

AIR BLOWER PACKAGE DATA SHEET

Positive Displacement Variable Speed Blower

MODEL DATA - Standard Conditions (US Units)

1	Manufacturer:	Gardner Denver	Date:	03/03/26				
2	Model Number:	IQRBF3A-12 psi-900 ICFM-ENCLOSED-VFD						
3	<input checked="" type="checkbox"/> Main Drive Motor <input type="checkbox"/> Driver Cooling System <input type="checkbox"/> IEEE 519 Harmonic Filter <input type="checkbox"/> No Negative Tolerance Data			<input type="checkbox"/> Control Cubicle <input type="checkbox"/> Auxiliary Lubrication System <input checked="" type="checkbox"/> Discharge Check Valve <input checked="" type="checkbox"/> Enclosed Package		<input checked="" type="checkbox"/> VFD <input checked="" type="checkbox"/> Gearbox / Belt Drive <input checked="" type="checkbox"/> Inlet Air Filter		
			VALUE	UNITS				
4	Capacity (acfm) at Rated Design Pressure		928		acfm			
5	Rated Design Pressure - p ₂		12		psig			
6	Drive Motor Nominal Rating		75		hp			
7	Blower Speed at Design Capacity		2796		rpm			
8	Maximum Operating Pressure ^d		14		psig			
Performance Table ^a								
9	Discharge Pressure p ₂ (psig) ^b		Delivered Air Flow - acfm					
			MIN acfm	acfm ^c	acfm ^c	acfm ^c	100% acfm	
	12 psi	acfm ^f		448	571	693	812	928
		Spec. Power ^e		7.28	6.66	6.28	6.15	6.10
		Blower Speed (rpm)		1576	1881	2186	2491	2796
	10 psi	acfm ^f		206	397	584	769	949
		Spec. Power ^e		7.99	5.96	5.30	5.11	5.06
		Blower Speed (rpm)		949	1411	1872	2334	2796
	8 psi	acfm ^f		220	413	604	791	974
		Spec. Power ^e		5.92	4.57	4.14	4.04	4.06
		Blower Speed (rpm)		932	1398	1864	2330	2796

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. Data points given at equal spacing in acfm between min acfm and 100% acfm.

d. Data not shown

e. Specific power (kW /100 cfm) tolerance of +/- tolerance given by Table 5 in ISO 22484 unless "No negative tolerance" box is checked

f. Delivered air flow +/- tolerance given by Table 5 in ISO 22484 unless "No negative tolerance" box is checked. Measured at the discharge terminal point of the blower package in accordance with ISO 22484. acfm is actual cubic feet per minute at inlet conditions.

Capacity (acfm)	12 psi (kW/100 cfm)	10 psi (kW/100 cfm)	8 psi (kW/100 cfm)
200	8.00	6.00	5.92
400	7.28	5.96	4.57
600	6.66	5.30	4.14
800	6.28	5.11	4.04
1000	6.15	5.06	4.06

Table 5 in ISO 22484:	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

