



D6 ENGINEERING DATA SHEET

Engineering Data Sheet: D6
 Configurator Number: D6-7.5A
 Date: 03/01/2019
 Supersedes:

Fixed Speed – 60 Hz

| PRODUCT DATA | | Units | D6 |
|------------------------------------------------|------------------------------------------------------|----------------------------|--------------------|
| Performance (1) | | | |
| Working Pressure | PACKAGE PRESSURE (configurator pick) | psig bar g | 145 10 |
| | Airend Model at configurator pressure / Pulley Ratio | | DSC-002053 / 1.0 |
| 100 psig 6.9 bar g | Capacity (2) | acfm (m ³ /min) | 16.8 (0.48) |
| | Package Input Power - AC (3,4) | kW | 3.5 |
| | Specific Power - AC | kW/100 cfm | 21.1 |
| | Main Drive Motor Power | bhp | 4.2 |
| 110 psig 7.6 bar g | Capacity (2) | acfm (m ³ /min) | 16.4 (0.47) |
| | Package Input Power - AC (3,4) | kW | 3.7 |
| | Specific Power - AC | kW/100 cfm | 22.7 |
| | Main Drive Motor Power | bhp | 4.5 |
| 125 psig 8.6 bar g | Capacity (2) | acfm (m ³ /min) | 16.0 (0.45) |
| | Package Input Power - AC (3,4) | kW | 4.0 |
| | Specific Power - AC | kW/100 cfm | 25.2 |
| | Main Drive Motor Power | bhp | 4.8 |
| 145 psig 10.0 bar g | Capacity (2) | acfm (m ³ /min) | 15.3 (0.43) |
| | Package Input Power - AC (3,4) | kW | 4.4 |
| | Specific Power - AC | kW/100 cfm | 28.7 |
| | Main Drive Motor Power | bhp | 5.2 |
| Unloaded Package Input Power - AC | | kW | 0.8 |
| Minimum Operating Pressure | | psig (bar g) | 100 (6.9) |
| Airend Data | | | |
| Drive Type | | n/a | Belt |
| Airend Speed (male rotor) | | rpm | 1750 |
| Male / Female Rotor Diameter | | mm | 79.0 / 63.0 |
| Male / Female Rotor Tip Speed | | m/s | 7.2 / 4.6 |
| General Package Data | | | |
| System Capacity - oil | | gal (l) | 0.8 (3.0) |
| Oil flow @ configured pressure | | gpm (l/min) | 5.3 (20) |
| Air/Oil Reservoir Capacity - oil | | gal (l) | 0.8 (3.0) |
| Air/Oil Reservoir Volume - air | | ft ³ (l) | 0.1 (3.0) |
| Oil Cooler Heat Rejection | | btu/min | 148 |
| Aftercooler Heat Rejection | | btu/min | 28 |
| Radiated Heat Rejection | | btu/min | 40 |
| Nominal Temperature Rise @ Configured Pressure | | °F (°C) | 9.0 (5) |
| Min / Max Operating Temperature | | °F (°C) | 50 / 104 (10 / 40) |
| Noise Level Data (5) | | | |
| Quiet Enclosed - AC | | dB(A) | 63 |

NOTES:

- (1) Capacity and Power measured in accordance with ISO 1217 Annex C.
- (2) acfm is actual cubic feet per minute at inlet conditions
- (3) Package Input Power includes main motor and control input power
- (4) Power noted with OPSB motor
- (5) Sound level measurement in accordance with ISO 2151.



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Date: 03/01/2019

Supersedes:

Fixed Speed – 60 Hz

| PRODUCT DATA | Units | D6 | |
|------------------------------------------------------------|---------------------------|--------------|----------------------|
| Main Drive Motor Data | | | |
| Drive Motor Nominal Power | hp (kW) | 5 (3.7) | |
| Drive Motor Speed - 1PH / 3PH | rpm | 1725 / 1750 | |
| Drive Motor Service Factor | n/a | 1.15 | |
| Drive Motor Minimum Nameplate Efficiency - OPSB, 1PH / 3PH | % | 84 / 89.5 | |
| Drive Motor Min. Insulation Class | n/a | F | |
| Drive Motor Nominal Current (Per NEC Code) - 230V 1PH (6) | Amps | 28 | |
| Drive Motor Nominal Current (Per NEC Code) - 200V 3PH (6) | Amps | 17.5 | |
| Drive Motor Nominal Current (Per NEC Code) - 230V 3PH (6) | Amps | 15.2 | |
| Drive Motor Nominal Current (Per NEC Code) - 460V 3PH (6) | Amps | 7.6 | |
| Air Cooled Package Data | | | |
| Cooling Fan Motor Speed - 1PH / 3PH (7) | rpm | 1725 / 1750 | |
| Fan Motor Nameplate Efficiency | % | N/A | |
| Total Ventilation Flow Rate | cfm (m ³ /min) | 610 (17.3) | |
| Max Total Added Static Pressure | in H ₂ O (Pa) | 0.1 (25) | |
| Aftercooler Design Approach Temperature - above amb | °F (°C) | 27 (15) | |
| Connections | | | |
| Package type | Units | Base Mounted | 80 Gallon with Dryer |
| Discharge Connection Size | " npt | 1/2 (Male) | 3/4 (Female) |
| Moisture Drain Tube Size - Dryer, Filter | mm OD | N/A | 6 , 6 |
| Ref. Dryer Power Supply - 1PH | V | N/A | 115V/60Hz |
| Oil Drain Tube Size | " OD | 1/2 | |
| Dimensions and Weights | | | |
| Package type | Units | Base Mounted | 80 Gallon with Dryer |
| Length | in (mm) | 34 (864) | 66 (1676) |
| Width | in (mm) | 21 (533) | 21 (533) |
| Height | in (mm) | 25 (635) | 46 (1168) |
| Weight (8) | lbs (kg) | 378 (171) | 665 (302) |
| Outline Drawing - standard package | n/a | D6-7.5-SE | D6-7.5TD-SE |

NOTES:

(6) Main motor current per NEC table 430.250 to be used for wire sizing

(7) Cooling fan is mounted on main motor

(8) Weights based on DSC-002053 air end and 5hp/OPSB Baldor motor



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