

ROTARY COMPRESSOR: VARIABLE SPEED / FREQUENCY DRIVE

**MODEL DATA - FOR COMPRESSED AIR**

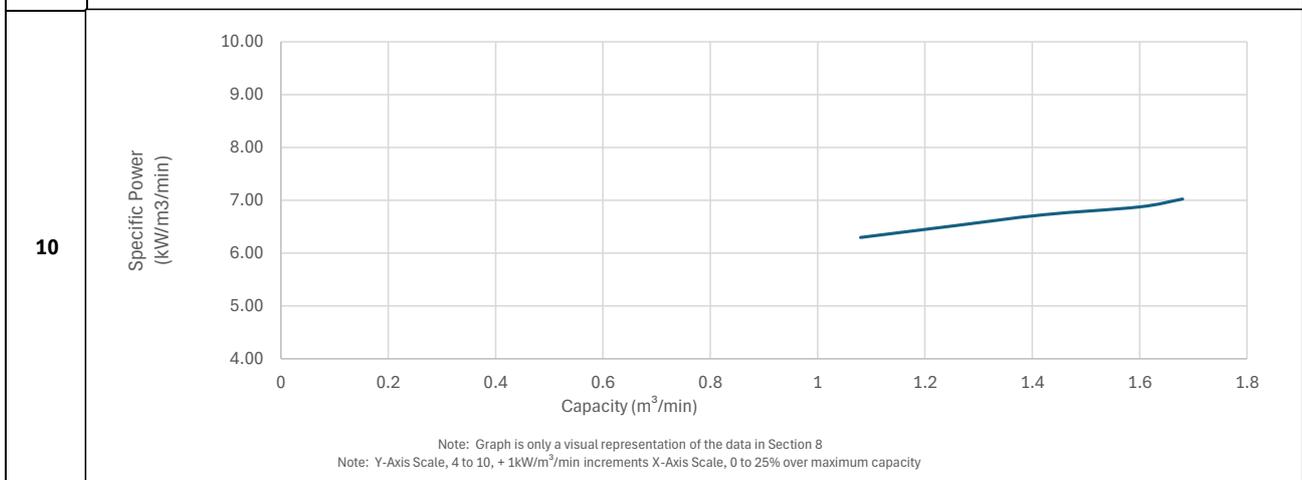
<b>1</b>	<b>Manufacturer:</b>	Ing. Enea Mattei Spa		
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<b>2</b>	<b>Model No:</b>	BLADE_12_I_400_50_XB_IE3 - 40000127	<b>Date:</b>	10/02/2026
	<b>X</b>	Air Cooled	<b>Type:</b>	Rotary Vane
		Water Cooled	<b># of Stages:</b>	1
		Other Please State:		

<b>3</b>	<b>Full Load Operating Pressure</b>	<b>7</b>	bar g
<b>4</b>	<b>Drive Motor Nominal Rating</b>	<b>11</b>	kW
<b>5</b>	<b>Drive Motor Nominal Efficiency</b>	<b>91.4</b>	% (percent)
<b>6</b>	<b>Fan Motor Nominal Rating (if applicable)</b>	<b>0.17</b>	kW
<b>7</b>	<b>Fan Motor Nominal Efficiency</b>		% (percent)

	Range	Input Power (kW)	Capacity (m <sup>3</sup> /min)	Specific Power (kW/m <sup>3</sup> /min)	Isentropic Efficiency (%)
<b>8</b>	<b>Maximum Speed 100%</b>	<b>11.80</b>	<b>1.68</b>	<b>7.02</b>	<b>67.39%</b>
		<b>11.00</b>	<b>1.6</b>	<b>6.88</b>	<b>68.85%</b>
		<b>9.55</b>	<b>1.42</b>	<b>6.73</b>	<b>70.38%</b>
		<b>8.14</b>	<b>1.25</b>	<b>6.51</b>	<b>72.68%</b>
	<b>Minimum Speed</b>	<b>6.80</b>	<b>1.08</b>	<b>6.30</b>	<b>75.17%</b>

<b>9</b>	<b>Total Package Input Power at Zero Flow</b>	<b>3.1</b>	kW
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\*For models that are tested in the BCAS Data Sheet & Verification Programme, these items are verified by the third party administrator. Consult BCAS website for a list of participants in the third party verification programme: [www.bcas.org.uk](http://www.bcas.org.uk)

**Notes:**

- a. Measured at the discharge terminal point of the compressor in accordance with ISO1217, Annex E; m<sup>3</sup>/min is cubic metres per minute at inlet conditions.
- b. The operating pressure at which the capacity (item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
- c. No Load Power in accordance with ISO1217, Annex E, if measurement of no load power equals less than 1%, manufacturer may state "not significant" or "0" on the test report.
- d. Tolerance is specified in ISO1217, Annex E, as shown in table below:
- e. The terms "power" and "energy" are synonymous for purposes of this document.

Volume Flow Rate at specified conditions	Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m <sup>3</sup> /min	%	%	%
Below 0.5	+/- 7	+/- 8	+/- 10
0.5 to 1.5	+/- 6	+/- 7	
1.5 to 15	+/- 5	+/- 6	
Above 15	+/- 4	+/- 5	