

AIR BLOWER PACKAGE DATA SHEET

Positive Displacement Variable Speed Blower

MODEL DATA - Standard Conditions (US Units)

1	Manufacturer:	Gardner Denver	Date:	12/12/24	
2	Model Number:	IQHE99A,F3,12PSI,1400ICFM,RC1,ENC,VFD			
3	<input checked="" type="checkbox"/> Main Drive Motor <input type="checkbox"/> Control Cubicle <input checked="" type="checkbox"/> VFD <input type="checkbox"/> Driver Cooling System <input type="checkbox"/> Auxiliary Lubrication System <input checked="" type="checkbox"/> Gearbox / Belt Drive <input type="checkbox"/> IEEE 519 Harmonic Filter <input checked="" type="checkbox"/> Discharge Check Valve <input checked="" type="checkbox"/> Inlet Air Filter <input checked="" type="checkbox"/> No Negative Tolerance Data			VALUE	UNITS
4	Capacity (FAD) at Rated Design Pressure		1400	cfm	
5	Rated Design Pressure - p ₂		12	psig	
6	Drive Motor Nominal Rating		100	hp	
7	Blower Speed at Design Capacity		4537	rpm	
8	Maximum Operating Pressure ^d		12.5	psig	

Performance Table ^a							
	Discharge Pressure p ₂ (psig) ^b	Delivered Air Flow - FAD (cfm)					
		MIN FAD	FAD ^c	FAD ^c	FAD ^c	100% FAD	
9	12 psig	FAD ^f	352	614	876	1138	1400
		Spec. Power ^e	6.22	5.41	5.18	5.16	5.26
		Blower Speed (rpm)	1512	2268	3025	3781	4537
	10 psig	FAD ^f	367	629	891	1153	1415
		Spec. Power ^e	5.04	4.49	4.38	4.43	4.57
		Blower Speed (rpm)	1512	2268	3025	3781	4537
	8 psig	FAD ^f	383	645	908	1170	1432
		Spec. Power ^e	3.95	3.62	3.60	3.71	3.91
		Blower Speed (rpm)	1512	2268	3025	3781	4537

- 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
 - c. Intermediate points at equal spacing between 100% and Min. Flow
 - d. Data not shown
 - 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

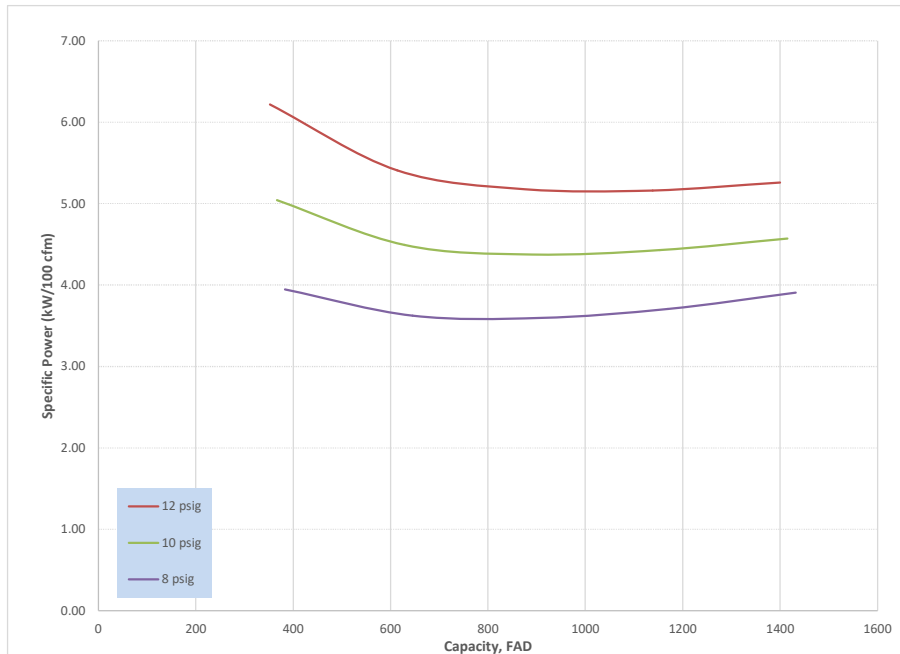


Table 2 from BL 300:	Delivered Air Flow at specified conditions		Delivered Air Flow Rate	Specific Power Consumption	Discharge Pressure
	m ³ /min	ft ³ /min	%	%	%
	Below 0.5	Below 15	+/- 7	+/- 8	-0 / +1
	0.5 to 1.5	15 to 50	+/- 6	+/- 7	-0 / +1
	1.5 to 15	50 to 500	+/- 5	+/- 6	-0 / +1
	Above 15	Above 500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

