CleanAIR

Oil-free Compressors

CNR 55-200

Oil free compressors

Oil-free compressors

Industries such as food and beverage, electronics and textiles cannot risk any chance of oil contamination in their processes. It is essential that their compressed air is 100% oil-free. Outstanding reliability, and low maintenance and operating costs make oil-free compressors a sound investment.

www.oilfreecompressors.eu

CleanAIR oil-free piston range

Designed with premium quality components and for heavy duty use, the new CleanAIR CNR offers 100% oil-free air for a range of industrial applications. Thanks to its smart design, low energy consumption and minimal maintenance requirements, cost and environmental impact are kept at a minimum.

Absolutely clean air

When your operations require unquestionably clean air, "technically oil-free" really won't do. Oil-injected compression, even filtered, cannot guarantee that all oil vapors, aerosols and other contaminants are removed from the air. Thanks to the innovative oil-free technology built into the CleanAIR CNR, you can be sure of absolutely clean air.

First-class reliability

With an operational lifetime of 16,000 hours, the CleanAIR CNR is a long-term companion. This supreme reliability stems from its quality components as well as its compression technology. Because the CleanAIR CNR doesn't use any oil, it will last longer with only minimal service. No oil changes are required.

High efficiency

Energy use matters, as it constitutes the highest cost of running a compressor. The direct driven CleanAIR CNR comes with a number of innovations (onebearing motor, load/top technology, etc.) to reduce energy consumption to an impressive minimum.

Low noise

Thanks to its sound-attenuating materials and canopy, the CleanAIR CNR offers noise levels as low as 67 dB(A). With this silent performance previously unattainable for an oil-free piston compressor, the CleanAIR CNR is suitable for sound sensitive environments.

Advanced control

The CleanAIR CNR comes with advanced electronic control and monitoring. The one-touch controller is easy to use, optimizing both performance and reliability.

Oil-free applications

Food & brewery

As a manufacturer of food and beverages, you know product quality and health matter. That's why you only choose 100% oil-free compressed air.

Chemicals & plastics

In the chemical industry and manufacturing, product purity is an absolute necessity. That's why you only choose 100% oil-free compressed air.

Electronics

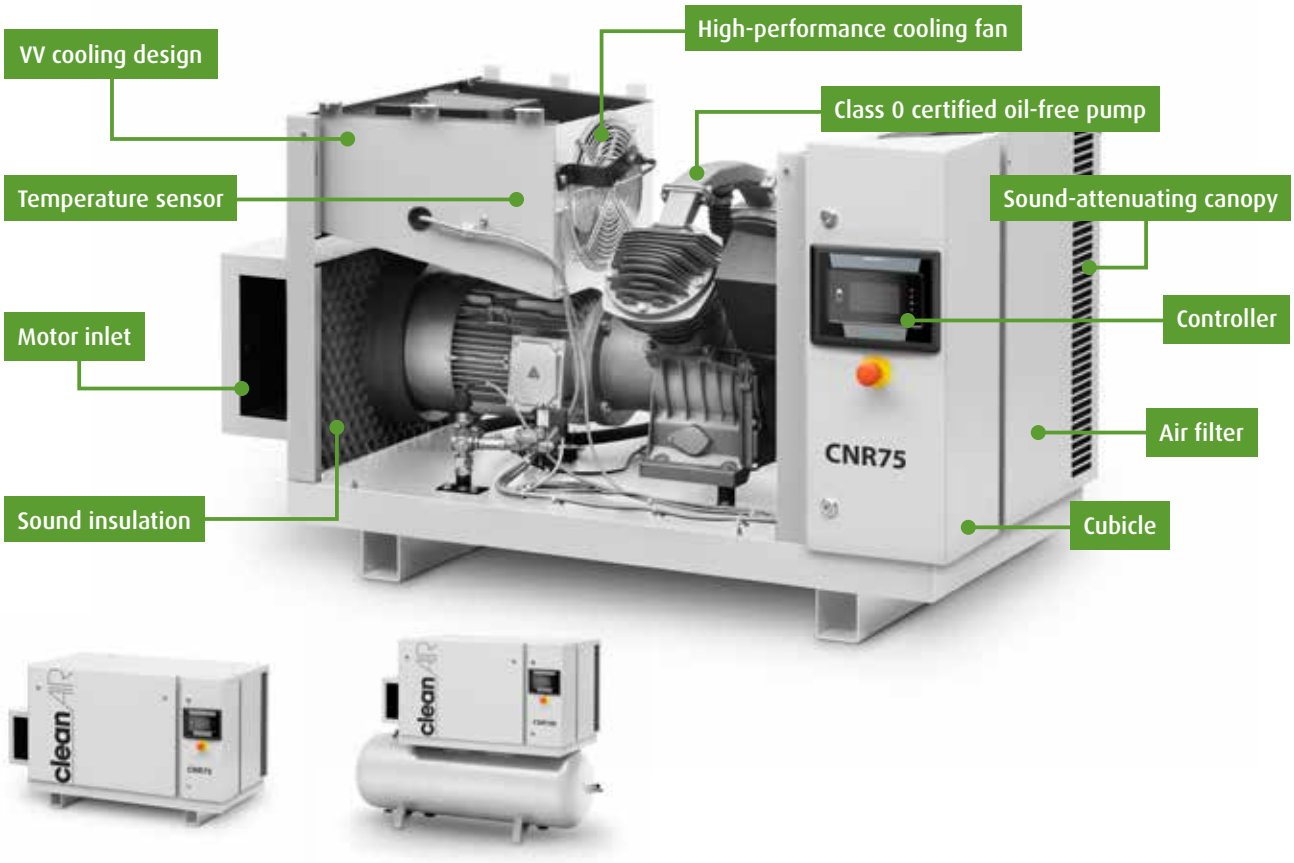
Ultra-clean production conditions are essential for the quality of electronic components. Electronic experts know quality and cleanliness are crucial. That's why you only choose 100% oil-free compressed air.

Textile

Producing beautiful fabrics with the most sophisticated colors and patterns is an art. Fashion designers entrust their creations only to manufacturers who are able to deliver the highest quality. That's why you only choose 100% oil-free compressed air.

Find out about more industries and typical applications at oilfreecompressors.eu

CleanAIR CNR



Flexibility

- Full range with different power (7–10 hp) and pressure (4–10 bar) options.
- Base and tank mounted versions available.

Quality air

- ISO 8573-1 Class 0 pump produces TÜV-certified 100% clean air.
- High-efficiency filtration for safe operation.

Energy savings

- Direct drive technology offers major energy savings compared to belt-driven compressors.
- Start-stop technology eliminates waste during the unload cycle.
- One-bearing motor to reduce mechanical friction.
- IE3 motor for premium efficiency.

Reliability

- Patented stainless steel inlet/outlet pump valves.
- Unbeatable low maintenance costs.

Continuous operation

Lubricated compressors operate up to 20% of their running time in cool-down mode. Thanks to its oil-free technology and internal cooling fan system, the CleanAIR CNR can offer a 100% duty cycle for uninterrupted service.

Advanced CleanAIR Technology

It's what inside that counts. And inside the CNR you will find the very best in oil-free compression technology – to give you the quality air you can count on every day.

A robust pump

- Lightweight aluminium pump prevents the formation of condensate, extending the lifetime of your equipment.
- Stainless steel disk valves offer strong performance and reliability, and easy maintenance.
- Heavy-duty, sealed-for-life crankshaft ball bearings ensure air quality while minimizing service needs.
- V-shaped pistons reduce vibrations to a minimum.
- Advanced high-quality pump materials maximize performance and lifetime.

A drive built for operational efficiency

- Direct drive motor without transmission losses delivers big energy savings.
- The transmission is directly flanged to the pump to reduce energy losses and use.
- The motor is IP55/4-pole/insulation class F to ensure reliable operation in harsh conditions.
- Mounted on an anti-vibration pad, the motor is designed to keep sound levels at a comfortable minimum.

Complete control

The CNR comes as standard with the state-of-the-art Airlogic²T touchscreen controller, giving you on-screen and remote insight into the performance of your compressor:

- Large 4.3" full-color touchscreen display.
- 30+ languages.
- Warning indications and shutdown alarms.
- Service status and schedule indication.
- Online visualization of running conditions.
- Compressor data analysis.

Still using nitrogen bottles?

Nitrogen generation systems combine a compressor with a nitrogen generator to create the sustainable and cost-efficient alternative to cylinders or bulk supply. A nitrogen generation system provides an independent supply of nitrogen, when you need it and at the lowest cost, eliminating ordering, transportation, storage and delivery expenses.

Smaller investment

Reduced maintenance cost

Increased generator lifetime

Need nitrogen? Add CleanAIR

Are you a frequent user and/or producer of nitrogen? The CleanAIR CNR is the high-performance, cost-saving foundation of your nitrogen generation system. Unlike lubricated compressors, the oil-free CleanAIR CNR doesn't require additional carbon filtration or condensate management. As a result, the CleanAIR CNR gives you a more compact footprint, lower maintenance and minimized downtime. Because it doesn't compromise the adsorbent of the nitrogen generator, your system will last longer as well.

Technical specifications

PERFORMANCE

Compressor type	Max Working pressure	FAD		Power		Noise level	Vessel	Version
	bar	l/s	m^3/min	kW	hp	dB(A)	l	
CNR 55	10	8.2	0,49	4	5.5	62	270	BM/TM*
CNR 75	10	11.1	0,67	5.5	7.5	62	270	BM/TM*
CNR 100	10	15.5	0,93	7.5	10	64	270	BM/TM*
CNR 150	10	22.2	1,33	11	15	65		BM*
CNR 200	10	31.0	1,86	15	20	67		BM*

** BM: base mounted – TM: tank mounted.*

Voltage: 400V/50hz.

Unit performance measured according to ISO 1217, Ed.3, Annex C-2009.

Mean noise level measured according to ISO 2151/Pneurop/Cagi PN8NTC2 test code; tolerance 3 dB(A).

Base mounted

Tank mounted

REFERENCE CONDITIONS

Absolute inlet pressure	1 bar (14.5 psi)
Intake air and coolant temperature	20°C, 68°F
FAD	measured at 7 bar

Oil free compressors

DRIVEN BY TECHNOLOGY DESIGNED BY EXPERIENCE

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ORIGINAL PART

Care. Trust. Efficiency.

Care.

Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

Trust.

Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

Efficiency.

Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.

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