EXHAUST FAN INFORMATION – JOB#5667365

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU180HFA	CAPTIVEAIRE	3400	1.588	1399	ODP,PREMIUM	3.000	1.9700	3	208	9.5	785 FPM	189	22.7
2		1	DU180HFA	CAPTIVEAIRE	2900	1.178	1199	ODP,PREMIUM	2.000	1.2400	3	208	8.3	670 FPM	188	17.3
3		1	DR12HFA	CAPTIVEAIRE	450	0.250	1220	TEAO-ECM	0.250	0.0810	1	115	2.9		49	5.4

CONDENSER DETAILS

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
4		A3-D.500-24D-MPU	1	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14
			2	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14

MUA FAN INFORMATION – JOB#5667365

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
4		1	A3-D.500-24D-MPU	24MF-3-MOD	A3-D.500	3600	5040	0.900	1450	ODP,PREMIUM	7.500	5.1920	3	208	21.1	26.4A	40A	1876	13.8

COILS – JOB#5667365

FAN UNIT NO	TAG	COIL TYPE	DESIGN CFM	COOLING										HEATING								
				ENTERING DB TEMP	ENTERING WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	ENTERING DB TEMP	LEAVING DB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	STEAM PRESSURE	TOTAL CAPACITY	SENSIBLE CAPACITY
4		DX	5040	95.0°F	78.0°F	82.2°F	72.0°F	---	---	---	---	120.0 MBH	68.1 MBH	51.9 MBH	---	---	---	---	---	---	---	---	---

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
4		539830	496644	100°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX
		1	UPBLAST FAN WHEEL ACCESS PORT
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2		1	GREASE BOX
		1	UPBLAST FAN WHEEL ACCESS PORT
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
3		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY
4		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	MOTORIZED BACKDRAFT DAMPER FOR A3-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	10 TON 2 CIRCUIT (S/S) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 DF/EH MUA (3,600 TO 6,000 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION
		1	DOWNTURN PLENUM FOR SIZE 3 DX COIL MODULE
		1	SHIP CONDENSERS LOOSE - TWO CONDENSERS, THREE PHASE - CONDENSER DISCONNECTS SHIPPED LOOSE
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
		1	LOW FIRE START
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	COOLING THERMOSTAT AND RELAY (NOT REQUIRED FOR EVAP)
		1	2 YEAR PARTS WARRANTY

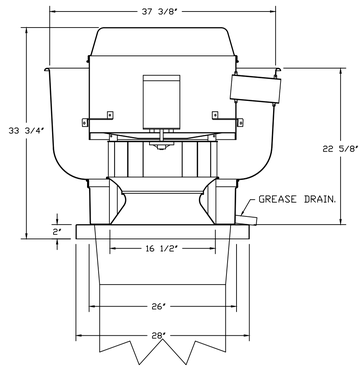
FAN ACCESSORIES

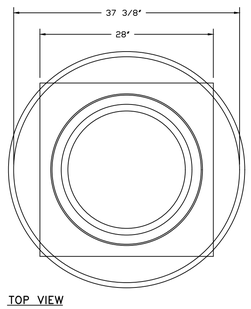
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2		YES						
3			YES					
4							YES	

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	34 LBS	CURB	26.500"W X 26.500"L X 30.000"H ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	34 LBS	CURB	26.500"W X 26.500"L X 30.000"H ALONG LENGTH, RIGHT VENTED HINGED.
3	# 3	16 LBS	CURB	17.500"W X 17.500"L X 12.000"H ALONG LENGTH, RIGHT.
4	# 4	114 LBS	CURB	35.000"W X 84.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.
	# 4		RAIL	6.000"W X 35.000"L X 20.000"H RIGHT.

FANS #1, #2 - DU180HFA EXHAUST FAN





TOP VIEW

FEATURES:

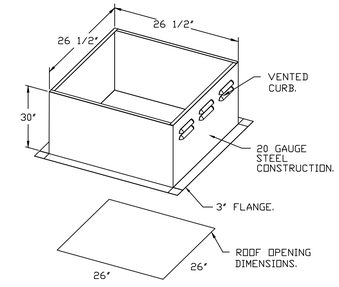
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

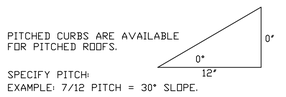
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.
UPBLAST FAN WHEEL ACCESS PORT.
FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
2 YEAR PARTS WARRANTY.





NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL
PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE:

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE
CAPTIVEAIRE
SOUTHERN CALIFORNIA OFFICE

3002 DOW AVENUE, SUITE 410
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REG86@CAPTIVEAIRE.COM

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

CAPTIVEAIRE
www.captiveaire.com
Southern California Office
3002 Dow Ave., Suite 410, Tustin, CA, 92780 PHONE: (714) 957-1500 FAX: (919) 227-5975 EMAIL: reg86@captiveaire.com

Preliminary Drawing - Not For Construction Use for quoting purposes only

Panda Express - Clarksville TN (D23503)
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN, 37040

DATE: 9/30/2022

DWG.#: 5667365

DRAWN BY: AH-86

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 4

ISSUE FOR BID 01-30-23

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

ISSUE FOR PERMIT	10-20-22
ISSUE FOR BID	01-30-23

DRAWN BY: AE/SS

PANDA PROJECT #: D23503
PANDA STORE #: -
ARCH PROJECT #: 261-443

MPW
MPW ENGINEERING, LLC
115 W. 7TH STREET • SUITE 605 • TULSA, OK 74119
(918) 582-4088 • (918) 582-4087 FAX

FOR INFORMATION ONLY

PANDA EXPRESS
PANDA HOME 2600
NORTH RIVERSIDE DR & 2ND ST.
CLARKSVILLE, TN 37040

M-403

HOOD DETAIL PLAN

ISSUE FOR BID 01-30-23

PANDA HOME 2600 R4