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REVISIONS:

No.	Description	Date

PROJECT: 9202-169779
 DATE: 12/18
 DRAWN BY: CCO
 CHECKED BY: JCC

KITCHEN HOODS AND FANS

M-406

EXHAUST FAN INFORMATION - Job#3075812

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	BL.P.	#	VOLT.	FLA	WEIGHT (LBS.)	SONES
1	#112 EF	NCA16HPFA	1680	1.250	1118	1.000	0.6398	3	460	1.5	147	10
3	#221 EF	DJ18DHPFA	2000	1.600	1206	2.000	0.8410	3	208	6.1	156	15.4
5	#402 EF	NCA24HPFA	4868	2.000	1180	5.000	2.7100	3	460	6.8	297	21
7	#427 EF	NCA30HPFA	7680	1.800	877	5.000	3.8290	3	460	6.8	469	16.6
9	#418 EF	NCA30HPFA	7680	1.800	877	5.000	3.8290	3	460	6.8	469	16.6

CONDENSER DETAILS

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CONDENSER NO.	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX. FUSE SIZE	MIN. WIRE SIZE	SEER
2	#112 MUA	A1-D.250-G10-MPU	1	3	460	3 PHASE	60 Hz	7.7 Amps	6.3 Amps	15 Amps	14 AWG	14
4	#221 MUA	A1-D.250-G10-MPU	1	3	460	3 PHASE	60 Hz	7.7 Amps	6.3 Amps	15 Amps	14 AWG	14
6	#402 MUA	A2-D.250-G15-MPU	2	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14
5	#427 MUA	A3-D.500-G18-MPU	1	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14
			2	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14
			3	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14
10	#418 MUA	A3-D.500-G18-MPU	1	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14
			2	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14
			3	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14

MUA FAN INFORMATION - Job#3075812

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	BL.P.	#	VOLT.	FLA	COOLING COIL ENTERING DB TEMP.	COOLING COIL LEAVING DB TEMP.	COOLING COIL LATENT CAPACITY	COOLING COIL SENSIBLE CAPACITY	COOLING COIL LATENT CAPACITY	WEIGHT (LBS.)	SONES	BURNER EFFICIENCY(%)			
2	#112 MUA	A1-D.250-G10-MPU	G10	A1-D.250	1000	1512	0.500	999	0.750	0.5222	3	460	1.1	90.0F	73.0F	77.0F	67.9F	30.1 MBH	21.3 MBH	8.8 MBH	1171	18.1	92
4	#221 MUA	A1-D.250-G10-MPU	G10	A1-D.250	1000	1800	0.500	1086	1.000	0.7380	3	460	1.5	90.0F	73.0F	78.1F	68.3F	33.2 MBH	23.2 MBH	10.0 MBH	1173	18.5	92
6	#402 MUA	A2-D.250-G15-MPU	G15-PB	A2-D.250	2500	4381	0.500	1074	5.000	3.1010	3	460	8.8	90.0F	73.0F	75.5F	58.1F	82.7 MBH	68.8 MBH	13.9 MBH	1699	21	92
8	#427 MUA	A3-D.500-G18-MPU	G18-PB	A3-D.500	3500	6912	0.500	907	7.500	4.4530	3	460	9.6	90.0F	73.0F	74.2F	66.6F	167.6 MBH	118.3 MBH	49.3 MBH	2449	17.2	92
10	#418 MUA	A3-D.500-G18-MPU	G18-PB	A3-D.500	3500	6912	0.500	907	7.500	4.4530	3	460	9.6	90.0F	73.0F	74.2F	66.6F	167.6 MBH	118.3 MBH	49.3 MBH	2449	17.2	92

GAS FIRED MAKE-UP AIR UNIT(S)

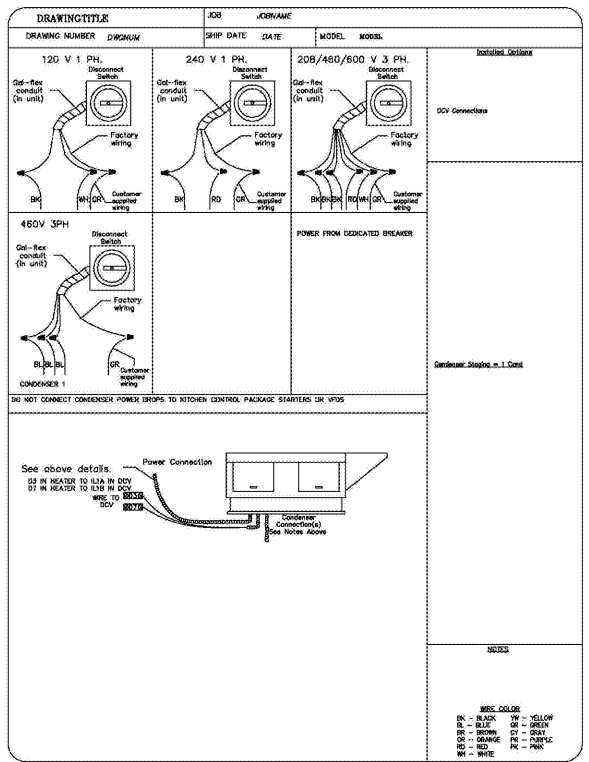
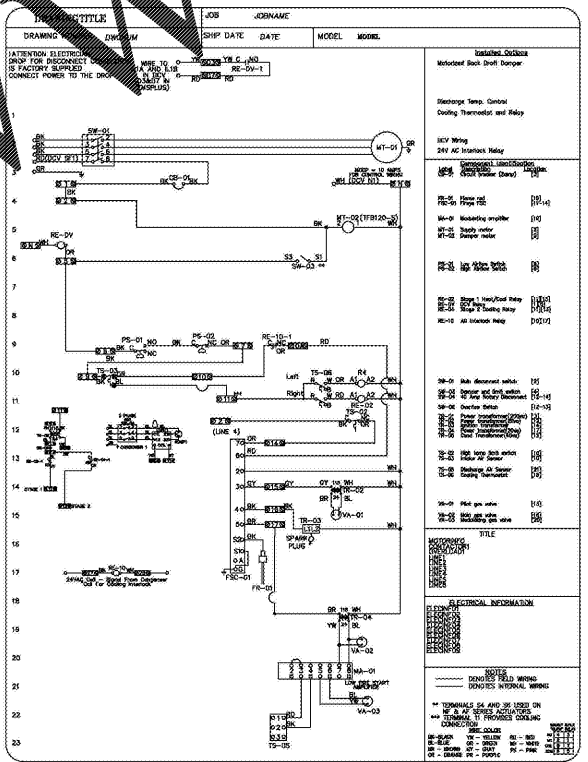
FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
2	#112 MUA	92298	84914	52 deg F	7 in. w.c. - 14 in. w.c.	Natural
4	#221 MUA	109878	101058	52 deg F	7 in. w.c. - 14 in. w.c.	Natural
6	#402 MUA	267432	246037	52 deg F	7 in. w.c. - 14 in. w.c.	Natural
8	#427 MUA	421953	388176	52 deg F	7 in. w.c. - 14 in. w.c.	Natural
10	#418 MUA	421953	388176	52 deg F	7 in. w.c. - 14 in. w.c.	Natural

FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST			SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	#112 EF	YES				YES	
2	#112 MUA			YES		YES	
3	#221 EF	YES				YES	
4	#221 MUA			YES		YES	
5	#402 EF	YES				YES	
6	#402 MUA	YES		YES		YES	
7	#427 EF	YES				YES	
8	#427 MUA			YES		YES	
9	#418 EF	YES				YES	
10	#418 MUA			YES		YES	

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	#112 EF	1 - Grease Box
		1 - AC Interlock Relay - 24VAC Coil
		1 - Motorized Backdraft Damper for A1-D Housing
		1 - Low Fire Start
		1 - Inlet Pressure Gauge, 0-35"
2	#112 MUA	1 - Manifold Pressure Gauge, -5 to 15" wc
		1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only
		1 - Cooling Thermostat and Relay (Not req for evap)
		1 - 3 Ton Single Circuit Modular Packaged Cooling Option for Size 1 MUA (1,100 to 1,800 cfm), 460V, 3 phase. Cooling Thermostat or Programmable Start Required for Proper Operation.
		1 - Full Crating For Commercial Heater
3	#221 EF	1 - Grease Box
		1 - AC Interlock Relay - 24VAC Coil
		1 - Motorized Backdraft Damper for A1-D Housing
		1 - Low Fire Start
		1 - Inlet Pressure Gauge, 0-35"
4	#221 MUA	1 - Manifold Pressure Gauge, -5 to 15" wc
		1 - Cooling Thermostat and Relay (Not req for evap)
		1 - 3 Ton Single Circuit Modular Packaged Cooling Option for Size 1 MUA (1,100 to 1,800 cfm), 460V, 3 phase. Cooling Thermostat or Programmable Start Required for Proper Operation.
		1 - Full Crating For Commercial Heater
		1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only
5	#402 EF	1 - Grease Box
		1 - AC Interlock Relay - 24VAC Coil
		1 - Motorized Backdraft Damper for A2-D Housing
		1 - Low Fire Start
		1 - Inlet Pressure Gauge, 0-35"
6	#402 MUA	1 - Manifold Pressure Gauge, -5 to 15" wc
		1 - 8 Ton 2 Circuit (3/5) Modular Packaged Cooling Option for Size 2 MUA (2,900 to 4,800 cfm), 460V, 3 phase. Cooling Thermostat or Programmable Start Required for Proper Operation.
		1 - Full Crating For Commercial Heater
		1 - Cooling Thermostat and Relay (Not req for evap)
		1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only
7	#427 EF	1 - Grease Box
		1 - AC Interlock Relay - 24VAC Coil
		1 - Motorized Backdraft Damper for A3-D Housing
		1 - Low Fire Start
		1 - Inlet Pressure Gauge, 0-35"
8	#427 MUA	1 - Manifold Pressure Gauge, -5 to 15" wc
		1 - 15 Ton 3 Circuit (5/5/5) Modular Packaged Cooling Option for Size 3 MUA (5,400 to 7,000 cfm), 460V, 3 phase. Cooling Thermostat or Programmable Start Required for Proper Operation.
		1 - Full Crating For Commercial Heater
		1 - Condenser Support for Size 3, 15 Ton Mod Package Unit
		1 - Cooling Thermostat and Relay (Not req for evap)
9	#418 EF	1 - Grease Box
		1 - AC Interlock Relay - 24VAC Coil
		1 - Motorized Backdraft Damper for A3-D Housing
		1 - Low Fire Start
		1 - Inlet Pressure Gauge, 0-35"
10	#418 MUA	1 - Manifold Pressure Gauge, -5 to 15" wc
		1 - 15 Ton 3 Circuit (5/5/5) Modular Packaged Cooling Option for Size 3 MUA (5,400 to 7,000 cfm), 460V, 3 phase. Cooling Thermostat or Programmable Start Required for Proper Operation.
		1 - Full Crating For Commercial Heater
		1 - Condenser Support for Size 3, 15 Ton Mod Package Unit
		1 - Cooling Thermostat and Relay (Not req for evap)
10	#418 MUA	1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only



NOTE: MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL DUCTWORK, U.L. LISTED FIRE BLANKETS, EXHAUST FANS AND MAKEUP AIR UNITS. KITCHEN HOODS SHALL BE PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

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