

# 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:	IQRBF3A-12psi-1200ICFM-ENCLOSED-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 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 type="checkbox"/> No Negative Tolerance Data			VALUE	UNITS
4	Capacity (FAD) at Rated Design Pressure		1200	cfm	
5	Rated Design Pressure - p <sub>2</sub>		12	psig	
6	Drive Motor Nominal Rating		100	hp	
7	Blower Speed at Design Capacity		3450	rpm	
8	Maximum Operating Pressure <sup>d</sup>		12.5	psig	

Performance Table <sup>a</sup>							
	Discharge Pressure p <sub>2</sub> (psig) <sup>b</sup>	Delivered Air Flow - FAD (cfm)					
		MIN FAD	FAD <sup>c</sup>	FAD <sup>c</sup>	FAD <sup>c</sup>	100% FAD	
9	12 psig	FAD <sup>f</sup>	400	498	733	966	1200
		Spec. Power <sup>e</sup>	7.06	6.65	6.18	6.06	6.09
		Blower Speed (rpm)	1484	1725	2300	2875	3450
	10 psig	FAD <sup>f</sup>	282	516	750	984	1218
		Spec. Power <sup>e</sup>	6.47	5.40	5.10	5.06	5.15
		Blower Speed (rpm)	1150	1725	2300	2875	3450
	8 psig	FAD <sup>f</sup>	301	536	770	1004	1237
		Spec. Power <sup>e</sup>	4.91	4.22	4.07	4.09	4.23
		Blower Speed (rpm)	1150	1725	2300	2875	3450

- Notes:**
- a. Based on reference inlet conditions of p<sub>amb</sub>=14.7 psia, T<sub>amb</sub>=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

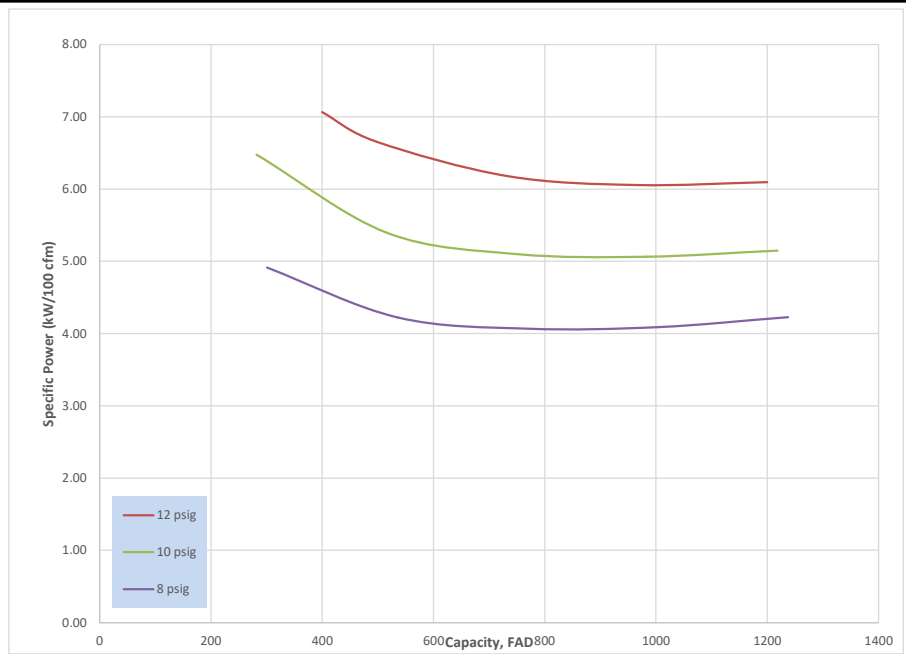


Table 2 from BL 300:	Delivered Air Flow at specified conditions		Delivered Air Flow Rate	Specific Power Consumption	Discharge Pressure
	m <sup>3</sup> /min	ft <sup>3</sup> /min	%	%	%
	Below 0.5	Below 15	+/- 7	+/- 8	-0 / +1
	0.5 to 1.5	15 to 50	+/- 6	+/- 7	-0 / +1
	1.5 to 15	50 to 500	+/- 5	+/- 6	-0 /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

