

VIJAČNI KOMPRESORJI 5.5-15kW Z REZERVOARJEM, SUŠILCEM IN FREKVENČNIM REGULATORJEM WK7.5TK VSD

Frequency Controlled Screw Compressor - Appendix

Stationary, fully automatic, in sound muffled compact design with 500 liters of compressed air tank, refrigeration dryer as well as before and after the filter.



WK 7.5 TK VSD - Single-stage, air-cooled, electrically driven screw compressor system with coolant injection; Frequency-controlled - Belt Drive

Screw compressor block	Performance optimized screw profile Wendel W1
Drive motor	- Induction motor: OMEGA / Watt - Motor power: 7.5 kW - Efficiency of: 86.5% - Insulation class: F - Degree of protection: IP 55 - Design: IE3 B35
Converter	Danfoss / Mitsubishi converter
Suction filter	Generously dimensioned air intake filter
Separation system	Long-term separator cartridge for constant. Coolant - residual content of 2-4 mg/m ³
Coolant	Mineral: 46 or better, filling 5 l
Lubricant circuit	TÜV certified water bowl filled with mineral oil, lubricants cooler, filter and thermal block
Cooling	- Air-cooled coolant and compressed air aftercooler - Integrated centrifugal separator with el. Condensate drain - Ambient Temperature Min./Max. +0/+45°C - Full cooling air density - Compressed air outlet temperature 10-12°C over ambient - Integrated Compact fan, 0.4 kW, 1791 m³/h
Cabinet	Integrated, degree of protection IP 54, emergency Stop, Siemens
Control and monitoring:	
Control	Logika
- Display - Display - Input - K -continuous display	- LCD Display - Symbol display of all important operating states - Via Control Panel, code protected - Plant in operation/ Standby / Load Test - Remote closing active - Automatic Restart - Final compression pressure - Final compression temperature - Operating mode: automatic, continuous optimization - Automatic mode
Pressure Sensor	Sensor
Error Messages	Symbols and/or info Short Text
Maintenance messages	Symbols and/or info Short Text
Options	- Interface for remote control - Various analogue and digital inputs and outputs - Collective fault message floating
Trim	- Temperature protected sound-absorbing hood with sound-absorbing lining - Large maintenance doors - Elastic storage unit on a stable - Sheet steel base frame
Containers	500 liters of lying, including all safety-relevant parts AD 2000

Compressed air refrigerant dryer	T-MKE 70 Power: 1140 l/min Power consumption: 0.28 kW Refrigerant: R134A Dewpoint: 3.5 °C
Air pressure line filter	T-M070 MX: filter / water separator MY: after-filter / oil filter
Options	Preheating heating
Compact unit	Length x depth x height: 800 x 2020 x 1650 mm Weight approx: 490 kg Noise level: 66 dB(A) at a distance of 1m Compressed air connection: R 3/4" Paint: White RAL 9016, gray RAL 7001
Electrical Installation	Electrical Connection: 400V/50Hz/3 phases Cable size: 5 x 2.5mm (within 15m) 25 A hedge (carrier)

All technical data are specified in accordance with the DIN ISO 1217 Appendix C.

MANUFACTURER OF THE MAIN COMPONENTS IN THE ESSENTIAL (PREFERABLY):

Compressor stage: Wendel

Air filter: Spin-on

Oil filter and separator: MAN

		WK 5,5 TK VSD			WK 7,5 TK VSD			WK 11 TK VSD			WK 15 TK VSD		
		7	10	13	7	10	13	7	10	13	7	10	13
		98	140	182	98	140	182	98	140	182	98	140	182
COMPRESSOR	Operating pressure (bar)	7	10	13	7	10	13	7	10	13	7	10	13
	Operating pressure (psi g)	98	140	182	98	140	182	98	140	182	98	140	182
	Free air delivery at max pressure (m ³ /min)	0,32-0,80	0,32-0,60	0,32-0,50	0,46-1,10	0,46-0,90	0,46-0,80	0,74-1,85	0,74-1,60	0,74-1,45	0,97-2,42	0,97-2,10	0,97-1,80
	Free air delivery at max pressure (m ³ /h) Free	48	36	30	66	54	48	111	96	87	145,2	126	108
	Free air delivery at max pressure (cfm)	28	21	17,5	38,5	31,5	28	64,8	56	50,75	84,7	73,5	63
	(kW/m ³ /h) (kW/m ³ /h) (kW/m ³ /h)	6,88	9,17	11	6,82	8,33	9,38	5,95	6,88	7,59	6,20	7,14	8,33
	Operation Oil Temperature (°C)	79			79			79			79		
	Thermostat Oil Inlet Temperature(°C)	71			71			71			71		
	Delivery Air Temperature (at 20 °C)	30			30			30			30		
	Oil Content (lt)	5			5			5			5		
AIR END	Airline Connection (G)	3/4"			3/4"			3/4"			3/4"		
	Noise level 1m distance at C.P. (dB(A))	66			66			68			68		
	Manufacturer	Wendel W 1			Wendel W 1			Wendel W 3			WENDEL W3		
	Origin	Turkey			Turkey			Turkey			Turkey		
	Airend Type	Oil Injected			Oil Injected			Oil Injected			Oil Injected		
	Rotation Speed (rpm)	5000	4000	3000	6700	5820	4840	4000	3400	2800	5000	4200	3400
	Manufacturer	VOLT/ WEG /WAT			VOLT/ WEG /WAT			VOLT/ WEG /WAT			OMEGA/WAT		
	Origin	Turkey			Turkey			Turkey			Turkey		
	Main Motor Power (kw)[hp]	5,5 [7,4]			7,5 [10,0]			11 [14,7]			15 [20]		
	Main Motor Speed (rpm)	2950			2950			2950			2950		
MAIN MOTOR	Protection Class	IP55			IP55			IP55			IP55		
	Frame Construction	B35			B35			B35			B35		
	Demurrage Current (A)(380V)	-			-			-			-		
	Frequency	50			50			50			50		
	Energy Class	Q2e			Q2e			Q2e			IE3		
	Insulation Class	F			F			F			F		
	Cooling Design	Main Motor			Main Motor			Main Motor			Main Motor		
	Cooling Fan Air Flow Condition (m3/h)	1791			1791			2,396			3500		
	Fan Static Pressure at max. Flow [Pa]	38,03			38,03			55,4			55,4		
	Fan Motor Power (kw) [hp]	-			-			-			-		
COOLING SYSTEM	Fan Motor Speed (rpm)	-			-			-			-		
	Nominal Current (A)(380V)	-			-			-			-		
	Radiator	Monoblock			Monoblock			Monoblock			Monoblock		
	Cooling Air Outlet Temp.(at 25°C)	35			35			35			35		
	Manufacturer	TURKISH			TURKISH			TURKISH			TURKISH		
	Transmission System	V Belt			V Belt			V Belt			V Belt		
	Pulley Design	2SPZ			2SPZ			3SPZ			3SPA		
O TRANSMISSION	Electric component	Siemens			Siemens			Siemens			Siemens		
	Fr+P41:AB4 frequency convertor	DANFOSS			DANFOSS			DANFOSS			DANFOSS		
	Electric supply (V)	400			400			400			400		
	Cable size (15mt.)	5x2,5mm			5x2,5mm			5x4mm			5x4mm		
	Maximum Current (A)(380V)	-			17A			26A			32		
	Load Current(A)(380V)	-			16A			24A			28		
	Unload Current(A)(380V)	-			9A			12A			13		
	Main Fuse	16A			25A			32A			40 A		
	Control Panel	Electronic			Electronic			Electronic			LOGIKA		
	Temperature switch	Electronic / Analog			Electronic / Analog			Electronic / Analog			Electronic / Analog		
AIR TANK AND DRYER	Air Tank Capacity (Integrated)	500 lt			500 lt			500 lt			500 lt		
	Air Dryer	732lt/min 0,22kw			1140lt/min 0,2 kw			1620lt/min 0,3kw			2500lt/min		
	Pressure dewpoint (°C) at ambient temp. 20°C, 30% r.h. and Refrigerant	R134A - (+3-5C)			R134A - (+3-5C)			R134A - (+3-5C)			R134A - (+3-5C)		
	Line Filter (prefilter for water)	1/2" 1600lt/min			1/2" 1600lt/min			3/4" 2500lt/min			3/4" 2500lt/min		
	Air Tank, Air Dryer and Dryer filters on the TK series, only air tank on the T serie.												
	Dimensions (W X L X H) [cm]	70 x 210 x 165			70 x 210 x 165			85 x 210 x 165			85 x 210 x 165		
	Pack Dimensions (W X L X H) [cm]	74 x 214x 180			74 x 214x 180			90x214x180			90x214x180		
	Weight [kg]	280			310			350			495		
	Panel Filter Norm	-			-			-			-		
	Moving	By Forklift /Crane			By Forklift /Crane			By Forklift /Crane			By Forklift /Crane		
CANOPY FEATURES	Isolation	Fireproof Foam			Fireproof Foam			Fireproof Foam			Fireproof Foam		
	Air Intake Kit	HF40			HF40			HF40			HF40		
	Separator Filter	Spin-on Filter			Spin-on Filter			Spin-on Filter			Spin-on Filter		
	Oil Filter	Spin-on Filter by TAMSAN			Spin-on Filter by TAMSAN			Spin-on Filter by TAMSAN			Spin-on Filter by TAMSAN		
	Air Filter	MANN type Heavy duty			MANN type Heavy duty			MANN type Heavy duty			MANN type Heavy duty		
	Working Switch	Transmitter 4-20 mA			Transmitter 4-20 mA			Transmitter 4-20 mA			Transmitter 4-20 mA		
	Safety Valve	CE Italy			CE Italy			CE Italy			CE Italy		
	Safety switch	yes			yes			yes			yes		
	Hose	135 C Teflon			135 C Teflon			135 C Teflon			135 C Teflon		
	2 years factory warranty - Guarantee supply parts for 10 years												
OTHER FEATURES	Our company reserves the right to change technical details without notice , this details can be different upon to countries.												
	Manuel controller's upgrade norm will be used for Tamtronic Controller switch DIN ISO 1217 Annex C												