

VIJAČNI KOMPRESORJI 5.5-132kW E VSD SERIJA S FREKVENČNIM REGULATORJEM WK18 E VSD

Frequency Controlled Screw Compressor - Appendix

Stationary, fully automatic, sound muffled in compact design.



WK 18 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 W7
Drive motor	- Induction motor: OMEGA / Watt - Motor power: 18.5 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: 950 x 1250 x 1320 mm Weight approx: 475 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 4.0mm (within 15m) 50 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 18 VSD			WK 22 VSD		
		7	10	13	7	10	13
		98	140	182	98	140	182
LUMIPRESSUR TECHNICAL DETAILS TECHNICAL DETAILS	Operating pressure (bar)	7	10	13	7	10	13
	Operating pressure [psi g]	98	140	182	98	140	182
	Free air delivery at max pressure (m³ /min)Free	1,20-	1,20-	1,20-	1,44-	1,44-	1,44-
	air delivery at max pressure (m³ /min)Free air	3,01	2,50	2,20	3,80	3,10	2,60
	Free air delivery at max pressure (m³ /h) Free	180,6	150	132	228	186	156
	Free air delivery at max pressure (cfm)	105,4	87,5	77	133	108,5	91
	(kW/m³ /h) (kW/m³ /h) (kW/m³ /h)	6,15	7,40	8,41	5,79	7,10	7,10
	Operation Oil Temperature (C)	79			79		
	Thermostat Oil Inlet Temperature(C)	71			71		
	Delivery Air Temperature (at 20 C)	30			30		
AIRMENU FEATURES END	Oil Content (lt)	11			11		
	Airline Connection (G)	1"			1"		
	Noise level 1m distance at C.P. (dB(A))	68			68		
	Manufacturer	Wendel W 7			Wendel W 7		
	Origin	Turkey			Turkey		
	Airend Type	Oil Injected			Oil Injected		
	Rotation Speed (rpm)	3100	2600	3100	3900	3000	2700
	Manufacturer	VOLT/ WEG /WAT			VOLT/ WEG /WAT		
	Origin	Turkey			Turkey		
	Main Motor Power (kw)[hp]	18,5 [24,8]			22 [30,1]		
MAIN MOTOR DETAILS DETAILS	Main Motor Speed (rpm)	2950			2950		
	Protection Class	IP55			IP55		
	Frame Construction	835			835		
	Demurrage Current (A)(380V)	75A			87A		
	Frequency	50			50		
	Energy Class	I2e			Q2e		
	Insulation Class	F			F		
	Cooling Design	Main Motor			Main Motor		
	Cooling Fan Air Flow Condition (m³/h)	5500			5500		
	Fan Static Pressure at max. Flow [Pa]	55,4			55,4		
COOLING SYSTEM SYSTEM	Fan Motor Power (kw) [hp]	-			-		
	Fan Motor Speed (rpm)	-			-		
	Nominal Current (A)(380V)	-			-		
	Radiator	Monoblock			Monoblock		
	Cooling Air Outlet Temp.(at 25C)	35			35		
	Manufacturer	TURKISH			TURKISH		
	Transmission System	V Belt			V Belt		
	Pulley Design	3SPA			3SPA		
	Electric component	Siemens			Siemens		
	Electric supply (V)	400			400		
L TRANSMISSIO D N NT R	Cable size (15mt.)	5X4mm			5X6mm		
	Maximum Current (A)(380V)	37,5A			44A		
	Load Current(A)(380V)	35A			41A		
	Unload Current(A)(380V)	20A			24A		
	Main Fuse	50 A			63 A		
	Control Panel	Electronic			Electronic / Analog		
	Temperature switch	Electronic / Analog			Electronic / Analog		
	Air Tank Capacity (Recommended)	1000 lt			1000 lt		
	Air Dryer						
	Pressure dewpoint [°C] at ambient temp. 20°C, 30% r.h. and Refrigerant				-		
AIR TANK AND DRYER DRYER	Line Filter (prefilter for water)						
	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		
	Pack Dimensions (W X L X H) [cm]	94 x 138 x150			94 x 138 x150		
	Weight [kg]	430			442		
	Panel Filter Norm	EU3			EU3		
	Moving	By Forklift			By Forklift		
	Isolation	Fireproof Foam			Fireproof Foam		
	Air Intake Kit	HF65			HF65		
	Seperator Filter	Spin-on Filter			Spin-on Filter		
CANOPY FEATURES FEATURES	Oil Filter	Spin-on Filter by TAMSAN			Spin-on Filter by TAMSAN		
	Air Filter	MANN type Heavy duty			MANN type Heavy duty		
	Working Switch	Transmitter 4-20 mA			Transmitter 4-20 mA		
	Safety Valve	CE Italy			CE Italy		
	Safety switch	yes			yes		
	Hose	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 diff						
	Manuel controller's upgrade norm will be used for Tamtronic Controller switch DIN ISO 1217 Annex						