Inspectional Services
Date: 07/28/17

MULTI-SPLIT HEAT PUMP INDOOR UNIT SCHEDULE

INDOOR UNIT	DS-1	DS-2	DS-3	DS-4	DS-5	DS-6
COOLING BTU	6,000	6,000	12,000	9,000	15,000	15,000
HEATING BTU @ 47F	8,700	8,700	136,000	10,900	18,000	18,000
REFRIGERANT	R410A	R410A	R410A	R410A	R410A	R410A
MODEL NO.	MSZ-FH06NA	MSZ-FH06NA	MSZ-FH12NA	MSZ-FH09NA	SLZ-KA15NA	SLZ-KA15NA
ARRANGEMENT	WALL MOUNT	WALL MOUNT	WALL MOUNT	WALL MOUNT	CEILING CASSETTE	CEILING CASSETTE
DIMENSIONS(WxDxH)	36-7/16"x9-3/8"x12-11/16"	36-7/16"x9-3/8"x12-11/16"	36-7/16"x9-3/8"x12-11/16"	36-7/16"x9-3/8"x12-11/16"	22-7/16"x22-7/16"x9-1/4"	22-7/16"x22-7/16"x9-1/4"
WEIGHT	29 lbs.	29 lbs.	29 lbs.	29 lbs.	36 lbs.	36 lbs.
CFM HIGH	381	381	381	381	390	390
CFM MED	221	221	221	221	320	320
CFM LOW	137	137	137	137	280	280
SOUND Db - HIGH CFM	36	36	36	36	40	40
ELECTRICAL	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
MCA	1.0	1.0	1.0	1.0	1.0	1.0
COND. DRAIN SIZE	---	---	---	---	---	---
LIQUID LINE SIZE	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
SUCTION LINE SIZE	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"

NOTES: OR EQUAL BY CARRIER OR FUJITSU

MULTI-SPLIT HEAT PUMP OUTDOOR UNIT SCHEDULE

OUTDOOR CONDENSING UNIT	ACCU-1	ACCU-2
NOMINAL SIZE	3 TON	3 TON
MODEL NO.	MXZ-4C36NAHZ	MXZ-4C36NAHZ
COOL MAX / HEAT MAX (17°F)	36,000 / 45,000	36,000 / 45,000
ELECTRICAL	208-230/1/60	208-230/1/60
MCA	42	42
MOCP	52	52
SOUND dB	53	53
DIMENSIONS	52-11/16"x41-11/32"x13"	52-11/16"x41-11/32"x13"
WEIGHT	276 lbs.	276 lbs.
LIQUID LINE SIZE	3/8"	3/8"
SUCTION LINE SIZE	5/8"	5/8"
SEER	19.1	19.1
EER	14.0	14.0

NOTES: OR EQUAL BY CARRIER OR FUJITSU

MECHANICAL AIR TERMINAL DEVICES SCHEDULE

TAG	SIZE	DESCRIPTION	CONSTRUCTION	BASIS OF DESIGN		NOTES
			FINISH	MANUFACTURER	MODEL OR SERIES	
CD-1	6"	LAY-IN	STEEL	PRICE	SCD	
CD-2	8"	LAY-IN	STEEL	PRICE	SCD	
CD-3	10"	LAY-IN	STEEL	PRICE	SCD	
CD-4	12"	LAY-IN	STEEL	PRICE	SCD	
CD-5	14"	LAY-IN	STEEL	PRICE	SCD	
CD-6	12"X12"	SURFACE MOUNT	STEEL	PRICE	520	
RG-1	48"X24"	LOUVERED RETURN	STEEL	PRICE	530	
EG-1	12"X12"	SURFACE MOUNT	STEEL	PRICE	530	

NOTES:

ENERGY RECOVERY VENTILATOR

TAG	EXHAUST	OUTDOOR AIR	ELECTRICAL DATA			BASIS OF DESIGN		OPERATING WEIGHT	NOTES
			MCA	MOCP	VOLTAGE				
	CFM	CFM	AMPS	AMPS		MANUFACTURER	MODEL OR SERIES	LBS	
ERV-1	800	800	4.5	15.0	208/1	RENEWAIRE	HE1XINH	325 LBS	

NOTES: REFER TO SEQUENCE OF OPERATION

MECHANICAL FURNACE (GAS HEAT) SCHEDULE

TAG	FLOW RATE		STATIC PRESSURE	ELECTRICAL DATA		VOLTAGE	DX COOLING		GAS HEATING		BASIS OF DESIGN		NOTES
	SUPPLY	OA	EXTERNAL	MCA	MOCP		SENSIBLE	TOTAL	INPUT	OUTPUT			
	CFM	CFM	IN WG	AMPS	AMPS		MBH	MBH	MBH	MBH	MANUFACTURER	MODEL OR SERIES	
FURN-1	2000	500	.40"	11.8	20	115/1	---	60	120	112	BRYANT	912SC60120S24	
FURN-2	800	---	.40"	8.7	20	115/1	---	---	40	38	BRYANT	915SSA30040S14	

NOTES: OR EQUAL BY CARRIER OR BRYANT
FURNACE SUSPENDED FRON STRUCTURE UTILIZING 3/8" THREADED ROD AND UNI-STRUT
INCLUDE SECONDARY DRAIN PAN WITH OVERFLOW COOLING SHUTDOWN

ROOF-TOP UNIT SCHEDULE

TAG	FLOW RATE		STATIC PRESSURE	ELECTRICAL DATA			EFFICIENCY	DESIGN CONDITIONS		GAS HEATING		BASIS OF DESIGN		NOTES
	SUPPLY	OA	EXTERNAL	MCA	MOCP	VOLTAGE	EER	E.D.B	L.D.B	INPUT	OUTPUT			
	CFM	CFM	IN WG	AMPS	AMPS					MBH	MBH	MANUFACTURER	MODEL OR SERIES	
RTU-1	7,000	1640	.50"	79.1	100	230/3	10.8	80.0	58.3	400	324	BRYANT	580JP21D400A6H0AC	

NOTES: DUCT MOUNTED SMOKE DETECTORS BY ELECTRICAL CONTRACTOR
UNIT EQUIPPED WITH ECONOMIZERS
OA SET A MIN VENTILATION RATE PER ASHRAE 62
UTILIZING A DEMAND CONTROL STRATEGY

MECHANICAL CONDENSING UNIT (AIR COOLED) SCHEDULE

TAG	SERVICE	CAPACITY	ELECTRICAL DATA			BASIS OF DESIGN		OPERATING WEIGHT	SEER	NOTES
			MCA	MOCP	VOLTAGE					
		TONS	AMPS	AMPS		MANUFACTURER	MODEL OR SERIES	LBS		
CU-1	FURN-1	5	37.5	60	208/1	YORK	CMA06011	260	12.0	1

NOTE: OR EQUAL BY CARRIER OR BRYANT

SEQUENCE OF OPERATION:

F-1 and CU-1 /BAR AREA:

- The fan to operate continuously during the occupied hours. The fan to cycle on demand during unoccupied hrs to meet setpoint.

-OA to be introduced to the system by ERV-1 into the RA of the split system.

- The 7 day programmable thermostat to be located in storage room, with remote space sensor.

-Occupied setpoints at 73 deg F +/- 2 deg F.

HEAT PUMPS:

- **OFFICES AND COMMON SPACES** DS-1, 2, 3, &4 to operate with local wall mounted thermostats.

- **POOL AREA** DS- 5 & 6, to operate on local return sensors, controllers for these units located in storage room control cabinet.

ERV-1:

-To operate continuously during the occupied hrs. The time clock for control of this system to be located within the storage room control cabinet.

-ERV-1 to exhaust the common bathrooms and supply ventilation air to F-1, and to small offices as shown.

-ERV-1 to be equipped with motor operated isolation dampers on the outdoor air intake and exhaust ducts.

EBB-1

-Baseboard for common areas and storage spaces, with local thermostats.

UH-1

-Unit heater UH-1 to operate to maintain space temperature with unit mounted thermostat. Setpoint 60 deg F heating.

RTU-1 FOR BANQUET FACILITY

-During the occupied hours the SA fan to operate continuously, a minimum ventilation position to be set of 600 cfm of outside air. The occupied space setpoint of 73 deg F +/-2 deg.

- A demand control strategy to be utilized to measure space C02 and increase the ventilation rate from 600 cfm to full space ventilation as defined by ASHRAE 62.1 for a dining facility.

MECHANICAL INSULATION:

1. EXTERIOR DUCTWORK: Prior to insulation all exterior ductwork to be sealed with a latex based duct sealant on all all seams and joints. All exterior ductwork to be insulated with 2" poly-iso and finished with flex-clad or similar aluminum jacketing.
2. INTERIOR CONDITIONED AIR: ALL galvanized metal supply air ductwork from RTU-1, F-1, and ERV-1 to be insulated with 1.5" fiberglass with foil faced jacketing.
3. FLEXIBLE DUCTWORK: All flexible ductwork to be constructed with an inner wall, 2" fiberglass insulation and outer jacket.
4. RETURN AIR AND EXHAUST DUCTWORK: All RA and Exhaust ductwork to be uninsulated.
5. OUTDOOR AIR INTAKES AND EXHAUST FOR ERV-1: This ductwork to be insulated with 3" fiberglass insulation with foil jacketing.

1 ROOFTOP UNIT PIPING
SCALE: N.T.S

01	ISSUED FOR REVIEW 06-28-17

AirTemp Inc.
20 Thomas Drive
Westbrook, Maine

STATE OF MAINE
PAUL C. CLEAVES
No. 11048
MECHANICAL
DATE ISSUED: 07-07-17

COMFORT SYSTEMS USA
AirTemp, Inc.

ELKS LODGE
PORTLAND, MAINE

CLIENT
DATE
DRWN BY BRL
CHK'D BY
DATE JUN. 28, 2017
SHEET TITLE
HVAC SHEDULES
SCALE
N.T.S
DRAWING
M-3