

VIJAČNI KOMPRESORJI 4-15kW TK SERIJA Z REZERVOARJEM IN SUŠILCEM WK11TK

Screw Compressor System

Stationary, fully automatic, in sound muffled compact design with 270/500 liters of compressed air tank, refrigeration dryer as well as before and after the filter.



WK 11 TK - Single-stage, air-cooled, electrically driven screw compressor system with coolant injection - Belt Drive

Screw compressor block	Performance optimized screw profile Wendel W3
Drive motor	- Induction motor: OMEGA / Watt - Motor power: 11.0 kW - Efficiency of: 86.5% - Insulation class: F - Degree of protection: IP 55 - Design: IE3 B35
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 6 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, 3500 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 100 Power: 1620l/min Power consumption: 0.32 kW Refrigerant: R134A Dewpoint: 3.5 °C
Air pressure line filter	T-M0150 MX: filter / water separator MY: after-filter / oil filter
Options	Preheating heating
Compact unit	Length x depth x height: 850 x 2020 x 1650 mm Weight approx: 350 kg Noise level: 70 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 4.0mm (within 15m) 32 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 -4 TK			WK-5 TK			WK-7 TK			WK-11 TK			WK-15 TK		
Operating pressure (bar)		7	10	13	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	98	140	182
F.A.D. at max pressure (m ³ /min)		0,52	0,4	0,2	0,8	0,65	0,5	1,1	0,88	0,7	1,8	1,5	1,11	2,4	1,95	1,5
F.A.D. at max pressure (m ³ /h)		31,2	24	12	48	39	30	66	52,8	42	108	90	66,6	144	117	90
F.A.D at max pressure (cfm)		18,2	14	7	28	22,8	17,5	38,5	30,8	24,5	63	52,5	38,9	84	68,3	52,5
(kW/m ³ /h)		7,69	10	20	6,9	8,50	11	6,8	8,5	10,7	6,1	7,3	9,9	6,1	7,3	9,9
Operation Oil Temperature (C)		110			110			110			110			110		
Thermostat Oil Inlet		71			71			71			71			71		
Delivery Air Temperature (at 20 C		30			30			30			30			30		
Oil Content (lt)		5			5			5			5			5		
Airline Connection (G)		3/4"			3/4"			3/4"			3/4"			3/4"		
Noise level 1m distance at C.P.		66			66			66			70			70		
Manufacturer		WENDEL W1			WENDEL W1			WENDEL W1			WENDEL W3			WENDEL W3		
Origin		Turkey			Turkey			Turkey			Turkey			Turkey		
Airend Type		Oil Injected			Oil Injected			Oil Injected			Oil Injected			Oil Injected		
Rotation Speed (rpm)		4000	3000	2200	5000	4000	3000	6700	5820	4840	4000	3400	2800	5000	4200	3400
Manufacturer		OMEGA/WAT			OMEGA/WAT			OMEGA/WAT			OMEGA/WAT			OMEGA/WAT		
Origin		Turkey			Turkey			Turkey			Turkey			Turkey		
Main Motor Power (kw)[hp]		4 [5,3]			5,5 [7,4]			7,5 [10,0]			11 [14,7]			15 [20]		
Main Motor Speed (rpm)		2950			2950			2950			2950			2950		
Protection Class		IP55			IP55			IP55			IP55			IP55		
Frame Construction		B35			B35			B35			B35			B35		
Demurrage Current (A)(380V)		-			-			31A			45A			60		
Frequency		50			50			50			50			50		
Energy Class		IE3			IE3			IE3			IE3			IE3		
Insulation Class		F			F			F			F			F		
Cooling Design		Main Motor			Main Motor			Main Motor			Main Motor			Main Motor		
Fan Air Flow Condition [m3/h)		1791			1791			1791			3500			3500		
Fan Static Pressure at max. Flow		38,03			38,03			38,03			55,4			55,4		
Fan Motor Power (kw) [hp]		-			-			-			-			-		
Fan Motor Speed (rpm)		-			-			-			-			-		
Nominal Current (A)(380V)		-			-			-			-			-		
Radiator		Monoblock			Monoblock			Monoblock			Monoblock			Monoblock		
Cooling Air Outlet Temp.(at 25C)		35			35			35			35			35		
Manufacturer		TURKISH			TURKISH			TURKISH			TURKISH			TURKISH		
Transmission System		V Belt			V Belt			V Belt			V Belt			V Belt		
Pulley Design		2SPZ			2SPZ			2SPZ			3SPZ			3SPA		
Electric component		Siemens			Siemens			Siemens			Siemens			Siemens		
Electric supply (V)		400			400			400			400			400		
Cable size (15mt.)		5x2,5mm			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			16A			25A			32A			40 A		
Control Panel		LOGIKA			LOGIKA			LOGIKA			LOGIKA			LOGIKA		
Temperature switch		Electronic /Analog			Electronic /Analog			Electronic /Analog			Electronic /Analog			Electronic /Analog		
Air Tank Capacity (Integrated)		500 lt			500 lt			500 lt			500 lt			500 lt		
Air Dryer		732lt/min 0,22kw			732lt/min 0,22kw			1140lt/min 0,2 kw			1620lt/min 0,3kw			2500lt/min		
Pressure dewpoint [°C] at		R134A - (+3-5C)			R134A - (+3-5C)			R134A - (+3-5C)			R134A - (+3-5C)			R134A -		