiency: 80%
- cooling efficiency: 12.4, 12.5, 12.6 EER; 17 SEER
- heat output of unit: 568 MBH
- cooling output of unit: 511.78 MBH

BOILER
- total boiler output of unit: N/A

CHILLER
- total chiller capacity: N/A

LIST EQUIPMENT EFFICIENCIES

Equipment schedules with motors (mechanical systems)
- motor horsepower: N/A
- number of phases: N/A
- minimum efficiency: N/A
- motor type: N/A
- # of poles: N/A

DESIGNER STATEMENT: 1

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the 2014 Florida Building Code – Energy Conservation Code.

SIGNED: ____________________

NAME: M. MICHAEL SCHON, P.E.
TITLE: MECHANICAL ENGINEER

CONTROLS NOTE:
ALL CONTROLS AND CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE ALL REQUIRED WORK WITH OWNER, GENERAL CONTRACTOR AND AAA PROJECT COORDINATOR TO ENSURE ALL CONTROLS ARE PROPERLY PROVIDED AND INSTALLED.

MECHANICAL CONTRACTOR SHALL PROVIDE 'PROLIPHIX' #IMT550c THERMOSTAT (TYPICAL OF ALL RTU, GUH, EUH THERMOSTATS). SEE ELECTRICAL DRAWINGS FOR DATA CONNECTION.
PROLIPHIX CONTACT :
SALES
(978)692-3375 EXT 101
SALES@PROLIPHIX.COM

SETTING UP A SCHEDULE ON A PROLIPHIX IMT550C THERMOSTAT USING A LAPTOP.

FIRST YOU WILL NEED TO WIRE A NETWORK LINE TO THE THERMOSTAT FOLLOWING THE INSTALLATION GUIDE AND PLUG THE OTHER END INTO YOUR NETWORK JACK ON YOUR LAPTOP. NEXT YOU WILL NEED TO PLUG IN USB CABLE FROM LAPTOP TO THE BOTTOM OF PROLIPHIX THERMOSTAT THIS WILL POWER THE THERMOSTAT. THE THERMOSTAT WILL START ITS PROGRAMING PROCESS WHICH TAKES ABOUT 2 MINUTES.

ONCE PROGRAMING IS 100% COMPLETE YOU WILL NEED TO PUSH THE BOTTOM RIGHT BUTTON WHICH LOOKS LIKE TWO GEARS THIS WILL GET YOU INTO THE CONFIGURATION SETTING PAGE. FROM HERE PUSH THE NETWORK BUTTON AND THEN THE IP ADDRESS BUTTON. THIS WILL GIVE YOU A IP ADDRESS THAT YOU WILL NEED TO TYPE INTO YOUR INTERNET BROWSER WINDOW.

ONCE YOU TYPE THIS IP ADDRESS IN YOUR BROWSER IT SHOULD ASK YOU FOR A USER NAME AND PASSWORD WHICH IS ADMIN FOR BOTH USER NAME AND PASSWORD.

NOW YOU SHOULD SEE THE THERMOSTATS HOME PAGE . FROM HERE YOU WILL NEED TO SET THE TIME AND DATE ALONG WITH THE SCHEDULES.

TO SET THE DATE AND TIME , CLICK ON THE ADMIN PAGE AND THEN CLICK ON THE DATE AND TIME. ONCE YOU SET THE DATE AND TIME YOU NEED TO CLICK SUBMIT.

NOW YOU CAN GO TO THE SCHEDULE PAGE BY CLICKING ON SCHEDULE THEN CLICK ON SCHEDULE SETTINGS AND TYPE IN YOUR SCHEDULE AND CLICK SUMMIT.

IN ABOUT A MINUTE THE NEW TIME AND SCHEDULE SHOULD APPEAR ON THE THERMOSTAT

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MECHANICAL SCHEDULES

M-002