

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246



Report: BRU TAB REPORT
Function: Test, Adjust, & Balance
Date: 08/13/2024

PROJECT
Bru (Fort Wayne, IN)

118 West Columbia St

Fort Wayne, IN 46802

Client

CUNNINGHAM RESTAURANT GROUP (CRG)
530 Fulton Suite 100
INDIANAPOLIS, IN 46202

National TAB

Project: Bru (Fort Wayne, IN)

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ONE SYSTEM. ONE SOURCE.



FANS



DOAS



DUCTWORK



MAKEUP AIR



HEATERS



CONTROLS



KITCHEN VENTILATION



QUOTE

Wednesday, June 21, 2023

Quote# 5804864 - Bru Burger (Bloomington, IN)

To:

Scott Ellerhorst
C & T DESIGN
2750 TOBEY DRIVE
INDIANAPOLIS, IN 46219
Phone: (513) 649-0422
sellerhorst@c-t-design.com

From:

Joe Hertenstein
CaptiveAire Systems
1329 East Kemper Rd.
Ste. 4210
Cincinnati, OH 45246
Phone: (513) 860-5555
reg120@captiveaire.com

Ship To:

BLOOMINGTON, IN 47403

CaptiveAire Systems proposes to furnish the following equipment. Production of listed items will commence upon receipt of an approved proposal, a purchase order, an approved submittal and approved credit.

EQUIPMENT:

Hood #1 - HD 1 L - Job #5804864

5424ND-2-PSP-F - 5ft 9" Long Exhaust-Only Wall Canopy Hood with 14" Wide Front Perforated Supply Plenum with Built-in 3" Back Standoff	x1
- 430 SS Where Exposed	x1
- Fire Cabinet on the Left Side 12.00" Width x 54.00" Length x 24.00" Height (Additional charges may apply for cabinet if not sold with fire system)	x1
- FILTER - 16" tall x 16" (15.625" by 15.625") wide Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns. Used on hoods shipped AFTER 7/27/17.	x4
- L55 Series E26 Canopy Light Fixture - High Temp Assembly, Includes Clear Thermal and Shock Resistant Globe (L55 Fixture), Bulbs By Others	x2
- Extra Fixtures- L55 Series E26 Canopy Light Fixture - High Temp Assembly, Includes Clear Thermal and Shock Resistant Globe (L55 Fixture)	x1
- EXHAUST RISER - Factory installed 12" Diameter X 4" Height	x1
- SUPPLY RISER - 10"x 20" Supply Riser with Volume Dampers	x2
- 1/2 Pint Grease Cup New Style, Flanged Slotted	x1
- FIELD WRAPPER 17.00" High Front, Left	x1
- BACKSPLASH 80.00" High X 225.00" Long 430 SS Vertical (below hood) (Includes End Caps & Divider Bars)	x1
- BACKSPLASH 120.00" High X 44.00" Long 430 SS Vertical (right of hd) (Includes End Caps & Divider Bars)	x1

- BACKSPLASH 120.00" High X 14.00" Long 430 SS Vertical (left of hd) (Includes End Caps & Divider Bars) x1
- BACKSPLASH - OUTSIDE CORNER 120.00" High X 2.00" Leg Length 430 SS Vertical (Includes End Caps & Divider Bars) x1
- BACKSPLASH - OUTSIDE CORNER 120.00" High X 2.00" Leg Length 430 SS Vertical (Includes End Caps & Divider Bars) x1
- LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS x1
- Parts required to mount prewire sensor in capture volume of hood. Sensor installed directly in line with center of riser and in center of capture volume front to back. Sensor supplied from ECP tied to hood. x1

Hood #2 - HD 1 R - Job #5804864

- 5424ND-2-PSP-F - 11ft 0" Long Exhaust-Only Wall Canopy Hood with 14" Wide Front Perforated Supply Plenum with Built-in 3" Back Standoff x1

- 430 SS Where Exposed x1
- Utility Cabinet on the Right Side 12.00" Width x 54.00" Length x 24.00" Height x1
- FILTER - 16" tall x 16" (15.625" by 15.625") wide Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns. Used on hoods shipped AFTER 7/27/17. x8
- L55 Series E26 Canopy Light Fixture - High Temp Assembly, Includes Clear Thermal and Shock Resistant Globe (L55 Fixture), Bulbs By Others x4
- Extra Fixtures- L55 Series E26 Canopy Light Fixture - High Temp Assembly, Includes Clear Thermal and Shock Resistant Globe (L55 Fixture) x1
- EXHAUST RISER - Factory installed 16" Diameter X 4" Height x1
- SUPPLY RISER - 10"x 24" Supply Riser with Volume Dampers x3
- 1/2 Pint Grease Cup New Style, Flanged Slotted x2
- FIELD WRAPPER 17.00" High Front, Right x1
- Electrical Package Installation in Utility Cabinet by Plant. x1
- RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS x1
- Parts required to mount prewire sensor in capture volume of hood. Sensor installed directly in line with center of riser and in center of capture volume front to back. Sensor supplied from ECP tied to hood. x1

Hood #3 - HD 2 OVEN - Job #5804864

- 4824ND-2-PSP-F - 5ft 10" Long Exhaust-Only Wall Canopy Hood with 14" Wide Front Perforated Supply Plenum with Built-in 3" Back Standoff x1

- 430 SS Where Exposed x1
- FILTER - 16" tall x 16" (15.625" by 15.625") wide Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns. Used on hoods shipped AFTER 7/27/17. x4
- L55 Series E26 Canopy Light Fixture - High Temp Assembly, Includes Clear Thermal and Shock Resistant Globe (L55 Fixture), Bulbs By Others x2
- Extra Fixtures- L55 Series E26 Canopy Light Fixture - High Temp Assembly, Includes Clear Thermal and Shock Resistant Globe (L55 Fixture) x1

- EXHAUST RISER - Factory installed 12" Diameter X 4" Height	x1
- SUPPLY RISER - 10"x 20" Supply Riser with Volume Dampers	x2
- 1/2 Pint Grease Cup New Style, Flanged Slotted	x1
- FIELD WRAPPER 17.00" High Front, Left, Right	x1
- BACKSPLASH 80.00" High X 70.00" Long 430 SS Vertical (Includes End Caps & Divider Bars)	x1
- BACKSPLASH 120.00" High X 18.00" Long 430 SS Vertical (Includes End Caps & Divider Bars)	x1
- BACKSPLASH 120.00" High X 18.00" Long 430 SS Vertical (Includes End Caps & Divider Bars)	x1
- RIGHT SIDESPLASH 80.00" High X 48.00" Long 430 SS Vertical (Includes End Caps & Divider Bars)	x1
- BACKSPLASH - INSIDE CORNER 80.00" High X 2.00" Leg Length 430 SS Vertical (Includes End Caps & Divider Bars)	x1
- RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS	x1
- BALANCE DAMPERS	x1
- LEFT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 430 SS	x1
- Parts required to mount prewire sensor in capture volume of hood. Sensor installed directly in line with center of riser and in center of capture volume front to back. Sensor supplied from ECP tied to hood.	x1

Hood #4 - HD DISH - Job #5804864

4824VHB-G - 8ft 0" Long Condensate Hood, w/ Full Perimeter Gutter	x1
- 430 SS - 100% Application	x1
- EXHAUST RISER - Factory installed 12" Diameter X 4" Height	x2
- FIELD WRAPPER 17.00" High Front, Left, Right	x1
Hood(s) Total Price:	\$15,603.6
	1

Fire System #1 - TANK FS - Job #5804864

TANK-SP-2 Tank Fire Suppression 8 gallon Fire System in Utility Cabinet (includes pre-piped hood(s) with electric detection, tank(s), 24 VDC release mechanism, fire system agent, pressurized tanks, and electric pull station). (Formerly CAS-EWC). Includes piping for hoods: 1, 2, 3.	x1
- Remote Tank Fire Suppression 8 gallon Fire System in Utility Cabinet (includes pre-piped hood(s) with electric detection, tank(s), 24 VDC release mechanism, fire system agent, pressurized tanks, and electric pull station). (Formerly CAS EWC)	x1
- Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet separate from prewire. Includes 12" box housing circuit board, batteries, and terminals for connection to main control panel.	x1
- Pressure Switch - Monitors Tank Pressure, Supervised Signal, TANK FIRE SUPPRESSION	x2
- SC-EGVA2 GAS VALVE - 2" Electrical Shutoff Valve for use with HMI reset, 110V, 60Hz (#8214280). Includes upstream strainer assembly.	x1
Fire System(s) Total Price:	\$6,896.5
	3

Fan #1 DU240HFA - Exhaust Fan (KEF1) - Job #5804864

DU240HFA High Speed Direct Drive Centrifugal Upblast Exhaust Fan with disconnect switch and 24" wheel. x1

Exhaust Fan handles 4319 CFM @ -2.500" wc ESP, Fan runs at 1119 RPM.
Exhaust Motor: 5.000 HP, 3 Phs, 208 V, 60 Hz, 15.8 FLA, ODP, Premium (E-Plus3) Eff.

- Grease Cup for kitchen-duty centrifugal exhaust fans, x1
Box Dimensions 17-1/8 L X 5-1/16 W X 3-3/4 H (20 Gauge) (Includes Down Spout)

- Insulated Heat Baffle for Exhaust Fans. Type 475FRK 1 inch thick insulation installed on the x1
top side of the top plate and under the motor of upblast and downblast fans. Cut to fit shaft wrapper and around vibration isolators and motor cooling hole. Caulked down to top plate.

- Gasketing - Thermeez Woven Ceramic Tape - 1/4" x 1" with adhesive back - Max Temp x1
1500°F. To be applied between fan base and grease duct. Installed under fan base 1/2" from the inside edge of the base to match up with the curb top flanges.

- KEF1 Curb CRB31.5x28E On Fan #1 Flat Curb *** 16 Gauge Construction. x1

- HINGE KIT - Heavy Duty Hinge kit with locking spring pin for exhaust fan roof curbs. Includes x1
Hardware to attach hinge to curb and hinge to base. 10 GA Galvanized.

Note: Requires 16GA curb or 18GA curb with 16GA back plate - (9"x9" cut size).

- Vented Base for Curb x1

- Curb Mounted Electrical Knock-Out with Fittings. For exhaust fans only. Knockout 7/8 x1
installed 4" from top on center on side with the vents. Install 1/2" Liquid-tite straight connector on outside of curb. Weather tight washer included w/connector. Install 1/2" Rigid to Flex coupling to threaded end of connector on inside of curb.

- Full Bottom Curb Corner. Base flange corners fully welded or staked by factory. x1

Fan Total Price: **\$2,706.5**
2

Fan #2 SIF11DD - Exhaust Fan (KEF2 DISH) - Job #5804864

SIF11DD Direct Drive Square Inline Fan with 11.75" Centrifugal Wheel. x1

Exhaust Fan handles 810 CFM @ -0.850" wc ESP, Fan runs at 1636 RPM.
Exhaust Motor: 0.750 HP, 1 Phs, 115 V, 60 Hz, 8.9 FLA, TEAO-ECM (Totally Enclosed Air Over Electronically Commutated Motor)

- Single Wall Duct Adapter - Square To Round - 16" X 16" To 12" - 14" Tall - Stainless Steel. x1
Standard Part. SIF 11 Discharge Adapter

- SIF11 Standard 12" Duct Inlet Connection. x1

- SIF - Horizontal Overhead Pre-Installed Mounts (Used on sizes 11-36). x1

- ECM Wiring Package and Manual or 0-10VDC Control for Exhaust EC motors. RTC Controller x1
(No harness when ordered as a part).

- Hanging Vibration Isolators for Square Inline Fans. Contains four HSA125 Hanging Isolators. x1

Fan Total Price: **\$1,561.3**
3

Fan #3 A2-D.250-20D-MPU - Heater (KMUA) - Job #5804864

A2-D.250-20D-MPU Direct Gas Fired Heated Make Up Air Unit with 20" Mixed Flow Direct Drive Fan Supply Fan handles 3671 CFM @ 0.300" wc ESP, Fan runs at 1440 RPM. Heater supplies 248575 BTUs. 65°F Temperature Rise. [Fuel: Natural Gas] Supply Motor: 3.000 HP, 3 Phs, 208 V, 60 Hz, 9.5 FLA, ODP, Premium (E-Plus3) Eff. Side Discharge - Air Flow Right -> Left	x1
- V-Bank with EZ filters for Size # 2 Modular Heater. EZ Metal Mesh Filters. For indoor installation.	x1
- 0-150°F Discharge Temp Control • Field Wired On/Off Start Command • Heating Activation Based On Intake Set Point. Use with MUA. Includes 1 Space HMIs.	x1
- Gas Manifold for DF2 GM - BTU 0 - 825001 - 7 in. w.c. - 14 in. w.c., No Insurance Requirement (ANSI), BV250-88	x1
- Gas Pressure Gauge, 0-35", 2.5" Diameter, 1/4" Thread Size	x1
- Gas Pressure Gauge, -5 to +15 Inches Wc., 2.5" Diameter, 1/4" Thread Size	x1
- Motorized Back Draft Damper 22.75" X 24" for Size 2 Standard & Modular Heater Units w/Extended Shaft, Standard Galvanized Construction, 3/4" Rear Flange, Low Leakage, LF120S Actuator Included	x1
- "Insulation" for V-bank Intake Option.	x1
- Low Fire Start. Allows the burner circuit to energize when the modulation control is in a low fire position.	x1
- Indoor Hanging Cradle For The Size 2 Direct Fired Unit. 2 HSA125 Hanging Isolators per Uni-Strut Included.	x1
- Separate 120VAC Wiring Package for Make-Up Air Units. Option must be selected when mounting VFD in prewire panel or with DCV package. Provides separate 120VAC input to supply fan. This 120V signal must be run by electrician from DCV to mua switch.	x1
- Profile Plate Configuration for size 2 Direct Fired Unit for low cfm applications.	x1
- 10 Ton, Dual Circuit (5/5) Modular Packaged Cooling Option for Size 2 DF/EH Modular Packaged Unit. Includes Condenser, DX Coil, Filter/Dryer Kit, Thermal Expansion Valve, R410A Refrigerant, and Refrigerant Piping. (3,600 to 5,000 cfm) When ordered with opposite airflow condensers access and coil piping will remain in standard position. Drain and sleds will move to the opposite side. Any other change will require CLI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. Coil = 3EZ0802B	x1
- Ship Condensers Loose. The Refrigeration Lines Will Need To Be Stubbed Out 12 Inches. The Suction Lines Needs To Be Insulated Inside The Coil Module. Rotary Disconnect Should Not Be Installed On The Post, Blank Post Should Be Used In Place. All piping and wiring between indoor and outdoor units by others.	x1
- Butterfly Mod Valve Option for Mod Size 2 (1" Mod Valve).	x1
- Single Electrical Cabinet LED Lights Used on Modular MUA Units	x1

Fan Total Price: **\$17,468.53**

Electrical System #1 - ECP 1 - Job #5804864

DCV-1111 Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation. Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet. Includes 3 Duct Thermostat kits.	x1
- ESV222N02YXB571 - Variable Frequency Drive - 3 HP Max., 200/240 V, Single or Three Phase Input, 9.6 A Max., NEMA 1 Enclosure, with 2RJ-45 FOR MODBUS	x1

- ESV402N02TXB571 - Variable Frequency Drive - 5 HP Max., 200/240 V, Three Phase, 16.5 A Max., NEMA 1 Enclosure, with 2RJ-45 FOR MODBUS x1
- KDRB22L - 240V 19A Line/Load reactor. Used with VFD. x1
Use VFD spreadsheet to determine which VFD HP can be associated with reactor.
Replacing:
PN: RM0018P80 - Fan: 1
- Digital Prewire Lighting Relay Kit. Includes hood lighting relay & terminal blocks. Allows for up to 1400W of lighting each. x1
- Thermistor CABLE - 18/2 AWG GREEN WHITE, plenum rated. USED for thermistor duct stat. Per Foot Price. x30

Electrical System #1 Total Price: **\$3,162.2**
2

Duct Run #1 - 430 Stainless - DR 1

- (P1) DW1620ADPEC17 Single Wall Duct Eccentric Adapter, 16" Duct Dia to 20" Duct Dia, Assembly - 430 Stainless Steel. x1
- (P2) DW2011LT Single Wall Duct 20" diameter, 11" long, flange at both ends. Stainless Steel. x1
- (P3) DW2018AJDKIT Single Wall Duct Adjustable, 20" diameter, 17.5" long, flange at one end With a 20" Adjustable Collar - Stainless Steel. x1
- (P4) DW20TEASY Single Wall Duct Tee, 20" Duct, Assembly. x1
- (P5) DW200775LT Single Wall Duct 20" diameter, 7.75" long, flange at both ends. Stainless Steel. x1
- (P6) DW2015AJDKIT Single Wall Duct Adjustable, 20" diameter, 14.50" long, flange at one end With a 20" Adjustable Collar - Stainless Steel. x1
- (P7) DW20TEASY Single Wall Duct Tee, 20" Duct, Assembly. x1
- (P8) DW1820ADPEC13 Single Wall Duct Eccentric Adapter, 18" Duct Dia to 20" Duct Dia, Assembly - 430 Stainless Steel. x1
- (P9) DW1218ADPEC21 Single Wall Duct Eccentric Adapter, 12" Duct Dia to 18" Duct Dia, Assembly - 430 Stainless Steel. x1
- (P10) DW1290ASY Single Wall Duct 90 Degree Elbow, 12" Duct, Assembly. x1
- (P11) DW1223LT Single Wall Duct 12" diameter, 23" long, flange at both ends. Stainless Steel. x1
- (P12) DW1230AJDKIT Single Wall Duct Adjustable, 12" diameter, 29.5" long, flange at one end With a 12" Adjustable Collar - Stainless Steel. x1
- (P13) DW20TEASY Single Wall Duct Tee, 20" Duct, Assembly. x1
- (P14) DW20TEASY Single Wall Duct Tee, 20" Duct, Assembly. x1
- (P15) DW1820ADPEC13 Single Wall Duct Eccentric Adapter, 18" Duct Dia to 20" Duct Dia, Assembly - 430 Stainless Steel. x1
- (P16) DW1218ADPEC21 Single Wall Duct Eccentric Adapter, 12" Duct Dia to 18" Duct Dia, Assembly - 430 Stainless Steel. x1
- (P17) DW1235LT Single Wall Duct 12" diameter, 35" long, flange at both ends. Stainless Steel. x1
- (P18) DW12TEASY Single Wall Duct Tee, 12" Duct, Assembly. x1
- (P19) DW1223LT Single Wall Duct 12" diameter, 23" long, flange at both ends. Stainless Steel. x1
- (P20) DW1207LT Single Wall Duct 12" diameter, 7" long, flange at both ends. Stainless Steel. x1

(P21) DW1217LT Single Wall Duct 12" diameter, 17" long, flange at both ends. Stainless Steel.	x1
(P22) DW1290ASY Single Wall Duct 90 Degree Elbow, 12" Duct, Assembly.	x1
(P23) DW1204LT Single Wall Duct 12" diameter, 4" long, flange at both ends. Stainless Steel.	x1
(P24) DW1235LT Single Wall Duct 12" diameter, 35" long, flange at both ends. Stainless Steel.	x1
(P25) DW1213ADIASY Duct Access Door - Insulated - Used With 12" Duct - Grease Dam Included - Assembly.	x1
(P26) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P27) DW2035LT Single Wall Duct 20" diameter, 35" long, flange at both ends. Stainless Steel.	x1
(P28) DW20SUBRASY Duct Support Bracket Kit, 20" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P29) DW2035LT Single Wall Duct 20" diameter, 35" long, flange at both ends. Stainless Steel.	x1
(P30) DW2017LT Single Wall Duct 20" diameter, 17" long, flange at both ends. Stainless Steel.	x1
(P31) DW20SUBRASY Duct Support Bracket Kit, 20" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P32) DW20TEASY Single Wall Duct Tee, 20" Duct, Assembly.	x1
(P33) DW2045ASY Single Wall Duct 45 Degree Elbow, 20" Duct, Assembly.	x1
(P34) DW2047LT Single Wall Duct 20" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P35) DW20SUBRASY Duct Support Bracket Kit, 20" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P36) DW2047LT Single Wall Duct 20" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P37) DW2045ASY Single Wall Duct 45 Degree Elbow, 20" Duct, Assembly.	x1
(P38) DW2023LT Single Wall Duct 20" diameter, 23" long, flange at both ends. Stainless Steel.	x1
(P39) DW20TEASY Single Wall Duct Tee, 20" Duct, Assembly.	x1
(P40) DW2047LT Single Wall Duct 20" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P41) DW20SUBRASY Duct Support Bracket Kit, 20" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P42) DW20FRISER Single Wall Duct Riser With Retaining Rings, 20" Duct, Used on Field Installations. Includes 1/4-20 Hardware (8) Nuts (8) Bolts - (1) Single Bottom Ring (2) Top Rings 2 Pieces Per Assembly.	x1
(P43) DW2021ADIASY Duct Access Door - Insulated - Used With 20" Duct - Grease Dam Included - Assembly.	x1
(P44) DW2021ADIASY Duct Access Door - Insulated - Used With 20" Duct - Grease Dam Included - Assembly.	x1
(P45) DW2021ADIASY Duct Access Door - Insulated - Used With 20" Duct - Grease Dam Included - Assembly.	x1
(P46) DW2021ADIASY Duct Access Door - Insulated - Used With 20" Duct - Grease Dam Included - Assembly.	x1
(P47) DW20SUBRASY Duct Support Bracket Kit, 20" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
3M-2000PLUS Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealant to Seal Duct Joints.	x13
DW12CLASY Duct "V" Clamp With new design 14 Ga Brackets, 12" Duct, Assembly.	x14

DW16CLASY Duct "V" Clamp With new design 14 Ga Brackets, 16" Duct, Assembly.	x1
DW18CLASY Duct "V" Clamp With new design 14 Ga Brackets, 18" Duct, Assembly.	x2
DW20CLASY Duct "V" Clamp With new design 14 Ga Brackets, 20" Duct, Assembly.	x27

Duct Run #1 - 430 Stainless Total Price: **\$9,507.79**

Duct Run #2 - 430 Stainless - DR DISH

(P1) DW1229LT Single Wall Duct 12" diameter, 29" long, flange at both ends. Stainless Steel.	x1
(P2) DW1230AJDKIT Single Wall Duct Adjustable, 12" diameter, 29.5" long, flange at one end With a 12" Adjustable Collar - Stainless Steel.	x1
(P3) DW1290ASY Single Wall Duct 90 Degree Elbow, 12" Duct, Assembly.	x1
(P4) DW12TEASY Single Wall Duct Tee, 12" Duct, Assembly.	x1
(P5) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P6) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P7) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P8) DW1229LT Single Wall Duct 12" diameter, 29" long, flange at both ends. Stainless Steel.	x1
(P9) DW1224AJDKIT Single Wall Duct Adjustable, 12" diameter, 23.5" long, flange at one end With a 12" Adjustable Collar - Stainless Steel.	x1
(P10) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P11) DW1217LT Single Wall Duct 12" diameter, 17" long, flange at both ends. Stainless Steel.	x1
(P12) DW1290ASY Single Wall Duct 90 Degree Elbow, 12" Duct, Assembly.	x1
(P13) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P14) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P15) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P16) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P17) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P18) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P19) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P20) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P21) DW1229LT Single Wall Duct 12" diameter, 29" long, flange at both ends. Stainless Steel.	x1
(P22) DW1224AJDKIT Single Wall Duct Adjustable, 12" diameter, 23.5" long, flange at one end With a 12" Adjustable Collar - Stainless Steel.	x1
(P23) DW1290ASY Single Wall Duct 90 Degree Elbow, 12" Duct, Assembly.	x1
(P24) DW1229LT Single Wall Duct 12" diameter, 29" long, flange at both ends. Stainless Steel.	x1
(P25) DW1230AJDKIT Single Wall Duct Adjustable, 12" diameter, 29.5" long, flange at one end With a 12" Adjustable Collar - Stainless Steel.	x1

(P26) DW1245ASY Single Wall Duct 45 Degree Elbow, 12" Duct, Assembly.	x1
(P27) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P28) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P29) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P30) DW1235LT Single Wall Duct 12" diameter, 35" long, flange at both ends. Stainless Steel.	x1
(P31) DW1245ASY Single Wall Duct 45 Degree Elbow, 12" Duct, Assembly.	x1
(P32) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P33) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P34) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P35) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P36) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P37) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P38) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P39) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P40) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P41) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P42) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P43) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P44) DW1247LT Single Wall Duct 12" diameter, 47" long, flange at both ends. Stainless Steel.	x1
(P45) DW12SUBRASY Duct Support Bracket Kit, 12" Duct, Used for Hanging Duct. 12 GA Steel, Clear Zinc Coating. - 2 Rings, 4 Brackets, & Hardware Bag 2.	x1
(P46) DW1248AJDKIT Single Wall Duct Adjustable, 12" diameter, 47.5" long, flange at one end With a 12" Adjustable Collar - Stainless Steel.	x1
(P47) DW1235LT Single Wall Duct 12" diameter, 35" long, flange at both ends. Stainless Steel.	x1
3M-2000PLUS Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealant to Seal Duct Joints.	x8
DW12CLASY Duct "V" Clamp With new design 14 Ga Brackets, 12" Duct, Assembly.	x39

Duct Run #2 - 430 Stainless Total Price: **\$4,817.20**

Subtotal: \$61,723.73

Factory Services

Service Design Verification for Demand Control Ventilation	x1
Service Design Verification for Direct Fired Heater	x1
Service Design Verification for Exhaust Fan	x2

Service Design Verification for Hood	x4
Service Design Verification for Modular Package Unit	x1
Service Design Verification for TANK Fire Suppression	x1
Service Design Verification Mileage Charge: (48.0) x 2 = 96.0 total miles	x1

Factory Services Total Price: **\$924.52**

Fire System Hookup: \$3,600.00
 Shipping: \$2,928.59
 Tax: Not Included

Total: USD
\$69,176.84

Optional Items

Fan #1 DU240HFA - Exhaust Fan (KEF1) - Job #5804864 Optional Items - (NOT INCLUDED IN Fan #1 DU240HFA - Exhaust Fan (KEF1) - Job #5804864 PRICE, PLEASE ADD IF DESIRED)

- Windband Extension Assembly for Centrifigal Upblast Fan with 24.75" Wheel. 43.438" OD, 24.00" Height. Constructed of Galvanized Steel Ater 1/1/2016. Includes 4 Quick release latches & 10 Self Drilling Screws. (KEF1)	\$448.23	x1	\$448.23
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Fan Options Total Price (OPTIONAL - NOT INCLUDED IN QUOTE TOTAL): **\$448.23**

Duct Run #1 - 430 Stainless - DR 1 Optional Items - (NOT INCLUDED IN Duct Run #1 - 430 Stainless - DR 1 PRICE, PLEASE ADD IF DESIRED)

735602000 Duct - Duct insulation for zero clearance to combustibles - 300" x 24" x 1-1/2" Roll. Unifrax FyreWrap Elite 1.5.	\$270.86	x25	\$6,771.50
BANDING.5 Duct - Fire Barrier Wrap Stainless Steel Banding .5" Width - 200 FT Per Roll.	\$121.86	x7	\$853.02
SEAL.50-50 Duct - Fire Barrier Wrap Stainless Steel Banding Seal .5" Width. Quantity of 50.	\$7.80	x8	\$62.40
TAPEALUM Duct - Fire Barrier Wrap Aluminum Foil Tape - 3" x 150' Roll.	\$27.44	x6	\$164.64

Ductwork Options Total Price (OPTIONAL - NOT INCLUDED IN QUOTE TOTAL): **\$7,851.56**

Buyouts (OPTIONAL - NOT INCLUDED IN QUOTE TOTAL, PLEASE ADD IF DESIRED)

- HOOD(S) INSTALLATION SYSTEMS: x1

Labor & Material to receive uncrate & hang qty (4) hood(s) with supply plenum. Install the Captive- Aire Supplied Listed SS grease ductwork from Type I hood(s) to outside space to center of Garage & connect to existing Landlord shaft located on 1st floor. Also set Exhaust fan on roof as required. Fabricate & install galvanized supply air duct from hood(s) to inline make-up air unit located in back of space in garage and then to louver. Install the Captive Aire Stainless Steel dish duct from dish hood to inline fan & then to louver out back of garage. Includes hood hanging materials, and trim wrappers between hood(s) and ceiling (Backsplash and trim provided by others)

ALSO INCLUDES:

- Stamped drawings & hood Permit fees as required for the hood systems.
- Qty (2) Layers of Fire-rated Listed Firewrap for all exhaust grease hood ductwork from all the hoods to the bottom of shaft (Entire 1st floor)
- Crane rental to get fans & Condensers up on roof.
- PVC & Drains required for MUA & DISH Fan to get the condensate below drop ceiling & down into garage to drain.
- Coordination with other trades or facility. Including site meeting with all trades Once equipment is on site
- Final performance test & ensuring product meets client’s expectations.

EXCLUDES:

- Roof flashing, repair or patching
- Building Fire alarm tie in (IF owner has fire alarm, owner must install & permit)
- ALL Field electric or plumbing or permits for these disciplines
- Structural modifications to building roof or walls including walls behind hood if required-All holes in walls or Floors by GC
- All Louvers by GC
- DOES NOT INCLUDE running the refrigeration line set from condenser located up on upper floor down to MUA in Garage. This needs to be done by others.
- Structural Engineering/Certification or building permits that may be required by Code or because of Site Conditions

Buyouts Total Price (OPTIONAL - NOT INCLUDED IN QUOTE TOTAL): **\$56,350.00**

SERVICE DESIGN VERIFICATION DISCLAIMER

Field Service Technician is responsible for one trip to site to ensure the above equipment is operating within design specifications. All equipment must be operational. Fire suppression system should be hooked-up and armed. Additional trips will result in charges to be covered by others.

INSTALLATION BY OTHERS

By Others:

Installation, ductwork, patching, all electrical field wiring, start-up & balance, gas or electric shutdown for fire system hook-up. Condenser, filter / dryer kit, refrigerant, condenser disconnect and expansion valve, for use with DX coil module, will all be provided, installed, started and warranted by others.

Note:

Customer is responsible for additional labor charges as a result of cooking equipment layout changes after the release of the order, union labor or prevailing wage charges, or additional trips by fire system distributor caused by jobsite delays, permits, fees or test required by local authority. Submittal will specify applicable testing and approval agencies.

CaptiveAire Systems requirement for all field hook ups:

All fire system detection conduit must be half inch EMT. All conduit fittings must be compression type and fully tightened. All conduit ends must be reamed and deburred and blown clear of debris prior to assembly. All conduit must be fully and robustly supported to avoid accidental fire system discharge.

CaptiveAire Systems product must be installed in accordance with installation instructions provided with equipment or available on our web site at www.captiveaire.com.

Ductwork must be designed and installed in accordance with AMCA and ASHRAE standards as presented in CaptiveAire Systems "Guide to Designing Air Flow Systems", available [here](#).

Hood and Ductwork hanging brackets and angles must be supported with 1/2" - 13 TPI grade 5 (minimum) all-thread. Sandwich hanging angles and ceiling anchor points with 1/2" grade 5 (minimum) steel flat washers and 1/2" - 13 TPI grade 5 (minimum) hex nuts. A doubled hex nut configuration must be used beneath hood and duct hanging brackets and above ceiling anchors (single hex nut beneath hanging angle is only acceptable for full length and supply plenum hanging angle types). Maintain 1/4" of exposed threads beneath bottom hex nut. Torque all hex nuts to 57 ft-lbs. Reference the installation manual for additional details and limitations of all structural supports.

WARRANTY

Standard Product Warranty

This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.

Ductwork Warranty

This ductwork, chimney, and/or special gas vent system is warranted to be free from defects in material and workmanship, under normal use and service, for a period of 20-years from the date of shipment.

Warranty Instructions

This **Standard Product Warranty, Ductwork Warranty** shall not apply if:

1. The equipment is not installed by a qualified installer per the MANUFACTURER'S installation instructions shipped with the product.
2. The equipment is not installed in accordance with federal, state and local codes and regulations.
3. The equipment is misused or neglected, or not maintained per the MANUFACTURER'S maintenance instructions.
4. The equipment is not operated within its published capacity.
5. The equipment design or sizing is not approved per MANUFACTURER'S specifications.
6. The equipment is exposed to elevated temperatures due to a fire originating in the building, hood, fan, duct, chimney, vent or kitchen appliances.
7. The equipment is operated, tested, or stored in the presence of chlorines, solvents, refrigerant vapors, caustic substances, halogenated compounds, or other conditions that could cause condensation of corrosive materials within or on the system.
8. The equipment is substituted or connected with parts not manufactured per Original Equipment Manufacturer.
9. The invoice is not paid within the terms of the sales agreement.

The MANUFACTURER shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the **Standard Product Warranty, Ductwork Warranty**, upon examination by the MANUFACTURER, such part will be repaired or replaced by MANUFACTURER at no charge. The BUYER shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without MANUFACTURER'S prior authorization and all returned equipment shall be shipped by the BUYER, freight prepaid to a destination determined by the MANUFACTURER.

NOTE: To receive warranty coverage, register this product by filling out the Start-up and Maintenance Document. Fax the form to 1-919-554-9374 or call 1-866-784-6900 for email information.

SHIPPING

Lift gates are not available from LTL shipping carriers for products over 96" in length.

Freight includes one shipment only, delivered to the job site address listed on this proposal. Customer is responsible for freight charges on any items shipped early. This is an estimated freight charge and is subject to change based on current freight costs when the job is released for production.

APPROVAL

The above prices, associated submittal drawings, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to perform the work specified. Receipt of the CaptiveAire Systems Terms & Conditions are hereby acknowledged (Form TC101), and by signature hereto, we agree to said Terms & Conditions. Payment will be made in accordance with authorized agreement. Please note, proposal may be withdrawn by CaptiveAire Systems if not accepted within 30 days for immediate shipment.

Authorized Signature

Signature

We accept MasterCard®, VISA®, American Express®, and Discover® cards for immediate credit approval and expedited order processing.



TERMS AND CONDITIONS

Acceptance: This proposal is submitted for acceptance within 30 days from the date of proposal. Prices are firm after acceptance -see paragraph "prices." Typographical and clerical errors in quotations, orders and acknowledgments are subject to correction.

Terms of Payment: Net thirty (30) days from date of our invoice, unless specified to the contrary and subject to the approval of the Company. A Service Charge of 1.5 % per month may be invoked and applied after the 30 day period until payment is received. Invoicing will be rendered when shipment has been made, unless otherwise indicated in quotation. The stated price is subject to any state, federal or local government regulatory ordinances or statutes governing interest rates and shall be construed and interpreted to allow the highest rate applicable and not more. In the event of a conflict between this rate and other law, the law shall prevail. In the event CaptiveAire Systems employs an attorney to enforce its rights and remedies under this agreement and/or to collect funds owing pursuant to this agreement, buyer agrees to pay a reasonable attorney's fee for CaptiveAire Systems attorney, plus all other reasonable expenses incurred by CaptiveAire Systems in enforcing its rights under this agreement.

Taxes: Unless specifically stated, we include no taxes of any kind in the sale price. Any taxes, if applicable and imposed by any present or future local, state or federal agency for any reason must be paid by the Buyer.

Shipments: All shipments are f.o.b. Factory or, if shipped from another location, f.o.b., point of shipment with charges either allowed, added to invoice, or collect as noted.

Claims: The responsibility of the company ceases upon delivery of material in good order to the carrier. As all goods are shipped at buyer's risk, any claims for damage or shortage or loss in transit must be filed by the buyer against the transportation company, (We will assist the Buyer in any reasonable way possible in the filing and collection for any claim for damages and/or losses while in transit.) Claims against factory shortages will not be considered unless made within 60 days after receipt of the goods.

Acceptance or Approval: Should the equipment on this proposal be purchased subject to acceptance or approval of another (such as Architect, Engineer, Owner, etc.), CaptiveAire Systems shall not be liable in any way should acceptance or approval not be granted. We cannot guarantee to meet or equal specifications written on behalf of another equipment manufacturer.

Warranties: CaptiveAire Systems extends to buyer the manufacturers warranty (a copy of which is available upon request). Manufacturer's warranty is in lieu of any warranties contained in any applicable project conditions, plans, or specifications unless specifically stated otherwise. CaptiveAire Systems makes no other warranties, express or implied, as to any matter whatsoever, including without limitation, the conditions of the equipment, its merchantability or fitness for a particular purpose. CaptiveAire Systems shall not be liable for any damages by reason of failure of the equipment to operate or a faulty operation of this equipment. CaptiveAire Systems shall not be held responsible for any direct, incidental or consequential damages or liquidated damages or losses (including but not limited to loss of use, income, profit or production, or spoilage or increased cost of operation) resulting from the installation, operation or use of the equipment.

Limitation of Remedy: CaptiveAire Systems shall have no liability for any damage caused by negligence, accident, misuse, improper storage, improper installation, improper service, maintenance or operation. CaptiveAire Systems liability (whether under theories of warranty, negligence, strict liability or contract) is limited solely to repair or replacement of the equipment or its parts by CaptiveAire Systems or its duly authorized representative, or at CaptiveAire Systems option and in its sole discretion, refund of the purchase price, and the foregoing shall be the sole and exclusive remedy against CaptiveAire Systems. In no event shall CaptiveAire Systems liability with respect to the goods or their non-delivery exceed the purchase price paid by Buyer to CaptiveAire Systems. Buyer shall have no right to consequential or incidental damages or to any remedy not hereinbefore described. Any claim by Buyer against CaptiveAire Systems with respect to the goods is deemed waived by Buyer unless submitted to CaptiveAire Systems in writing within ten (10) days of the date Buyer discovered or by reasonable inspection should have discovered, the basis for such claim.

Claims Resolution: All claims and disputes between Buyer and CaptiveAire Systems arising out of or relating to performance of any agreement or breach thereof involving this project shall be decided by binding arbitration in accordance with the construction Industry Arbitration rules of the American Arbitration Association (AAA) then existing. Notice of Demand for Arbitration shall be filed in writing by either party to this agreement with the other and with the regional office of the AAA in Charlotte, North Carolina. The procedural and substantive law of the State of North Carolina shall apply in and to all such arbitration proceedings and Raleigh, North Carolina shall be designated as the locale for any such proceedings. Both parties will have the right to conduct discovery in accordance with the Federal Rules of Civil Procedure and within reasonable time limitations to be imposed by the AAA or the arbitrators. Any award arising from such proceedings shall be final and binding upon the parties and enforceable in accordance with the Federal Arbitration Act.

Delays: Seller shall not be liable for failures or delays in making delivery hereunder when such failure or delay results from an act of God or the public enemy accident, explosion, fire, storm, earthquake, flood, drought, perils of the sea, strikes, lock-outs, labor troubles, riots, sabotage, embargo, wars (whether or not declared and whether or not the United States is involved), federal, state or municipal law, ordinance, rule, regulation, order license, priority, seizure requisition or allocation or other restrictions, failure or delay of transportation, shortage of or inability to obtain supplies, equipment, fuel or labor or any other circumstances of a similar or different nature beyond the reasonable control of the Seller.

Credit: If Buyer's credit, at the sole judgment of the Seller, is impaired at any time, Seller shall have the right to defer shipment or cancel the order.

Penalties: No penalty clause of any kind will be effective unless approved in writing by an officer of CaptiveAire Systems.

Cancellations: Should the order be cancelled through no fault of CaptiveAire Systems, the Buyer is liable for reimbursement for any and all expenses incurred in connection with this transaction; and in accordance with law for any other losses incurred by Seller.

Return of Goods: Please take special care to order carefully and completely. All products purchased are custom orders. Custom orders were manufactured in accordance with customer specifications, and therefore, are only returnable per the terms of our RMA policy (<http://www.captiveaire.com/sitedocs/returnpolicy.asp>). Verify all information before placing the order. Please review policy with your sales consultant prior to purchasing if you have any questions.

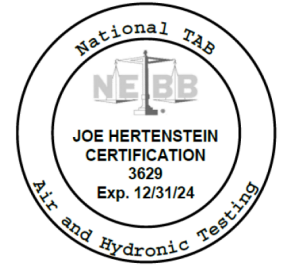
Prices: Unless otherwise notified, prices on orders will be held firm provided the order is released for production at time of placement (the date of placement being the date of the Buyer's order). Orders released after 30 days from date of customer's purchase order may be subject to escalation.

Title: The title to all material(s) and/or equipment and to any and all additions and accessories thereto and substitutions therefore, shall remain with Seller until the purchase price thereof is paid in full.

FORM TC-101 (2/03)

National TAB

Project: Bru (Fort Wayne, IN)
System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	DU180HFA
Serial Num	-	3642870
Type	-	UPBLAST
Configuration	-	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	-	1.5
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	6.6

Test Data		
	Design	Actual
CFM	-	2639
Fan Rotation	-	CCW
RL Voltage	-	
RL Amperage	-	5.4
Suction ESP	-	NA
Discharge ESP	-	ATM
Total ESP	-	NA

Unit Data - PHOTO LOG



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Completed By: Cody Collett on 08/13/2024

Notes:
57.7HZ SETPOINT.

Written By: Cody Collett on 08/13/2024

National TAB

Project: Bru (Fort Wayne, IN)
System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	DU180HFA
Serial Num	-	3642870
Type	-	UPBLAST
Configuration	-	HORIZONTAL

Test Data		
	Design	Actual
CFM	-	2974
Fan Rotation	-	Correct
RL Voltage	-	-
RL Amperage	-	7.2
Suction ESP	-	NA
Discharge ESP	-	ATM
Total ESP	-	NA

Motor Data		
	Design	Actual
Horsepower	-	3
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	9.5

Unit Data - PHOTO LOG



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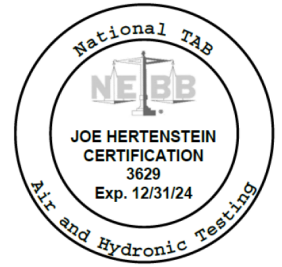
Completed By: Cody Collett on 08/13/2024

Notes:
SETPOINT 41HZ

Written By: Cody Collett on 08/13/2024

National TAB

Project: Bru (Fort Wayne, IN)
System/Unit: FAN - Exhaust



Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	SIF13DD-SS	SIF13DD-SS
Serial Num	-	6829140
Type	INLINE	INLINE
Configuration	CENTRIFUGAL	CENTRIFUGAL

Test Data		
	Design	Actual
CFM	900	818
Fan Rotation	-	Correct
System SetPt	-	52%

Motor Data		
	Design	Actual
Motor MFG	-	TEAO-ECM
Horsepower	1.0	1.0
Motor Rpm	1800	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6
Service Factor	-	1.0

Unit Data - PHOTO LOG



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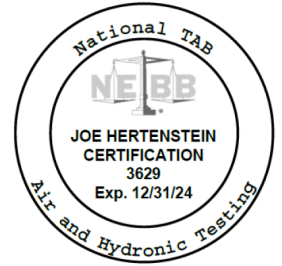
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Completed By: Cody Collett on 08/13/2024



National TAB

Project: Bru (Fort Wayne, IN)
System/Unit: FAN - Supply



Asset: MUA1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	A2-D.500-20D
Serial Num	-	3642870
Type	-	MUA
Configuration	-	VERTICAL

Test Data		
	Design	Actual
CFM	-	4513
SF System SetPt	-	58.7hz
RL Amperage	-	11.2
Total ESP	-	NR
Fan Discharge SP	-	NR

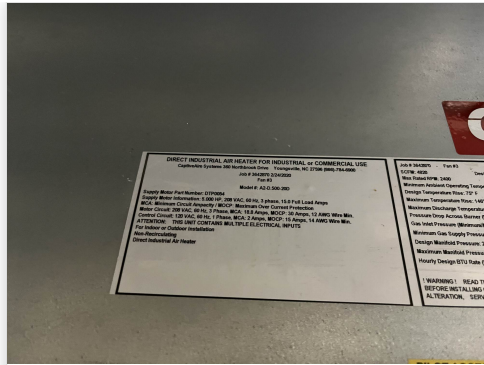
Motor Data		
	Design	Actual
Horsepower	-	5
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	15

General	
	Actual
Fan Rotation Correct	YES

Unit Data - PHOTO LOG



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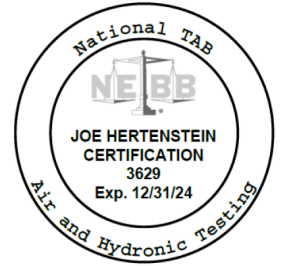
Completed By: Cody Collett on 08/13/2024



National TAB

Project: Bru (Fort Wayne, IN)

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

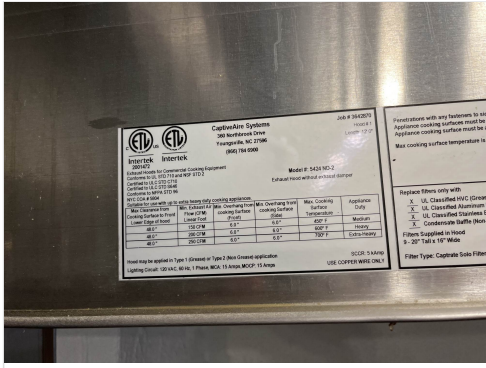
Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424ND-2
Job / Serial Num	-	3642870
Type	-	TYPE 1
Hood length	-	145"
Hood Width	-	54"
Supply Plenum Type	-	MUA PSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	157"

Test Data Exhaust		
	Design	Actual
Filter Type	-	CAPTIVEAIRE SOLO
Filter Size 1	-	16"X20"
Filter Qty 1	-	9
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	18.72
Filter1 FPM	-	125
Filter2 FPM	-	130
Filter3 FPM	-	135
Filter4 FPM	-	167
Filter5 FPM	-	149
Filter6 FPM	-	163
Filter7 FPM	-	134
Filter8 FPM	-	133
Filter9 FPM	-	141
Filter Ave FPM(corr)	-	141
CFM	-	2639

Cooking Equipment	
	Actual
Item 1	FRIDGE
Item 2	KETTLE
Item 3	OVEN
Item 4	GAS STOVE
Item 5	FRYER

Test Data Supply		
	Design	Actual
Total AK Area	-	15.263
Kv factor (Vel)	-	.89
Num of Readings	-	12
Reading1 FPM	-	179
Reading2 FPM	-	144
Reading3 FPM	-	130
Reading4 FPM	-	86
Reading5 FPM	-	124
Reading6 FPM	-	101
Reading7 FPM	-	93
Reading8 FPM	-	113
Reading9 FPM	-	75
Reading10 FPM	-	78
Reading11 FPM	-	117
Reading12 FPM	-	175
Ave FPM(corr)	-	117
CFM	-	1589

Unit Data - PHOTO LOG



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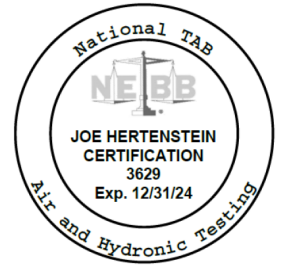
Completed By: Cody Collett on 08/13/2024



National TAB

Project: Bru (Fort Wayne, IN)

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

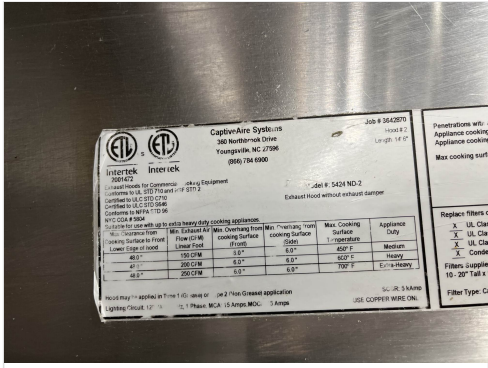
Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	5424ND-2
Job / Serial Num	-	3642870
Type	-	TYPE 1
Hood length	-	175"
Hood Width	-	54"
Supply Plenum Type	-	MUA PSP
Supply Plenum Width	-	16"
Supply Plenum Length	-	187"

Test Data Exhaust		
	Design	Actual
Filter Type	-	CAPTIVEAIRE SOLO
Filter Size 1	-	16"X20"
Filter Qty 1	-	10
Filters AK factor size 2	-	2.08
Filter Total AK Area	-	20.8
Filter1 FPM	-	133
Filter2 FPM	-	149
Filter3 FPM	-	149
Filter4 FPM	-	130
Filter5 FPM	-	148
Filter6 FPM	-	137
Filter7 FPM	-	153
Filter8 FPM	-	148
Filter9 FPM	-	148
Filter10 FPM	-	143
Filter Ave FPM(corr)	-	143
CFM	-	2974

Cooking Equipment	
	Actual
Item 1	GRIDDLE
Item 2	GRIDDLE
Item 3	FRYER
Item 4	FRYER
Item 5	FRYER

Test Data Supply		
	Design	Actual
Total AK Area	-	20.77
Kv factor (Vel)	-	.92
Num of Readings	-	12
Reading1 FPM	-	231
Reading2 FPM	-	23
Reading3 FPM	-	220
Reading4 FPM	-	149
Reading5 FPM	-	99
Reading6 FPM	-	110
Reading7 FPM	-	93
Reading8 FPM	-	75
Reading9 FPM	-	67
Reading10 FPM	-	140
Reading11 FPM	-	162
Reading12 FPM	-	261
Ave FPM(corr)	-	153
CFM	-	2924

Unit Data - PHOTO LOG



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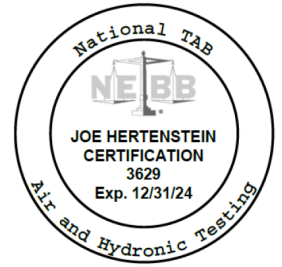
Completed By: Cody Collett on 08/13/2024



National TAB

Project: Bru (Fort Wayne, IN)

System/Unit: Kitchen Hood Type I



Asset: HD3

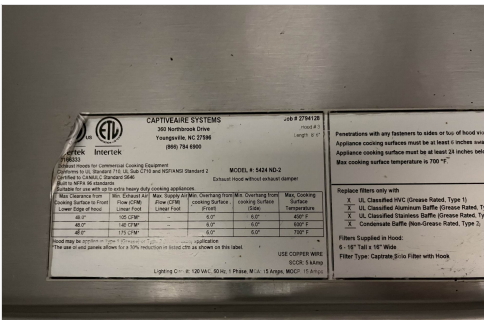
AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	2794128
Type	-	DISH TYPE2
Hood length	-	8'6"
Hood Width	-	NR

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	16"X16"
Filter Qty 1	-	6
Filter AK factor size 1	-	1.62
Filter Total AK Area	-	8.1
Filter1 FPM	-	93
Filter2 FPM	-	110
Filter3 FPM	-	0
Filter4 FPM	-	108
Filter5 FPM	-	102
Filter6 FPM	-	94
Filter Ave FPM(corr)	-	101
CFM	-	818

Cooking Equipment	
	Actual
Item 1	DISHWASHER

Unit Data - PHOTO LOG



IMG_1121_1515865849.j..



IMG_1120_1054986138.j..

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Notes:

All filters could not properly fit in the hood; cardboard was used to cover/seal the open area for testing.

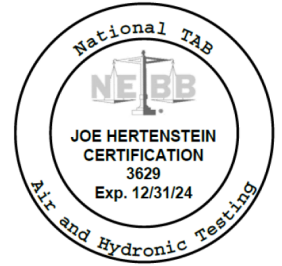
Written By: Cody Collett on 08/13/2024



National TAB

Project: Bru (Fort Wayne, IN)

System/Unit: Split Sys Furnace



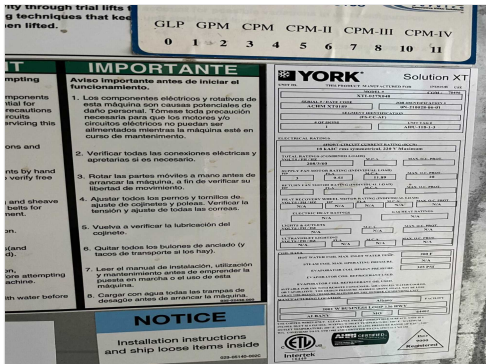
Asset: AHU1

AREA:

Unit Data		
	Design	Actual
MFG	NA	YORK
Model Num	NA	XTI-027X048
Serial Num	-	ACHM XT0189
Configuration	-	VERTICAL

Test Data		
	Design	Actual
RA CFM	-	2210
OA CFM	-	494

Unit Data - PHOTO LOG



IMG_1124_2031384218.j..



IMG_1128_1329400286.j..



IMG_1125_1297157788.j..

Completed By: Cody Collett on 08/13/2024

Issue List

- Hood 1 MUA psp clogged
- Hood 2 MUA PSP clogged.



Bru (Fort Wayne, IN)

Project Issue Information

Issue Name :	Hood 1 MUA psp clogged		
Description :	MUA PSP is clogged and requires cleaning to reduce noise and obtain even and efficient airflow.		
Created By :	National TAB	Assigned To :	National TAB - Joe Hertenstein
Status :	Open		
Priority :	High	Asset Tag :	HD1
Originated Date :	08/13/2024 - Cody Collett - National TAB		



Bru (Fort Wayne, IN)

Project Issue Information

Issue Name : Hood 2 MUA PSP clogged.
Description : MUA PSP is clogged and requires cleaning to reduce noise and obtain even and efficient airflow.
Created By : National TAB **Assigned To :** National TAB - Joe Hertenstein
Status : Open
Priority : High **Asset Tag :** HD2
Originated Date : 08/13/2024 - Cody Collett - National TAB