

VIJAČNI KOMPRESORJI 18-315kW DD SERIJA DIREKTNO GNANI WK315 DD

Frequency Controlled Screw Air Compressor - Appendix

Stationary, fully automatic, sound muffled in compact design.



WK 315 DD - Single-stage, air-cooled, electrically driven screw compressor system with coolant injection - Directly drive

Screw compressor block	Performance optimized screw profile Gardner Denver
Drive motor	- Induction motor: OMEGA / Watt - Motor power: 315.0 kW - Efficiency of: 94.5% - 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 120 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, 46000 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: 3250 x 2250 x 2440 mm Weight: 6000 kg Noise level 88 dB(A) at a distance of 1m Compressed air connection: DN 100 Paint: White RAL 9016, gray RAL 7001
Electrical Installation	Electrical Connection: 400V/50Hz/3 phases Cable size: 5 x 120.0mm (max 15m) Hedging 315A (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

Oil filter and separator: MAN

WK 315 DD			
L	Operating pressure (bar)	7	10
		98	140
COMPRESSOR TECHNICAL	Free air delivery at max pressure (m ³ /min)	52,70	46,70
	Free air delivery at max pressure (m ³ /h)	3162	2802
FEATURES	Free air delivery at max pressure (cfm)	1844,5	1634,5
	(kW/m ³ /h)	6,74	
MAIN MOTOR DETAILS	Operation Oil Temperature (C)	80	
	Thermostat Oil Inlet Temperature(C)	71	
COOLING SYSTEM	Delivery Air Temperature (at 20 C)	30	
	Oil Content (lt)	120	
TRANSMISSION SYSTEM	Airline Connection (G)	DN100	
	Noise level 1m distance at C.P. [dB(A)]	88	
CONTR	Manufacturer	Wendel Kompressoren	
	Origin	Turkey	
AIR TANK AND	Airend Type	Oil Injected	
	Rotation Speed (rpm)	3000	
CANOPY FEATURES	Manufacturer	TURKISH	
	Origin	Turkey	
OTHER FEATURES	Main Motor Power (kw)[hp]	315/420	
	Main Motor Speed (rpm)	3000	
	Protection Class	IP55	
	Frame Construction	B35	
	Demurrage Current (A)(380V)		
	Frequency	50	
	Energy Class	IE2/IE3	
	Insulation Class	F	
	Cooling Design	Additional Cooling Fan	
	Cooling Fan Air Flow Condition [m3/h]	46000	
	Fan Static Pressure at max. Flow [Pa]	157,1	
	Fan Motor Power (kw) [hp]	4kwX2	
	Fan Motor Speed (rpm)	1420	
	Nominal Current (A)(380V)	8,7AX2	
	Radiator	Aluminium Monoblock	
	Cooling Air Outlet Temp.(at 25C)	35	
	Manufacturer	TURKISH	
	Transmission System	Direct coupling	
	Pulley Design	--	
	Electric component (INVERTOR)		
	Electric supply (V)	380/400	
	Cable size (15mt.)		
	Maximum Current (A)(380V)		
	Load Current(A)(380V)		
	Unload Current(A)(380V)		
	Main Fuse		
	Control Panel	Electronic	
	Temperature switch	Electronic	
	Air Tank Capacity (Recommended)	10000	
	Air Dryer	-	
	Pressure dewpoint [°C] at ambient temp. 20°C, 30%r.h. and	-	
	Line Filter (prefilter for water)	-	
	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	
	Moving	By Forklift / Crane	
	Isolation	Fireproof Foam	
	Air Intake Kit	Normally Closed	
	Seperator Filter	Inline Seperator	
	Oil Filter	Spin-on Filter by TAMSAN	
	Air Filter	MANN type Heavy duty	
	Working Switch	Transmitter 4-20 mA	
	Safety Valve	CE Italy	
	Safety switch	yes	
	Hose	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		