

EXHAUST FAN INFORMATION - JOB#6107078

| FAN UNIT NO | TAG | QTY | FAN UNIT MODEL # | MANUFACTURER | CFM | ESP | RPM | MOTOR ENCL | HP | BHP | PHASE | VOLT | FLA | DISCHARGE VELOCITY | WEIGHT (LBS) | SDNES |
|-------------|-----|-----|------------------|--------------|------|-------|------|------------|-------|--------|-------|------|-----|--------------------|--------------|-------|
| 1 | | 1 | DU33H | FLOAIRE | 1250 | 0.000 | 1528 | DDP | 0.333 | 0.2430 | 3 | 230 | 1.4 | 619 FPM | 69 | 16.1 |

FAN OPTIONS

| FAN UNIT NO | TAG | QTY | DESCRIPTION |
|-------------|-----|-----|-----------------------|
| 1 | | 1 | 2 YEAR PARTS WARRANTY |

FAN SOUND DATA

| FAN UNIT NO | TAG | MOTOR | SOUND DATA | | | OCTAVE BAND SOUND DATA | | | | | | | | |
|-------------|-----|---------|------------|------------------|------------|------------------------|-------|--------|--------|--------|-------|-------|-------|-------|
| | | | LWA | SDNES @ 5 FT | DBA @ 5 FT | DISTANCE (FT) | 63 HZ | 125 HZ | 250 HZ | 500 HZ | 1 KHZ | 2 KHZ | 4 KHZ | 8 KHZ |
| 1 | | EXHAUST | 79.6 | 16.1373168132559 | 68.1 | 5 | 69.3 | 75.2 | 82.2 | 77.3 | 73.1 | 71.5 | 64.1 | 56.3 |



FloAire

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| JOB Quote #6107078 | |
| LOCATION | |
| DATE 7/13/2023 | JOB # 6107078 |
| DWG # 1 | DRAWN BY |
| REV. | SCALE 3/8" = 1'-0" |

FAN #1 DU33H - EXHAUST FAN

FEATURES:

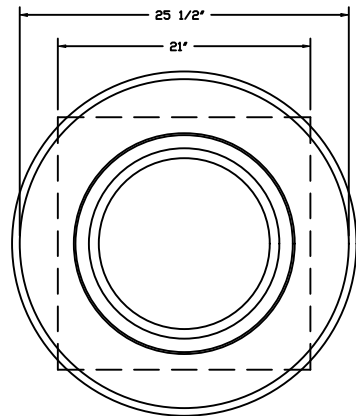
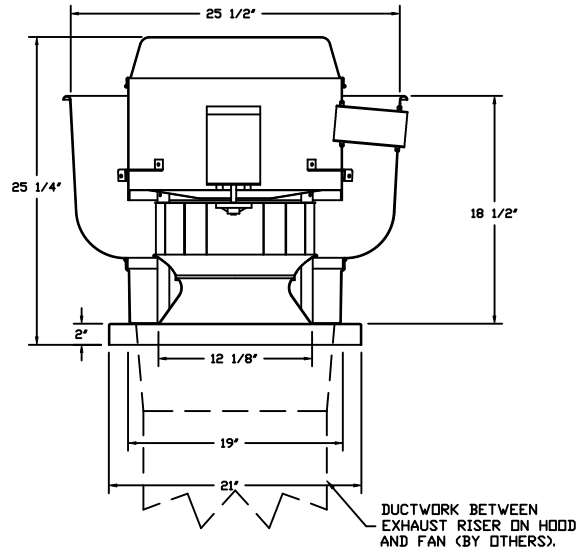
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).

- 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.

OPTIONS

- 2 YEAR PARTS WARRANTY.



TOP VIEW

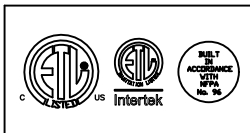
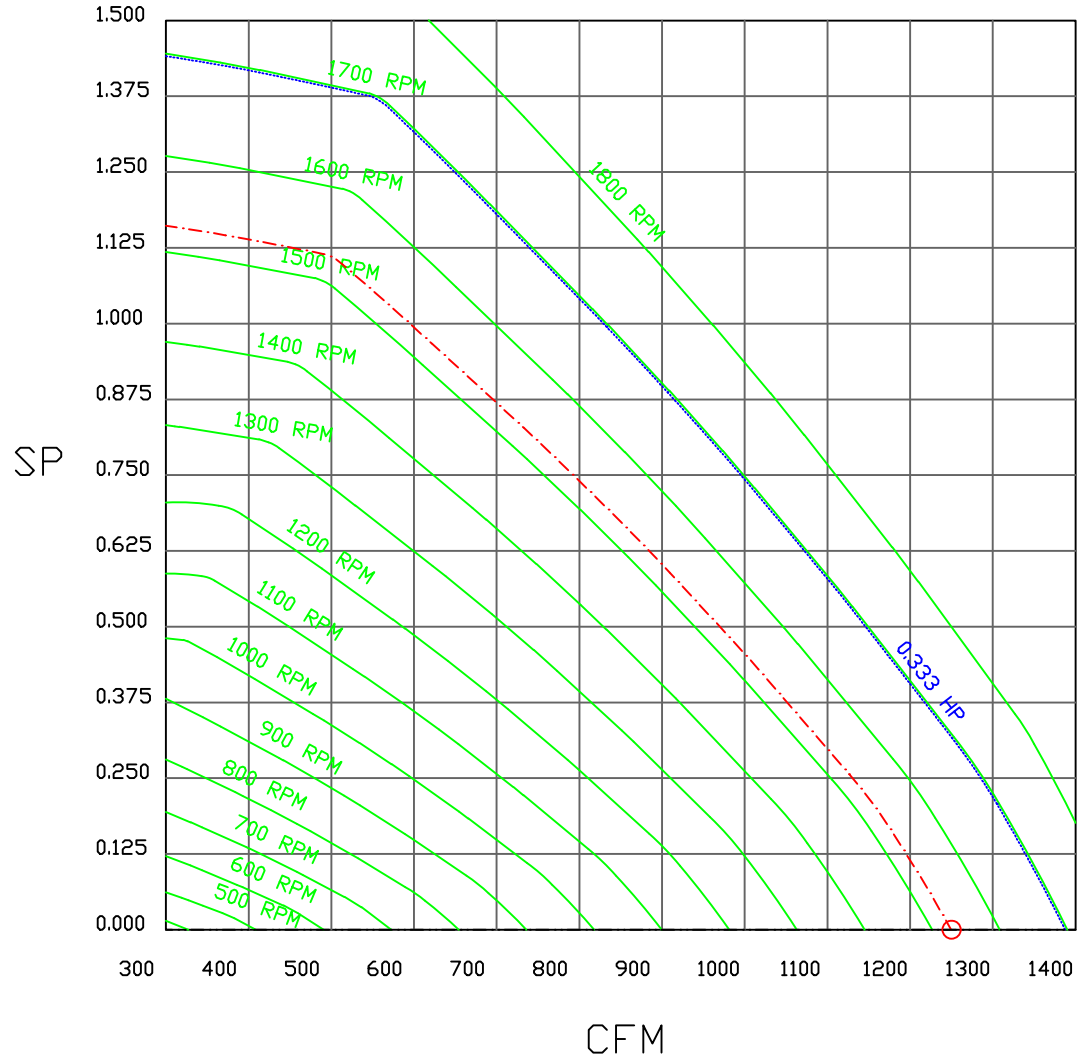


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| JOB Quote #6107078 | |
| LOCATION , | |
| DATE 7/13/2023 | JOB # 6107078 |
| DWG # 2 | DRAWN BY |
| REV. | SCALE 3/8" = 1'-0" |

FAN#1 - EXHAUST PERFORMANCE CURVES.

1250 CFM, 0 SP @ 1528 RPM AND 0.243 BHP AT 0 FEET AND 70 DEG F.
 * PLEASE NOTE THAT THESE CURVES WERE ADJUSTED FOR JOB SPECIFIC TEMPERATURE AND ALTITUDE.



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| JOB Quote #6107078 | |
| LOCATION , | |
| DATE 7/13/2023 | JOB # 6107078 |
| DWG # 3 | DRAWN BY |
| REV. | SCALE 3/8" = 1'-0" |

POWER VENTILATORS
TAG: Centrifugal Upblast

PART 1 - GENERAL

1.1 SUMMARY

- A. Fan shall be a spun aluminum, G90 Galvanized, roof or wall-mounted, direct drive, upblast centrifugal exhaust ventilator.

1.2 SUBMITTALS

- A. The manufacturer assumes no liability for the use or results of use of this document. This specification is to be reviewed by the engineer to confirm requirements of the project and building codes are met.
- B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

1.3 QUALITY ASSURANCE

- A. ETL Listed and complies with UL705 (electrical) Standards and CSA Std C22.2, No 113.
- B. ETL Listed and comply with UL762 and ULC-S645 Standards.
- C. Fan shall bear the AMCA certified rating seal for air performance.
- D. Wheels shall be balanced in two planes and done in accordance with AMCA standard 204-96, Balance Quality and Vibration Levels for Fans.

1.4 WARRANTY

- A. All units are provided with the following 2-year standard warranty from date of shipment.
- B. This 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, neglected, or not maintained per the manufacturer's maintenance instructions.
 4. The equipment is not operated within its published capacity.
 5. The invoice is not paid within the terms of the sales agreement.
- C. 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 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by the 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. All returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

PART 2 - PRODUCTS

2.1 GENERAL ASSEMBLY

- A. The fan shall be factory assembled, tested, and shipped as a complete unit.
- B. The following specifications, delivering all capacities scheduled and conforming to the design indicated herein. Alternate layouts or dimensional changes will not be accepted.

2.2 CONSTRUCTION

- A. The fan wind band shall be constructed of heavy gauge aluminum or G90 Galvanized and shall be spun on an automatic lathe to provide consistent dimensions.
- B. Horizontal and vertical internal supports shall be used to fasten the wind band to the discharge apron securely. This provides rigidity for hinging and added strength to reduce shipping damage.
- C. The discharge apron shall have a rolled bead for added strength.
- D. Base corners shall be welded to provide strength and support for hinging and clearing and prevent leakage into the building.
- E. The fan shall bear a permanently attached nameplate displaying model and serial number of unit for future identification.
- F. Nylon washers provide a tight seal. All fasteners in the fan housing shall be backed with nylon washers.
- G. The unit shall be factory tested after assembly.

2.3 WHEEL

- A. The fan wheel shall be centrifugal backward inclined and non-overloading.
- B. The wheel blades shall be aerodynamically designed to minimize turbulence, increase efficiency and reduce noise.
- C. The wheel blades shall be welded to the wheel inlet cone.
- D. If balancing weights are required, they shall be riveted to the blades or wheel.
- E. The wheel inlet shall overlap the fan base inlet for maximum performance and efficiency.
- F. The wheel shall be firmly attached to the motor shaft with two set screws.

2.4 MOTOR

- A. Fan(s) 1 Motor Type: Open Drip Proof (ODP).
- B. Motor shall be permanently lubricated and rated for continuous duty.
- C. Furnished at the specified voltage, phase, and enclosure. Motor speed shall be variable, controlled using an integrated speed controller.

- D. Motors shall be mounted out of the airstream and furnished at the specified voltage, phase, and enclosure.

- E. Motor mounting plate shall be constructed of heavy gauge galvanized steel.

- F. The motor compartment shall be cooled by outside air drawn through an extruded aluminum conduit tube.

- G. An integral electrical conduit running from the fan base to the motor compartment is provided for ease of installation.

- H. The conduit tube passage shall be sealed to prevent noise. Silicone rubber grommets shall isolate the conduit tube from the fan housing.

- I. The motor compartment shall be a two-piece construction. The cap has quick-release clips to provide fast and easy access to the motor compartment.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine all areas and conditions under which package(s) are to be installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to installer.

3.2 INSTALLATION

- A. Install the package in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

3.3 CONNECTIONS

- A. Electrical connections conform to applicable requirements in Division 26 Sections.

3.4 SYSTEM START-UP

- A. System start-up is performed by a factory-trained Service Technician.



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JOB Quote #6107078

LOCATION ,

DATE 7/13/2023

JOB # 6107078

DWG # 4

DRAWN BY

REV.

SCALE 1/4" = 1'-0"



GREASE DUCT & CHIMNEY SPECIFICATIONS:

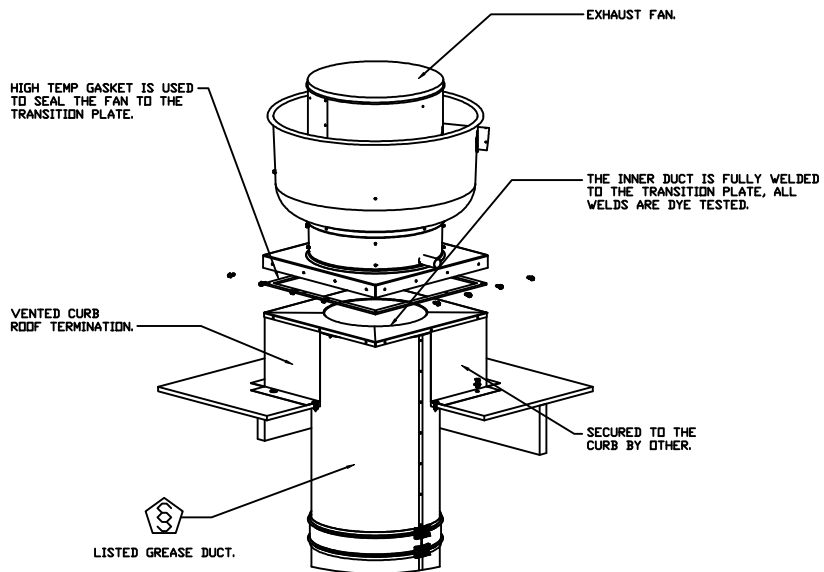
PROVIDE GREASE DUCT EQUAL TO FLOAIRE MODEL "FDW"
ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "FDW"
IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING
CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "FDW"
DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
THE MANUFACTURES INSTALLATION GUIDE.

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER.
PER MANUFACTURES LISTING MODEL "FDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE
SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE
ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE
UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY
EQUAL TO FLOAIRE MODEL "FDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430
STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

| | |
|----------------------------------|--------------------------|
| APPROVED AS NOTED | <input type="checkbox"/> |
| APPROVED WITH NO EXCEPTION TAKEN | <input type="checkbox"/> |
| REVISE AND RESUBMIT | <input type="checkbox"/> |
| SIGNATURE _____ | |
| YOUR TITLE _____ | DATE _____ |



*NOTE: UL 762 INSTALL.



FloAire

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| JOB Quote #6107078 | |
| LOCATION , | |
| DATE 7/13/2023 | JOB # 6107078 |
| DWG # 5 | DRAWN BY |
| REV. | SCALE 3/8" = 1'-0" |

Exhaust Fan Wiring

JOB 6107078 - Quote #6107078

DRAWING NUMBER EXH6107078-1

SHIP DATE 7/13/2023

MODEL DU33H

Installed Options

| Label | Component Description | Location |
|-------|------------------------|----------|
| MT-01 | Fan Motor | [3] |
| SW-01 | Main disconnect switch | [3] |

EXHAUST MOTOR_INED
0.333HP-230V-3P-1.4FLA

ELECTRICAL INFORMATION
MOTOR/CTRL MCA: 1.8A
MOTOR/CTRL MOP: 1.5A

NOTES
 --- DENOTES FIELD WIRING
 --- DENOTES INTERNAL WIRING

WIRE COLOR
 BK - BLACK YW - YELLOW
 BL - BLUE GR - GREEN
 BR - BROWN GY - GRAY
 OR - ORANGE PR - PURPLE
 RD - RED PK - PINK
 WH - WHITE

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