

Technical specifications

Standard version

Model	Operating pressure bar	Flow rate ^{*)} Overall system at operating pressure m³/min	Max. working pressure bar	Drive motor rated power kW	Dimensions W x D x H mm	Compressed air connection	Sound pressure level ^{**)} dB(A)	Mass kg
FSD 475	7.5	48.20	8.5	250	3495 x 2145 x 2360	DN 150	79	6580
	10	37.63	12					
	13	29.52	15					
FSD 575	7.5	58.40	8.5	315	3495 x 2145 x 2360	DN 150	79	6750
	10	47.57	12					
	13	37.00	15					



SFC - Version with variable speed drive

Model	Operating pressure bar	Flow rate ^{*)} Overall system at operating pressure m³/min	Max. working pressure bar	Drive motor rated power kW	Dimensions W x D x H mm	Compressed air connection	Sound pressure level ^{**)} dB(A)	Mass kg
FSD 475 SFC	7.5	10.6 - 49.87	8.5	250	3740 x 2145 x 2360	DN 150	79	6930
	10	9.93 - 44.08	12					
FSD 575 SFC	7.5	13.33 - 59.83	8.5	315	3740 x 2145 x 2360	DN 150	80	7300
	10	12.9 - 50.85	12					
	13	11.55 - 45.00	15					



^{*)} Flow rate complete system as per ISO 1217: 2009 Annex C: Absolute inlet pressure 1 bar (a), cooling and air inlet temperature 20 °C
^{**)} Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, tolerance: ± 3 dB (A)

Note for water-cooled version: The technical specifications for 'Dimensions', 'Sound pressure level', and 'Mass' differ from the air-cooled version.

How it works

The rotary screw airend (3) is driven by an electric motor (4). The fluid injected primarily for cooling purposes during the compression process is separated once again from the air in the fluid separator tank (5). The integrated fan ensures cooling of the compressor package and also provides sufficient flow of cooling air through the oil cooler and compressed air aftercooler (6 and 9).

The controller ensures that the compressor produces compressed air within the set pressure limits. Safety functions protect the compressor against failure of key systems via automatic shutdown capability.

- (1) Intake filter
- (2) Intake valve
- (3) SIGMA PROFILE airend
- (4) IE4 drive motor
- (5) Fluid separator tank
- (6) Compressed air aftercooler
- (7) KAESER centrifugal separator
- (8) ECO-DRAIN condensate drain
- (9) Fluid cooler
- (10) Electronic Thermal Management
- (11) Eco fluid filter
- (12) Fluid cooler radial fan with variable speed control
- (13) Compressed air aftercooler radial fan

