

VIJAČNI KOMPRESORJI 11-132kW SERVO SERIJA DIREKTNO GNANI S FREKVENČNIM REGULATORJEM WK110 SERVO

Frequency Controlled Screw Compressor - Appendix

Stationary, fully automatic, sound muffled in compact design.



WK 110 SERVO - Single-stage, air-cooled, electrically driven screw compressor system with coolant injection; Frequency-controlled - Directly drive

Screw compressor block	Performance optimized screw profile RotorComp
Drive motor	- Induction motor: Tamsan - Engine power: 110.0 kW - 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/m³
Coolant	Mineral: 46 or better, filling 55 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 2200 x 1900 mm Weight approx.: 2250 kg Sound level at a distance of 1m 85 dB(A) 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 250A (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 SERVO			WK 110 SERVO			WK 132 SERVO		
		6	7	10	6	7	10	6	7	10
		84	98	140	84	98	140	84	98	140
COMPRESSOR TECHNICAL DETAILS	Operating pressure (bar)	4,15-20,10	4,15-16,50	4,15-13,50	5,05-22,00	5,05-20,40	5,05-16,50	6,01-25,30	6,01-24,10	6,01-20,10
	Operating pressure [psi g]	1206	990	810	1320	1224	990	1518	1446	1206
	Free air delivery at max pressure (cfm)	710	583	477	777	720	583	893	851	710
	(kW/m ³ /m)	4,48	5,45	6,67	5,00	5,39	6,67	5,22	5,48	6,57
	Operation Oil Temperature (C)	110			110			110		
	Thermostat Oil Inlet Temperature(C)	71			71			71		
	Delivery Air Temperature (at 20 C)	40			40			40		
	Oil Content (lt)	55			55			55		
	Airline Connection (G)	2"			2"			2"		
	Noise level 1m distance at C.P. [dB(A)]	85			85			85		
AIREN FEATU	Manufacturer				WENDEL			WENDEL		
	Airend Type	Oil Injected			Oil Injected			Oil Injected		
MAIN MOTOR DETAILS	Rotation Speed (rpm)	2600	2230		3100	2600		3200	2700	
		90			110			132		
	Manufacturer									
	Origin									
	Main Motor Power (kw)[hp]	90 [120,6]			110 [147,5]			132 [177,0]		
	Main Motor Speed (rpm)	-			-			-		
	Protection Class	IP23			IP23			IP23		
	Frame Construction	B35			B35			B35		
	Demurrage Current (A)(380V)									
	Frequency	50-60			50-60			50-60		
COOLING SYSTEM	Energy Class	IE4			IE4			IE4		
	Motor Bearing	NO BEARING			NO BEARING			NO BEARING		
	Insulation Class	F			F			F		
	Cooling Design	AXIAL FAN			AXIAL FAN			AXIAL 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]		
	Fan Motor Speed (rpm)	1420			1420			1420		
	Nominal Current (A)(380V)	8,7A			8,7A			8,7A		
	Radiator	Monoblock			Monoblock			Monoblock		
TRANSMISSION CONTROL PANEL	Cooling Air Outlet Temp.(at 25C)	40			40			40		
	Manufacturer									
	Transmission System	Direct Drive by shaft connection.								
	Pulley Design	no coupling								
	Electric component	DANFOSS/Mitsubishi			DANFOSS/Mitsubishi			DANFOSS/Mitsubishi		
	Electric supply (V)	380/400			380/400			380/400		
	Cable size (15mt.)									
	Maximum Current (A)(380V)									
	Load Current(A)(380V)	165A			195A			245		
AIR TANK AND CANOPY FEATURES	Unload Current(A)(380V)									
	Main Fuse	200A			250A			315A		
	Control Panel	Tamtronic /Logika			Tamtronic /Logika			Tamtronic /Logika		
	Temperature switch	Digital / Analog			Digital / Analog			Digital / Analog		
	Air Tank Capacity (Recommended)	2000			2000 lt /3000 lt			2000 lt / 3000 lt		
	Air Dryer	-			-			-		
	Pressure dewpoint [°C] at ambient	-			-			-		
	Line Filter (prefilter for water)	-			-			-		
	OTHER 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]										
Pack Dimensions (W X L X H) [cm]										
Weight [kg]										
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		Tamsan HF 120 NC			Tamsan HF 120 NC			Tamsan HF 120 NC		
Separator Filter		Inline			Inline			Inline		
Oil Filter		Spin-on Filter			Spin-on Filter			Spin-on Filter		
Air Filter	MANN type Heavy duty			MANN type Heavy duty			MANN type Heavy duty			
Working Switch	4-20 mA transmitter			4-20 mA transmitter			4-20 mA transmitter			
Safety Valve	CE Italy			CE Italy			CE Italy			
Min.Pressure Valve /Check Valve	Tamsan			Tamsan			Tamsan			
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										