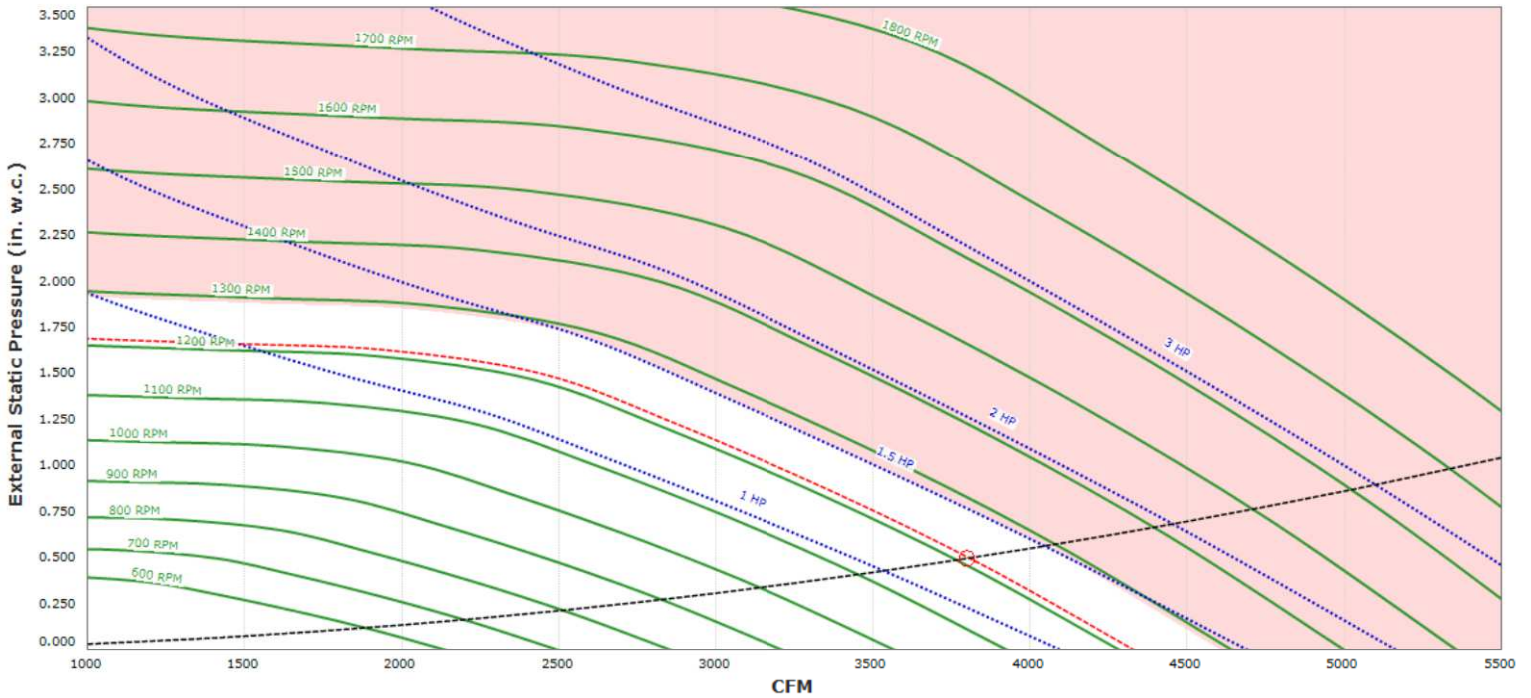




**DU180HK (#4)** DU18 3800CFM1.5hp208 Weight: 238 lbs.



High Speed Direct Drive Centrifugal Upblast Exhaust Fan with, disconnect switch and 18-3/4" wheel.



**EXHAUST MOTOR**

Model NP1/56 • 1.500 HP • 3 Phs • 208 V • 60Hz • 5.6 FLA • TEFC, Premium (E-Plus3) Eff.

**EXHAUST PERFORMANCE**

Volume:	3800 CFM	RPM:	1213	TS:	5954 ft/min
Static Pressure:	0.500" w.g.	BHP:	1.247	Discharge Velocity:	878 FPM
Altitude:	0'	Ambient Temp:	120.0°F	FEI:	0.793

**CONSTRUCTION FEATURES**

- Housing constructed of heavy gauge aluminum
- Centrifugal backward inclined, non-overloading wheel built out of 3003-H14 aluminum
- Weatherproof safety disconnect switch
- Grease spout welded to housing
- Vibration isolators
- Adjustable pitch drive assemblies
- Adjustable motor mount
- Ball bearing motors
- Forces fresh air through motor to ensure long motor life
- Corrosion resistant fasteners
- High heat operation (300 °F)
- Rated for restaurant and general ventilation applications
- Grease classification tested
- UL705 and UL762

**EXHAUST INSTALLATION INFORMATION**

Unit Voltage:	1 phs 208 V 60Hz
Unit Main Input	15.0 Amps MCA • 20 Amps MOP • 208 V • 14 AWG Wire Min.
SCCR:	10 kAmp

# CONFIGURED OPTIONS

- Full crating for exhaust fans for shipping.
- VAV (Variable-Air-Volume) Wiring Package for Commercial Fans. Manual Speed Control Variable Frequency Drive Included
- Exhaust i500 Variable Frequency Drive - 1.5 HP Max., 230 V, 1Ph or 3Ph, 6 A Max., NEMA 1 Enclosure, PART NEEDS PROGRAMMING
- VFD factory mounted and wired in unit control vestibule.
- VFD Mounting bracket for DU/DR 180, 200.
- Insulated Heat Baffle for Exhaust Fans. Type 475FRK 1 inch thick insulation installed on the 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.

## DU180HK SOUND (1213 RPM) AT 5 FT. IN OCTAVES:

1	2	3	4	5	6	7	8
78.3	83.6	89	79.4	72.7	71	63.6	56.6
LWA:	82.9	Sones:	20.3	DBA:	71.4		

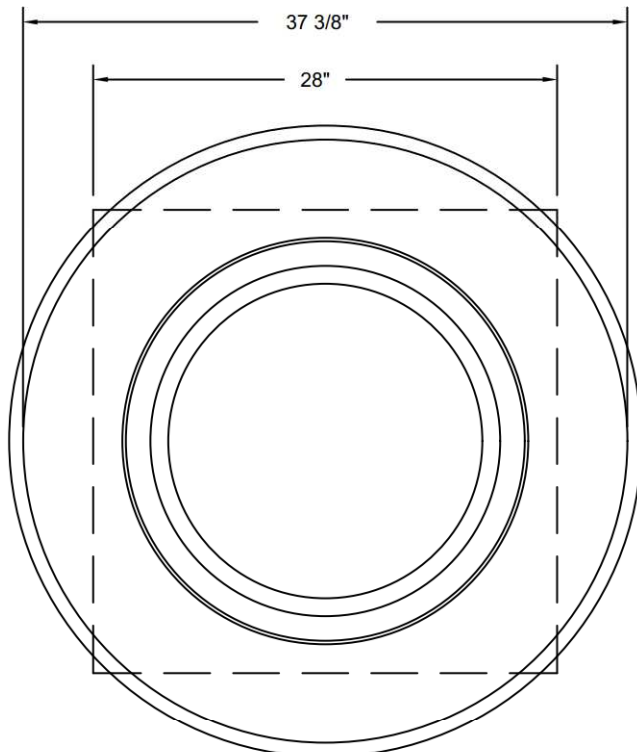
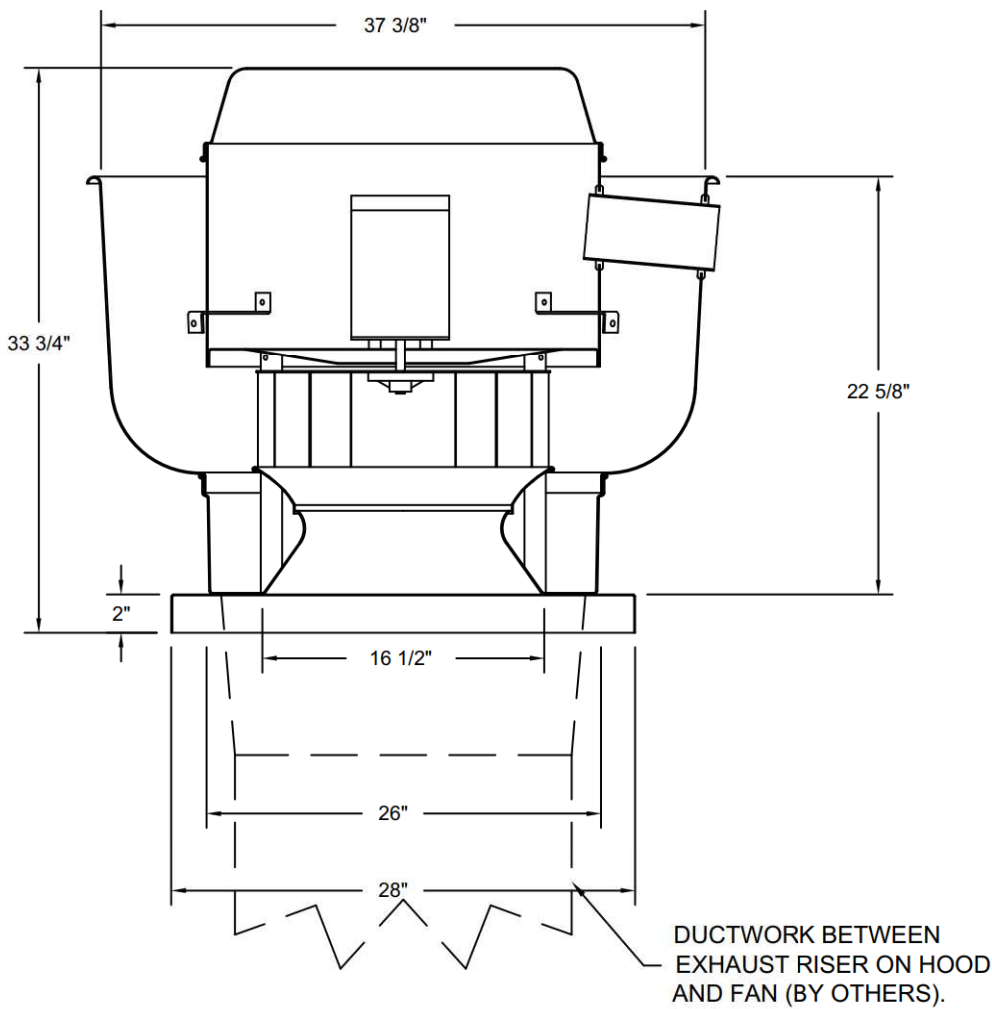
Note: Sound data across operational range. Tested in accordance to AHRI Standard 270/370.

## 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

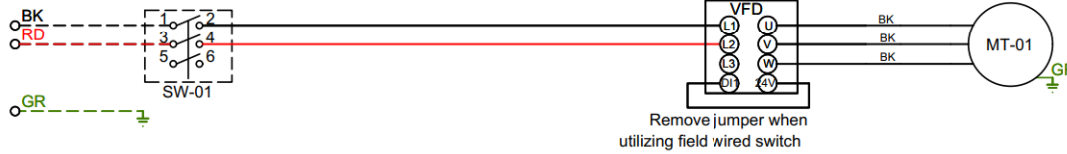
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.



TOP VIEW

Installed Options

1  
2  
3  
4  
5  
6  
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14  
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16  
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19  
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22  
23



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

**MOTOR INFO**  
 EXHAUST 1.5HP-208V-3P-5.6FLA  
 VFD: i51BP211D0000ACBSS

**ELECTRICAL INFORMATION**  
 MOTOR/CTRL MCA: 15.0A  
 MOTOR/CTRL MOP: 20A

**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	