

VIJAČNI KOMPRESORJI 5.5-132kW E VSD SERIJA S FREKVENČNIM REGULATORJEM WK15 E VSD

Frequency Controlled Screw Compressor - Appendix

Stationary, fully automatic, sound muffled in compact design.



WK 15 E 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 W3
Drive motor	- Induction motor: OMEGA / Watt - Motor power: 15.0 kW - Efficiency of: 86.5% - Insulation class: F - Degree of protection: IP 55 - Design: IE3 B35
Converter	Dan Foss / 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 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 1250 x 1220 mm Weight approx: 370 kg Noise level: 68 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) 40 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 VSD			WK 7,5 VSD			WK 11 VSD			WK 15 VSD			
Operating pressure (bar)		7	10	13	7	10	13	7	10	13	7	10	13	
Operating pressure (psig)		98	140	182	98	140	182	98	140	182	98	140	182	
COMPRESSOR TECHNICAL DETAILS COMPRESSOR TECHNICAL DETAILS	Free air delivery at max pressure (m³/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 (m³/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	64,75	56	50,75	84,7	73,5	63	
	(kW/m³/h) (kW/m³/h) (kW/m³/h)	6,88	9,17	11	6,818	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			11			
	Airline Connection (G)	3/4"			3/4"			3/4"			3/4"			
	Noise level 1m distance at C.P. [dB(A)]	66			66			69			68			
	Manufacturer	Wendel W 1			Wendel W 1			Wendel W 3			Wendel W 3			
	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	5500	4250	3700	
	AIR END FEATURES AIR END FEATURES	Manufacturer	VOLT/ WEG /WAT			VOLT/ WEG /WAT			VOLT/ WEG /WAT			VOLT/ WEG /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			
Protection Class		IP55			IP55			IP55			IP55			
Frame Construction		B35			B35			B35			B35			
Demurrage Current (A)(380V)		-			31A			45A			68A			
Frequency		50			50			50			50			
Energy Class		Q2e			Q2e			Q2e			Q2e			
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			5500			
Fan Static Pressure at max. Flow [Pa]		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				
Cooling Air Outlet Temp.(at 25C)	35			35			35			35				
Manufacturer	TURKISH			TURKISH			TURKISH			TURKISH				
Transmission System	V Belt			V Belt			V Belt			V Belt				
Pulley Design	2SP2			2SP2			3SPA			3SPA				
MAIN MOTOR DETAILS MAIN MOTOR DETAILS														
	Electric component	Siemens			Siemens			Siemens			Siemens			
	Electric supply (V)	400			400			400			400			
	Cable size (15mt.)	5x2,5mm			5x2,5mm			5x4mm			5X4mm			
	Maximum Current (A)(380V)	-			17A			26A			32A			
	Load Current(A)(380V)	-			16A			24A			29A			
	Unload Current(A)(380V)	-			9A			12A			14A			
	Main Fuse	-			25A			32A			40 A			
	Control Panel	Electronic			Electronic			Electronic			Electronic			
	Temperature switch	Electronic / Analog			Electronic / Analog			Electronic / Analog			Electronic / Analog			
	Air Tank Capacity (Recommended)	500 lt			500 lt			500 / 1000 lt			1000 lt			
	Air Dryer	-			-			-			-			
	Pressure dewpoint (°C) at ambient temp. 20°C, 30% r.h. and Refrigerant	-			-			-			-			
	Line Filter (prefilter for water)													
COOLING SYSTEM COOLING SYSTEM	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 105 x 80			70 x 105 x 80			85 x 125 x 120			90 x 130 x 135			
	Pack Dimensions (W X L X H) [cm]	74 x 110 x 90			74 x 110 x 90			90 x 130 x 125			94 x 138 x 150			
	Weight [kg]	125			135			157			410			
	Panel Filter Norm	-			-			Eu3 cartige			EU3			
	Moving	By Forklift			By Forklift			By Forklift			By Forklift			
	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			
TRANSMISSION SYSTEM TRANSMISSION SYSTEM	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 countries.													
	Manuel controller's upgrade norm will be used for Tamtronic Controller switch DIN ISO 1217 Annex C													
	CANOPY FEATURES CANOPY FEATURES													
	OTHER FEATURES OTHER FEATURES													