

VIJAČNI KOMPRESORJI 5.5-132kW E VSD SERIJA S FREKVENČNIM REGULATORJEM WK132 E VSD

Frequency Controlled Screw Compressor - Appendix

Stationary, fully automatic, sound muffled in compact design.



WK 132 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 Rotorcomp
Drive motor	<ul style="list-style-type: none"> - Induction motor: OMEGA / Watt - Motor power: 132.0 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 48 l
Lubricant circuit	TÜV certified water bowl filled with mineral oil, lubricants cooler, filter and thermal block
Cooling	<ul style="list-style-type: none"> - 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, 4.0 kW, 23670 m³/h
Cabinet	Integrated, degree of protection IP 54, emergency Stop, Siemens
Control and monitoring:	
Control	Logika <ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Interface for remote control - Various analogue and digital inputs and outputs - Collective fault message floating
Trim	<ul style="list-style-type: none"> - 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: 1600 x 2100 x 1900 mm Weight approx: 2400 kg Sound level at a distance of 1m 85 dB(A) Compressed air connection: R 2" Paint: White RAL 9016, gray RAL 7001
Electrical Installation	Electrical Connection: 400V/50Hz/3 phases Cable size: 5 x 80.0mm (max 15m) Hedging 315 A (slow)

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: Rotor comp

Air filter: Spin-on

Oil filter and separator: MAN

		WK 90 VSD			WK 110 VSD			WK 132 VSD			
Operating pressure (bar)		7	10	13	7	10	13	7	10	13	
Operating pressure [psi g]		98	140	182	98	140	182	98	140	182	
COMPRESSOR TECHNICAL DETAILS	Free air delivery at max pressure (m ³ /min)Free air delivery at max pressure (m ³ /min)Free air delivery at max pressure	6,20-15,50	6,20-13,00	6,20-11,00	7,50-18,70	7,50-16,60	7,50-13,80	8,80-22,00	8,80-18,10	8,80-15,60	
	Free air delivery at max pressure (m ³ /h)Free air delivery at max pressure (m ³ /h)Free air delivery at max pressure (m ³ /h)	930	780	660	1122	996	828	1320	1086	936	
	Free air delivery at max pressure (cfm)	542,5	455	385	654,5	581	483	770	633,5	546	
	(kW/m ³ /h) (kW/m ³ /h) (kW/m ³ /h)	5,81	6,92	8,18	5,88	6,63	7,97	6,00	7,29	8,46	
	Operation Oil Temperature (C)	80			80			80			
	Thermostat Oil Inlet Temperature(C)	71			71			71			
	Delivery Air Temperature (at 20 C)	30			30			30			
	Oil Content (lt)	48			48			48			
	Airline Connection (G)	2"			2"			2"			
	Noise level 1m distance at C.P. [dB(A)]	88			88			88			
AIR END FEATURES	Manufacturer	Rotorcomp			Rotorcomp			Rotorcomp			
	Origin	Germany			Germany			Germany			
	Air end Type	Oil Injected			Oil Injected			Oil Injected			
	Rotation Speed (rpm)	2560	2230	1800	3000	2700	2500	3000	2700	2500	
	Manufacturer	VOLT/WEG/ELEKTROMER			VOLT/WEG/ELEKTROMER			VOLT/WEG/ELEKTROMER			
	Origin	Turkey			Turkey			Turkey			
	Main Motor Power (kw)[hp]	90 [120,6]			110 [147,5]			132 [177]			
	Main Motor Speed (rpm)	1500			1500			1500			
	Protection Class	IP55			IP55			IP55			
	Frame Construction	83			83			83			
MAIN MOTOR DETAILS	Demurrage Current (A)(380V)	321A			387A			387A			
	Frequency	50			50			50			
	Energy Class	Q2e			Q2e			Q2e			
	Insulation Class	F			F			F			
	Cooling Design	Additional Cooling Fan			Additional Cooling Fan			Additional Cooling Fan			
	Cooling Fan Air Flow Condition (m3/h)	23670			23670			23670			
	Fan Static Pressure at max. Flow (Pa)	157,1			157,1			157,1			
	Fan Motor Power (kw) [hp]	4[5,36]			4[5,36]			4[5,36]			
	Fan Motor Speed (rpm)	1420			1420			1420			
	Nominal Current (A)(380V)	8,7A			8,7A			8,7A			
COOLING SYSTEM	Radiator	Monoblock			Monoblock			Monoblock			
	Cooling Air Outlet Temp.(at 25C)	35			35			35			
	Manufacturer	TURKISH			TURKISH			TURKISH			
	Transmission System	Poly V			Poly V			Poly V			
	Pulley Design	Design			Design			Design			
	Electric component	Siemens			Siemens			Siemens			
	TRANSMISSION SYSTEM	Electric supply (V)	380/400			380/400			380/400		
		Cable size (15mt.)	5x35mm			5x50mm			5x80mm		
		Maximum Current (A)(380V)	177A			209A			245A		
		Load Current(A)(380V)	165A			195A			245A		
Unload Current(A)(380V)		110A			122A			155A			
Main Fuse		200A			250A			315A			
Control Panel		Electronic			Electronic			Electronic			
Temperature switch		Electronic			Electronic			Electronic			
Air Tank Capacity (Recommended)		2000 lt /3000 lt			2000 lt /3000 lt			2000 lt /3000 lt			
Air Tank and Dryer		-			-			-			
CONTROL PANEL	Pressure dewpoint [°C] at ambient temp. 20°C, 30% r.h. and Refrigerant	-			-			-			
	Line Filter (prefilter for water)	-			-			-			
	Air Tank, Air Dryer and Dryer filters on the TK serie, only air tank on the T serie.										
	Dimensions (W X L X H) [cm]	160 x 200 x 190			160 x 200 x 190			160 x 200 x 190			
	Pack Dimensions (W X L X H) [cm]	165 x 208 x 210			165 x 208 x 210			165 x 208 x 210			
	Weight [kg]	1960			2320			2320			
	Panel Filter Norm	EU3			EU3			EU3			
	Moving	By Forklift /Crane			By Forklift /Crane			By Forklift /Crane			
	Isolation	Fireproof Foam			Fireproof Foam			Fireproof Foam			
	Air Intake Kit	HF120			HF120			HF120			
AIR TANK AND DRYER	Separator Filter	Inline Separator			Inline Separator			Inline Separator			
	Oil Filter	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			
	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			
	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										