#6119



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Bakery Cafe

6351 MANATEE AVE. W, BRADENTON, FL 34209

HVAC LEGEND AIR BALANCE SCHEDULE OUTSIDE AIR CALCULATION BASED ASHRAE 62.1 INDOOR AIR QUALITY PROCEDURE, PER 2017 FLORIDA MECH DESCRIPTION SUPPLY AIR DIFFUSER EF-1 RETURN AIR GRILLE EF-2 -500 TOILET ROOM EXHAUST GRILI EF-3 -400 SPRINKLER HEAD EF-4 -300 DUCT MOUNTED SMOKE DETECTOR RTU-1 TOTAL PROVIDED: 2100 CFM DIRECTION OF AIR FLOW RTU-2 THERMOSTAT (CONTROLLER)

RTU-3 - +150		DESIGN CO			DESIGN HEA				
****			ATA AT Oct 150 A DB / WB 87.8		HEATING DATA AT DES HTG HEATING OA DB / WB 36.0 °F / 30.3				
RTU-4 350		COULING U			HEATING UA	Sensible	Latent		
	NE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	(BTU/hr)	(BTU/h		
	Window & Skylight Solar Loads	1053 ft ²	57988	(B) City	1053 ft ²	(5.5/11)			
ET EXH1700	Wall Transmission	2575 ft ²	1619	1.	2575 ft ^e	3065	-		
	Roof Transmission	4059 ft ²	3333	1.	4059 ft ^e	4340	-		
	Window Transmission	1053 ft ²	7415	1.	1053 ft ^p	24739	-		
ET SUPPLY	Skylight Transmission	O ft²	0	1.	O ft²	0	-		
11001121	Door Loads	72 ft²	2706	- 1-	72 ft²	1134	-		
William Alle	Floor Transmission	4059 ft ²	0	-	4059 ft ²	3828	-		
ROSS SPACE +400	Partitions	0 ft²	0	-	Oft ²	0	-		
RESSURE	Ceiling	O ft²	0	-	Oft ²	0	-		
	Overhead Lighting	5242 W	17886	-	0	0	-		
	Task Lighting	0 W	0	-	0	0	-		
ITERMITTENT - NOT INCLUDED IN AIR BALANCE	Electric Equipment	5085 W	16686	-	0	0	-		
	People	113	21042	18180	0	0	0		
	Infiltration		0	0	-	0	0		
TES:	Miscellaneous	-	82000	50750	-	0	0		
RTU FANS SHALL RUN CONTINUOUSLY	Safety Factor	10% / 10%	21068	6893	10%	3711	0		
RING STORE OPERATION HOURS INCLUDING	>> Total Zone Loads		231743	76923		40617	G		
HT BAKERY SHIFT.	Zone Conditioning	-	239910	75823	-	37349	0		
	Plenum Wall Load	0%	0		0	0	-		
	Plenum Roof Load	0%	0		0	0			
	Plenum Lighting Load	0%	0	-	0	0	-		
	Return Fan Load	10826 CFM	0	-	10826 CFM	0	-		
	Ventilation Load	2100 CFM	26595	42901	2100 CFM	75812	0		
	Supply Fan Load	12926 CFM	0	-	12926 CFM	0	-		
	Space Fan Coil Fans		0	-		0	-		
	Duct Heat Gain / Loss	0%	0	-	0%	0	-		
	>> Total System Loads		266606	119724		113162	G		
	Central Cooling Coil	-	266507	118728	-	0	0		
	Central Heating Coil	-	0	-	-	113162	-		
	>> Total Conditioning		268507	119728		113162	C		
	Key:		es are cig load ues are htg load		Positive values are htg loads Negative values are clg loads				

			Sp	ace Fan Coil Fans		-	0	-	-	10	-			
			Du	ct Heat Gain / Los	5	0%	0	-	0%	0	-	Ī		
			>>	Total System Lo	ade		266606	118724		113162	G			
			Ce	ntral Cooling Coil		-	266597	1 18728	-	0	0			
			Ce	ntral Heating Coil		-	0	-	-	113162				
1			>>	Total Conditionis	າຜູ		268507	118728	-					
			Ke	y:			tive values are clg load ative values are htg loa		Positive values are htg loads Negative values are clg loads					
				EXHA	UST	FAN S	SCHEDULE	Ē						
	PLAN MARK	MANUFACTURER	MODEL	TYPE	SP	GFM	ELECTRIC	AL	ОРТЮ	REMARKS				
	EF-1	CAPTIVE-AIRE	DU50 FLA	UPBLAST	0.5"	900	120/1/60 1/2	: HP	ROOF C	F.O.I.C.				
	EF-2	CAPTIVE-AIRE	DU30 HFA	UPBLAST	0.5"	500	120/1/60 1/4	HP	ROOF C	F.O.I.C.				
	EF-3	CAPTIVE-AIRE	DU30 HFA	UPBLAST	BLAST 0.5"		120/1/60 1/4	HP	ROOF C	JRB	F.O.I.C.			
	EF-4	GREENHECK	ROOF MTD	0.375"	300	120/1/60 1/6		ROOF CURB, K DRAFT DAMPER						

1-800-36	7-6285					000 10 70	<u> </u>	141		GHEENHECK		GHEENHECK GB-061-6		HOOF IV	MTD 0.375 300		120/1/60 1/6 HP			BACK DRAFT DAMPER		AMPER	F.G.I.G.
									F	ROOFT	OP UNI	IT SCHE	EDULE										
PLAN	PLAN MANUFACTURER SU			EXTERNAL S.P.	MOTOR	COOLING	CAPACITY		HEATING CAPACITY			IING AIR REES F		FILTER	HEATING	COOLING	T-STAT	VOLTS	PH	U7	MCA/MOCP	OPERATING WEIGHT	NOTES
MARK	MODEL NUMBER	AIR (CFM)	MIN.	IN (WC)	WIGTON	MBH/TON	EER/IEER	NG INPUT(MBH)	NG OUTPUT (MBH)	ELEC. KW	DRY BULB	WET BULB	(DEG F)	TYPE	STAGE(S)	STAGE(S)	TYPE	VOLIS		ΠZ	WICA/WIOCF	LBS.	NOTES
RTU-1	LENNOX LGH 120 HB4B	4000	800	0.5"	з нр	122/10	12.3/13.2	-	-	15 KW	80	67	95°	THROW AWAY	ONE	TWO	TWO PIECE PROGRAM.	208	3	60	53/60	1396	1,2,3,4,5,6,7
RTU-2	LENNOX LCH 120 HB4B	4000	800	0.5"	з нр	122/10	12.3/13.2	-	-	15 KW	80	67	95°	THROW AWAY	ONE	TWO	TWO PIECE PROGRAM.	208	3	60	53/60	1396	1,2,3,4,5,6,7
RTU-3	LENNOX LCH 092 HB4B	3000	150	0.5"	2 HP	93/7.5	12.7/13.0	-	-	7/5 KW	80	67	95°	THROW AWAY	ONE	TWO	TWO PIECE PROGRAM.	208	3	60	42/50	1298	1,2,3,4,5,6,7
RTU-4	LENNOX LCH 072 HB4B	2400	350	0.5"	1 HP	72.0/6	12.0/13.5	-	-	7.5 KW	80	67	95°	THROW	ONE	ONE	TWO PIECE PROGRAM.	208	3	60	34/50	985	1,2,3,4,5,6,7

1. FURNISH ROOF CURB FOR INSTALLATION.

AIR DEVICE SCHEDULE

← → 2-WAY

2-WAY

3-WAY

2-WAY

DUAL

DEFLECTIO

LINEAR

LINEAR

LAY-IN

LAY-IN

LAY-IN

WALL MTD

LAY-IN

LAY-IN

I AY-IN

WALL MTD

SYMBOL \boxtimes

 \triangleright

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S

F.O.I.C

F.C.I.C

RETURN / EXH

R(E) XXX CFM

SUPPLY AIR (CFM) 0 TO 100

100 TO 200

200 TO 400

400 TO 600

600 TO 700

TEMPERATURE SENSOR

FURNISH BY OWNER

INSTALL BY CONTRACTOR

FURNISH BY CONTRACTOR INSTALL BY CONTRACTOR

DEVIČE LEGEND

___AIR FLOW-

ROUND DUCT SIZE (Ø")

6"Ø

8"Ø

10"Ø

12"Ø

14"Ø

BRANCH DUCT SCHEDULE

RTU-3

RTU-4

NET EXH.

NET SUPPLY

GROSS SPACE

ALL RTU FANS SHALL RUN CONTINUOUSLY DURING STORE OPERATION HOURS INCLUDING NIGHT BAKERY SHIFT.

PRESSURE

SUPPLY

PLAN MANUFACTUREF MARK MODEL NUMBER

3T16(X)

MILL HARDWAR 3T16(X) 2WT

MILL HARDWARE 3T16(X)2WC

MILL HARDWAR 3T16(X)3W

3T18(Y)

3T46(D) 2WC

TITUS S300 FL

TITUS ML-39

TITUS ML-39

MILL HARDWARE

3T16(Z) MILL HARDWAR

3T46(B)

TITUS PAR

3T46(C)

3T176 - 3T164 + 3T157 * MUST ORDER FRAME ADDIT

** THE FRAME IS INCLUDED USED WITH (DRYWALL) OR IN) FRAME

PROVIDE WITH INSULATION BOOT

PROTECTOR - SINGLE OTECTOR - 5 PACK

ADDITIONAL ORDERING INFORMATION 3T157 - UNIVERSAL ADAPTER

S8

S9

R2

RЗ

E1

6"Ø 0 8"Ø 1

10"Ø 2 12"Ø 3

14'0

2. FURNISH UNIT WITH ECONOMIZER DAMPER & BAROMETRIC RELIEF DAMPER.

3. RUN CONDENSATE LINE TO NEAREST ROOF DRAIN. . PROVIDE W/ NON FUSIBLE DISCONNECT SWITCH.

5. PROVIDE W/ HOT GAS REHEAT (HUMIDITY CONTROL SYSTEM).

Ls. Office Cellular. Fax(62) dissections (b. Burnoville, MM 5).

Far Princy informatio. 1-800-367-689

7. PURCHASE FROM NATIONAL ACCOUNT SEE CONTACTS THIS SHEET.

MECHANICAL SCHEDULES

DESCRIPTION

DATE

449-18
Drawn: Checked:
AGC MG
Issue Date: