

VIJAČNI KOMPRESORJI 5.5-132kW E VSD SERIJA S FREKVENČNIM REGULATORJEM WK37 E VSD

Frequency Controlled Screw Compressor System - Appendix

Stationary, fully automatic, sound muffled in compact design.



WK 37 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: 37.0 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 - Display - Display - Input - K -continuous display	Logika - 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 1300 x 1670 mm Weight approx: 630 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) 100 A (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	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 (m ³ /min)		
		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)		
		Free air delivery (cfm)			Free air delivery (cfm)			Free air delivery (cfm)		
		(kW/m ³ /h) (kW/m ³ /h) (kW/m ³ /h)			(kW/m ³ /h) (kW/m ³ /h) (kW/m ³ /h)			(kW/m ³ /h) (kW/m ³ /h) (kW/m ³ /h)		
		Operation Oil Temperature (C)			Operation Oil Temperature (C)			Operation Oil Temperature (C)		
		Thermostat Oil Inlet Temperature(C)			Thermostat Oil Inlet Temperature(C)			Thermostat Oil Inlet Temperature(C)		
		Delivery Air Temperature (at 20 C)			Delivery Air Temperature (at 20 C)			Delivery Air Temperature (at 20 C)		
		Oil Content (lt)			Oil Content (lt)			Oil Content (lt)		
AIREND FEATURES	AIREND FEATURES	Airline Connection (G)			Airline Connection (G)			Airline Connection (G)		
		Noise level 1m distance at C.P. [dB(A)]			Noise level 1m distance at C.P. [dB(A)]			Noise level 1m distance at C.P. [dB(A)]		
		Manufacturer			Manufacturer			Manufacturer		
		Origin			Origin			Origin		
MAIN MOTOR DETAILS	MAIN MOTOR DETAILS	Airend Type			Airend Type			Airend Type		
		Rotation Speed (rpm)			Rotation Speed (rpm)			Rotation Speed (rpm)		
		Manufacturer			Manufacturer			Manufacturer		
		Origin			Origin			Origin		
		Main Motor Power [kw][hp]			Main Motor Power [kw][hp]			Main Motor Power [kw][hp]		
		Main Motor Speed [rpm]			Main Motor Speed [rpm]			Main Motor Speed [rpm]		
		Protection Class			Protection Class			Protection Class		
		Frame Construction			Frame Construction			Frame Construction		
		Demurrage Current (A) (380V)			Demurrage Current (A) (380V)			Demurrage Current (A) (380V)		
		Frequency			Frequency			Frequency		
COOLING SYSTEM DETAILS	COOLING SYSTEM DETAILS	Energy Class			Energy Class			Energy Class		
		Insulation Class			Insulation Class			Insulation Class		
		Cooling Design			Cooling Design			Cooling Design		
		Cooling Fan Air Flow Condition (m3/h)			Cooling Fan Air Flow Condition (m3/h)			Cooling Fan Air Flow Condition (m3/h)		
		Fan Static Pressure at max. Flow [Pa]			Fan Static Pressure at max. Flow [Pa]			Fan Static Pressure at max. Flow [Pa]		
		Fan Motor Power [kw] [hp]			Fan Motor Power [kw] [hp]			Fan Motor Power [kw] [hp]		
		Fan Motor Speed [rpm]			Fan Motor Speed [rpm]			Fan Motor Speed [rpm]		
		Nominal Current (A)(380V)			Nominal Current (A)(380V)			Nominal Current (A)(380V)		
		Radiator			Radiator			Radiator		
		Cooling Air Outlet Temp.(at 25C)			Cooling Air Outlet Temp.(at 25C)			Cooling Air Outlet Temp.(at 25C)		
TRANSMISSION SYSTEM DETAILS	TRANSMISSION SYSTEM DETAILS	Manufacturer			Manufacturer			Manufacturer		
		Transmission System			Transmission System			Transmission System		
		Pulley Design			Pulley Design			Pulley Design		
CONTROL PANEL DETAILS	CONTROL PANEL DETAILS	Electric component			Electric component			Electric component		
		Electric supply (V)			Electric supply (V)			Electric supply (V)		
		Cable size (15mt.)			Cable size (15mt.)			Cable size (15mt.)		
		Maximum Current (A)(380V)			Maximum Current (A)(380V)			Maximum Current (A)(380V)		
		Load Current(A)(380V)			Load Current(A)(380V)			Load Current(A)(380V)		
		Unload Current(A)(380V)			Unload Current(A)(380V)			Unload Current(A)(380V)		
		Main Fuse			Main Fuse			Main Fuse		
		Control Panel			Control Panel			Control Panel		
		Temperature switch			Temperature switch			Temperature switch		
AIR TANK AND DRYER FEATURES	AIR TANK AND DRYER FEATURES	Air Tank Capacity (Recommended)			Air Tank Capacity (Recommended)			Air Tank Capacity (Recommended)		
		Air Dryer			Air Dryer			Air Dryer		
		Pressure dewpoint (°C) at ambient temp. 20°C, 30% r.h. and Refrigerant			Pressure dewpoint (°C) at ambient temp. 20°C, 30% r.h. and Refrigerant			Pressure dewpoint (°C) at ambient temp. 20°C, 30% r.h. and Refrigerant		
		Line Filter (prefilter for water)			Line Filter (prefilter for water)			Line Filter (prefilter for water)		
CANOPY FEATURES	CANOPY 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]			Dimensions (W X L X H) [cm]			Dimensions (W X L X H) [cm]		
		Pack Dimensions (W X L X H) [cm]			Pack Dimensions (W X L X H) [cm]			Pack Dimensions (W X L X H) [cm]		
		Weight [kg]			Weight [kg]			Weight [kg]		
		Panel Filter Norm			Panel Filter Norm			Panel Filter Norm		
		Moving			Moving			Moving		
		Isolation			Isolation			Isolation		
		Air Intake Kit			Air Intake Kit			Air Intake Kit		
		Seperator Filter			Seperator Filter			Seperator Filter		
		Oil Filter			Oil Filter			Oil Filter		
OTHER FEATURES	OTHER FEATURES	Air Filter			Air Filter			Air Filter		
		Working Switch			Working Switch			Working Switch		
		Safety Valve			Safety Valve			Safety Valve		
		Safety switch			Safety switch			Safety switch		
		Hose			Hose			Hose		
		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								