

GENERAL FEATURES



% 100 OIL FREE

DALGAKIRAN Eagle Series 2 Stage Dry Screw oil-free compressors maintain 100 % oil-free air for industries which require clean and oil-free compressed air.



TECHNOLOGY

Special coated rotors “No Teflon wear”, reliable airend design with timing gears, special bearings and seals. “No maintenance for diaphragm and balancing pistons”, Efficient special air cooling design, Simple and easy to maintenance machine lay-out, Latest technology PLC controllers with remote communication and start/stop capability.



PLC CONTROLLER

- Multi-operation function up to 5 compressors without requiring an external main controller
- Thanks to the automatic motor bearing lubrication system, the motor is never lubricated too much, too little or too late.
- Weekly scheduler with the ability to start and stop the machine at 3 different time periods, which can be set individually for each day of the week.
- Ability to do both pressure and temperature PID at the same time thanks to the Dual PID feature.
- With the pressure PID, it provides energy efficiency by keeping the pressure constant at the desired value.
- All inverter and compressor control data are managed from a single point in models with an inverter.
- Internal ModBus communication



STANDARD FEATURES

- Sound insulated canopy
- Electrostatic powder coated components for high corrosion resistance
- Electric motor protection for preventing over loading
- F Class 50 Hz IE4 motors
- Two stage air-end
- Air or water cooled system alternatives
- Pre-cooling system for Air cooled machines, entirely stainless steel exchanger parts for water cooled machines.
- Variable speed drive or fixed speed drive alternatives



OTHER OPTIONS

- Automatic greasing system



EAGLE SERIES

Oil Free Rotary Screw Compressors



Completely oil-free compressed air according to ISO 8573-1 Class- ZERO. Compressors tested and approved by TUV Rheinland Germany.

- High performance compliant with ISO 1217, Annex C/E
- Direct-Drive driving system with efficient IE4 class electric motor and flexible coupling
- Proven reliability



- Easy to service, durable, powerful hydraulic actuated suction loader
- Water separator for both of stages
- Minimized level of maintenance and running costs by trouble free production cycle



AIR END

- **Totally oil free air**

Very reliable and field proved sealing arrangement ensures separation oil free area from the oil needed for lubrication of gears and bearings

- **Robust design reliable in operation under the most difficult condition**

Working in dusty, wet, cold and hot environment possible

- **Bearing arrangement guarantees long life without vibrations**

The radial forces are compensated by cylindrical roller bearings, the axial forces are compensated by four-point bearings arranged on the discharge side.

- **High engineered gear driven Design**

The gear box is equipped with helical bullgear running in an anti-friction bearing. Rotors are dynamically balanced ensuring excellent running properties of the screw airends



- **Special coating for long term high efficiency**

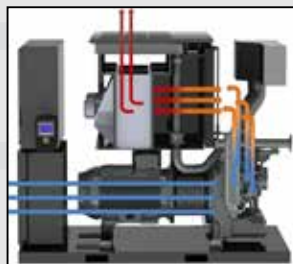
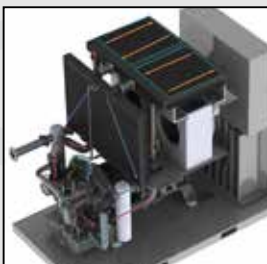
Excellent Coating of rotors and inner part of housing allows reduction of clearances to levels minimum and increases efficiency.

- **Stainless steel rotors in the HP-stage**

Elimination damage through corrosion and rusting after longer shutdown times.

COOLING

- Two stage cooling system with pre-cooler
- Stainless steel fin & tube pre-cooler
- Aluminum bar & plate after cooler
- Efficient design concept
- Easy to maintenance & cleaning
- Mashable panel filter



TECHNICAL DATA

Model	Pressure		Capacity		Motor Power kW/HP	Dimensions (mm)			Weight kg
	bar	psi	m ³ /min	cfm		Length	Width	Height	
EAGLE 37 W	7	100	6,00	211,9	37/50	2450	1600	2160	2285
	8,5	125	5,30	187,2					
	10	145	4,80	169,5					
EAGLE 45 W	7	100	7,50	264,9	45/60	2450	1600	2160	2460
	8,5	125	6,50	229,6					
	10	145	5,90	208,4					
EAGLE 55 W	7	100	9,40	332,0	55/75	2450	1600	2160	2610
	8,5	125	8,60	303,8					
	10	145	7,50	264,9					
EAGLE 75 W	7	100	12,70	448,6	75/100	2450	1600	2160	2850
	8,5	125	11,80	416,8					
	10	145	10,20	360,3					
EAGLE 90 W	8,5	125	12,70	448,6	90/125	2450	1600	2160	2940
	10	145	12,60	445,0					
EAGLE 90 B W	7	100	15,54	548,9	90/125	3085	1825	2200	3900
	8,5	125	13,20	466,2					
	10	145	13,00	459,2					
EAGLE 110 W	7	100	19,50	688,7	110/150	3085	1825	2200	4000
	8,5	125	17,70	625,2					
	10	145	15,50	547,5					
EAGLE 132 W	7	100	22,30	787,6	132/180	3085	1825	2200	4150
	8,5	125	20,90	738,2					
	10	145	19,40	685,2					
EAGLE 160 W	7	100	25,40	897,1	160/220	3085	1825	2200	4400
	8,5	125	25,40	897,1					
	10	145	24,00	847,7					
EAGLE 185 W	7	100	28,00	989,0	185/250	3085	1825	2200	4400
	8,5	125	28,00	989,0					
	10	145	28,00	989,0					
EAGLE 200 W	7	100	36,50	1289,2	200/270	3465	2140	2450	6100
	8,5	125	34,00	1200,9					
	10	145	31,60	1116,1					
EAGLE 250 W	7	100	44,30	1564,7	250/340	3465	2140	2450	6350
	8,5	125	40,50	1430,5					
	10	145	36,40	1285,6					
EAGLE 315 W	7	100	50,10	1769,5	315/430	3465	2140	2450	6500
	8,5	125	48,70	1720,1					
	10	145	44,20	1561,1					

1. Refers to free air delivery measured according to ISO 1217:2009, Annex C standard. DALGAKIRAN reserves its rights to make changes in its products and specifications without prior notice.

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			m ³ /min		cfm			Length	Width	Height	
	bar	psi	min	max	min	max					
EAGLE 55 W VSD	7	100	3,4	9,1	120,1	321,4	55/75	2450	1600	2160	2675
	8,5	125	3,4	8,3	120,1	293,2					
	10	145	3,4	7,0	120,1	247,2					
EAGLE 75 W VSD	7	100	3,4	12,1	120,1	427,4	75/100	2450	1600	2160	2935
	8,5	125	3,4	11,3	120,1	399,1					
	10	145	3,4	10,6	120,1	374,4					
EAGLE 90 W VSD	7	100	3,4	14,5	120,1	512,1	90/125	2450	1600	2160	3025
	8,5	125	3,4	13,6	120,1	480,4					
	10	145	3,4	13,2	120,1	466,2					
EAGLE 110 W VSD	7	100	10,0	19,7	353,2	695,8	110/150	3085	1825	2200	4350
	8,5	125	10,0	18,2	353,2	642,8					
	10	145	10,0	17,0	353,2	600,4					
EAGLE 132 W VSD	7	100	10,40	22,2	367,3	784,1	132/180	3085	1825	2200	4400
	8,5	125	10,30	21,0	363,8	741,7					
	10	145	10,30	19,6	363,8	692,3					
EAGLE 160 W VSD	7	100	10,00	26,9	353,2	950,1	160/220	3085	1825	2200	4200
	8,5	125	9,80	25,5	346,1	900,7					
	10	145	9,80	23,5	346,1	830,0					
EAGLE 185 W VSD	7	100	10,30	29,5	363,8	1041,9	185/250	3085	1825	2200	4850
	8,5	125	10,20	28,1	360,3	992,5					
	10	145	10,10	26,4	356,7	932,4					
EAGLE 200 W VSD	7	100	18,20	35,0	642,8	1236,2	200/270	3465	2140	2450	6550
	8,5	125	18,00	31,4	635,8	1109,0					
	10	145	17,90	28,5	632,2	1006,6					
EAGLE 250 W VSD	7	100	17,30	44,5	611,0	1571,7	250/340	3465	2140	2450	6700
	8,5	125	17,20	41,2	607,5	1455,2					
	10	145	17,00	37,7	600,4	1331,6					
EAGLE 315 W VSD	7	100	17,50	48,8	618,1	1723,6	315/430	3465	2140	2450	6900
	8,5	125	17,40	46,6	614,6	1645,9					
	10	145	17,30	44,9	611,0	1585,9					

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EAGLE 200	7	100	36,50	1289,2	200/270	3685	2140	2715	5900
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EAGLE 250	7	100	44,30	1564,7	250/340	3685	2140	2715	6100
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EAGLE 315	7	100	50,10	1769,5	315/430	3685	2140	2715	6300
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