

VIJAČNI KOMPRESORJI 18-315kW DD SERIJA DIREKTNO GNANI WK45 DD

Screw Compressor System

Stationary, fully automatic, sound muffled in compact design.



WK 45 DD - Single-stage, air-cooled, electrically driven screw compressor system with coolant injection - Directly drive

Screw compressor block	Performance optimized screw profile Wendel F 12
Drive motor	<ul style="list-style-type: none"> - Induction motor: OMEGA / Watt - Motor power: 45.0 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 30 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, 2.2 kW, 12000 m³/h
Cabinet	Integrated, degree of protection IP 54, emergency Stop, Siemens
Control and monitoring:	
Control <ul style="list-style-type: none"> - Display - Display - Input - K -continuous display 	Logika <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: 1300 x 1550 x 1750 mm Weight approx: 1200 kg Sound level at a distance of 1m 85 dB(A) Compressed air connection: R 1 ½" Paint: White RAL 9016, gray RAL 7001
Electrical Installation	Electrical Connection: 400V/50Hz/3 phases Cable size: 5 x 16.0mm (max 15m) Hedging 125A (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: Wendel

Air filter: Spin-on

Oil filter and separator: MAN

		WK 30 DD		WK 37 DD		WK 45 DD	
Operating pressure (bar)		7	10	7	10	7	10
Operating pressure [psi g]		98	140	98	140	98	140
TECHNICAL DETAILS COMPRESSOR	Free air delivery at max pressure (m ³ /min)	5,2		6,3	5,2	-	6,3
	Free air delivery at max pressure (m ³ /h)	312		378	312		378
	Free air delivery at max pressure (cfm)	182		220,5	182		220,5
	(kW/m ³ /h) 50 hz	6,17		6,10	6,90		7,26
	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)	18		18			18
	Airline Connection (G)	1 1/4"		1 1/4"			1 1/4"
	Noise level 1m distance at C.P. [dB(A)]	71		73			72
AIREND FEATURES	Manufacturer	WENDEL W8		W12/ W8		W12	
	Origin	Turkey		Turkey		Turkey	
	Airend Type	Oil Injected		Oil Injected		Oil Injected	
MAIN MOTOR DETAILS	Rotation Speed (rpm)	3000		3000	3000	3000	3000
	Manufacturer	OMEGA/ WAT		OMEGA/ WAT		OMEGA/ WAT	
	Origin	Turkey		Turkey		Turkey	
	Main Motor Power (kw)[hp]	30 KW		37 KW		45 KW	
	Main Motor Speed (rpm)	2950		2950		2950	
	Protection Class	IP55		IP55		IP55	
	Frame Construction	B35		B35		B35	
	Demurrage Current (A) (380V)	120		150		180	
	Frequency	50-60		50-60		50-60	
	Energy Class	IE3		IE3		IE3	
COOLING SYSTEM	Insulation Class	F		F		F	
	Cooling Design	Additional		Additional Cooling Fan		Additional Cooling Fan	
	Cooling Fan Air Flow Condition [m3/h]	5860		5860		5861	
	Fan Static Pressure at max. Flow [Pa]	151		151		151	
	Fan Motor Power (kw) [hp]	0,73		0,73		0,73	
	Fan Motor Speed (rpm)	1500		1500		1500	
	Nominal Current (A)(380V)	1,41		1,41		1,41	
	Radiator	Monoblock		Monoblock		Monoblock	
	Cooling Air Outlet Temp.(at 25C)	35		35		35	
	Manufacturer	China		China		China	
Transmission	Transmission System	Direct Drive		Direct Drive		Direct Drive	
	Manufacturer	SKF/Wendel		SKF/Wendel		SKF/Wendel	
	Design	HRC		HRC		HRC	
CONTROL PANEL	Electric component	Siemens		Siemens		Siemens	
	Electric supply (V)	400		400		400	
	Cable size (15mt.)	4X16mm		4X16mm		3x25mm+16	
	Maximum Current (A)(380V)	60		74		88	
	Load Current(A)(380V)	58		72		84	
	Unload Current(A)(380V)	20A		31A		38	
	Main Fuse						
CANOPY FEATURES	Control Panel	Electronic		Electronic		Electronic	
	Temperature switch	Electronic /		Electronic /		Electronic /	
	Air Tank Capacity (Recommended)	2000 lt		2000 lt		2000 lt	
	Dimensions (W X L X H) [cm]	1000*1565*160		1000*1565*1600		1000*1565*1600	
	Pack Dimensions (W X L X H) [cm]	1100*1700*185		1100*1700*1850		1100*1700*1850	
	Weight [kg]	700		800		900	
	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	HJ65		HJ65		HJ65	
OTHER FEATURES	Separator Filter	Inline Separator		Inline Separator		Inline Separator	
	Oil Filter	Spin-on Filter by		Spin-on Filter by TAMSAN		Spin-on Filter by TAMSAN	
	Air Filter	Heavy duty		Heavy duty		Heavy duty	
	Working Switch	Transmitter 4-20		Transmitter 4-20 mA		Transmitter 4-20 mA	
	Safety Valve	CE Italy		CE Italy		CE Italy	
	Safety switch	yes		yes		yes	
	Hose	135 C Teflon		135 C Teflon		135 C Teflon	
2 years factory warranty - Guarantee supply parts for 10 years							

nt upon Our company reserves the right to change technical details without notice , this details can be different upon to countries.

Manual controller's upgrade norm will be used for Tamtronic Controller switch DIN ISO 1217 Annex C