## AIR BLOWER PACKAGE DATA SHEET

1       Manufacturer:       Gardner Denver         2       Model Number:       IQHE99A,F3,12PSI,14000CFM,RCLENC,VFD         3       IP Main Drive Motor       □ Control Cubic le         3       □ Driver Cooling System       □ Auxiliary Lubrication System         □ IEEE 519 Harmonic Filter       IP Discharge Check Valve         IP No Negative Tolerance Data       IP Discharge Check Valve         4       Capacity (FAD) at Rated Design Pressure       IP Performance Table*         5       Rated Design Pressure - p2       IP Performance Table*         6       Drive Motor Nominal Rating       Performance Table*         7       Blower Speed at Design Capacity       IP Performance Table*         8       Maximum Operating Pressure 4       Performance Table*         Discharge Pressure p2 (psig)b         10 psig       FAD <sup>f</sup> 352       614       876         Spec. Power*       6.322       5.41       5.30       10       5.30       10       5.30       10       5.32       10       5.32       10       5.32       10       5.32       10       3.35       3.62       3.305         8poile       FAD <sup>f</sup> 383       645       908       908       10       1512       2268	<ul> <li>✓ VFD</li> <li>✓ Gearbox / Be</li> <li>✓ Inlet Air Filte</li> <li>✓ VALUE</li> <li>1400</li> <li>12</li> <li>100</li> <li>4537</li> <li>12.5</li> </ul>	er UNITS cfm psig hp rpm psig 100% FA 1400 5.26 4537 1415
9       Main Drive Motor       Control Cubicle         1       Driver Cooling System       Auxiliary Lubrication System         1       IEEE 519 Harmonic Filter       Ø Discharge Check Valve         Ø       No Negative Tolerance Data         4       Capacity (FAD) at Rated Design Pressure         5       Rated Design Pressure - p2         6       Drive Motor Nominal Rating         7       Blower Speed at Design Capacity         8       Maximum Operating Pressure <sup>d</sup> Performance Table <sup>a</sup> Discharge Pressure p2 (psig) <sup>b</sup> 12 psig       FAD <sup>c</sup> 3       FAD <sup>c</sup> 12 psig       FAD <sup>c</sup> 12 psig       FAD <sup>c</sup> 12 psig       FAD <sup>f</sup> 320 psig       FAD <sup>f</sup> 332 field       3025         8       Blower Speed (pm)         1512       2268         300psig       Spee. Power <sup>d</sup> 8       Spee. Power <sup>d</sup> 8       Spee. Power <sup>d</sup> 9       Spee. Power <sup>d</sup> 10 psig       Spee. Power <sup>d</sup> 12 psig       Spee. Power <sup>d</sup> 13 psig       3.62         14	<ul> <li>✓ Gearbox / Ba</li> <li>✓ Inlet Air Filte</li> <li>✓ VALUE</li> <li>1400</li> <li>12</li> <li>100</li> <li>4537</li> <li>12.5</li> </ul> - FAD (cfm) <ul> <li>FAD<sup>c</sup></li> <li>1138</li> <li>5.16</li> <li>3781</li> <li>1153</li> <li>4.43</li> </ul>	er UNITS cfm psig hp rpm psig 100% FA 1400 5.26 4537 1415
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Prive Counce Dynamic Filter  I IEEE 519 Harmonic Filter  V No Negative Tolerance Data  4 Capacity (FAD) at Rated Design Pressure  5 Rated Design Pressure - p2  6 Drive Motor Nominal Rating  7 Blower Speed at Design Capacity  8 Maximum Operating Pressured  Performance Tablea  Discharge Pressure p2 (psig)b  FADc  5 FADc  5 FADc  5 FADc  5 FADc  5 Spee. Powere  10 psig  8 Blower Speed (rpm)  10 psig  7 FADf  5 Spee. Powere  5 Spee. Powere	✓ Inlet Air Filte         VALUE         1400         12         100         4537         12.5         - FAD (cfm)         FAD°         1138         5.16         3781         1153         4.43	er UNITS cfm psig hp rpm psig 100% FA 1400 5.26 4537 1415
Image: Figure Speed at Design Pressure       Image: Discharge Check Valve         4       Capacity (FAD) at Rated Design Pressure         5       Rated Design Pressure - p:         6       Drive Motor Nominal Rating         7       Blower Speed at Design Capacity         8       Maximum Operating Pressure <sup>d</sup> Performance Table <sup>a</sup> Discharge Pressure p2 (psig) <sup>b</sup> Performance Table <sup>a</sup> 12 psig       FAD <sup>f</sup> 352       614       876         Spec. Power <sup>e</sup> 6.22       5.41       5.18         Blower Speed (rpm)       1512       2268       3025         10 psig       FAD <sup>f</sup> 367       629       891         Spec. Power <sup>e<sup>c</sup></sup> 5.04       4.49       4.38         Blower Speed (rpm)       1512       2268       3025         10 psig       FAD <sup>f</sup> 383       645       908         8 psig       Spec. Power <sup>e<sup>c</sup></sup> 3.95       3.62       3.60         8 bover Speed (rpm)       1512       2268       3025         6.00       FAD <sup>f</sup> 383       645       908         8 psig       Spec. Power <sup>e<sup>c</sup></sup> 3.95       3.62       3.60         Blower	VALUE           1400           12           100           4537           12.5           FAD (cfm)           FAD°           1138           5.16           3781           1153           4.43	UNITS cfm psig hp rpm psig 100% FA 100% FA 1400 5.26 4537 1415 4.57
4       Capacity (FAD) at Rated Design Pressure         5       Rated Design Pressure - p2         6       Drive Motor Nominal Rating         7       Blower Speed at Design Capacity         8       Maximum Operating Pressure <sup>d</sup> Performance Table <sup>a</sup> Discharge Pressure p2 (psig) <sup>b</sup> Performance Table <sup>a</sup> Delivered Air Flow         Min FAD         Page         Page         Performance Table <sup>a</sup> Delivered Air Flow         Min FAD         Performance Table <sup>a</sup> Performance Table <sup>a</sup> Delivered Air Flow         Min FAD       FAD <sup>c</sup> Performance Table <sup>a</sup> Performance Table <sup>a</sup> Delivered Air Flow         Min FAD       FAD <sup>c</sup> Performance Table <sup>a</sup> Performance Table <sup>a</sup> Delivered Air Flow         12 psig       Spec. Power <sup>c</sup> 6.22       5.41       5.18         10 psig       Spec. Power <sup>c</sup> 5.04       4.49       4.38	VALUE           1400           12           100           4537           12.5           FAD (cfm)           FAD°           1138           5.16           3781           1153           4.43	UNITS cfm psig hp rpm psig 100% FA 100% FA 1400 5.26 4537 1415 4.57
5       Rated Design Pressure - p:         6       Drive Motor Nominal Rating         7       Blower Speed at Design Capacity         8       Maximum Operating Pressure <sup>4</sup> 9       Performance Table <sup>8</sup> 12 psig       FAD <sup>f</sup> Sign Capacity         9       Performance Table <sup>8</sup> 12 psig       FAD <sup>f</sup> Sign Capacity         9       FAD <sup>f</sup> Sign Capacity         9       Performance Table <sup>8</sup> 12 psig       Performance Table <sup>8</sup> 12 psig       FAD <sup>f</sup> Sign Capacity         9       FAD <sup>f</sup> Sign Capacity         10 psig       FAD <sup>f</sup> Sign Capacity         9       FAD <sup>f</sup> Sign Capacity         10 psig       FAD <sup>f</sup> Sign Capacity         10 psig       FAD <sup>f</sup> Sign Capacity         8       Spec. Power <sup>c</sup> S.04       4.4.49       4.3.85       Gas       Gas         9       Spec. Power <sup>c</sup> 3.95 </td <td>- FAD (cfm) FAD<sup>c</sup> 1138 5.16 3781 1153 4.43</td> <td>cfm psig hp rpm psig 100% FA 1400 5.26 4537 1415 4.57</td>	- FAD (cfm) FAD <sup>c</sup> 1138 5.16 3781 1153 4.43	cfm psig hp rpm psig 100% FA 1400 5.26 4537 1415 4.57
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	- FAD (cfm) FAD° 1138 5.16 3781 1153 4.43	hp rpm psig 100% FA 1400 5.26 4537 1415 4.57
7Blower Speed at Design Capacity8Maximum Operating PressuredPerformance Table <sup>a</sup> Delivered Air FlowDischarge Pressure p2 (psig)bMaximum Operating PressurePerformance Table <sup>a</sup> Delivered Air FlowMIN FADFAD <sup>c</sup> Spec. Power <sup>e</sup> 6.225.41891Spec. Power <sup>e</sup> 6.225.41Spec. Power <sup>e</sup> 6.225.41Spec. Power <sup>e</sup> 6.225.41Spec. Power <sup>e</sup> 6.225.044.4.9A.38Blower Speed (rpm)151222683025RAD <sup>f</sup> 383645908Spec. Power <sup>e</sup> 3.953.623.623.60Blower Speed (rpm)1512226830257.00a. Based on reference inlet conditions of pamb=14.7 psia, Tamb=68°F, RH=36%5.005.005.00	+ 4537 12.5 - FAD (cfm) FAD° 1138 5.16 3781 1153 4.43	rpm psig 100% FA 1400 5.26 4537 1415 4.57
8       Maximum Operating Pressure <sup>d</sup> Performance Table <sup>a</sup> Discharge Pressure p2 (psig) <sup>b</sup>	- FAD (cfm) FAD° 1138 5.16 3781 1153 4.43	100% FA 100% FA 1400 5.26 4537 1415 4.57
9 $                                    $	- FAD (cfm) FAD° 1138 5.16 3781 1153 4.43	100% FA 1400 5.26 4537 1415 4.57
9         MIN FAD         FAD <sup>c</sup> FAD <sup>c</sup> 12 psig         FAD <sup>f</sup> 352         614         876           12 psig         Spec. Power <sup>e</sup> 6.22         5.41         5.18           Blower Speed (rpm)         1512         2268         3025           10 psig         FAD <sup>f</sup> 367         629         891           Spec. Power <sup>e</sup> 5.04         4.49         4.38           Blower Speed (rpm)         1512         2268         3025           8 psig         FAD <sup>f</sup> 383         645         908           8 psig         Spec. Power <sup>e</sup> 3.95         3.62         3.60           Blower Speed (rpm)         1512         2268         3025           FAD <sup>f</sup> 383         645         908           Spec. Power <sup>e</sup> 3.95         3.62         3.60           Blower Speed (rpm)         1512         2268         3025           A         Assed on reference inlet conditions of pamb=14.7 psia, Tamb=68 <sup>e</sup> F, RH=36 <sup>o</sup> / <sub>6.00</sub> 6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00 <td>FAD° 1138 5.16 3781 1153 4.43</td> <td>1400 5.26 4537 1415 4.57</td>	FAD° 1138 5.16 3781 1153 4.43	1400 5.26 4537 1415 4.57
9         FAD <sup>f</sup> 352         614         876           12 psig         FAD <sup>f</sup> 352         614         876           Spec. Power <sup>e</sup> 6.22         5.41         5.18           Blower Speed (rpm)         1512         2268         3025           FAD <sup>f</sup> 367         629         891           Spec. Power <sup>e</sup> 5.04         4.49         4.38           Blower Speed (rpm)         1512         2268         3025           FAD <sup>f</sup> 383         645         908           Spec. Power <sup>e</sup> 3.95         3.62         3.60           Blower Speed (rpm)         1512         2268         3025           FAD <sup>f</sup> 383         645         908           Spec. Power <sup>e</sup> 3.95         3.62         3.60           Blower Speed (rpm)         1512         2268         3025           Notes:         a. Based on reference inlet conditions of pamb=14.7 psia, Tamb=68°F, RH=36%         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00 </td <td>1138 5.16 3781 1153 4.43</td> <td>1400 5.26 4537 1415 4.57</td>	1138 5.16 3781 1153 4.43	1400 5.26 4537 1415 4.57
9         12 psig         Spec. Power <sup>e</sup> 6.22         5.41         5.18         5.00	5.16 3781 1153 4.43	5.26 4537 1415 4.57
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10 psig         Spec. Power <sup>e</sup> 5.04         4.49         4.38           Blower Speed (rpm)         1512         2268         3025           8 psig         FAD <sup>f</sup> 383         645         908           8 psig         Spec. Power <sup>e</sup> 3.95         3.62         3.60           Blower Speed (rpm)         1512         2268         3025           Notes:         a. Based on reference inlet conditions of pamb=14.7 psia, Tamb=68°F, RH=36%         6.00         <	4.43	4.57
$\frac{3 \text{pec. Fovel} & 5.04 & 4.49 & 4.38 \\ \hline \text{Blower Speed (rpm)} & 1512 & 2268 & 3025 \\ \hline \text{FAD}^{\text{f}} & 383 & 645 & 908 \\ \hline \text{Spec. Power}^{\circ} & 3.95 & 3.62 & 3.60 \\ \hline \text{Blower Speed (rpm)} & 1512 & 2268 & 3025 \\ \hline \text{Notes:} & & & & & & & & & & & & & & & & & & &$		
FAD <sup>f</sup> 383         645         908           8 psig         Spec. Power <sup>e</sup> 3.95         3.62         3.60           Blower Speed (rpm)         1512         2268         3025           Notes: a. Based on reference inlet conditions of pamb=14.7 psia, Tamb=68°F, RH=36%         7.00         6.00         6.00           b. Discharge pressure in -2 psig increments         5.00         5.00         6.00         6.00	3701	4537
8 psig     Spec. Power <sup>e</sup> 3.95     3.62     3.60       Blower Speed (rpm)     1512     2268     3025	1170	1432
Notes:     a. Based on reference inlet conditions of pamb=14.7 psia, Tamb=68°F, RH=36%     7.00       b. Discharge pressure in -2 psig increments     5.00	3.71	3.91
Notes:     7.00       a. Based on reference inlet conditions of pamb=14.7 psia, Tamb=68°F, RH=36%     6.00       b. Discharge pressure in -2 psig increments     5.00	3781	4537
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 0.00 0 200 400 600 800		1400 16
Capacity, FAD		
Table 2 from BL 300:         Delivered Air Flow at specified conditions         Delivered Air Flow Rate         Specific Power Consumption         Discharge Present	sure	Membe
m³/min ft³/min % %		
Delow 0.5         Delow 15 $7/7$ $7/8$ $-0/1$ 0.5 to 1.5         15 to 50 $+/-6$ $+/-7$ $-0/1$		Compressed Air & Ga
m³/min         ft³/min         %         %           Below 0.5         Below 15         +/- 7         +/- 8         -0/+1		Compressed A

This form was developed by the Compressed Air and Gas Institute for the use of its members. CAGI has not independently verified the reported data.

Above 500

Above 15

+/-4

+/-5

-0/+1