



EAGLE SERIES

OIL FREE ROTARY SCREW COMPRESSORS



DALGAKIRAN
COMPRESSED AIR TECHNOLOGIES

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
- Heat Recovery System





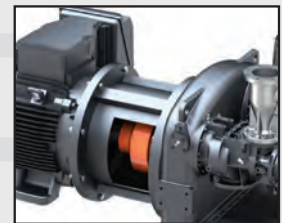
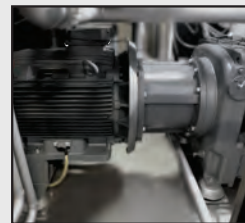
EAGLE SERIES

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**

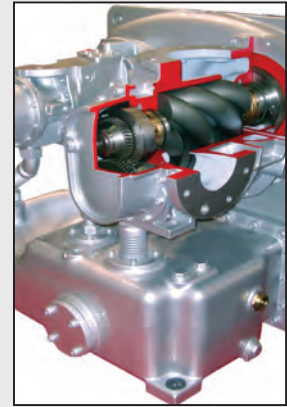
Working in dusty, wet, cold and hot environment possible

- **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**

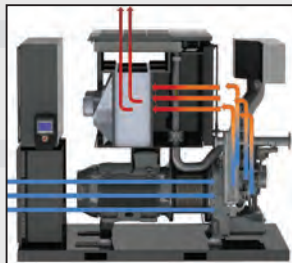
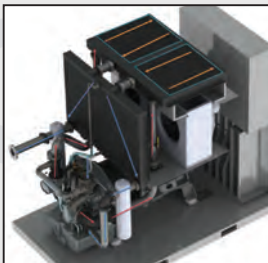
Excellent Coating of rotors and inner part of housing allows reduction of clearances to levels minimum and increases efficiency.

- **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
- Mahable panel filter



TECHNICAL DATA

Model	Pressure		Capacity		Motor Power kW/HP	Connection Size	Dimensions (mm) Air Cooled / Water cooled			Weight kg	Noise dB(A)
	bar	psi	m ³ /min	cfm			Length	Width	Height		
EAGLE 37	7	100	6,00	211,9	37/50	G 2"	2450	1600	2160	2270/2285	76
	8,5	125	5,30	187,2							
	10	145	4,80	169,5							
EAGLE 45	7	100	7,50	264,9	45/60	G 2"	2450	1600	2160	2450/2460	76
	8,5	125	6,50	229,6							
	10	145	5,90	208,4							
EAGLE 55	7	100	9,40	332,0	55/75	G 2"	2450	1600	2160	2600/2610	77
	8,5	125	8,60	303,8							
	10	145	7,50	264,9							
EAGLE 75	7	100	12,70	448,6	75/100	G 2"	2450	1600	2160	2860/2850	77
	8,5	125	11,80	416,8							
	10	145	10,20	360,3							
EAGLE 90	8,5	125	12,70	448,6	90/125	G 2"	2450	1600	2160	2950/2940	78
	10	145	12,60	445,0							
EAGLE 90 B	7	100	15,54	548,9	90/125	DN80	3085	1825	2450/2200	3650/3900	80
	8,5	125	13,20	466,2							
	10	145	13,00	459,2							
EAGLE 110	7	100	19,50	688,7	110/150	DN80	3085	1825	2450/2200	3750/4000	81
	8,5	125	17,70	625,2							
	10	145	15,50	547,5							
EAGLE 132	7	100	22,30	787,6	132/180	DN80	3085	1825	2450/2200	3900/4150	83
	8,5	125	20,90	738,2							
	10	145	19,40	685,2							
EAGLE 160	7	100	25,40	897,1	160/220	DN80	3085	1825	2450/2200	4150/4400	84
	8,5	125	25,40	897,1							
	10	145	24,00	847,7							
EAGLE 185	7	100	28,00	989,0	185/250	DN80	3085	1825	2450/2200	4150/4400	84
	8,5	125	28,00	989,0							
	10	145	28,00	989,0							
EAGLE 200	7	100	36,50	1289,2	200/270	DN100	3685/3465	2140	2715/ 2450	5900/6100	85
	8,5	125	34,00	1200,9							
	10	145	31,60	1116,1							
EAGLE 250	7	100	44,30	1564,7	250/340	DN100	3685/3465	2140	2715/ 2450	6100/6350	86
	8,5	125	40,50	1430,5							
	10	145	36,40	1285,6							
EAGLE 315	7	100	50,10	1769,5	315/430	DN100	3685/3465	2140	2715/ 2450	6300/6500	87
	8,5	125	48,70	1720,1							
	10	145	44,20	1561,1							

- 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.

TECHNICAL DATA

Model	Pressure		Capacity				Motor Power	Connection Size	Dimensions (mm) Air Cooled / Water cooled			Weight	Noise
			m ³ /min		cfm				Length	Width	Height		
	bar	psi	min	max	min	max	kW/HP					kg	dB(A)
EAGLE 55 VSD	7	100	3,4	9,1	120,1	321,4	55/75	G 2"	2450	1600	2160	2675	77
	8,5	125	3,4	8,3	120,1	293,2							
	10	145	3,4	7,0	120,1	247,2							
EAGLE 75 VSD	7	100	3,4	12,1	120,1	427,4	75/100	G 2"	2450	1600	2160	2935	77
	8,5	125	3,4	11,3	120,1	399,1							
	10	145	3,4	10,6	120,1	374,4							
EAGLE 90 VSD	7	100	3,4	14,5	120,1	512,1	90/125	G 2"	2450	1600	2160	3025	75
	8,5	125	3,4	13,6	120,1	480,4							
	10	145	3,4	13,2	120,1	466,2							
EAGLE 110 VSD	7	100	10,0	19,7	353,2	695,8	110/150	DN80	3085	1825	2450/2200	4100/4350	82
	8,5	125	10,0	18,2	353,2	642,8							
	10	145	10,0	17,0	353,2	600,4							
EAGLE 132 VSD	7	100	10,40	22,2	367,3	784,1	132/180	DN80	3085	1825	2450/2200	4200/4400	84
	8,5	125	10,30	21,0	363,8	741,7							
	10	145	10,30	19,6	363,8	692,3							
EAGLE 160 VSD	7	100	10,00	26,9	353,2	950,1	160/220	DN80	3085	1825	2450/2200	4000/4200	85
	8,5	125	9,80	25,5	346,1	900,7							
	10	145	9,80	23,5	346,1	830,0							
EAGLE 185 VSD	7	100	10,30	29,5	363,8	1041,9	185/250	DN80	3085	1825	2450/2200	4600/4850	85
	8,5	125	10,20	28,1	360,3	992,5							
	10	145	10,10	26,4	356,7	932,4							
EAGLE 200 VSD	7	100	18,20	35,0	642,8	1236,2	200/270	DN100	3685/3465	2140	2715/2450	6300/6550	85
	8,5	125	18,00	31,4	635,8	1109,0							
	10	145	17,90	28,5	632,2	1006,6							
EAGLE 250 VSD	7	100	17,30	44,5	611,0	1571,7	250/340	DN100	3685/3465	2140	2715/2450	6650/6700	87
	8,5	125	17,20	41,2	607,5	1455,2							
	10	145	17,00	37,7	600,4	1331,6							
EAGLE 315 VSD	7	100	17,50	48,8	618,1	1723,6	315/430	DN100	3685/3465	2140	2715/2450	6650/6900	88
	8,5	125	17,40	46,6	614,6	1645,9							
	10	145	17,30	44,9	611,0	1585,9							

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

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