

VIJAČNI KOMPRESORJI 5.5-132kW E VSD SERIJA S FREKVENČNIM REGULATORJEM WK110 E VSD

Frequency Controlled Screw Compressor - Appendix

Stationary, fully automatic, sound muffled in compact design.



WK 110 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	- Induction motor: OMEGA / Watt - Motor power: 110.0 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	- 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
- 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: 1600 x 2100 x 1900 mm Weight approx: 2100 kg Noise level 88 dB(A) at a distance of 1m Compressed air connection: R 2" Paint: White RAL 9016, gray RAL 7001
Electrical Installation	Electrical Connection: 400V/50Hz/3 phases Cable size: 5 x 50.0mm (max 15m) Hedging 250 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		
		7	10	13	7	10	13	7	10	13
		98	140	182	98	140	182	98	140	182
COMPRESSOR TECHNICAL DETAILS	Operating pressure (bar)									
	Operating pressure (psi g)									
	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		
AIR END FEATURES	Airline Connection (G)	2"			2"			2"		
	Noise level 1m distance at C.P. [dB(A)]	88			88			88		
	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		
MAIN MOTOR DETAILS	Protection Class	IP55			IP55			IP55		
	Frame Construction	83			83			83		
	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]		
COOLING SYSTEM SYSTEM	Fan Motor Speed (rpm)	1420			1420			1420		
	Nominal Current (A)(380V)	8,7A			8,7A			8,7A		
	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 CONTROL PANEL	Electric supply (V)	380/400			380/400			380/400		
	Cable size (15mt.)	5x35mm			5x50mm			5x80mm		
	Maximum Current (A)(380V)	177A			209A					
	Load Current(A)(380V)	165A			195A			245A		
	Unload Current(A)(380V)	110A			122A					
	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, Air Dryer and Dryer filters on the TK series, only air tank on the T serie.									
AIR TANK AND DRYER CANOPY FEATURES	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		
	Seperator 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		
OTHER FEATURES	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									