



Technical data



BAVARIA TSI-COMPACT SILENT 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 l tank from 0 to 200 bar. The calculation is based on a barometric pressure of approx. 1013 mbar	TSI-C 270= 270 L/min - 16.2 m³= 9.53 cfm Filling time 7.40 min, TSI-C 320= 320 L/min - 19.2 m³= 11.30 cfm Filling time 6.25 min, TSI-C 380= 380 L/min - 22,8 m³= 12,43cfm Filling time 5,2 min, TSI-C 450= 450 L/min - 27 m³= 15.9 cfm Filling time 4,35 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	270-320Lpm 3 cylinder, 3 stages/ 380+450Lpm 3 Cylinder 4 stages
Intermediate pressure safety valves	In each compression stage
Rotate direction	Counter clockwise
Cooling, air-cooled, requires cooling air	TSI 270/ 320 1980m³/h, TSI 380 - 450= 2700 m³/h
Lubrication	Low pressure oil pump)
Oil quantity, oil type	TSI 270-450 approx. 3.6 liters, 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	TSI 270-320 5.5 kW, TSI 380 + 450 7,5kW
Semi-silenced compressor cabin, frame made of folded, welded 3 mm sheet steel, covers 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
noise dbA from 1.5 m distance	approx. 70 dbA
Intake 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 liter tank
Unloader, compressor start and automatic stop at final pressure	Automatic
Pressure retention valve/ check 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 kg
				kW	HP		L	W	H	
350 bar-420 bar	Voltage	l/min				Type/ m³ @15 °C				kg
TSI-C 270 350 bar	400 V 50/60 Hz	270	3	5,5	7,5	FT 160/ 760	134	75	132	225
TSI -C 320 350 bar	400 V 50/60 Hz	320	3	5,5	7,5	FT 160/ 760	134	75	132	225
TSI-C 380 420 bar	400 V 50/60 Hz	380	4	7,5	10	FT 160/ 760	134	75	152	245
TSI-C 450 420 bar	400 V 50/60 Hz	450	4	7,5	10	FT 160/ 760	134	75	152	245

Equipment details - Technical data	270/320	380/450
200 or 300 bar version	•	•
2 Filling hoses DIN 300 with holder	•	•
Filling ramp with 4 stainless steel toggle lever filling connections optionally as direct connections or with hose	○	○
AIRSAVE BASIC Monitoring the saturation and service intervals of the dryer cartridge	○	○
Dryer system FT 160 = 600 m³@ 20°C	•	•
Dryer system FT 410 = 1400 m³ @ 20°C ,	○	○
AIRSAVE PRO E Monitoring the saturation of the dryer cartridge by means of a sensor in the dryer cartridge	○	○
AIRSAVE ULTIMATE Luft quality control for CO, CO2, O2, humidity/water in mg/m³, temperature, only together with IDE HMI-TCC CONTROL	○	○
AIRSAVE ULTIMATE OIL GUARD for CO, CO2, O2, humidity/water in mg/m³, temperature, and residual oil and aerosols measured up to 0.1 or 0.5 mg/m³ *	○	○
Activated carbon adsorber for removing all oil vapors and hydrocarbons for Aisave Oil Control	○	○
IDE HIGH END compressor control Automatic 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)	○	○
Temperature per compressor stage, additional costs per stage/sensor HMI TCC-Control	○	○
Temperature of last compressor stage CC- CONTROL and HMI-TCC Control	○	○
Temperature silent cabin HMI TCC control	○	○
Oil temperature control HMI TCC-CONTROL	○	○
Oil pressure control CC- CONTROL and HMI TCC-Control	○	○
Oil level monitoring	•	•
Pressure of the intermediate stages HMI TCC-CONTROL per stage	○	○
Pressure of the intermediate stages analog with pressure gauges per stage	○	○
Automatic condensate drain with silencer and 5-liter drip tray (automatically every 15-20 minutes)	•	•
30 l collection container with level control and silencer	○	○
Condensate container overflow protection HMI TCC-CONTROL	○	○
Automatic purging of CO2 from the dryer housing HMI TCC-Control	•	•
AIRSCRUBBER reduces the CO2 concentration in the intake air to up to - 800 L/min.	○	○
Air Hepa filter at 300 bar outlet with fine dust separation up to 1µ	○	○

• = Standard ○ = optional X = not possible.

*only possible together with IDE HMI-TCC Control

Subject to technical changes.
Illustrations may contain optional extras.

www.ide.de



IDE-COMPRESSORS e.K.
D-83098 Brannenburg