



AIR BLOWER PACKAGE DATA SHEET
Positive Displacement Fixed Speed Blower

MODEL DATA - Standard Conditions (US Units)				
1	Manufacturer:	Kaeser Compressors	Date: 7/28/2016	
2	Model Number:	EB421C STC		
3	<input checked="" type="checkbox"/> Main Drive Motor <input type="checkbox"/> Drive Cooling System <input type="checkbox"/> Lubrication <input checked="" type="checkbox"/> Starters <input checked="" type="checkbox"/> Inlet Air Filter <input checked="" type="checkbox"/> Gearbox / Belt Drive <input checked="" type="checkbox"/> Control Cubicle <input checked="" type="checkbox"/> Check Valve			
		VALUE	UNITS	
4	Rated Capacity (FAD) at Rated Operating Pressure	1273	cfm	
5	Rated Operating Pressure - p ₂	12.90	psig	
6	Drive Motor Nameplate Rating	100.0	hp	
7	Blower Rated Speed	3985	rpm	
8	Performance Table ^a			
	Discharge Pressure ^c	VALUE	UNITS	
	10.0 psig	Delivered Air Flow - FAD ^d	1292	cfm
		Specific Power ^b	4.84	kW / 100 cfm
		Blower Speed	3985	rpm
	8.0 psig	Delivered Air Flow - FAD ^d	1307	cfm
		Specific Power ^b	3.97	kW / 100 cfm
		Blower Speed	3985	rpm
	6.0 psig	Delivered Air Flow - FAD ^d	1322	cfm
		Specific Power ^b	3.18	kW / 100 cfm
		Blower Speed	3985	rpm

Notes:

- a. Based on reference inlet conditions of p_{amb}= 14.7 psia, T_{amb} = 68°F, RH=36%.
- b. Specific power (kW / 100cfm.) tolerance given BL 300 table below.
- c. An 8 psig data point is required. Tolerance for discharge pressure given below
- d. Delivered air flow tolerance given by BL 300 table below.



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