

HOT WATER BOILER SCHEDULE

SYMBOL	FUEL	INLET FUEL PRESSURE	TURNDOWN RATIO	INPUT BTU/HR	OUTPUT BTU/HR	EWT °F	LWT °F	OPERATING PRESSURE	ELECTRICAL				MANUFACTURER	MODEL	REMARKS	
									HP	VOLT-PHASE	DISCONNECT					CONTROLLER/STARTER
											BY (NOTE A)	TYPE (NOTE B)				BY (NOTE A)
BLR-1	NAT GAS	14"WC	2:1	31,000	28,000	80	110	45	120	1	MFR	NF	MFR	VISSMAN	WB2B-19	NOTE 1

NOTES:

1. PROVIDE ALL CONTROLS FOR A FULLY FUNCTIONING SYSTEM AS DESCRIBED IN THE SEQUENCE OF OPERATIONS

KITCHEN HOOD SCHEDULE

SYMBOL	SERVICE	CFM	TYPE	LENGTH	WIDTH	STATIC PRESSURE (IN W.C.)	DUCT VELOCITY (FPM)	CONFIGURATION	MOUNTING HEIGHT	DAMPER TYPE	MANUFACTURER	MODEL	REMARKS
KH-1	SUSHI	675	1	36"	42"	-0.41	1,250	WALL	80"	NONE	CAPTIVE AIRE	ND	NOTE 1
KH-2	PIZZA	730	1	37"	50"	-0.80	1,500	EYEBROW	80"	NONE	WOOD STONE	SG-BDL-OWS	NOTE 1
KH-3	DELI	2,475	1	108"	48"	-1.27	1,800	WALL	86"	NONE	CAPTIVE AIRE	ND	NOTE 1
KH-4	DELI	2,025	1	108"	48"	-0.85	1,500	WALL LEFT	80"	MANUAL	CAPTIVE AIRE	ND	NOTE 1, 2
KH-5	DELI	2,025	1	108"	48"	-0.85	1,500	WALL RIGHT	80"	MANUAL	CAPTIVE AIRE	ND	NOTE 1, 2
KH-6	BAKERY	900	1	48"	48"	-0.73	1,500	WALL	80"	NONE	CAPTIVE AIRE	ND	NOTE 1
KH-7	MEAT	525	2	36"	36"	-0.07	950	WALL	80"	NONE	CAPTIVE AIRE	ND	NOTE 1
KH-8	MEAT	2,700	1	72"	54"	-0.75	1,950	CANOPY	78"	NONE	CAPTIVE AIRE	ND	NOTE 1

NOTES:

- KITCHEN HOOD SHALL BE PROVIDED WITH LED LIGHTS. ALL KITCHEN HOODS (EXCEPT KH-7) SHALL BE PROVIDED WITH ANUSL FIRE SUPPRESSION SYSTEM. COORDINATE ANSUL SYSTEM LOCATION WITH EQUIPMENT LAYOUT. HOOD SHALL HAVE REMOTE CONTROL PANEL AND PUSH BUTTON MOUNTED MANUAL OVERRIDE PROVIDED BY CONTROLS CONTRACTOR. HVAC CONTRACTOR SHALL PROVIDE STAINLESS STEEL SKIRT FROM TOP OF HOOD TO PREP AREA, STAINLESS STEEL FROM FLOOR TO HOOD AND STAINLESS STEEL HOOD STAND OFF.
- COMPENSATING HOOD. PROVIDE TEMPERED AIR AND CONDITIONED AIR SUPPLY PLENUMS, SEE PLANS.

EF-9	CUSTOMER SERVICE	N/A	300	.5	6.0	575	DIRECT	12	NONE	N/A	N/A	N/A	N/A	0.370	0.500	120-1	MFR	NF	MFR	FV	CAPTIVE AIRE	SIBD100A-CA	
EF-10	IT	N/A	600	.5	48.0	441	BELT	12	NONE	NONE	NOTE 3	NOTE 3	0.370	0.500	120-1	MFR	NF	MFR	FV	CAPTIVE AIRE	DUS9WA	NOTE 4	
EF-11	COMPRESSOR	N/A	20,250	.5	48.0	441	BELT	12	NONE	NONE	NOTE 3	NOTE 3	0.370	0.500	120-1	MFR	NF	MFR	FV	CAPTIVE AIRE	DUS9WA	NOTE 4	
EF-13	REAR ELEC ROOM	N/A	1,100	.5	10.0	1,328	BELT	12	NONE	NONE	N/A	N/A	0.180	0.500	120-1	MFR	NF	MFR	FV	CAPTIVE AIRE	DUS9WA	NOTE 4	
EF-14	FRONT ELEC ROOM	N/A	1,100	.5	10.0	1,328	BELT	12	NONE	NONE	N/A	N/A	0.180	0.500	120-1	MFR	NF	MFR	FV	CAPTIVE AIRE	DUS9WA	NOTE 4	
EF-15	BAKTER OVEN	TYPE 2	900	.55	8.0	N/A	BELT	7	GRAVITY	MFR	N/A	N/A	0.180	0.500	120-1	MFR	NF	MFR	FV	CAPTIVE AIRE	DUS9WA	NOTE 4	
EF-16	BAKTER OVEN	TYPE 2	900	.55	8.0	N/A	BELT	7	GRAVITY	MFR	N/A	N/A	0.180	0.500	120-1	MFR	NF	MFR	FV	CAPTIVE AIRE	DUS9WA	NOTE 4	

- NOTES:
 1. DEHUMIDIFICATION FAN SHALL BE MOUNTED AT 11'-0" ABOVE FLOOR. OFFSET TO THE SOURCE AS SPECIFIED AND MUST BE INSTALLED OVER OPEN REFRIGERATED CASES. INSTALL PER MFR RECOMMENDATIONS.
 2. CEILING FAN SHALL BE INSTALLED BETWEEN ROOF JOISTS. BOTTOM OF FAN SHALL BE 18" ABOVE FLOOR.
 3. PROVIDE MECHANICAL SEPARATORS SUPPLIED BY MFR.
 4. INTERLOCK WITH BAKTER BAKING UNIT.
 5. PROVIDE MANUAL STARTER.

MAKE-UP AIR UNIT SCHEDULE

SYMBOL	SERVICE	CFM	EXT. STP IN. W.C. (INCHES D)	MIN. EFFICIENCY AFUE	MIN. MBH OUTPUT	EAT °F	LAT °F	VIBRATION ISOLATION	ELECTRICAL				FUEL	FUEL PRESSURE	MANUFACTURER	MODEL	REMARKS				
									DISCONNECT		CONTROLLER/STARTER										
								TYPE	DEFL.	BHP (NOTE E)	MHP (NOTE E)	VOLT-PHASE	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)					
MAU-1	MAU-1	5,100	0.5	80	285	-10	70	NOTE 2	NOTE 2	1.5	2.0	208-3	MFR	NF	MFR	VFD	GAS	14"	CAPTIVEAIRE	A2-D-500-G15	NOTE 1

- NOTES:
 1. CONDENSING UNITS SHALL BE 208-3 WITH A MOCP OF 20A (2.5T) AND 30A (5T).
 2. CONDENSING UNITS SHALL BE PROVIDED WITH DISCONNECTS AND STARTERS. MC SHALL PROVIDE CONTROL WIRING BETWEEN MAU AND CONDENSING UNITS.
 3. PROVIDE MFR VIBRATION ISOLATION KIT

ROOFTOP AIR HANDLING UNIT SCHEDULE - GAS/ELECTRIC

SYMBOL	SERVICE	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	RTU-7	RTU-8	RTU-9	RTU-10	RTU-11	RTU-12
		STORE	STORE	STORE	STORE	CHECKOUT	ENTRANCE	PRODUCE	CAFE	BAKERY	POWER AISLE	PIZZA	POWER AISLE
SUPPLY FAN													
	CFM	7,500	7,500	4,500	7,500	7,500	4,900	4,500	10,900	2,500	6,000	4,925	5,780
	EXTERNAL STATIC PRESSURE	1.25	1.15	1.63	1.10	1.02	1.30	1.42	1.00	1.00	1.00	1.00	1.00
	FAN RPM (NOTE D)	1,003	987	1,048	980	967		1,004	1,260	1,117	1,061	953	1,024
	BHP (NOTE E)												
	MHP (NOTE E)	10	7.5	7.5	7.5	7.5	7.5	7.5	15.0	2.0	7.5	5.0	7.5
	MINIMUM OUTSIDE AIR CFM	2,300	2,300	1,075	2,300	2,300	900	762	478	161	632	300	499
HEATING - GAS													
	MINIMUM EFFICIENCY AFUE	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%
	MINIMUM OUTPUT MBH	320	320	240	320	320	320	320	240	65	240	240	240
	GAS PRESSURE IN. W.C.	14"	14"	14"	14"	14"	14"	14"	14"	14"	14"	14"	14"
COOLING COIL - DX													
	EAT °F DB	81.1	81.1	79.8	81.1	81.1	78.7	77.4	75.9	76.2	76.3	76.2	76.3
	EAT °F WB	67.8	67.8	66.7	67.8	67.8	65.8	64.2	63.3	63.6	63.7	63.6	63.7
	MAX. LAT °F DB (NOTE 1)	56.2	56.2	52.6	56.2	56.2	53.1	49.9	57.0	59.6	54.3	50.4	53.6
	LAT °F WB	54.5	54.5	52.6	54.5	54.5	52.8	49.9	53.8	56.2	52.8	50.4	52.5
	TOTAL MBH	310.8	310.8	190.9	310.8	310.8	190.6	185.3	304.0	55.6	190.6	184.6	189.4
	AMBIENT TEMPERATURE °F	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00
	REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
	MINIMUM EFFICIENCY	10	10.0	11.2	10	10.0	11.2	11.2	10.0	14.7	11.2	11.2	11.2
	CIRCUITING	2	2	2	2	2	2	2	2	1	2	2	2
FILTER													
	TYPE	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7	MERV 7
ROOF CURB (NOTE G)													
		MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR
VIBRATION ISOLATION													
	TYPE	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL
ELECTRICAL													
	VOLT-PHASE	480-3	480-3	480-3	480-3	480-3	480-3	480-3	480-3	480-3	480-3	480-3	480-3
	MCA	67.50	64.5	46.90	64.50	64.5	46.90	46.90	73.9	19.60	46.90	44.1	46.90
	MOCP AMPS	80	80	50	80	80	50	50	90	25	50	50	50
	DISCONNECT BY (NOTE A)	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR
	DISCONNECT TYPE (NOTE B)	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
	CONTROLLER/STARTER BY (NOTE A)	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR	MFR
	CONTROLLER/STARTER TYPE (NOTE C)	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
	WEIGHT (LBS)	3170	3170	2725	3170	3170	2770	2770	3125	1047	2725	2725	2725
	MANUFACTURER	YORK	YORK	YORK	YORK	YORK	YORK	YORK	YORK	YORK	YORK	YORK	YORK
	MODEL NUMBER	ZR30	ZR30	ZR18	ZR30	ZR30	ZR18	ZR18	ZR30	ZR06	ZR18	ZR18	ZR18
	REMARKS	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4	NOTE 2, 3 & 4

- NOTES:
 1. LAT LISTED IS AT DISCHARGE OF RTU.
 2. ALL SPACE TEMPERATURE, HUMIDITY AND CO2 SENSORS TO BE PROVIDED BY MFR AND WIRED BY ATC. PROVIDE WITH LOCKABLE COVER, SETPOINT CONTROL BY EMS - COORDIANTE ALL CONTROL RELATED OPTIONS WITH EMS CONTRACTOR
 3. PROVIDE WITH POWERED CONVENIENCE OUTLET AND HAIL GUARDS
 4. PROVIDE WITH HOT GAS REHEAT, SS HEAT EXCHANGER, WALL MOUNTED COMBO TEMP, HUMIDITY AND CO2 SENSOR AND DEHUMIDIFICATION CYCLE

HEAT PUMP/SPLIT SYSTEM SCHEDULE

SYMBOL	SERVICE	INDOOR UNIT								OUTDOOR UNIT						ELECTRICAL		REMARKS	
		CFM	MCA	VOLTAGE	PHASE	COOLING MBH	HEATING MBH	MANUFACTURER	MODEL	MCA	MOCP	VOLTAGE	PHASE	MODEL	DISCONNECT		CONTROLLER/STARTER		
															BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)		
HP-1	BREAKROOM	742	3	208	1	24,000	18,000	mitsubishi	PEAD-A24AA	17	18	30	208	1	PUZ-A24RHA3	MFR	NF	MFR	NOTE 1
SS-1	SECURITY	335	1	120	1	9,500	0	mitsubishi	MS-AS9WA	13	14	15	120	1	MU-09WA	MFR	NF	MFR	NOTE 1

- NOTES:
 1. PROVIDE WITH CONDENSATE PUMP POWERED BY UNIT. PROVIDE CONTROL WIRING AND CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT. PROVIDE LOW AMBIENT KIT

FAN SCHEDULE

SYMBOL	SERVICE	EXHAUST TYPE	CFM	S.P. IN. W.C.	WHEEL DIA. INCHES	FAN RPM (NOTE F)	DRIVE	MAX. AMCA SONES	BACKDRAFT DAMPER	CURB TYPE (NOTE G)	VIBRATION ISOLATION		ELECTRICAL				MANUFACTURER	MODEL	REMARKS			
											TYPE	DEFL.	BHP (NOTE E)	MHP (NOTE E)	VOLT-PHASE	DISCONNECT				CONTROLLER/STARTER		
																BY (NOTE A)				TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)
CF-1	SALES	N/A	975	N/A	10.0	1,550	DIRECT	N/A	N/A	N/A	N/A	N/A	N/A	120-1	EC	NF	EC	FV	AIR ROW	F-18	NOTE 1	
CF-2	SALES	N/A	770	N/A	8.0	315	DIRECT	N/A	N/A	N/A	N/A	N/A	N/A	120-1	EC	NF	EC	FV	LEADING EDGE	48201	NOTE 2	
CF-3	CAFE	N/A	75,000	0	144.0	82	DIRECT	0	N/A	N/A	N/A	N/A	0.75	0.75	120-1	EC	NF	MFR/EC	FV	BIG ASS FANS	ELEMENT	
EF-1	SUSHI	TYPE 1	675	.75	8.0	1,339	BELT	5	NONE	MFR	N/A	N/A	0.26	0.500	208-3	MFR	NF	MFR/EC	FV	CAPTIVE AIRE	NCA8FA	
EF-2	PIZZA	TYPE 1	730	1.3	8.0	1,530	BELT	5	NONE	MFR	N/A	N/A	0.250	0.500	208-3	MFR	NF	MFR/EC	FV	CAPTIVE AIRE	NCA8FA	
EF-3	DELI	TYPE 1	2,475	1.5	24.0	904	BELT	16.8	NONE	MFR	N/A	N/A	1.700	2.000	208-3	MFR	NF	MFR/EC	FV	CAPTIVE AIRE	NCA14FA	
EF-4	DELI-BOH	TYPE 1	4,050	1.375	24.0	958	BELT	20	NONE	MFR	N/A	N/A	1.990	3.000	208-3	MFR	NF	MFR/EC	VFD	CAPTIVE AIRE	NCA24HPFA	
EF-5	BAKERY	TYPE 1	900	1.125	14.0	1,255	BELT	11	NONE	MFR	N/A	N/A	0.500	0.750	208-3	MFR	NF	MFR/EC	VFD	CAPTIVE AIRE	NCA14HPFA	
EF-6	MEAT	TYPE 2	525	.45	8.0	1,029	DIRECT	3.3	GRAVITY	MFR	N/A	N/A	0.280	0.500	120-1	MFR	NF	MFR/EC	FV	CAPTIVE AIRE	NCADU30HFA	
EF-7	MEAT	TYPE 1	2,700	1.5	18.0	1,190	BELT	16.1	NONE	MFR	N/A	N/A	0.670	1.500	208-3	MFR	NF	MFR/EC	FV	CAPTIVE AIRE	NCA18HPFA	
EF-9	TOILET	N/A	1,050	.5	11.0	1,188	BELT	5.3	GRAVITY	MFR	N/A	N/A	0.280	0.500	120-1	MFR	NF	MFR/EC	NF	CAPTIVE AIRE	DD11FA	NOTE 5
EF-10	CUSTOMER SERVICE	N/A	300	.5	6.0	575	DIRECT	12	NONE	N/A	N/A	N/A	0.180	0.333	120-1	MFR	NF	MFR/EC	FV	CAPTIVE AIRE	CFA 300CA	NOTE 5
EF-11	IT	N/A	600	.5	6.0	575	DIRECT	12	NONE	N/A	N/A	N/A	0.300	0.400	120-1	MFR	NF	MFR/EC	FV	CAPTIVE AIRE	CFA 900CA	NOTE 5
EF-12	COMPRESSOR	N/A	20,250	.5	48.0	441	BELT	24	GRAVITY	MFR	N/A	N/A	6.000	7.500	480-3	MFR	NF	RC	NF	GREENHECK	GB-480-7	
EF-13	REAR ELEC ROOM	N/A	1,100	.5	10.0	1,528	BELT	12	NONE	NONE	NOTE 3	NOTE 3	0.270	0.500	120-1	MFR	NF	MFR	TSTAT	CAPTIVE AIRE	SIBD100A-CA	
EF-14	FRONT ELEC ROOM	N/A	1,100	.5	10.0	1,528	BELT	12	NONE	NONE	NOTE 3	NOTE 3	0.270	0.500	120-1	MFR	NF	MFR	TSTAT	CAPTIVE AIRE	SIBD100A-CA	
EF-15	BAXTER OVEN	TYPE 2	900	.85	5.0	N/A	BELT	7	GRAVITY	MFR	N/A	N/A	0.190	0.500	120-1	MFR	NF	MFR	FV	CAPTIVE AIRE	DU50HFA	NOTE 4
EF-16	BAXTER OVEN	TYPE 2	900	.85	5.0	N/A	BELT	7	GRAVITY	MFR	N/A	N/A	0.190	0.500	120-1	MFR	NF	MFR	FV	CAPTIVE AIRE	DU50HFA	NOTE 4

- NOTES:**
 1. DESTRATIFICATION FAN SHALL BE MOUNTED AT 11'-0" ABOVE FLOOR. OFFSET TO MISS LIGHTS AS NEEDED. DO NOT INSTALL OVER OPEN REFRIGERATED CASES. INSTALL PER MFR RECOMMENDATIONS
 2. CEILING FAN SHALL BE INSTALLED BETWEEN ROOF JOISTS. BOTTOM OF FAN SHALL BE ABOVE BOTTOM CORD OF ROOF JOIST
 3. PROVIDE NEOPRENE ISOLATORS SUPPLIED BY MFR
 4. INTERLOCK WITH BAXTER BAKERY OVEN OPERATION.
 5. PROVIDE MANUAL SPEED CONTROLLER

MAKE-UP AIR UNIT SCHEDULE

SYMBOL	SERVICE	CFM	FAN RPM (NOTE D)	EXT. S.P. IN. W.C.	MIN. EFFICIENCY AFUE	MIN. MBH OUTPUT	EAT °F	LAT °F	VIBRATION ISOLATION		ELECTRICAL				FUEL	FUEL PRESSURE	MANUFACTURER	MODEL	REMARKS			
									TYPE	DEFL.	BHP (NOTE E)	MHP (NOTE E)	VOLT-PHASE	DISCONNECT						CONTROLLER/STARTER		
														BY (NOTE A)						TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)
HD-45		3,150	918	0.5	80	285	-10	70	NOTE 2	NOTE 2	1.5	2.0	208-3	MFR	NF	MFR	VFD	GAS	14"	CAPTIVEAIRE	A2-D.500-G15	NOTE 1

MAU WITH 7.5 TON COOLING PACKAGE COMPLETE WITH 2.5 & 5 T REMOTE CONDENSING UNITS. CONDENSING UNITS SHALL BE PROVIDED WITH DISCONNECTS AND STARTERS. MC SHALL PROVIDE CONTROL WIRING BETWEEN MAU AND CONDENSING UNITS.
 G UNITS SHALL BE 208-3 WITH A MOCF OF 20A (2.5T) AND 30A (5T)
 R VIBRATION ISOLATION KIT

TOP AIR HANDLING UNIT SCHEDULE - GAS/ELECTRIC

RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	RTU-7	RTU-8	RTU-9	RTU-10	RTU-11	RTU-12
STORE	STORE	STORE	STORE	CHECKOUT	ENTRANCE	PRODUCE	CAFE	BAKERY	POWER AISLE	PIZZA	POWER AISLE