



Order # 3802300 - DIG INN - Cambridge MA

Fan #1 USBI18DD-RM (391 lbs.)
Tag: KEF-1

Direct Drive Exhaust Only Unit With 18.750" Utility Set Exhaust Fan w/ 2" Grease Drain. Clockwise Rotation When Looking At Inlet.

Exhaust Motor:

Model DTP0034, 3.000 HP, 3 Phs, 208 V, 60Hz, 9.5 FLA, ODP, Premium (E-Plus3) Eff.

Exhaust Performance:

Volume: 3275 cfm
RPM: 1420
TS: 6970 ft/min
SP: 2.000" w.g.
BHP: 1.837
Discharge Velocity: 1679 FPM
Altitude: 18'
Ambient Temp: 70°F

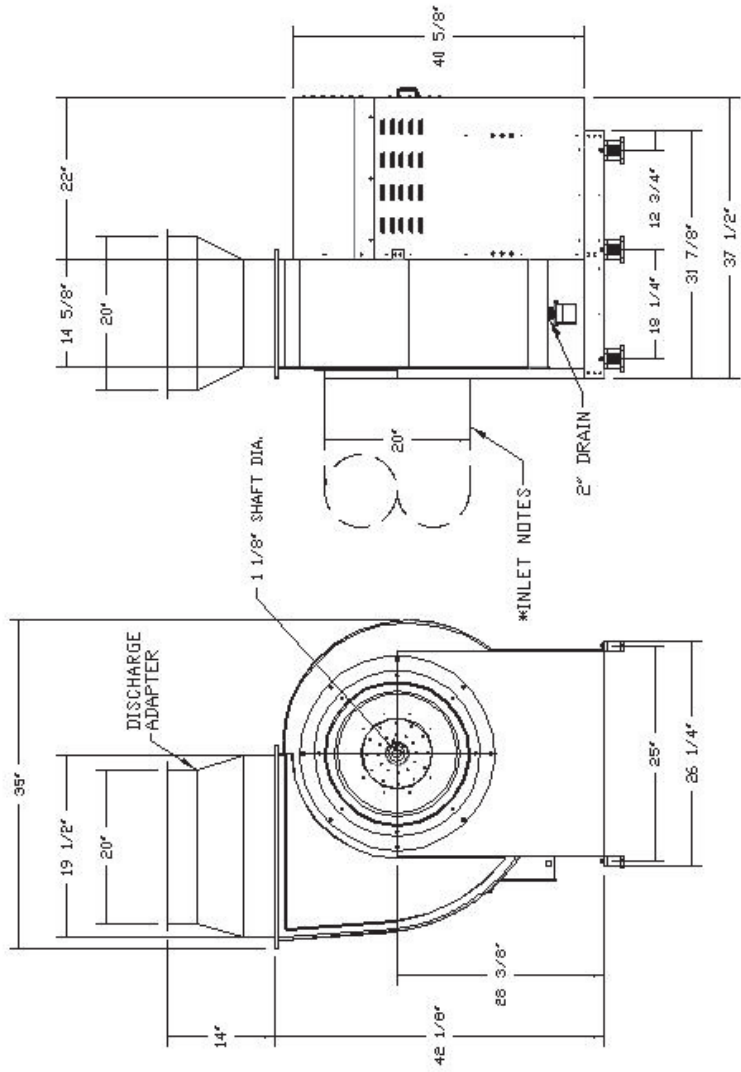
Exhaust Installation Information:

Unit Main Input: 11.9 Amps MCA, 20 Amps MOP, 208 V, 14 AWG Wire Min.
Exhaust Unit Voltage: 3 phs 208 V 60Hz



Selected Options:

- BI - Discharge Orientation - Vertical Upper Left - CW Looking At Inlet.
- BI18 - 20" Flanged Grease Duct Connection.
- Grease Cup for Utility Sets. Option for Utility Sets.
- Single Wall Duct Adapter - Square To Round - 14.437" X 19.25" To 20" - 14" Tall - Stainless Steel. Standard Part. USBI18 Outlet Adapter.
- Floor Mount Spring Vibration Isolators. Option for the BI12 thru BI18, USBI18 (6 required) Utility Set units. Max Weight = 75 lbs. 1.3" Deflection. 3/8" bolt diameter. Set of 6. "Orange" (5C126x6) Grainger equivalent = 5C126 - Mason C-A-75.



(6) ISOLATORS = USBID8 THRU 36

FEATURES:

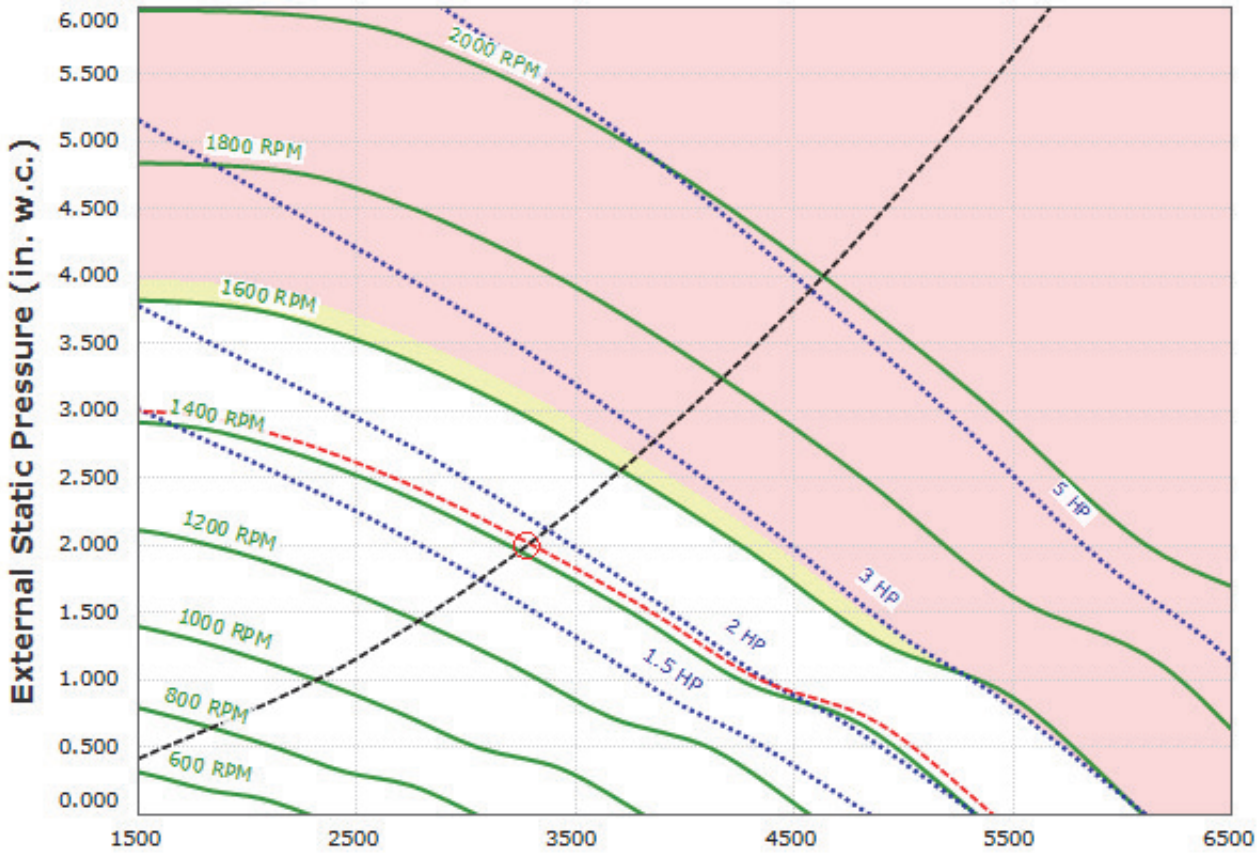
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705
- UL762 AND ULC-S645
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C)
- HIGH HEAT OPERATION BELT DRIVE 350°F (176°C)
- HEAT SLINGER
- WEATHERPROOF DISCONNECT
- GREASE CLASSIFICATION TESTING
- 2" DRAIN
- MOTOR WEATHER COVER
- FULLY SEALED SCROLL HOUSING
- SCROLL ACCESS DOOR
- FLANGE 1 1/4" - 11 THRU 20.
- FLANGE 2" - 24 THRU 36.

NORMAL TEMPERATURE TEST DIRECT DRIVE EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

*** INLET NOTES:**
 LENGTH OF THE STRAIGHT DUCT ON THE INLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

3275 CFM, 2 SP @ 1420 RPM and 1.837 BHP at 18 feet and 70° F

* Note: Curves are adjusted to job specific temperature and altitude.
 Yellow shaded region is above the max recommended RPM.
 Red shaded region is outside the operating range of this fan.



USB18DD-RM exhaust sound data @ 1420 RPM:

LWA at 5 ft.: 85.2 Sones at 5 ft.: 22 DBA at 5 ft.: 73.7

| Distance | Octave 1 | Octave 2 | Octave 3 | Octave 4 | Octave 5 | Octave 6 | Octave 7 | Octave 8 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 5 ft. | 83.2 | 84.9 | 84.2 | 83.8 | 80 | 76 | 68.4 | 63.1 |