

EF-1 FRYER HOOD VENTILATION SYSTEM HOOD 1										EF-2 CONVEYOR BROILER VENTILATION SYSTEM HOOD 2										RESTROOM EXHAUST EF-3 UTILITY AREA EXHAUST EF-4										EF-3 EF-4																			
SUPPLIED BY:										SUPPLIED BY:										SUPPLIED BY:										SUPPLIED BY:																			
QTY	PART NO.	DESCRIPTION	M	G	I	E	F	H	P	QTY	PART NO.	DESCRIPTION	M	G	I	E	F	H	P	QTY	PART NO.	DESCRIPTION	M	G	I	E	F	H	P	QTY	PART NO.	DESCRIPTION	M	G	I	E	F	H	P										
1	CP2SPL1	HOOD, LOW PROFILE 135" W/ MUA BACKWALLS	X							1	BU2L	HOOD, LOW PROFILE 52" W/ MUA BACKWALL	X							2	501080	FAN, EXHAUST MODEL DCRD-090 1/8HP 115V MOTOR	X																										
1		INSTALL HOOD		X						1		INSTALL HOOD		X						2	-	ROOF CURB, 16.5" X 16.5" X 38" INSULATED, W/ BACKDRAFT DAMPER	X																										
6	501105	FILTER, GREASE SS 1616 7 PER HOOD	X							2	501105	FILTER, GREASE SS 1616	X							2		ADJUSTABLE SPEED CONTROL MOUNTED TO FAN	X																										
1	115919	GREASE CUP STN STL 1 PER HOOD	X							1	115919	GREASE CUP STN STL 1 PER HOOD	X							2		ELECT DISCONNECT SW MOUNTED TO FAN	X																										
1		HOOD FIRE PROTECTION PIPING	X							1		HOOD FIRE PROTECTION PIPING	X							2		INSTALL FAN							X																				
1		ANSUL FIELD CONNECTION OF FIRE SYSTEM AND TAGGING			X					1		ANSUL FIELD CONNECTION OF FIRE SYSTEM AND TAGGING			X					2		ELECTRICAL HOOK-UP							X																				
1		EXHAUST DUCT WYE, 16GA (2) 8 X 10, (1) 14 X 10 W/ UL LISTED ACCESS COVER	X							1		EXHAUST DUCT 16GA, 9 X 9 X 84 LONG (STRAIGHT)	X							2		PROVIDE ROOF OPENING	X																										
1		EXHAUST DUCT 16GA 14 X 10 X 96 LONG (STRAIGHT)	X							1		CUT STACK TO LENGTH AND FIELD WELD 16GA HRS		X					A/R			DUCTWORK FOR EXHAUST							X																				
1		EXHAUST DUCT OFFSET 16GA HRS	X							1		EXHAUST DUCT OFFSET	X							2		COMPLETE STORE AIR BALANCE*		X																									
1		CUT STACK TO LENGTH AND FIELD WELD 16GA HRS		X						1	503079	FAN, EXHAUST BCRUR-110 1/2HP 115V 1PH MOTOR	X																																				
2		MAKEUP AIR EXTENSIONS 3" X 16" COLLARS	X							1		ELECT DISCONNECT SW MOUNTED TO FAN	X																																				
1	504218	FAN, EXHAUST BCRUR-210 1HP 115V 1PH MOTOR	X							1		INSTALL FAN		X																																			
1		ELECT DISCONNECT SW MOUNTED TO FAN	X							1		ELECTRICAL HOOK-UP			X																																		
1		INSTALL FAN		X						1		PROVIDE ROOF OPENING	X																																				
1		ELECTRICAL HOOK-UP			X					1	148098	ROOF CURB FOR EXHAUST FAN 23.5 X 23.5 X 28 W/ BLANK BULKHEAD	X																																				
1		PROVIDE ROOF OPENING	X							1		FAN DRAIN CATCH, HINGE KIT AND FAN RESTRAINT	X																																				
1	154330	ROOF CURB FOR EXHAUST FAN 33.5 X 33.5 X 22 W/ BLANK BULKHEAD	X							1		INSTALL CURB		X																																			
1		FAN DRAIN CATCH, HINGE KIT AND FAN RESTRAINT	X							1		FURNISH AND INSTALL STACK INSULATION PER LOCAL CODES			X																																		
1		INSTALL CURB	X							1		FAN/FIRE SYSTEM INTERLOCK PANEL W/ EXH FAN AND MUA FAN SWITCHES	X																																				
1		FURNISH AND INSTALL STACK INSULATION PER LOCAL CODES		X						1	158495	HOOD DUCT HEAT SENSOR	X																																				
1		FAN/FIRE SYSTEM INTERLOCK PANEL W/ EXH FAN AND MUA FAN SWITCHES	X							1		COMPLETE STORE AIR BALANCE		X																																			
2	158495	HOOD DUCT HEAT SENSOR	X																																														
1		COMPLETE STORE AIR BALANCE		X																																													

EXHAUST HOOD IS ETL LISTED TO CONFORM TO UL 710 SPECS. IN ADDITION TO CERTIFYING ADEQUATE EXHAUST LEVELS, UL ALSO CERTIFIES COMPLIANCE WITH NFPA 96 CONSTRUCTION REQUIREMENTS.
 FRYER HOOD 1 MODEL GA-135-MUA
 FRYER HOOD 2 MODEL GA-052-MUA

LISTED OVERHANG HOOD SIDES: 2" MINIMUM FROM COOKING SURFACE.
 LISTED OVERHANG HOOD FRONT: .5" MINIMUM FROM COOKING SURFACE.
6" OVERHANG NOT REQUIRED PER UL710 APPROVAL.

LISTED EXHAUST CFM: 148 PER FOOT OF COOKING SURFACE MINIMUM.

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SUPPLIED BY SYMBOLS:
 M - MARSHALL AIR SYSTEMS
 G - GENERAL CONTRACTOR
 I - HOOD INSTALLER
 E - ELECTRICIAN
 F - FIRE SYSTEM INSTALLER
 H - HVAC CONTRACTOR
 P - PLUMBER
 O - OPTIONAL BY MARSHALL AIR SYSTEMS

FAN	DESCRIPTION	EXHAUST	MAKEUP AIR	HOOD WEIGHT	HOOD CONNECTION SIZE	DUCT VELOCITY	FAN MODEL NUMBER	FAN NO.	HORSEPOWER	VOLTAGE	FAN WEIGHT	CURB
EF1	135" LOW PROFILE HOOD	1860	1410	660 LBS	(2) 8" X 10"	1660 FPM	TWIN CITY CENT. UPBLAST MODEL BCRUR-210	EF-1	1	115V 1PH	245 LBS	33.5" X 33.5"
EF2	52" LOW PROFILE HOOD	800	600	250 LBS.	9" X 9"	1866 FPM	TWIN CITY CENT. UPBLAST MODEL BCRUR-110	EF-2	1/2	115V 1PH	135 LBS.	23.5" X 23.5"
EF3	RESTROOM EXHAUST FAN EF3	150	N/A	N/A	SEE "M" PLANS	SEE "M" PLANS	TWIN CITY DOWN BLAST MODEL DCRD-090	EF-3	1/8	115V 1PH	40 LBS.	16.5" X 16.5"
EF4	UTILITY AREA EXHAUST FAN EF4	150	N/A	N/A	SEE "M" PLANS	SEE "M" PLANS	TWIN CITY DOWN BLAST MODEL DCRD-090	EF-4	1/8	115V 1PH	40 LBS.	16.5" X 16.5"
	SUPPLY FAN	0	2010	N/A	SEE "M" PLANS	SEE "M" PLANS	MARSHALL AIR SYSTEMS MODEL S2420	SF-1	2	208V 3PH	335 LBS.	36" X 52"
	TOTAL	2960	2010									

- NOTES
- HOOD CONSTRUCTION AND DESIGN MEETS INTERNATIONAL MECHANICAL CODE AS WELL AS UNIFORM MECHANICAL CODE, SBCCI, BOCA, ICBO AND NFPA 96 CONSTRUCTION REQUIREMENTS.
 - ALL HOODS ARE MANUFACTURED ACCORDING TO NATIONAL SANITATION FOUNDATION STANDARDS.
 - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
 - ALL STACKS ABOVE THE ROOF LINE SHOULD BE PAINTED.
 - MATERIAL: HOODS: HOODS ARE CONSTRUCTED OF STAINLESS STEEL #18 GA (.043) THICK MINIMUM. ALL HOOD SEAMS HAVE A LIQUID TIGHT CONTINUOUS EXTERNAL WELD WHERE REQUIRED PER NFPA 96.
 - MATERIAL: EXHAUST STACKS: 16GA. MIN. STEEL, WITH JOINTS HAVING A LIQUID TIGHT CONTINUOUS EXTERNAL WELD WHERE REQUIRED PER NFPA 96.
 - MATERIAL: HOOD GREASE FILTERS: GREASE FILTERS ARE ONE OF THE FOLLOWING TYPES: (A) FLAME GARD, INC., STAINLESS STEEL UL CLASSIFIED FILE # R 6593 (B) KASON INC., STAINLESS STEEL UL CLASSIFIED FILE # R 13192
 - CLEARANCE FROM STACKS TO COMBUSTIBLE MATERIAL SHALL BE 18", LIMITED COMBUSTIBLE SHALL BE 12" AND NON-COMBUSTIBLE SHALL BE 0". CLEARANCE REDUCTION SYSTEMS PER NFPA 96 MAY BE INSTALLED IF APPROVED BY LOCAL AUTHORITY.
 - KITCHEN CEILING HEIGHT = 8'-11" (107").
 - HOODS ARE PROVIDED FOR ANSUL FIRE SYSTEM
 - RESPONSIBILITY OF OTHERS:
 - PLUMBING
 - CARPENTRY
 - ROOF PENETRATIONS
 - CURB FLASHINGS
 - CHIMNEY SEALING
 - SERVICE PLATFORMS
 - HANDRAILS
 - FIRE CHASES
 - FIRE WRAP
 - STRUCTURAL ENGINEERING
 - STRUCTURAL STEEL
 - BLUELINE DRAWINGS
 - BUILDING PERMITS
 - ANY ELECTRIC
 - RECEIVE AND UNLOAD FREIGHT, FORKLIFT REQUIRED.
 - ANY FREIGHT DAMAGE MUST BE NOTED ON BILL OF LADING. CONTACT MARSHALL AIR IMMEDIATELY FOR FURTHER INSTRUCTIONS.
 - COMPLETE STORE HVAC AIR BALANCE. FAILURE TO DO WILL RESULT IN INCORRECTLY FUNCTIONING SYSTEM AND MARSHALL AIR SYSTEMS CANNOT BE RESPONSIBLE FOR EXHAUST SYSTEM PERFORMANCE.



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SHEET NO.	DRAWING NO.	TITLE
1	402804SPL1	GENERAL INDEX, AIR BALANCE, NOTES
2	402805SPL1	HOOD DETAILS
3	402806SPL1	EXHAUST FAN, FIRE SYSTEM
4	402810SPL1	NONHEATED MUA FAN, SCHEMATIC

REV	DESCRIPTION	DATE	REV. BY	DRAWN BY:	DATE:	REV. DATE:	MARSHALL AIR SYSTEMS, INC.		
				P.W.	9/18/2018	9/18/2018	EXH SYS, CAPTAIN D'S GAFFNEY		
				GEN. SYS			GENERAL INDEX, AIR BALANCE, NOTES		
				PRODUCT LINE:	VNT	PRODUCT CLASS:	MANUF	DWG. NO.:	402804SPL1
				INSTALLATION DWG.			SCALE:	3/8" = 1'-0"	CODE:
									CP2QONSP1