












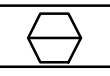





PACKAGED ROOF TOP UNIT SCHEDULE				
UNIT SYMBOL		 (EXISTING)	 (EXISTING)	 (EXISTING)
LOCATION		ROOF	ROOF	ROOF
BLOWER	SA CFM (TONS)/ OA CFM	3,000 (7.5-TON)/ 666	3,000 (7.5-TON)/ 666	3,000 (7.5-TON)/ 666
	TSP (IN W.G.)	0.5"	0.5"	0.5"
COOLING	TOTAL (BTU/HR)	91,400	91,400	91,400
	SENSIBLE (BTU/HR)	65,600	65,600	65,600
	AMBIENT (F)	91	91	91
	COIL ENTERING	79 DB/67 WB	79 DB/67 WB	79 DB/67 WB
HEATING (ELECTRIC)		7.5 kW	7.5 kW	7.5 kW
ELECTRICAL	POWER SUPPLY	208V/3Ph/60HZ	208V/3Ph/60HZ	208V/3Ph/60HZ
	COMPRESSOR (RLA)	(2) 26	(2) 26	(2) 26
	CONDENSER MOTOR (FLA)	(2) 5.0	(2) 5.0	(2) 5.0
	EVAPORATOR MOTOR (FLA)	8.6	8.6	8.6
	MIN. CIRCUIT AMPACITY	43, HACR = 50	43, HACR = 50	43, HACR = 50
PANDA NATIONAL ACCOUNT. NO SUBSTITUTES ALLOWED. FOR PRICING AND ORDERS EMAIL LennoxNationalAccounts@lennoxind.com OR CALL 800-367-6285 EXT #1 FOR CUSTOMER SERVICE. EXT #2 FOR TECHNICAL SUPPORT. TECH SUPPORT EMAIL FOR INSTALLATION QUESTIONS NATS@lennoxind.com ALL INQUIRIES SHOULD INCLUDE "PANDA EXPRESS, STORE # AND CITY/STATE"		LENNOX MODEL LCT092H4E DOWN DISCHARGE, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF OPER. WT.: 1302 LBS APPROX. EER-12.5	LENNOX MODEL LCT092H4E DOWN DISCHARGE, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF OPER. WT.: 1302 LBS APPROX. EER-12.5	LENNOX MODEL LCT092H4E DOWN DISCHARGE, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF OPER. WT.: 1302 LBS APPROX. EER-12.5
ALL ITEMS RELATED TO HVAC SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTACT LENNOX REPRESENTATIVE ABOVE. - THERMOSTATS: REMOTE SENSOR TYPE, 24/7 PROGRAMMABLE AND CAPABLE OF OPERATING ROOFTOP UNITS AND ACCESSORIES - DUCT MOUNTED SMOKE DETECTORS: IONIZATION TYPE/UL LISTED NOTE: 1. UNIT WEIGHTS ABOVE INCLUDE ACCESSORIES AND CURB. 2. FACTORY COATED EVAPORATOR COIL ON ALL UNITS 3. FACTORY COATED CONDENSER COIL ONLY WITHIN 5 MILES OF SALTWATER COASTLINE 4. SINGLE ENTHALPY ECONOMIZER, HIGH PERFORMANCE, LOW-LEAK DAMPERS, W/ GRAVITY EXHAUST 5. TITLE 24 COMPLIANT 6. SUPPLY AIR SMOKE DETECTOR (FIELD INSTALLED) 7. FACTORY HINGED ACCESS DOORS 8. MERV 8 PLEATED FILTERS 9. MULTI SPEED (MSAV) BLOWER MOTORS 10. STANDARD 14" ROOF CURB 11. COIL GUARDS (FIELD INSTALL) 12. FACTORY DISCONNECT 13. FACTORY GFCI (FIELD WIRED) 14. LENNOX COMMERCIAL CS7500 THERMOSTAT WITH REMOTE SENSOR (FIELD WIRED)				

MAKE-UP AIR UNIT SCHEDULE										
MARK	MFR/ MODEL	LOCATION	SERVICE AREA	GAS HEAT	TYPE	COOLING	CFM	ESP	MOTOR	REMARKS
MA-1	CAPTIVEAIRE A3-24D-MPU	ROOF-TOP	KITCHEN HOOD #1 & #2	NONE	DX COOLED SUPPLY, DOWN DISCHARGE	DUAL CIRCUIT 5/5 MODULAR PACKAGED COOLING OPTION	5,040	0.75"	5.0 HP 208V/3PH/60HZ	(2) 24AB8360 5 TON, DUAL CIRCUIT AIR COOLED CONDENSING UNITS. REFER TO SHEET M-402 FOR INFORMATION. 4-5 WEEK LEAD TIME. SHIPPING INCLUDED IN PRICE. SHIPS FROM TYLER, TX. SHIPS SEPARATE, FREIGHT INCLUDED. NOTE: FACTORY OPTIONS SHALL INCLUDE NONCORROSIVE COATING AND HAIL GUARD PROTECTION.


DIFFUSER & GRILLE SCHEDULE									
DESIGNATION	MANUFACTURER	MODEL NO	TYPE	COLOR	NOM NECK SIZE	NOM FACE SIZE	FRAME TYPE	NC MAX	REMARKS
A	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE		PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	INSULATION BLANKET FOR BACKPAN, CONTRACTOR FURNISHED ROUND NECK ADAPTER
B	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE		PER PLAN	20" x 20"	SURFACE	< 30	WITH 20X20 SURFACE FRAME, REQUIRES A 20.5"X20.5" CEILING OPENING, INSULATION BLANKET, D-100 RADIAL DAMPER
C	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE		PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, INSULATION BLANKET, D100 RADIAL DAMPER
D	TITUS	PAR-3	PERFORATED RETURN		22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT
E	TITUS	PAR-3	PERFORATED EXHAUST		PER PLAN	12" x 12"	SURFACE		WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, D100 RADIAL DAMPER
F	TITUS	PAR-3	PERFORATED RETURN		22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT
H	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE		PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	WITH INSULATION BLANKET, BALANCE USING MANUAL VOLUME DAMPER AT BRANCH DUCT
J	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE		PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	AG85 OBD, INSULATION BLANKET FOR BACKPAN, CONTRACTOR FURNISHED ROUND NECK ADAPTER
K	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE		PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING, INSULATION BLANKET, D100 RADIAL DAMPER
L	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE		PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME, REQUIRES A 12.5"X12.5" CEILING OPENING
NOTE: PROVIDE FACTORY INSTALLED BACK PAN INSULATION ON AIR DEVICES. HVAC CONTRACTOR IS TO PURCHASE ALL AIR DEVICES FROM PANDA APPROVED NATIONAL ACCOUNT VENDOR THERMAIR SYSTEMS INC. PLEASE CONTACT RON CAMPTON AT 602-705-5010 OR EMAIL: ronc@thermairsystems.com									

AIR BALANCE SCHEDULE				
ITEM		SUPPLY AIR	RETURN AIR	EXHAUST
MAU1		0	0	+5,040
EF-1		0	0	-3,400
EF-2		0	0	-2,900
RTU-1,2,3		+3,000, x3	+2,334, x3	+666, x3
EF-3		-	-	-450
TOTAL		+9,000	-7,002	+7,038
BUILDING PRESSURE = +288 CFM				
BALANCE TOLERANCES AS FOLLOWS: KITCHEN EXHAUST HOODS: 0% TO +10% OUTDOOR AIR: 0% TO +10% SUPPLY & RETURN DIFFUSERS: ±10% TOILET EXHAUST: ±10% BALANCE RTU SUPPLY AND RETURN PRIOR TO TURNING ON EXHAUST FANS. KITCHEN EXHAUST FANS SHALL BE BALANCED WITH VELOCITY MATRIX OR A 4" ANEMOMETER				

EXHAUST FAN SCHEDULE				
FAN NO.				
LOCATION	ROOF	ROOF	ROOF	
AREA SERVED	KITCHEN GREASE EXHAUST HOOD #1	KITCHEN GREASE EXHAUST HOOD #2	RESTROOMS	
FAN DUTY	AIR EXHAUST	AIR EXHAUST	AIR EXHAUST	
FAN TYPE	CENTRIFUGAL DIRECT DRIVE	CENTRIFUGAL DIRECT DRIVE	CENTRIFUGAL DIRECT DRIVE	
FAN ARRANGEMENT	UPBLAST	UPBLAST	DOWNBLAST	
MIN. WHEEL DIAMETER	-	-	-	
PERFORMANCE	C.F.M.	3,400	2,900	450
	T.S.P.	1.588"	1.178"	0.25"
	B.H.P.	2.0	1.26	0.081
	FAN R.P.M.	1,399	1,199	1,220
MOTOR	MOTOR H.P.	3.0	3.0	0.25
	ELEC. CHARACTERISTICS	208V/3PH/60HZ	208V/3PH/60HZ	115V/1PH/60HZ
	MOTOR R.P.M.	1725	1725	-
	MOTOR SPECIAL FEATURES	OPEN DRIP-PROOF	OPEN DRIP-PROOF	OPEN DRIP-PROOF
ACCESSORIES	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. ROOF CURB 2. BACKDRAFT DAMPER	
MANUFACTURER	CAPTIVEAIRE MODEL DU180HFA WT. 190 LBS	CAPTIVEAIRE MODEL DU180HFA WT. 190 LBS	CAPTIVEAIRE MODEL DR12HFA WT. 65 LBS	


NOTES:
1. KITCHEN EXHAUST FANS SHALL BE ELECTRICALLY INTERLOCKED WITH MAKE-UP AIR UNIT AND ROOFTOP UNITS.
2. FOR WIRING DIAGRAM SEE 5/M-501

HVAC CONTROL SETTINGS	
EACH HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS FOLLOWS:	
THERMOSTAT: LENNOX COMMERCIAL PROGRAMMABLE THERMOSTAT WITH REMOTE TEMPERATURE SENSOR. SEE SHEET M-100 FOR THERMOSTAT AND SENSOR LOCATIONS.	
ALL THERMOSTATS SHALL HAVE MANUAL OVERRIDE.	
EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:	
CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.	
FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.	
PROGRAMMED SETPOINTS (FOR EACH THERMOSTAT): COOLING OCCUPIED: 75°F. COOLING UNOCCUPIED: 85°F. HEATING OCCUPIED: 68°F. HEATING UNOCCUPIED: 50°F.	
NOTE: DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.	

AIR CURTAIN SCHEDULE		
EQUIP.	MFR/MODEL	DESCRIPTION
	MARS STD242-U-OB	UNHEATED AIR CURTAIN (SERVICE DOOR), 115/1/60 WEIGHT 65 LBS. PROVIDED BY PANDA EXPRESS
NOTES: INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.		

MA-1 CONTROL SETTINGS	
EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:	
FAN OPERATION SHALL BE CONTINUOUS DURING COOKING OPERATION INTERLOCK WITH KITCHEN EXHAUST FANS. REFER TO HOOD DRAWINGS.	
PROGRAMMED SETPOINTS : COOLING : 85°F. HEATING : 55°F.	

MECHANICAL SPECIFICATIONS	
1.	WORK INCLUDES INSTALLATION OF HVAC SYSTEMS, INCLUDING GREASE EXHAUST FANS AND MAKE-UP AIR UNIT FOR KITCHEN HOODS, SPACE HEATING/AIR CONDITIONING SYSTEMS, SUPPLY, RETURN, EXHAUST, AND GREASE EXHAUST DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, COMPLETE CONTROLS SYSTEM, INTERLOCK WIRING FOR OPERATION OF KITCHEN HOODS, EXHAUST FANS, AND MAKE-UP AIR UNIT, DUCT INSULATION, AND RELATED ITEMS NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM AS INDICATED ON THE PLANS. FURNISH ALL NEW MATERIALS AND EQUIPMENT UNLESS NOTED OTHERWISE (U.N.O.).
2.	DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. AS REQUIRED, REFER TO ARCHITECTURAL AND MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT SHOWN ON PLANS.
3.	CODE COMPLIANCE: ALL WORK COVERED BY THIS SECTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
4.	COORDINATE WORK WITH OTHER TRADES. EQUIPMENT FURNISHED BY OTHERS AND OWNER REQUIREMENTS. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR INSTALLATION AND/OR TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN AND THEIR WORK SHALL BE OF HIGH STANDARD ACCEPTABLE TO THE OWNER.
5.	DUCTWORK: DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS PROVIDED IN THE INT'L ENERGY AND MECHANICAL CODES. SHEET METAL SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SHEET METAL SHALL BE GALVANIZED OF LOCK-FORMING QUALITY, ASTM A-525, UNLESS OTHERWISE NOTED. DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR SHEET METAL DIMENSIONS ON UNLINED DUCTS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. ROUND RIGID DUCTWORK SHALL CONFORM TO SMACNA TABLE 3-2.
6.	INSTALL DUCT HIGH AS POSSIBLE WITHIN JOIST SPACE. CONSULT ARCHITECT AND ENGINEER FOR ALTERNATE ROUTING IF CONFLICT OCCURS.
7.	SEAL ALL TRANSVERSE AND LONGITUDINAL DUCT SEAMS AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30 DEGREES.
8.	GREASE EXHAUST SYSTEM: ALL GREASE EXHAUST DUCTS SHALL BE PREFABRICATED CAPTIVEAIRE DOUBLE WALL GREASE DUCT. PROVIDE RATED ACCESS DOORS AT ALL ELBOWS AND OFFSETS NECESSARY FOR COMPLETE CLEANING OF GREASE DUCT. PROVIDE MINIMUM 30"x30" UNOBSTRUCTED ACCESS OR ROUTE FROM THE CEILING TO EACH ACCESS DOOR. DO NOT BLOCK ACCESS WITH PLUMBING, ELECTRICAL OR HVAC OBSTRUCTIONS. REFER TO SHEETS M-400 TO M-410.
9.	DUCT INSULATION: PROVIDE DUCT WRAP FOR ALL DUCTS ABOVE CEILING, INCLUDING VERTICAL, HORIZONTAL, RIGID AND FLEXIBLE DUCTS, EXCLUDING PREFABRICATED PREINSULATED DUCTS AND GREASE DUCTS. DUCT WRAP SHALL BE JOHNS MANVILLE MICROLITE OR EQUAL WITH FOIL/SCRIMP/KRAFT, 1 IN THICKNESS, 1.5 POUNDS/FT3 DENSITY. DUCT WRAP SHALL BE BONDED GLASS FIBERS IN THERMOSETTING RESIN MEETING NFPA 90A. WITH K VALUE NOT TO EXCEED 0.23 AT 75 DEGREES F. FLAME SPREAD AND SMOKE DEVELOPED RATINGS SHALL NOT EXCEED 25/50. APPLY 100% ADHESIVE COVERAGE TO SHEET METAL DUCTWORK. PROVIDE ADDITIONAL MECHANICAL FASTENERS ON DUCTS OVER 12" WIDE OR 16" HIGH. MECHANICAL FASTENERS SHALL BE "GRIPNAIL" OR WELDED PIN AND SPEED CLIPS SPACED PER SMACNA STANDARDS.
10.	FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50 AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. FLEX DUCT MAXIMUM ALLOWED LENGTH TO BE PER LOCAL CODE.
11.	PROVIDE INSULATION APPLIED TO COMPLETE BACKPAN OF AIR DEVICES.
12.	ACCESS DOOR: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE SHOWN AND AS REQUIRED FOR ACCESS TO DAMPERS OR EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.
13.	AUTOMATIC TEMPERATURE CONTROL: CONTRACTOR TO PROVIDE AND INSTALL 24/7 PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS.
14.	KITCHEN HOOD EQUIPMENT INTERLOCK: PROVIDE ALL INTERLOCK AND CONTROL WIRING FOR KITCHEN HOOD SYSTEMS, WHICH INCLUDES EF1, EF2, MAU1 AND ANSUL SYSTEM SHUT DOWN INTERLOCK TO MAKE-UP AIR FAN. UPON ACTIVATION OF ANSUL SYSTEM, MAKE-UP AIR FAN SHALL BE DEACTIVATED. PROVIDE ALL NECESSARY CONTROLS AND WIRING FOR A COMPLETE AND OPERABLE SYSTEM. INTERLOCK GREASE EXHAUST FANS AND MAKE-UP AIR UNIT TO START SIMULTANEOUSLY FROM SWITCH PROVIDED AT HOOD.
15.	TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER AIR BALANCE AND OPERATION. PROVIDE A CERTIFIED AIR BALANCE REPORT TO OWNER SHOWING DESIGN AND MEASURED AIR VOLUMES, STATIC PRESSURES, FAN RPMs, ETC. AIR BALANCE CONTRACTOR SHALL ADJUST SYSTEMS TO MINIMIZE NOISE AND VIBRATION, AND TO ASSURE PROPER FUNCTION OF CONTROLS, MAINTENANCE OF TEMPERATURE AND OPERATION. GENERAL CONTRACTOR TO OBTAIN ALL INSPECTIONS REQUIRED BY LOCAL CODE AND GUARANTEE WORK AND INSTALLATION FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. GENERAL CONTRACTOR TO FURNISH OWNER WITH TWO COMPLETE SETS OF AS-BUILT DRAWINGS INDICATING ALL INSTALLED WORK, INCLUDING ALL CONTROL WIRING DIAGRAMS AND INTERLOCK FOR SYSTEM OPERATION.
16.	CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ECONOMIZERS INCLUDING INSTALLATION OF ALL NECESSARY SENSORS AND CONNECTIONS TO THERMOSTAT. PROVIDE SUPPORT OF ECONOMIZERS PER MANUFACTURER'S REQUIREMENTS AND TEST FOR PROPER OPERATION PRIOR TO FINAL TEST AND BALANCE.



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

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:


ISSUE DATE:

1	BID SET	2023-05-02

DRAWN BY:

PANDA PROJECT #: S4-24-D22020

ARCH PROJECT #: P7377



www.cphcorp.com
A Full Service A & E Firm

Plans Prepared By
CPL, LLC
500 West Fulton St.
Sanford, FL 32771
Ph: 407.322.6841
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Lndscp. Lic. No. LC0000298

PANDA EXPRESS

PANDA END CAP
3301 W HILLSBORO BLVD
DEERFIELD BEACH, FL 33442

M-000

MECHANICAL NOTES
SPECIFICATIONS & SCHEDULES

PANDA HOME 2600 R4/DAB