

ROTARY COMPRESSOR: VARIABLE SPEED / FREQUENCY DRIVE

MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	HPC - KAESER COMPRESSORS			
2	Model No:	DSD205SFC		Date:	16.03.2026
	X	Air Cooled		Type:	Screw
		Water Cooled		# of Stages:	1
		Other	Please State:		
3	Full Load Operating Pressure	10	bar g		
4	Drive Motor Nominal Rating	110	kW		
5	Drive Motor Nominal Efficiency	96.3	% (percent)		
6	Fan Motor Nominal Rating (if applicable)	2.2 / 0.75	kW		
7	Fan Motor Nominal Efficiency	- / 85.3	% (percent)		
8	Range	Input Power (kW)	Capacity (m ³ /min)	Specific Power (kW/m ³ /min)	Isentropic Efficiency (%)
	Maximum Speed 100%	125.00	18.3	6.83	84.03%
		113.40	16.66	6.81	84.32%
		79.90	11.41	7.00	81.96%
		57.70	7.7	7.49	76.59%
Minimum Speed	38.20	4.2	9.10	63.11%	
9	Total Package Input Power at Zero Flow	9.3	kW		
10	<p>Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 4 to 10, +1kW/m³/min increments X-Axis Scale, 0 to 25% over maximum capacity</p>				

*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

Notes:

- a. Measured at the discharge terminal point of the compressor in accordance with ISO1217, Annex E; m³/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 ³ /min	%	%	%
Below 0.5	+/- 7	+/- 8	+/- 10
0.5 to 1.5	+/- 6	+/- 7	
1.5 to 15	+/- 5	+/- 6	
Above 15	+/- 4	+/- 5	