

VIJAČNI KOMPRESORJI 18-315kW DD SERIJA DIREKTNO GNANI S FREKVENČNIM REGULATORJEM WK37 DD VSD

Frequency Controlled Screw Compressor - Appendix

Stationary, fully automatic, sound muffled in compact design.



WK 37 DD VSD - 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: 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	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 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 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 DD VSD		WK 37 DD VSD	
TECHNICAL DETAILS COMPRESSOR	Operating pressure (bar)	7	10	7	10
	Operating pressure [psi g]	98	140	98	140
	Free air delivery at max pressure (m ³ /min)	2,5-6,3	2,0-5,2	-	2,5-6,3
	Free air delivery at max pressure (m ³ /h)	151-378	120-312	-	151-378
	Free air delivery at max pressure (cfm)	87,5-220,5	70-182	-	87,5-220,5
	(kW/m ³ /h) 50 hz	4,76	5,77	-	5,87
	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)	25	25	-	25
Airline Connection (G)	1 1/4"		1 1/4"		
Noise level 1m distance at C.P. [dB(A)]	71	69	71		
AIREND FEATURES	Manufacturer	TAMSAN12/TAMSANTV 8		TAMSAN TV12	
	Origin	Turkey		Turkey	
	Airend Type	Oil Injected		Oil Injected	
MAIN MOTOR DETAILS	Rotation Speed (rpm)	3000	3000		3000
	Manufacturer	OMEGA/ WAT		OMEGA/WAT	
	Origin	Turkey		Turkey	
	Main Motor Power (kw)[hp]	30 [49,6]		37[60]	
	Main Motor Speed (rpm)	2950		2950	
	Protection Class	IP55		IP55	
	Frame Construction	B35		B35	
	Starting Current (A) (380V)	-		-	
	Frequency	50-60		50-60	
	Energy Class	IE3		IE3	
COOLING SYSTEM	Insulation Class	F		F	
	Cooling Design	Additional Cooling Fan		Additional Cooling Fan	
	Cooling Fan Air Flow Condition (m3/h)	5860		5861	
	Fan Static Pressure at max. Flow [Pa]	151		151	
	Fan Motor Power (kw) [hp]	0,73		0,73	
	Fan Motor Speed (rpm)	1500		1500	
	Nominal Current (A)(380V)	1,41		1,41	
	Radiator	Monoblock		Monoblock	
	Cooling Air Outlet Temp.(at 25C)	35		35	
Transmission	Transmission System	Direct Drive		Direct Drive	
	Manufacturer	TAMSAN		TAMSAN	
	Design	HRC		HRC	
		-		-	
CONTROL PANEL					
	Electric component	Siemens		Siemens	
	Electric supply (V)	400		400	
	Cable size (15mt.)	4X16mm		3x25mm+16	
	Maximum Current (A)(380V)	74		88	
	Load Current(A)(380V)	69		82	
	Unload Current(A)(380V)	30		32	
	Frequency convertor	Danfoss/Mitsubishi		Danfoss/Mitsubishi	
	Control Panel	Electronic		Electronic	
	Temperature switch	Electronic / Analog		Electronic / Analog	
CANOPY FEATURES	Air Tank Capacity (Recommended)	2000 lt		2000 lt	
	Dimensions (W X L X H) [cm]	1000*1565*1600		1000*1565*1600	
	Pack Dimensions (W X L X H) [cm]	1100*1700*1850		1100*1700*1850	
	Weight [kg]	800		900	
	Panel Filter Norm	EU3		EU3	
	Moving	By Forklift / Crane		By Forklift /Crane	
	Isolation	Fireproof Foam		Fireproof Foam	
	Air Inteke Kit	HJ65		HJ65	
	Seperator Filter	Inline Separator		Inline Separator	
	Oil Filter	Spin-on Filter by TAMSAN		Spin-on Filter by TAMSAN	
OTHER FEATURES	Air Filter	Heavy duty		Heavy duty	
	Working Switch	Transmitter 4-20 mA		Transmitter 4-20 mA	
	Safety Valve	CE Italy		CE Italy	
	Safety switch	yes		yes	
	Hose	135 C Teflon		135 C Teflon	
		2 years factory warranty - Guarantee supply parts for 10 years			
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