

VIJAČNI KOMPRESORJI 4-132kW E SERIJA WK22 E

Screw Compressor System

Stationary, fully automatic, sound muffled in compact design.



WK 22 E - Single-stage, air-cooled, electrically driven screw compressor system with coolant injection - Belt Drive

Screw compressor block	Performance optimized screw profile Wendel W7
Drive motor	- Induction motor: OMEGA / Watt - Motor power: 22.0 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 11 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, 0.6 kW, 5500 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

Options	Preheating heating
Compact unit	Length x depth x height: 900 x 1300 x 1350 mm Weight approx: 442 kg Noise level: 68 dB(A) at a distance of 1m Compressed air connection: R 1" Paint: White RAL 9016, gray RAL 7001
Electrical Installation	Electrical Connection: 400V/50Hz/3 phases Cable size: 5 x 6.0mm (within 15m) 63 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-15 E			WK-18 E			WK-22 E		
		7	10	13	7	10	13	7	10	13
		98	140	182	98	140	182	98	140	182
COMPRESSOR TECH. DETAILS	Operating pressure (bar)	2,4	1,95	1,5	3,1	2,6	2,1	3,8	3,1	2,6
	Operating pressure [psi g]	144	117	90	186	156	126	228	186	156
	F.A.D. at max pressure (m ³ /min)	84	68,3	52,5	109	91	73,5	133	109	91
	F.A.D. at max pressure (m ³ /h)	6,25	7,7	10	5,96	7,1	8,8	5,8	7,10	8,50
	(kW/m ³ /h)									
	Operation Oil Temperature (C)	79			79			79		
	Thermostat Oil Inlet Temperature(C)	71			71			71		
	Delivery Air Temperature (at 20 C)	30			30			30		
	Oil Content (lt)	11			11			11		
	Airline Connection (G)	3/4"			1"			1"		
AIREND FEATURES	Noise level 1m distance at C.P. [dB(A)]	68			68			68		
	Manufacturer	WENDEL W3			WENDEL W7			WENDEL W7		
	Origin	Turkey			Turkey			Turkey		
	Airend Type	Oil Injected			Oil Injected			Oil Injected		
	Rotation Speed (rpm)	5500	4250	3700	3100	2600	3100	3900	3000	2700
	Manufacturer	OMEGA/WAT			OMEGA/WAT			OMEGA/WAT		
	Origin	Turkey			Turkey			Turkey		
	Main Motor Power (kw)[hp]	15 [20]			18,5 [24,8]			22 [30,1]		
	Main Motor Speed (rpm)	2950			2950			2950		
	Protection Class	IP55			IP55			IP55		
MAIN MOTOR DETAILS	Frame Construction	B35			B35			B35		
	Demurrage Current (A)[380V]	68A			75A			87A		
	Frequency	50			50			50		
	Energy Class	IE3			IE3			IE3		
	Insulation Class	F			F			F		
	Cooling Design	Main Motor			Main Motor			Main Motor		
	Fan Air Flow Condition (m3/h)	5500			5500			5500		
	Fan Static Pressure at max. Flow [Pa]	55,4			55,4			55,4		
	Fan Motor Power (kw) [hp]	-			-			-		
	Fan Motor Speed (rpm)	-			-			-		
COOLING SYSTEM	Nominal Current (A)[380V]	-			-			-		
	Radiator	Monoblock			Monoblock			Monoblock		
	Cooling Air Outlet Temp.(at 25C)	35			35			35		
	Manufacturer	TURKISH			TURKISH			TURKISH		
	Transmission System	V Belt			V Belt			V Belt		
	Pulley Design	3SPA			3SPA			3SPA		
	Electric component	Siemens			Siemens			Siemens		
	Electric supply (V)	400			400			400		
	Cable size (15mt.)	5X4mm			5X4mm			5X6mm		
TRANSMISSION SYSTEM	Maximum Current (A)[380V]	32A			37,5A			44A		
	Load Current(A)[380V]	29A			35A			41A		
	Unload Current(A)[380V]	14A			20A			24A		
	Main Fuse	40 A			50 A			63 A		
	Control Panel	LOGIKA			LOGIKA			LOGIKA		
	Temperature switch	Electronic / Analog			Electronic / Analog			Electronic / Analog		
	Air Tank Capacity (Recommended)	1000 lt			1000 lt			1000 lt		
	Air Dryer	-			-			-		
	Pressure dewpoint [°C] at ambient temp.	-			-			-		
	Line Filter (prefilter for water)	-			-			-		
CONTROL PANNEL	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]	90 x 130 x 135			90 x 130 x 135			90 x 130 x 135		
	Pack Dimensions (W X L X H) [cm]	94 x 138 x 150			94 x 138 x 150			94 x 138 x 150		
	Weight [kg]	410			430			442		
	Panel Filter Norm	EU3			EU3			EU3		
	Moving	By Forklift			By Forklift			By Forklift		
	Isolation	Fireproof Foam			Fireproof Foam			Fireproof Foam		
	Air Intake Kit	HF40			HF65			HF65		
	Seperator Filter	Spin-on Filter			Spin-on Filter			Spin-on Filter		
	Oil Filter	Spin-on Filter by			Spin-on Filter by			Spin-on Filter by		
AIR TANK AND DRYER	Air Filter	MANN type Heavy			MANN type Heavy			MANN type Heavy		
	Working Switch	Transmitter 4-20 mA			Transmitter 4-20 mA			Transmitter 4-20 mA		
	Safety Valve	CE Italy			CE Italy			CE Italy		
	Safety switch	yes			yes			yes		
	Hose	135 C Teflon			135 C Teflon			135 C Teflon		
CANOPY FEATURES	2 years factory warranty - Guarantee supply parts for 10 years									
	Our company reserves the right to change technical details without notice , this details can be different upon to c									
OTHER FEATURES										