

VIJAČNI KOMPRESORJI 11-132kW SERVO SERIJA DIREKTNO GNANI S FREKVENČNIM REGULATORJEM WK22 SERVO

Frequency - Screw Compressor System

Stationary, fully automatic, sound muffled in compact design.



WK 22 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	<ul style="list-style-type: none"> - Induction motor: Tamsan - Engine power: 22.0 kW drive motor - Efficiency of 97.5% - Insulation class: F - Degree of protection: IP 23 - 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 11 l
Lubricant circuit	TÜV certified water bowl filled with mineral oil, lubricants cooler, filter and thermal block
Cooling	<ul style="list-style-type: none"> - 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, 6000 m³/h
Cabinet	Integrated, degree of protection IP 54, emergency Stop, Siemens
Control and monitoring:	
Control	Logika 26 s
<ul style="list-style-type: none"> - Display - Display - Input - K -continuous display 	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Interface for remote control - Various analogue and digital inputs and outputs - Collective fault message floating
Trim	<ul style="list-style-type: none"> - 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: 900 x 1300 x 1350 mm Weight: 485 kg Noise level 66 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 6.0mm (within 15m) 63 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-11 SERVO			WK-15 SERVO			WK-22 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)									
	Operating pressure (psi g)									
	Free air delivery at max pressure (m ³ /min)	0,45-1,90	0,45-1,80	0,45-1,50	0,61-2,60	0,61-2,45	0,45-1,90	0,91-4,07	0,91-3,91	0,91-3,20
	Free air delivery at max pressure (m ³ /h)	114	108	90	156	147	114	244,2	234,6	192
	Free air delivery at max pressure (cfm)	67	64	53	92	87	67	144	138	113
	(kW/m ³ /m)	5,79	6,11	7,33	5,77	6,12	7,89	5,41	5,63	6,88
	Operation Oil Temperature (C)	78-82			78-82			78-82		
	Thermostat Oil Inlet Temperature(C)	71			71			71		
	Delivery Air Temperature (at 20 C)	30			30			30		
	Oil Content (lt)	10			10			10		
Airline Connection (G)	3/4"			3/4"			1"			
Noise level 1m distance at C.P. (dB(A))	66			66			66			
Manufacturer	WENDEL			WENDEL			WENDEL			
Airend Type	Oil Injected			Oil Injected			Oil Injected			
Rotation Speed (rpm)	3000	2800	2400	3000	2800	2400	3400	3300	2700	
KW	11			15			22			
Manufacturer										
Origin										
Main Motor Power (kw)[hp]	11 [15]			15 [20]			22 [30,1]			
Main Motor Speed (rpm)	3000			3000			3000			
Protection Class	IP23			IP23			IP23			
Frame Construction	B35			B35			B35			
Demurrage Current (A)(380V)	-			-			-			
Frequency	50-60			50-60			50-60			
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)	6000			6000			6000			
Fan Static Pressure at max. Flow (Pa)	112			112			112			
Fan Motor Power (kw) [hp]	1,5			1,5			1,5			
Fan Motor Speed (rpm)	3000			3000			3000			
Nominal Current (A)(380V)	2			2			2			
Radiator	Monoblock			Monoblock			Monoblock			
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)	29A			29A			41A			
Unload Current(A)(380V)										
Main Fuse	40 A			40 A			63 A			
Control Panel	Tamtronic /Logika			Tamtronic /Logika			Tamtronic /Logika			
Temperature switch	Digital / Analog			Digital / Analog			Digital / Analog			
Air Tank Capacity (Recommended)	1000 lt			1000 lt			1000 lt			
Air Dryer	-			-			-			
Pressure dewpoint [°C] at ambient temp. 20°C,	-			-			-			
Line Filter (prefilter for water)	-			-			-			
<i>Air Tank, Air Dryer and Dryer filters on the TK series, only air tank on the T serie.</i>										
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 40 NC			Tamsan HF 40 NC			Tamsan HF 65 NC			
Seperator Filter	Spin-on Filter			Spin-on Filter			Spin-on Filter			
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