

TURBO COMPRESSORS DYNAMIC 185-250

A winner in the life cycle cost comparison

The DYNAMIC series combines decades of experience and enthusiasm for compressed air technology in an extremely reliable and energy-efficient series.

The turbo compressors of the DYNAMIC 185-250 series are suitable for a wide range of applications where 100% oil-free compressed air is required in larger quantities - from 185 kW to 250 kW drive power at a final compression pressure of up to 8.6 bar.

The simple and compact design of the compressor unit offers high reliability and ensures safe operation even under demanding conditions. The titanium impellers are designed for optimum efficiency and a long service life.

The DYNAMIC compressors are easy to install, operate and maintain and have a compact footprint.

The turbo compressors of the DYNAMIC series replace oil-free screw compressor as a base load machine and impress with lower total cost of ownership.

Advantages:

- 100 % oil-free compressed air
- Titanium impellers designed for optimum efficiency and reliability
 - Lowest total cost of ownership
- Fully enclosed with sound insulation housing

Energy efficient

Wear-free Titanium impeller, IE4 motor and modern control system for minimum energy consumption.

Oil-free

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The system supplies 100% oil-free compressed air of class 0 (according to ISO 8573) confirmed by TÜV Rheinland.

Quick & easy maintenance

Optimised design with wear-free compression principle offers low maintenance and few downtimes.

Application

Industry

Power output 185 - 250 kW

Volume flow according to ISO 1217 (Annex C-2009) 35.1 - 43.6 m³/min

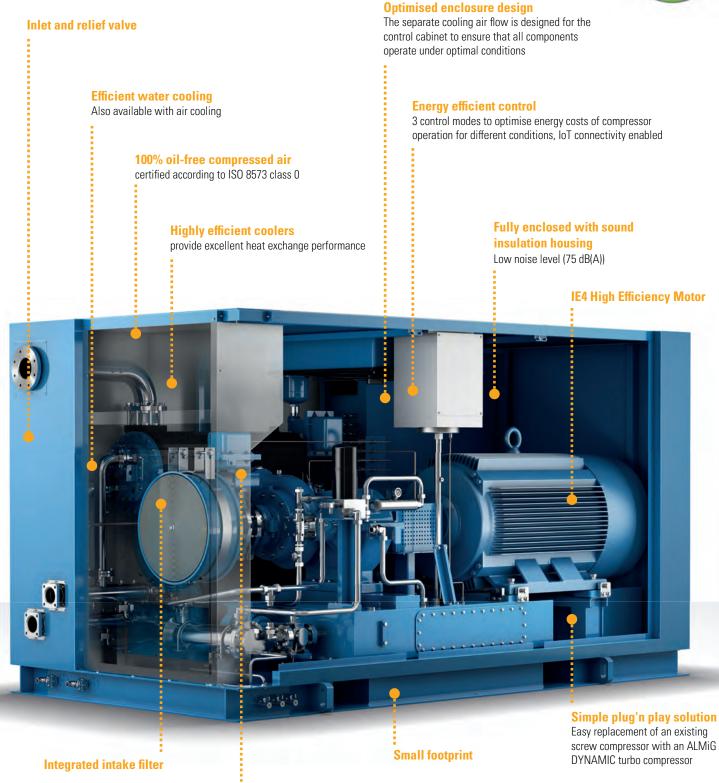
Operating pressure 6.2 - 8.6 bar

Cooling Water-cooled Air-cooled

^{Drive} Gear

DYNAMIC	Operating overpressure	Volume flow at max. operating	Rated motor power	Dimensions (L x W x H)	• • • •
		pressure			
Model	bar	m³/min	kW	mm	
50 Hz - Wat	er cooling				R (-04-
250-8.6	8.6	41.6	250	3200 x 1850 x1850	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
220-6.9	6.9	43.6	220		A.c.
200-8.6	8.6	35.3	200		
185-6.9	6.9	35.1	185		<u> </u>
50 Hz - Air o	ooling				•
250-7.9	7.9	41.4	250	3200 x 2000 x 2200	1
220-6.9	6.9	42.8	220		
200-7.9	7.9	35.4	200		_72 _ 3
185-6.2	6.2	35.1	185		





Oil mist separator

Integrated into the housing to ensure that the oil mist does not contaminate the surroundings or the compressor + Clean, oil-free compressed air

- according to ISO 8573-1 Class 0
- DIC based control or
- Easy to maintain
- + Low life cycle costs

Equipment

Features and advantages

- The DYNAMIC turbo compressors are among the most efficient compressors on the market
- 100% oil-free compressed air according to ISO 8573
- 2-stage compression
- Above-average service life
- Low maintenance costs
- Low-wear hydrodynamic multi-segment plain bearing
- Permanently high and consistent performance
- Wear-free impeller
- On-site maintenance possible due to horizontally split gearbox housing
- IE4 Motor

Standard equipment

- Modern premium control
- Cooling water connection
- Integrated aftercooler
- Sound insulation bonnet

DYNAMIC 185-250 Compressor airend

Options

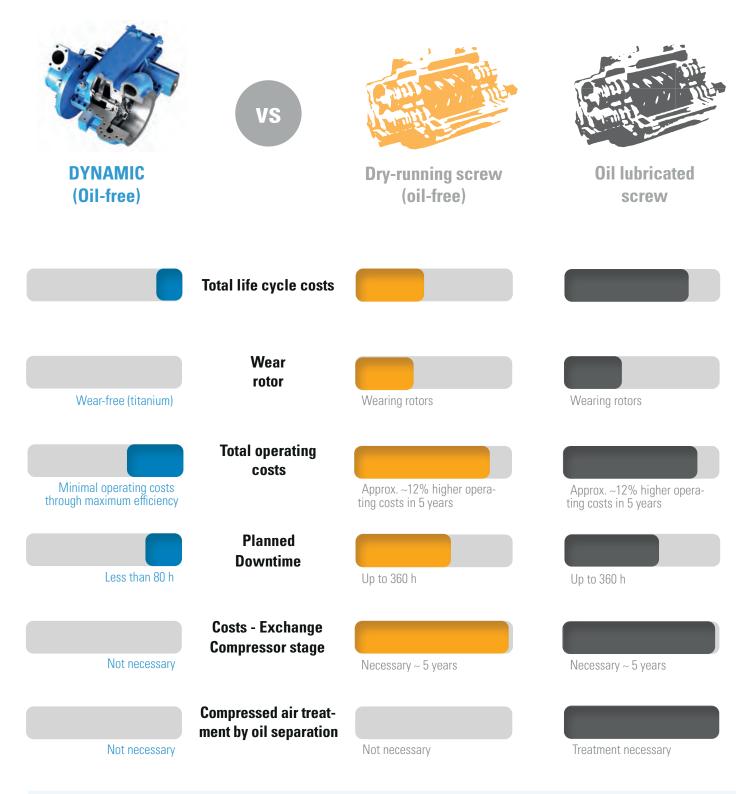
- Filter monitoring
- IoT-capable control
- Higher-level control
- HOC solution with dryer
- Vibration monitoring
- Drive power monitoring

On request, turnkey compressor stations and special plants are possible.

gear shaft* Plain bearings with superior reliability • Combination bearings for balancing axial forces **Double carbon ring seals** Plain bearings on all rotors Guaranteed oil-free air quality Split design for easy maintenance Compact design for excellent stability **Highly efficient impellers** 2-stage compression Premium titanium impeller **Designed for air and water cooling Extremely low maintenance** No major service costs within the first 6 years of operation Horizontally split gearbox housing Easy and quick assembly and maintenance With vibration probes on the pinions Low operating costs

AGMA Q12 gear wheel and

Comparison DYNAMIC vs. dry-running screw and oil-lubricated screw



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The direct comparison shows that with DYNAMIC from ALMiG, there are significantly lower costs over the life of the compressor compared to a dry-running or an oil-lubricated screw.

Service - Anytime. Worldwide.

High-quality products from ALMiG deserve first-class service.

We offer you the complete service programme: comprehensive advice, ensuring availability, increasing economic efficiency and exploiting energy-saving potential. Reliability, fast response times and competent advice are our top priorities. We offer a nationwide network of highly qualified ALMiG service technicians and specially trained and authorised service partners. In this way, we ensure the operational reliability of your compressed air station at all times, both at home and abroad.

- Consulting, planning and installation
- Measurements of compressed air consumption and quality
- Maintenance contracts
- Original spare parts
- Further training, including energy-saving and compressed air seminars



Areas of application



We are close to our customers - worldwide



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