



Technical data



BAVARIA TCO SEMISILENT PROFESSIONAL

Maximum performance, maximum safety, absolute reliability.

made 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	TCO 270= 270 litres/min - 16.2 m³= 9.53 cfm Filling time 7.40 min, TCO 320= 320 L/min - 19.2 m³= 11.30 cfm Filling time 6.25 min, TCO 350= 350 L/min - 21.0 m³= 12.36 cfm Filling time 5.70 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	TCO 270/1980m³/h, TCO 320-350/2700 m³/h
Lubrication	Splash lubrication (TFI 320-350 additional low-pressure oil pump)
Oil quantity, oil type	TCO 270-350 approx. 2.6 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	TCO 270-320 5.5 kW, TCO 350-380 7.5 kW
Semi-silenced compressor cabin, frame made of folded, welded 3 mm sheet steel, panelling and closures made of folded, welded 2 mm - 4 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/ 9007, 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	90 x 110 x 155 cm, approx. 2358 250 kg, approx. 78 dbA
Suction filter	Micronic Superfine
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
350 bar-420 bar	Voltage	l/min		kW	HP	Type/ m³ @15 °C	L	W	H	kg
TCO 270 350 bar	400 V 50/60 Hz	270	3	5,5	7,5	FT 410/ 1400	110	72	90	190
TCO 320 350 bar	400 V 50/60 Hz	320	3	5,5	7,5	FT 810/ 2700	110	72	90	205
TCO 350 350 bar TCO 350 420 bar	400 V 50/60 Hz	350	3	7,5	10	FT 810/ 2700	110	72	90	205

Equipment details - Technical data	270	320-350
200 or 300 bar version	•	•
1 main air outlet for connecting an external filling ramp	•	•
Possible rocker arm filling connections with hose and holder (max. 4 pieces) per connection	o	o
AIRSAVE PRO E Monitoring the saturation of the dryer cartridge	•	•
AIRSAVEULTIMATELuft quality controlforCO ₂ (CO ₂), humidity/waterinmg/m³, temperature, dew point(integrated)	o	o
AIRSAVE ULTIMATE OIL GUARD * Residual oil and aerosols measure fixed values 0.1 or 0.5 mg/m³ in accordance with DIN EN12021	o	o
AIRSAVE ULTIMATE OIL CONTROL* Residual oil measurement up to 0.001 mg/m³ according to DIN EN12021+DIN 8573	o	o
Activated carbon adsorber to remove all oil vapours and hydrocarbons for Aisave Oil Control	o	o
FT 410 r dryer system, other larger dryer systems optionally available	•	•
Dryer system FT 810 Aisave = 2200 m³ @ 20°C , other larger dryer systems optionally available	o	o
IDE HIGH END compressor controlAutomatic star/delta control/motor protection relay and automatic stop at final pressure	•	•
HMI TCC-CONTROL, ANDROID-based CAN bus compressor control with 7" touch screen (*1)	o	o
Temperature per compressor stage, additional costs per stage/sensor HMI TCC-Control	o	o
Temperature of last compressor stage CC- CONTROL and HMI-TCC Control	o	o
Temperature silent cabin HMI TCC control	o	o
Oil temperature control HMI TCC-CONTROL	o	o
Oil pressure control CC- CONTROL and HMI TCC-Control	o	o
Oil level monitoring	•	•
Pressure of the intermediate stages HMI TCC-CONTROL per stage	o	o
Pressure of the intermediate stages analogue with pressure gauges per stage	o	o
Remote control max. 300 mtr. HMI TCC CONTROL	o	o
Communication module for sending SMS error messages to two different phone numbers	o	o
Automatic condensate drain with silencer and 5-litre collection container (automatically every 15-20 minutes)	•	•
30 litre collection container with level control and silencer	o	o
Condensate container overflow protection HMI TCC-CONTROL	o	o
Automatic purging of CO ₂ from the dryer housing HMITCC-Control	•	•
AIRSCRUBBER reduces the CO ₂ concentration in the intake air to up to - 800 L/min.	o	o
Air Hepa filter at 300 bar outlet with fine dust separation up to 1µ	o	o

• =Standard O=optional X=not possible,

Subject to technical changes.
Illustrations may contain optional extras.

www.ide.de



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