

AIR BLOWER PACKAGE DATA SHEET

CENTRIFUGAL AIR BLOWER PACKAGE DATA SHEET

MODEL DATA - Standard Conditions (US Units)

1	Manufacturer:	ATLAS COPCO	Date:	08/15/16		
2	Model Number:	ZB110VSD				
3	<input checked="" type="checkbox"/> Main Drive Motor <input type="checkbox"/> Inlet Throttle Valve <input checked="" type="checkbox"/> Harmonic Filter <input type="checkbox"/> No Negative Tolerance Data	<input checked="" type="checkbox"/> Driver Cooling <input checked="" type="checkbox"/> Lubrication System <input type="checkbox"/> Inlet Guide Vanes	<input checked="" type="checkbox"/> VFD <input type="checkbox"/> Gearbox / Belt <input checked="" type="checkbox"/> Inlet Air Filter			
			VALUE	UNITS		
4	Rated Capacity (FAD) at Rated Operating Pressure		2991	cfm		
5	Rated Operating Pressure - p ₂		14	psig		
6	Drive Motor Nameplate Rating		150.0	hp		
7	Blower Rated Speed		29900	rpm		
	Performance Table ^a					
	Discharge Pressure p ₂ (psig) ^b	Delivered Air Flow - FAD (cfm)				
		100% FAD	FAD 2 ^c	FAD 3 ^c	FAD 4 ^c	MIN FAD ^d
14 psig	FAD ^f	2991	2681	2371	2060	1750
	Spec. Power ^e	4.64	4.63	4.67	4.79	5.01
	rpm	29900	29130	28495	28019	27741
12 psig	FAD ^f	3337	2903	2469	2034	1600
	Spec. Power ^e	4.27	4.10	4.08	4.17	4.44
	rpm	29900	28440	27234	26488	26020
10 psig	FAD ^f	3480	2960	2440	1920	1400
	Spec. Power ^e	3.99	3.59	3.50	3.58	3.87
	rpm	29896	27315	25793	24664	24064
8 psig	FAD ^f	3539	2967	2395	1822	1250
	Spec. Power ^e	3.67	3.07	2.93	2.95	3.23
	rpm	29904	25965	24070	22648	21862
	<p>Notes:</p> <p>a. Based on reference inlet conditions of p_{amb}=14.7 psia, T_{amb}=68°F, RH=36%</p> <p>b. Discharge pressure in -2 psig increments starting at max, rated operating pressure. To include 8.0 psig</p> <p>c. Intermediate points nominal equal spacing between 100% and Min. Flow (see note d.)</p> <p>d. Lowest Turned Down FAD</p> <p>e. Specific power (kW /100 cfm) tolerance of +/- tolerance given by Table 2 in BL 300 unless "No Negative Tolerance" box is checked</p> <p>f. Delivered air flow +/- tolerance given by Table 2 in BL 300 unless "No Negative Tolerance" box is checked</p>					

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

