

VIJAČNI KOMPRESORJI 11-132kW SERVO SERIJA DIREKTNO GNANI S FREKVENČNIM REGULATORJEM WK30 SERVO

Frequency Controlled Screw Compressor System

Stationary, fully automatic, sound muffled in compact design.



WK 30 SERVO - Single-stage, air-cooled, electrically driven screw compressor system with coolant injection; Frequency-controlled - Directly drive

Screw compressor block	Performance optimized screw profile Wendel W7
Drive motor	- Induction motor: Tamsan - Engine power: 30.0 kW drive motor - Efficiency: 96.5% - Insulation class: F - Degree of protection: IP 55 - Design: IE4 B35
Converter	Dann 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 16 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 1350 x 1900 mm Weight approx.: 700 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 SERVO			WK-37 SERVO		
		6	7	10	6	7	10
		84	98	140	84	98	140
COMPRESSOR TECHNICAL DETAILS	Operating pressure (bar)						
	Operating pressure [psi g]						
	Free air delivery at max pressure (m ³ /min)	1,30-5,70	1,30-5,43	1,30-4,40	1,60-7,20	1,60-6,71	1,60-5,43
	Free air delivery at max pressure (m ³ /h)	342	325,8	264	432	402,6	325,8
	Free air delivery at max pressure (cfm)	201	192	155	254	237	192
	(kW/m ³ /m)	5,26	5,52	6,82	5,14	5,51	6,81
	Operation Oil Temperature (C)		78-82			78-82	
	Thermostat Oil Inlet Temperature(C)		71			71	
	Delivery Air Temperature (at 20 C)		30			30	
	Oil Content (lt)		16			16	
AIREND FEATURES	Airline Connection (G)		1 1/4"			1 1/4"	
	Noise level 1m distance at C.P. [dB(A)]		77			77	
	Manufacturer		WENDEL			WENDEL	
	Airend Type		Oil Injected			Oil Injected	
	Rotation Speed (rpm)	3200	3000	2450	3400	3200	2650
			30			37	
	Manufacturer						
	Origin						
	Main Motor Power (kw)[hp]		30 [40,2]			37 [49,6]	
	Main Motor Speed (rpm)						
MAIN MOTOR DETAILS	Protection Class		IP23			IP23	
	Frame Construction		B35			B35	
	Demurrage Current (A) (380V)						
	Frequency		50-60			50-60	
	Energy Class		IE4			IE4	
	Motor Bearing		NO BEARING			NO BEARING	
	Insulation Class		F			F	
	Cooling Design		AXIAL FAN			AXIAL FAN	
	Cooling Fan Air Flow Condition [m3/h]		7976			7976	
	Fan Static Pressure at max. Flow [Pa]		112			112	
COOLING SYSTEM	Fan Motor Power (kw) [hp]		1,5[2,01]			1,5[2,01]	
	Fan Motor Speed (rpm)		1450			1450	
	Nominal Current (A)(380V)		3			3	
	Radiator		Monoblock			Monoblock	
	Cooling Air Outlet Temp.(at 25C)		35			35	
	Manufacturer						
	Transmission System		Direct Drive by shaft connection.				
	Pulley Design		no coupling				
	Electric component		DANFOSS/Mitsubishi			DANFOSS/Mitsubishi	
TRANSMISSION SYSTEM	Electric supply (V)		380/400			380/400	
	Cable size (15mt.)						
	Maximum Current (A)(380V)						
	Load Current(A)(380V)		56A			68A	
	Unload Current(A)(380V)						
	Main Fuse		80A			100A	
	Control Panel		Tamtronic /Logika			Tamtronic /Logika	
	Temperature switch		Digital / Analog			Digital / Analog	
	Air Tank Capacity (Recommended)		1000 lt			1000 lt	
	Air Dryer		-			-	
CONTROL PANEL	Pressure dewpoint [°C] at ambient temp. 20°C, 30%		-			-	
	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]						
	Pack Dimensions (W X L X H) [cm]						
	Weight [kg]						
	Panel Filter Norm		EU3			EU3	
	Moving		By Forklift / Crane			By Forklift /Crane	
	Isolation		Fireproof Foam			Fireproof Foam	
	Air Intake Kit		Tamsan HF 65 NC			Tamsan HF 65 NC	
AIR TANK AND DRYER	Separator Filter		Inline			Inline	
	Oil Filter		Spin-on Filter			Spin-on Filter	
	Air Filter		MANN type Heavy duty			MANN type Heavy duty	
	Working Switch		4-20 mA transmitter			4-20 mA transmitter	
	Safety Valve		CE Italy			CE Italy	
	Min.Pressure Valve /Check Valve		Tamsan			Tamsan	
CANOPY FEATURES							
OTHER FEATURES							
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.							
All technical Datas in DIN ISO 1217 Annex C							