

FAN DETAILS



Job Name: VA_Med_Ctr_Fan_Replacement

Tag: EF-1
Customer:
Job ID: VA_Med_Ctr_Fan_Replacement
Date: November 29, 2016

Description

Quantity 1
 Model BC-DW
 Size 365
 Width DWDI
 Arrangement 3
 Class II
 Rotation CCW
 Discharge BHD
 Wheel Diameter (in) 40.2
 Drive method Belt
 Percentage width 100%
 Percentage diameter 100%
 Motor position Z

Performance

Volumetric Flow CFM 43,000
 Operating SP (in WC) 7.500
 Standard SP (in WC) 7.500
 RPM 1094
 Tip Speed (FPM) 11528
 Oper. Power BHP 68.13
 Standard Power BHP 68.13
 Outlet Area (sq.ft) 16.77
 Outlet Velocity (FPM) 2564
 Max RPM for Class 1302
 Static Efficiency 74.40%
 Total Efficiency 78.46%
 FEI 1.22
 FEP (KW) 55.56
 System FEI N/A
 System FEP (KW) N/A

Air/Gas Properties

Altitude above sea level (ft) 0
 Inlet Pressure (in WC) 0.000
 Inlet Temperature(°F) 70
 Design Temperature (°F) 70
 Gas Type Standard air
 Estimated Density (lb/ft³) 0.075

Motor Data

N/A

Sound

Octave Bands	1	2	3	4	5	6	7	8	LwA
Level at Inlet	105	104	102	100	96	92	86	81	102

Distance in ft	1	3	5
dBA at inlet	101	92	87

Sound Power Levels in dB re.10⁻¹² Watts:

Estimated sound pressure level in dBA
 (re: 0.0002 microbar) based on a single
 * ducted installation:

*To estimate dBA level for ducted inlet and ducted outlet (into and out of the room) type installation, deduct 20 from the LwA value shown. Using a directivity factor of 1. Estimated Sound Pressure based on free field, spherical (Q = 1) radiation at stated distance.

Definitions:

LwA The overall (single value) fan sound power level, 'A' weighted.

dBA The environment for each fan installation influences its measured sound value, therefore dBA levels cannot be guaranteed. Consult AMCA Publication 303 for further details. A fan's dBA is influenced by nearby reflective surfaces.

FAN DETAILS



Job Name: VA_Med_Ctr_Fan_Replacement

Tag: EF-1
Customer:
Job ID: VA_Med_Ctr_Fan_Replacement
Date: November 29, 2016

Pricing Detail

BC-DW 365, Class II, Arrangement 3 Bare fan	1,487lb
Access Door - Quick Open / Hinged	0 lb
Drain W/ Plug	0 lb
Flange - Outlet, Unpunched	0 lb
Guard - Belt, OSHA Type	40 lb
Screen - Inlet, Std Type	0 lb
Extended Lube Lines to Drive Side	0 lb
Each Weight	1,527 lb
Extended Weight	1,527 lb