



technical data



BAVARIA TVCS SUPER CHARGER

maximum performance, maximum safety, absolute reliability

made in BAVARIA

Filling capacity / Delivery: This is calculated from the time that is needed to fill a 10 l tank from 0 to 200 bar. The calculation is based on a barometric pressure of approximately 1013 mbar	TVCS 600 1.180 U/Min. TVCS 600 = 600 L/Min. 36 m ³ /h, 21,19 c.f.m. TVCS 700 1.200 U/Min. TVCS 700 = 700 L/Min. 42 m ³ /h, 24,72 c.f.m. TVCS 800 1.220 U/Min. TVCS 800 = 800 L/Min. 48 m ³ /h, 28,25 c.f.m.
Suction pressure, Operating pressure	Atmospheric (0,5-1,2 bar), 90 to 420 bar (1305 to 5076 PSI), with extra charge 420 bar (6091 PSI) version possible
Nos. stages / Cylinders	4 stages
Intermediate pressure safety valves	At each compression stage
Turn direction	Counter clock wise
Cooling, needed cooling air	Air cooled ca. 3950-5400 m ³ /h
Lubrication	Low pressure oil pump, service free
Oil volume, Oil grade	6 Ltr. , Special-synthetic oil for breathing air with safety data sheet
Max. permissible ambient temperature	+5°C.— +45°C (+43°F...+113°F)
Motor: Three-phase current cage rotor 400 V, protection rating IP 55, IE3, 2850 rpm, 50Hz/60Hz	TVCS 600 + 700, 11,0 kW/400V/50Hz; TVCS 800, 15,0 kW/400V/50Hz
Compressor frame welded steel, silencer hood, side doors made of aluminum, compressor frame with vibration dampers, compressor and drive extra decoupled	Powder coated RAL 9007, Powder coated RAL 9005, Silent bloc rubber bonded metal feets 80 x 80 mm Rubber bonded metal elements 55 x 50 mm
Compressor-measures: L x W x H, Weight, Noise dbA from 1,5 m distance	1260 x 900 x 1680 mm, approx. 3856—425 kg, 68 dbA
Intake filter	Micronic Superfine
Pressure indication	Highly accurate , Stainless steel, glycerine filled gauges class 1.6 up to 600 bar
IDE high End Compressor control	Star-Delta soft start, start /stop button , main switch, Emergency -stop push button
Automatic Condensate drain with two-three condensate separators and silencer	Automatically every 15-20 minutes incl. 5 Ltr. tank
Unloader for smooth Compressor start, Auto Stop at Final Pressure	Automatically
Pressure retaining valve/ Non return valves/ Final pressure valve ventable,	Adjusted to 120 bar/ 2 / 1 endpressure safety valve, ventable with type-certificate

► Model Specification

Model Working pressure	Voltage	Capacity	Stages	rpm	Motor kW	HP	Filter	Dimensions (cm)			Weight
TVCS 600 350 bar TVCS 600 420 bar	400V 50/60 Hz	450	4	1.180	11	15	FT 410	126	90	168	385
TVCS 700 350 bar TVCS 700 420 bar	400V 50/60 Hz	550	4	1.200	11	15	FT 410	126	90	168	385
TVCS 800 350 bar TVCS 800 420 bar	400V 50/60 Hz	650	4	1.220	15	20	FT 810	126	90	168	425

Equipment and possible options TVCS- SUPER CHARGER	
Main air outlet	1
AIRSAVE PRO E, dryer cartridge saturation monitoring with early warning at 85% and shutdown at full saturation	●
AIRSAVE ULTIMATE Air quality monitoring for CO, CO ₂ , O ₂ , humidity/water in mg/m ³ , temperature	○
OIL GUARD * Residual oil monitoring including oil vapor and aerosols according to DIN EN12021:2014 + up to a limit value of 0.5 or 0.1 depending on customer requirements	○
OIL CONTROL * Residual oil measurement and monitoring down to a residual oil content of 0.001 mg/m ³ , including oil vapor and aerosols DIN EN 12021:2014 + DIN 8573	○
Additional activated carbon adsorber, eliminates all oil vapors and hydrocarbons for Airsave Oil Control	○
Dryer system TVCS 600 + 700 FT 410 = 2400m ³ , TVCS 800 2 x FT 810 Airsave = 4,800 m ³ @ 20°C	●
Drying system 2 x FT 910 Airsave = 8,000 m ³ @ 20°C (surcharge for upgrade of TFVS Twin models)	○
HMI TCC Control, state-of-the-art Android-based fully electronic CAN bus control with 7" touch screen	○
Temperature monitoring of individual compressor stages for HMI TCC Control, price per stage	○
Temperature monitoring of final compressor stages for CC Control and HMI TCC Control	○
Temperature monitoring of silent cabin for HMI TCC Control	○
Oil temperature monitoring for HMI TCCControl	○
Oil pressure monitoring for CC-Control and HMI TCC Control	○
Oil level monitoring for CC Control and HMI TCC Control	●
Working pressure monitoring Intermediate pressures of the individual stages HMI TCC CONTROL, price per stage	○
Working pressure monitoring Intermediate pressures of the individual stages with pressure gauges Price per stage	○
Automatic condensation separation with silencer and 30L collection canister (automatically every 15-20 minutes)	●
Condensate tank level monitoring for HMI TCC-CONTROL	○
Star-delta control with automatic final pressure shut-off, pressure relief, and motor protection relay	●
Automatic CO ₂ flushing of the dryer HMI TCC-Control	○
AIRSCRUBBER removes up to 800L/min of CO ₂ from the air you breathe	○
Air HEPA filter at 300 bar outlet with fine dust filtration up to 1µ	○

*only possible together with IDE HMI-TCC Control

Standard ● ○ optional available

Issue Date. 11.11. 2025 (AS)

Subject to technical changes.
Illustrations may contain optional extras.

www.ide.de



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