

VIJAČNI KOMPRESORJI 5.5-132kW E VSD SERIJA S FREKVENČNIM REGULATORJEM WK30 E VSD

Frequency Controlled Screw Compressor System

Stationary, fully automatic, sound muffled in compact design.



WK 30 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: 30.0 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 18 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, 1.5 kW, 7976 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: 1000 x 1370 x 1670 mm Weight approx: 610 kg Noise level: 77 dB(A) at a distance of 1m Compressed air connection: R 1¼" Paint: White RAL 9016, gray RAL 7001
Electrical Installation	Electrical Connection: 400V/50Hz/3 phases Cable size: 5 x 10.0mm (max 15m) 80 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 30 VSD			WK 37 VSD			WK 45 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)	2,00-5,20	2,20-4,40	2,20-3,40	2,40-6,00	2,40-5,30	2,40-4,50	3,20-8,10	3,20-7,10	3,20-6,01
	Free air delivery at max pressure (m ³ /h)	312	264	204	360	318	270	486	426	360,6
	Free air delivery at max pressure (cfm)	182	154	119	210	185,5	157,5	284	248,5	210,4
	(kW/m ³ /h) (kW/m ³ /h) (kW/m ³ /h)	5,77	6,82	8,82	6,17	6,98	8,22	5,56	6,34	7,49
	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)	18			18			18		
AIREND FEATURES	Airline Connection (G)	1 1/4"			1 1/4"			1 1/4"		
	Noise level 1m distance at C.P. (dB[A])	77			77			77		
	Manufacturer	Wendel W 7			Wendel W 7			Wendel W 7		
	Origin	Finland			Finland			Finland		
	Airend Type	Oil Injected			Oil Injected			Oil Injected		
	Rotation Speed (rpm)	5000	4000	3200	6000	5000	4200	6800	6000	5000
	Manufacturer	VOLT/ WEG /WAT			VOLT/ WEG /WAT			VOLT/ WEG /WAT		
	Origin	Turkey			Turkey			Turkey		
	Main Motor Power (kw)[hp]	30 [40,2]			37 [49,6]			45 [60,3]		
	Main Motor Speed (rpm)	2950			2950			2950		
MAIN MOTOR DETAILS	Protection Class	IP55			IP55			IP55		
	Frame Construction	83			83			83		
	Demurrage Current (A) (380V)	127A			145A			161A		
	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)	7976			7976			7976		
	Fan Static Pressure at max. Flow [Pa]	120			120			120		
	Fan Motor Power (kw) [hp]	1,5[2,01]			1,5[2,01]			1,5 [2,01]		
COOLING SYSTEM	Fan Motor Speed (rpm)	1500			1500			2840		
	Nominal Current (A)(380V)	2,5A			2,5A			4,9A		
	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	4SPA			4SPA			4SPA		
	Electric component	Siemens			Siemens			Siemens		
	Electric supply (V)	400			400			400		
	Cable size (15mt.)	5X10mm			5x10mm			5x16mm		
CONTROL PANEL	Maximum Current (A)(380V)	60A			73A			87A		
	Load Current(A)(380V)	56A			68A			81A		
	Unload Current(A)(380V)	31A			42A			50A		
	Main Fuse	80A			100A			125A		
	Control Panel	Electronic			Electronic			Electronic		
	Temperature switch	Electronic / Analog			Electronic / Analog			Electronic / Analog		
	Air Tank Capacity (Recommended)	2000 lt			2000 lt			2000 lt		
	Air Dryer	-			-			-		
	Pressure dewpoint (°C) at ambient temp. 20°C, 30% r.h. and Refrigerant	-			-			-		
	Line Filter (prefilter for water)	-			-			-		
AIR TANK AND DRYER FEATURES	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]	105 x 120 x 177			105 x 120 x 177			105 x 120 x 177		
	Pack Dimensions (W X L X H) [cm]	110 X 128X 192			110 X 128X 192			110 X 128 X 192		
	Weight [kg]	610			645			722		
	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	HF65			HF65			HF65		
	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 TANK AND DRYER FEATURES	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.									
	Manual controller's upgrade norm will be used for Tamtronic Controller switch DIN ISO 1217 Annex C									