

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-800 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		845	acfm			
5	Rated Design Pressure - p ₂		12	psig			
6	Drive Motor Nominal Rating		60	hp			
7	Blower Speed at Design Capacity		3550	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	199	365	528	688	845
		Spec. Power ^e	8.32	6.64	6.06	5.91	5.90
		Blower Speed (rpm)	1183	1775	2367	2958	3550
	10 psi	acfm ^f	211	377	541	702	860
		Spec. Power ^e	6.58	5.39	4.98	4.91	4.94
		Blower Speed (rpm)	1183	1775	2367	2958	3550
	8 psi	acfm ^f	225	392	556	718	878
		Spec. Power ^e	4.97	4.19	3.94	3.94	4.00
Blower Speed (rpm)		1183	1775	2367	2958	3550	

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)
199	8.32	6.58	4.97
365	6.64	5.39	4.19
528	6.06	4.98	3.94
688	5.91	4.91	3.94
845	5.90	4.94	4.00

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

