

# DALGAKIRAN



## WAVE SERIES HIGH PRESSURE RECIPROCATING AIR COMPRESSORS



### STANDARD EQUIPMENT

High quality components such as IP55 electric motors with the IE3 efficiency class, star-delta motor starter system, electrical materials selected according to IEC, UL/cUL, CE standards as per the market requirements, durable compressor blocks are provided as standart in all our products.



### RELIABILITY

Wave series high pressure reciprocating compressors taking advancing the DKK series which were developed in order to be used in all applications requiring high pressure especially in the maritime sector where Dalgakiran has shown a keen interest and served from the day of its establishment until today.



## MAIN MOTOR AND DRIVE SYSTEM

- High efficiency 400V/3 phase/50Hz IE3 IP55 electric motor
- Special loadless start system and automatic discharge system for loadless start



## COMPRESSOR BLOCK

- Cast iron cylinder with cooling fins and special aluminium alloy cylinder heads
- Specially designed high-speed stainless steel concentric valves.
- Cast iron crankcases with high strength
- Dynamically-balanced cast steel crankshaft and counterweight
- Special alloy aluminium pistons and steel cast connecting rods
- Specially designed finger-type, high-capacity stainless steel suction-discharge valves
- Stainless steel suction-discharge valves, specially designed for high pressure strength



## CONTROLLER\*

- Internal phase protection relay function
- Function for monitoring the mains voltage and frequency and keeping these at specified limits
- Multiple compressor control with up to 8 compressors without requiring an external main controller
- ModBus communication feature
- Alarm History Record for the last 9 alarms



\*Only on Pet Plus and Wave reciprocating models with high pressure



## WAVE SERIES

### High Pressure Reciprocating Air Compressors

DALGAKIRAN proudly introduces new generation Wave of high pressure reciprocating compressors taking advancing the DKK series, which were developed in order to be used in all applications requiring high pressure, especially in the maritime sector, where Dalgakiran has shown a keen interest and served from the day of its establishment until today.

#### MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled with the elastic coupling
- Star delta motor starting system



#### COOLING SYSTEM

- 4-stage radiator (3 stage for air, 1 stage for oil cooling)
- Pre-cooling with concentric valves with cooling fins
- Cooling fan directly connected to the main motor

#### LUBRICATION SYSTEM

- Lubrication of the pistons and pins is performed by the integrated oil pump driven by the main motor.

#### ELECTRICAL SYSTEM

- Flexible operation with multiple user controlled parameters (such as input, output air pressure, temperature, maksimum operating pressure, maksimum oil pressure, maximum operating temperature)
- PLC based control and system monitoring with digital display panel



## CONDENSATE DISCHARGE SYSTEM

- Condensation water in the radiator is trapped by the integrated water separator and then it is removed from the system at certain intervals by the solenoid valves.

## CABINET DESIGN

- The lightweight and durable composite cabinet improves cooling performance, protects the upper heads from impact, and prevent the operator from touching moving and hot equipment.

## OPTIONS

- High pressure air dryer
- High pressure air tank made of CE certified P265GH pressurized container steel
- Air filtering system with oil trap
- Food grade oil option
- Main motor with IE4 efficiency class
- Soft Starter



## TECHNICAL DATA

MODEL	PRESSURE				SUCTION CAPACITY		MOTOR SPEED rpm	VOLTAGE FREQUENCY V/Hz	MOTOR POWER kW/HP	AIR CONNECTION	DIMENSIONS mm			WEIGHT kg	NOISE LEVEL dB(A)
	Maximum		Minimum		l/min	SCFM					Width	Length	Height		
	bar	PSI	bar	PSI											
W 64	40	580	12	174	1077	38,1	1500	380-415/50	11/15	1"	1300	1100	1030	411	80
					1293	45,7	1800	440-460/60	13/18						
W 108	40	580	12	174	1807	63,8	1500	380-415/50	15/20	1"	1300	1100	1030	421	81
					2168	76,6	1800	440-460/60	22/30						
W 166	40	580	12	174	2767	97,7	1500	380-415/50	30/40	1"	1580	1175	1100	630	83
					3321	117,3	1800	440-460/60	36/48						
W 210	40	580	12	174	3526	124,6	1500	380-415/50	37/50	1"	1640	1175	1100	680	84
					4232	149,5	1800	440-460/60	44/59						

\* DALGAKIRAN compressors reserves the right to make changes on its products without prior notice.

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