

VIJAČNI KOMPRESORJI 18-315kW DD SERIJA DIREKTNO GNANI WK18 DD

Screw Compressor System

Stationary, fully automatic, sound muffled in compact design.



WK 18 DD - Single-stage, air-cooled, electrically driven screw compressor system with coolant injection - Directly drive

Screw compressor block	Performance optimized screw profile Wendel W7
Drive motor	- Induction motor: OMEGA / Watt - Motor power: 18.5 kW - Efficiency of: 86.5% - Insulation class: F - Degree of protection: IP 55 - Design: IE3 B35
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	- 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	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: 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 18,5 DD		WK 22 DD	
		7	10	7	10
		98	140	98	140
TECHNICAL DETAILS COMPRESSOR	Operating pressure (bar)				
	Operating pressure [psi g]				
	Free air delivery at max pressure (m ³ /min)	3,01	-	-	3
	Free air delivery at max pressure (m ³ /h)	180,6			180
	Free air delivery at max pressure (cfm)	105,4			105
AIR END FEATURES	(kW/m ³ /h) 50 hz	5,80			6,90
	Operation Oil Temperature (C)	79			79
	Thermostat Oil Inlet Temperature(C)	71			71
	Delivery Air Temperature (at 20 C)	30			30
MAIN MOTOR DETAILS	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
COOLING SYSTEM	Airend Type	Oil Injected			Oil Injected
	Rotation Speed (rpm)	3000			3000
	Manufacturer	OMEGA/WAT			OMEGA/WAT
	Origin	Turkey			Turkey
	Main Motor Power (kw)[hp]	18,5 kw(25HP)			22KW(30 HP)
DRIVER	Main Motor Speed (rpm)	2950			2950
	Protection Class	IP55			IP55
	Frame Construction	B35			B35
	Demurrage Current (A) (380V)	75			90
	Frequency	50-60			50-60
CONTROL PANEL	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
CANOPY FEATURES	Fan Motor Power (kw) [hp]	0,73			0,73
	Fan Motor Speed (rpm)	-			-
	Nominal Current (A)(380V)	-			-
	Radiator	Monoblock			Monoblock
	Cooling Air Outlet Temp.(at 25C)	35			35
OTHER FEATURES	Manufacturer	China			China
	Transmission System	Direct Drive			Direct Drive
	Manufacturer	Tamsan			Tamsan
	Design	HRC			HRC
		-			-
OTHER FEATURES	Dew point	-			-
	Electric component	Siemens			Siemens
	Electric supply (V)	400			400
	Cable size (15mt.)	4X6mm			4X10mm
	Maximum Current (A)(380V)	40			45
OTHER FEATURES	Load Current(A)(380V)	38			41
	Unload Current(A)(380V)	12			15
	Main Fuse				
	Control Panel	Electronic			Electronic
	Temperature switch	Electronic /			Electronic / Analog
OTHER FEATURES	Air Tank Capacity (Recommended)	2000 lt			2000 lt
	Dimensions (W X L X H) [cm]	850X1500X1400			850X1500X1400
	Pack Dimensions (W X L X H) [cm]	900 X1600X1600			900 X1600X1600
	Weight [kg]	440			450
	Panel Filter Norm	EU3			EU3
OTHER FEATURES	Moving	By Forklift / Crane			By Forklift /Crane
	Isolation	Fireproof Foam			Fireproof Foam
	Air Intake Kit	HF65			HF65
	Seperator Filter	Spin on Seperator			Spin on Seperator
	Oil Filter	Spin-on Filter by			Spin-on Filter by TAMSAN
OTHER FEATURES	Air Filter	Heavy duty			Heavy duty
	Working Switch	Transmitter 4-20			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 differe					
Manuel controller's upgrade norm will be used for Tamtronic Controller switch					