

# AIR BLOWER PACKAGE DATA SHEET

## Positive Displacement Variable Speed Blower

### MODEL DATA - Standard Conditions (US Units)

|                                |   |                           |          |  |                   |   |           |
|--------------------------------|---|---------------------------|----------|--|-------------------|---|-----------|
| 1                              | Manufacturer:   | Atlas Copco Compressors   | Date:    | 02/23/26   |                   |   |           |
| 2                              | Model Number:   | ZS 5 VSD G 1000 90kW      |          |  |                   |   |           |
| 3                              | <input checked="" type="checkbox"/> Main Drive Motor<br><input checked="" type="checkbox"/> Driver Cooling System<br><input type="checkbox"/> IEEE 519 Harmonic Filter<br><input type="checkbox"/> No Negative Tolerance Data |                           |          | <input checked="" type="checkbox"/> Control Cubicle<br><input checked="" type="checkbox"/> Auxiliary Lubrication System<br><input checked="" type="checkbox"/> Discharge Check Valve<br><input checked="" type="checkbox"/> Enclosed Package |                   | <input checked="" type="checkbox"/> VFD<br><input checked="" type="checkbox"/> Gearbox / Belt Drive<br><input checked="" type="checkbox"/> Inlet Air Filter |           |
|                                |   |                           | VALUE    | UNITS  |                   |   |           |
| 4                              | Capacity (acfm) at Rated Design Pressure  |                           | 2634     |  | acfm              |   |           |
| 5                              | Rated Design Pressure - p <sub>2</sub>  |                           | 12.0     |  | psig              |   |           |
| 6                              | Drive Motor Nominal Rating  |                           | 125      |  | hp                |   |           |
| 7                              | Blower Speed at Design Capacity   |                           | 3682     |  | rpm               |   |           |
| 8                              | Maximum Operating Pressure <sup>d</sup>   |                           | 17       |  | psig              |   |           |
| Performance Table <sup>a</sup> |   |                           |          |  |                   |   |           |
| 9                              | Discharge Pressure p <sub>2</sub> (psig) <sup>b</sup>   | Delivered Air Flow - acfm |          |  |                   |   |           |
|                                |   |                           | MIN acfm | acfm <sup>c</sup>  | acfm <sup>c</sup> | acfm <sup>c</sup>   | 100% acfm |
|                                | 12 psig   | acfm <sup>f</sup>         | 766      | 1233   | 1700              | 2167  | 2634      |
|                                |   | Spec. Power <sup>e</sup>  | 4.80     | 4.42   | 4.26              | 4.21  | 4.26      |
|                                |   | Blower Speed (rpm)        | 1253     | 1857   | 2463              | 3070  | 3682      |
|                                | 10 psig   | acfm <sup>f</sup>         | 774      | 1301   | 1828              | 2355  | 2888      |
|                                |   | Spec. Power <sup>e</sup>  | 4.04     | 3.76   | 3.65              | 3.65  | 3.76      |
|                                |   | Blower Speed (rpm)        | 1253     | 1936   | 2620              | 3308  | 4000      |
|                                | 8 psig  | acfm <sup>f</sup>         | 783      | 1309   | 1836              | 2362  | 2888      |
|                                |   | Spec. Power <sup>e</sup>  | 3.29     | 3.13   | 3.07              | 3.10  | 3.22      |
|                                |   | Blower Speed (rpm)        | 1253     | 1936   | 2621              | 3309  | 4000      |

**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. 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.

| Table 5 in ISO 22484: | 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            |

