

AIR BLOWER PACKAGE DATA SHEET

Positive Displacement Variable Speed Blower

MODEL DATA - Standard Conditions (US Units)

| | | | | | | | |
|--|--|---|---|------------------|------------------|------------------|----------------------|
| 1 | Manufacturer: | ATLAS COPCO | Date: | 08/15/16 | | | |
| 2 | Model Number: | ZS110VCA | | | | | |
| 3 | <input checked="" type="checkbox"/> Main Drive Motor <input checked="" type="checkbox"/> Driver Cooling System <input type="checkbox"/> Harmonic Filter <input type="checkbox"/> No Negative Tolerance Data | <input checked="" type="checkbox"/> Control Cubicle <input checked="" type="checkbox"/> Lubrication System <input type="checkbox"/> Discharge Check Valve | <input checked="" type="checkbox"/> VFD <input checked="" type="checkbox"/> Gearbox / Belt Drive <input checked="" type="checkbox"/> Inlet Air Filter | | | | |
| | | | | VALUE UNITS | | | |
| 4 | Rated Capacity (FAD) at Rated Operating Pressure | | 1818 | cfm | | | |
| 5 | Rated Operating Pressure - p ₂ | | 17.40 | psig | | | |
| 6 | Drive Motor Nameplate Rating | | 150.0 | hp | | | |
| 7 | Blower Rated Speed | | 4427 | rpm | | | |
| 8 | Performance Table ^a | | | | | | |
| | Discharge Pressure p ₂ (psig) ^b | Delivered Air Flow - FAD (cfm) | | | | | |
| | | | 100% FAD | FAD ^c | FAD ^c | FAD ^c | MIN FAD ^d |
| | 14 psig | FAD ^f | 2245 | 1817 | 1389 | 961 | 533 |
| | | Spec. Power ^e | 5.24 | 5.19 | 5.28 | 5.75 | 7.45 |
| | | Blower Speed (rpm) | 3752 | 3101 | 2474 | 1872 | 1294 |
| | 12 psig | FAD ^f | 2490 | 1972 | 1454 | 935 | 417 |
| | | Spec. Power ^e | 4.79 | 4.65 | 4.67 | 5.09 | 7.46 |
| | | Blower Speed (rpm) | 4115 | 3315 | 2547 | 1811 | 1109 |
| | 10 psig | FAD ^f | 2631 | 2079 | 1527 | 975 | 423 |
| | | Spec. Power ^e | 4.33 | 4.13 | 4.06 | 4.32 | 6.26 |
| | | Blower Speed (rpm) | 4318 | 3459 | 2633 | 1842 | 1084 |
| | 8 psig | FAD ^f | 2712 | 2146 | 1580 | 1013 | 447 |
| | | Spec. Power ^e | 3.84 | 3.61 | 3.47 | 3.59 | 4.95 |
| | | Blower Speed (rpm) | 4425 | 3542 | 2691 | 1871 | 1084 |
| Notes: a. Based on reference inlet conditions of p _{amb} =14.7 psia, T _{amb} =68°F, RH=36% b. Discharge pressure in -2 psig increments starting at max, rated operating pressure. To include 8 psig c. Intermediate points at equal spacing between 100% and Min. Flow (see note d.) d. Lowest Turned Down FAD e. Specific power (kW /100 cfm) tolerance of +/- tolerance given by Table 2 in BL 300 unless "No Negative Tolerance" box is checked f. Delivered air flow +/- tolerance given by Table 2 in BL 300 unless "No Negative Tolerance" box is checked | | | | | | | |

| Table 2 from BL 300: | Delivered Air Flow at specified conditions | | Delivered Air Flow Rate | Specific Power Consumption | Discharge Pressure |
|----------------------|--|----------------------|-------------------------|----------------------------|--------------------|
| | m ³ /min | ft ³ /min | % | % | % |
| | Below 0.5 | Below 15 | +/- 7 | +/- 8 | -0 / +1 |
| | 0.5 to 1.5 | 15 to 50 | +/- 6 | +/- 7 | -0 / +1 |
| | 1.5 to 15 | 50 to 500 | +/- 5 | +/- 6 | -0 / +1 |
| | Above 15 | Above 500 | +/- 4 | +/- 5 | -0 / +1 |

