

VIJAČNI KOMPRESORJI 18-315kW DD SERIJA DIREKTNO GNANI S FREKVENČNIM REGULATORJEM WK18 DD VSD

Frequency Controlled Screw Compressor - Appendix

Stationary, fully automatic, sound muffled in compact design.



WK 18 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	<ul style="list-style-type: none"> - Induction motor: OMEGA / Watt - Motor power: 18.5 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 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, 0.6 kW, 6300 m³/h
Cabinet	Integrated, degree of protection IP 54, emergency Stop, Siemens
Control and monitoring:	
Control	<p>Logika</p> <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: 950 x 1250 x 1320 mm Weight approx: 475 kg Noise level 68 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 4.0mm (within 15m) 50 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 18 DD VSD		WK 22 DD VSD	
		7	10	7	10
		98	140	98	140
TECHNICAL DETAILS COMPRESSOR	Operating pressure (bar)				
	Operating pressure [psi g]				
	Free air delivery at min-max pressure (m ³ /min)	1,21-3,1	1,01-2,80	1,21-3,8	1,10-3,60
	Free air delivery at min-max pressure (m ³ /h)	72,6	186	72,6	186
	Free air delivery at max pressure (cfm)	42,8-108,50	42,8-98,00	42,35-133,00	38,5-126,00
	(kW/m ³ /min) 50 hz	5,96	6,60	5,78	6,11
	Operation Oil Temperature (C)	79		79	
	Thermostat Oil Inlet Temperature(C)	71		71	
	Delivery Air Temperature (at 20 C)	30		30	
	Oil Content (lt)	18		18	
Airline Connection (G)	1"		1"		
Noise level 1m distance at C.P. [dB(A)]	73		72		
Manufacturer	TV7		TV7		
Origin	Turkey		Turkey		
Airend Type	Oil Injected		Oil Injected		
Rotation Speed (rpm)	1300-3000		1300-3000		
Manufacturer	OMEGA/ WAT		OMEGA/WAT		
Origin	Turkey		Turkey		
Main Motor Power (kw)[hp]	18,5 kw(25HP)		22KW(30 HP)		
Main Motor Speed (rpm)	1300-2950		1300-2950		
Protection Class	IP55		IP55		
Frame Construction	B35		B35		
Starting Current (A) (380V)					
Frequency Hz	50-60		50-60		
Energy Class	IE3		IE3		
Insulation Class	F		F		
Cooling Design	Main motor		Main motor		
Cooling Fan Air Flow Condition [m3/h]	6300		6300		
Fan Static Pressure at max. Flow [Pa]	100		100		
Fan Motor Power (kw) [hp]					
Fan Motor Speed (rpm)	-		-		
Nominal Current (A)(380V)	-		-		
Radiator	Monoblock		Monoblock		
Cooling Air Outlet Temp.(at 25C)	35		35		
Transmission System	Direct Drive		Direct Drive		
Manufacturer	Tamsan		Tamsan		
Design	HRC		HRC		
Dew point	-		-		
Electric component	Siemens		Siemens		
Electric supply (V)	400		400		
Cable size (15mt.)	4X6mm		4X10mm		
Maximum Current (A)(380V)	40		45		
Load Current(A)(380V)	38		41		
Unload Current(A)(380V)	12		15		
Frequency convertor	Danfoss/Mitsubishi		Danfoss/Mitsubishi		
Control Panel	Electronic		Electronic		
Temperature switch	Electronic		Electronic		
Air Tank Capacity (Recommended)	1000 lt		1000 lt		
Dimensions (W X L X H) [cm]			850X1500X1400		
Pack Dimensions (W X L X H) [cm]			900 X1600X1600		
Weight [kg]	440		450		
Panel Filter Norm	EU3		EU3		
Moving	By Forklift / Crane		By Forklift /Crane		
Isolation	Fireproof Foam		Fireproof Foam		
Air Intake Kit	HF65		HF65		
Separator Filter	Spin on Separator		Spin on Separator		
Oil Filter	Spin-on Filter by TAMSAN		Spin-on Filter by TAMSAN		
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					
Our company reserves the right to change technical details without notice , this details can be different upon to count					
Manuel controller's upgrade norm will be used for Tamtronic Controller switch DIN ISO 1217 Annex C					