



Technical data



BAVARIA TFI SEMISILENT PROFESSIONAL

maximum performance, maximum safety, absolute reliability

manufactured in BAVARIA

Technical data	
Filling capacity / delivery: This is calculated from the time required, to fill a 10 litre tank from 0 to 200 bar. The calculation is based on a barometric pressure of approx. 1013 mbar	TFI 230= 230 L/min - 13.8m³= 8.13 cfm filling time 8.69 min, TFI 270= 270 L/min - 16.2 m³= 9.53 cfm filling time 7.40 min, TFI 320= 320 L/min - 19.2 m³= 11.30 cfm filling time 6.25 min, TFI 350= 350 L/min - 21.0 m³= 12.36 cfm Filling time 5.70 min, TFI 380= 380 L/min - 22.8 m³= 13.42 cfm Filling time 5.26 min
Suction pressure, operating pressure	Atmospheric (0.5-1.2 bar), 90 to 350 bar (1305 to 5076 PSI), 420 bar (6091 PSI) version possible with surcharge
Number of stages/cylinders	3 stages
Intermediate pressure safety valves	In each compression stage
Rotate direction	Counter clockwise
Cooling, air-cooled, requires cooling air	TFI 220/1440m³/h, TFI 270/1980m³/h, TFI 320-380/2700 m³/h
Lubrication	Low-pressure oil pump (TFI 270-380 oil pump + additional splash lubrication)
Oil quantity, oil type	TFI 220-380 approx. 2 litres, special synthetic with safety data sheet
Max. permissible ambient temperature	+5°C.- +45°C (+43°F...+113°F)
Motor: Three-phase cage rotor 400 V, protection class IP 55, IE3, 2850 rpm, 50Hz/60Hz	TFI 230 4kW single-phase 230V-50 Hz or three-phase 400V/50Hz, TFI 270-320 5.5 kW three-phase 400V/ 50 HZ, TFI 350-380 7.5kW three-phase
Semi-silenced compressor cabin, frame made of folded, welded 3 mm sheet steel, panelling and closures made of folded, welded 2 mm sheet steel. Compressor frame with shock absorbers, bare block and drive decoupled with silent blocks, compressor block and drive decoupled with silent blocks	Powder-coated RAL 9005, Silent block and anti-vibration rubber-bonded metal feet 50 x 40 mm Rubber-bonded metal elements 45 x 50 mm
Compressor dimensions: L x W x H, weight, noise dbA from 1.5 m distance	110 x 72 x 90 cm, approx. 2180-210 kg, 79-83 dbA
Suction filter	Micronic Superfine
Pressure indicator	High-precision, glycerine-filled stainless steel pressure gauges, class 1.6 to 400 bar
IDE high end compressor control	Star-delta soft start, start/stop button, main switch, emergency stop button
Automatic condensate drain with two/three condensate separators and silencer	Automatic every 15-20 minutes incl. 10 litre tank
Unloader, compressor start and automatic stop at final pressure	Automatic
Pressure retention valve/ non-return valves/ final pressure valve can be vented,	Set to 120 bar/ 2 / 1 final pressure Safety valve, can be vented with type examination certificate

Model Operating pressure	Actuator	FAD	Stages	motor		Dryer system	Dimensions (cm)			Weight (cm)
350 bar-420 bar	Voltage	l/min		kW	HP	Type/ m³ @15 °C	L	W	H	kg
TFI 230 350 bar	230 V 50 HZ	230	3	4	5,5	FT 410/ 1400	110	72	90	180
TFI 230 350 bar	400 V 50/60 Hz	230	3	4	5,5	FT 410/ 1400	110	72	90	180
TFI 270 350 bar	400 V 50/60 Hz	270	3	5,5	7,5	FT 410/ 1400	110	72	90	190
TFI 320 350 bar TFI 320 420 bar	400 V 50/60 Hz	320	3	5,5	7,5	FT 810/ 2700	110	72	90	205
TFI 350 350 bar TFI 350 420 bar	400 V 50/60 Hz	350	3	7,5	10	FT 810/ 2700	110	72	90	205
TFI-T 380 350 bar TFI-T 380 420 bar	400 V 50/60 Hz	380	3	7,5	10	FT 810/ 2700	110	72	90	210

EQUIPMENT and OPTIONS for TFI	230/270	320/380
200 or 300 bar version	1	1
2 filling hoses additional hoses possible as an option	●	●
AIRSAVE PRO E Trochner cartridge saturation monitoring	O	O
Additional activated carbon adsorber to remove all oil vapours and hydrocarbons for Aisave Oil Control	O	O
Dryer system FT 410= 1000 m³ @ 20°C ; FT 410 A= 1200 m³ @ 20°C	●	O
FT 810 dryer system Surcharge for TFI 220/270 models, other larger dryer systems optionally available	O	●
Dryer system FT 810 Aisave= 2200 m³ @ 20°C ,	O	●
IDE HIGH END compressor controlAutomatic start/delta control with motor protection relay and automatic stop at final pressure	●	●
Oil pressure control	O	O
Oil level check	O	O
Pressure of the intermediate stages analogue with pressure gauges	●	●
Automatic condensate drain with 10 litre collection container	O	O
30 litre drip tray with level control and silencer	O	O
Condensate container overflow protection HMI TCC-CONTROL	O	O
Automatic purging of CO2 from the drying tower HMI TCC-Control	O	O
AIRSCRUBBER reduces the CO2 concentration in the intake air to up to 800 litres/min.	O	O
Air Hepa filter at the 300 bar outlet with fine dust separation down to 0.01 µ	O	O

● =Standard +=optional X= not possible,

Subject to technical changes.
Illustrations may contain optional extras.

www.ide.de



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