Архангельск (8182)63-90-72 Ижевск Астрахань (8512)99-46-04 Иркутск Барнаул (3852)73-04-60 Казань (Белгород (4722)40-23-64 Калуга (Бянск (4832)59-03-52 Калуга (Владивосток (423)249-28-31 Кемеров Волгоград (844)278-03-48 Киров (8 Вологда (8172)26-41-59 Краснод Воронеж (473)204-51-73 Красноя Екатеринбург (343)384-55-89 Курск (4 Иваново (4932)77-34-06 Липецк (Киргизия (996)312-96-26-47

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

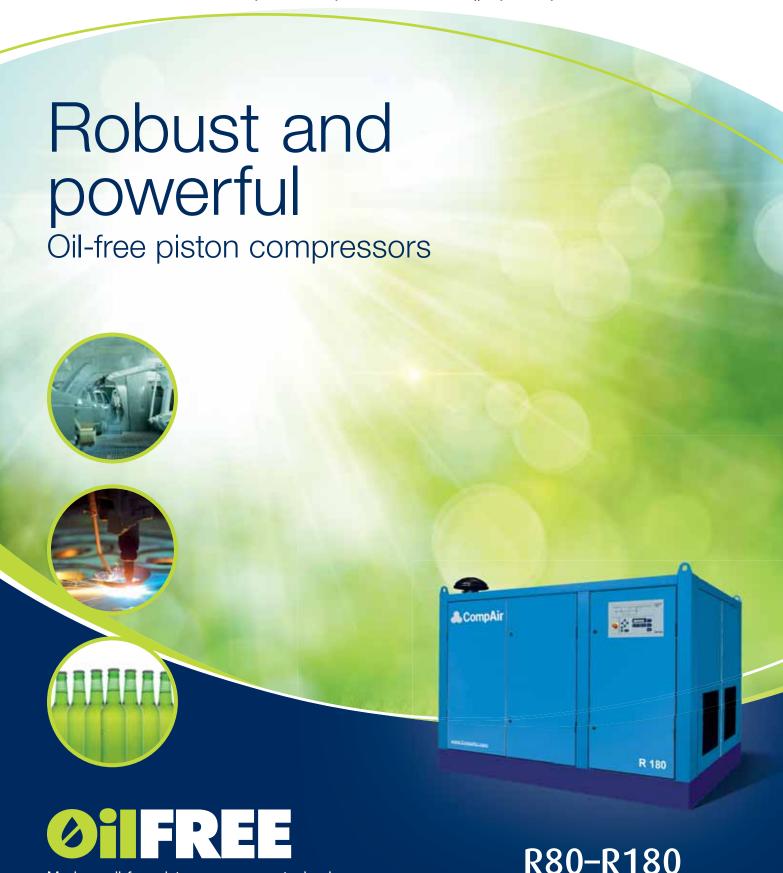
Modern, oil-free piston compressor technology

Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

7 Сургут (3462)77-98-35 1308-18-15 Тверь (4822)63-31-35 14 Томск (3822)98-41-53 16 Тула (4872)74-02-29 12)309-46-40 Тюмень (3452)66-21-18 178 Ульяновск (8422)24-23-59 179 Уфа (347)229-48-12 179 Черяговек (4212)92-98-04 179 Черяговец (8202)49-02-64 179 Череговец (8202)49-02-64

Единый адрес для всех регионов: cro@nt-rt.ru|| https://compair.nt-rt.ru

Казахстан (7273)495-231





CompAir – for compressed air quality and efficiency

Setting the benchmark in oil-free technology

With more than 90 years' experience in the manufacture and supply of oil-free compressors, CompAir is known for its high standards of quality and innovation and its unparalleled understanding of customer needs in respect of individual applications.

As a specialist in oil-free compressor systems, CompAir's portfolio includes a number of oil-free technologies:

R series high-output two-stage piston compressors
DH series single-stage water-injected screw compressors
D series two-stage screw compressors
Quantima high-speed centrifugal compressors

CompAir in action

Oil-free compressed air solutions from CompAir are tried and tested. Known for their high quality and low operating costs, they are used successfully in industry throughout the world.



Going oil-free – compelling advantages for a wide range of sectors

For many compressed air users, oil-free compression is the ideal solution: There is no risk of oil contamination of products or equipment. Additional installation, energy and maintenance costs for condensate treatment, filter system or compressed air treatment are avoided. The result is a greatly improved carbon footprint for compressed air generation.

There is a clear trend towards the use of oil-free compressed air, not only in areas where highly sensitive products such as food or pharmaceuticals are produced, but also in key industries such as:

- Automotive industry
- Chemical industry
- Development and technology sector
- Electronics industry

R series piston compressors are especially popular in the beverage industry, in breweries and with milk and dairy processors because of their oil-free technology and energy efficiency.





CompAir piston technology: oil-free, state-of-the-art compression

Piston compression is known for its excellent energy efficiency, and CompAir has consolidated and at the same time consistently developed this proven technology to maintain its cutting edge.

Pressure range	4 to 12 bar
Volume flow	7.5 to 18.1 m³/min
Motor power	45 to 110 KW

The champion of oil-free piston compressors

The R series from CompAir has a top-class reputation:

- Oil-free
- · Energy efficient
- Reliable
- Robust
- Durable
- · Easy to maintain

Possible energy savings of up to 20%.



Oil-free and silicone-free compressed air generation is standard at BMW's car body manufacturing plants in Dingolfing in Germany.

A need for higher pressure on the production line combined with a general increase in demand for compressed air prompted the factory to upgrade and expand its existing system.

So the pressure output from the original 6-bar piston compressed air station was increased to 12 bar with boosters. The additional capacity was provided by four new 110 kW R series oil-free piston compressors. The ability to switch between half-load and full-load operation is an energy saving feature which allows the compressed air volume to be adjusted to demand at any given time, with minimal off-load operation. With oil-free generation, treatment is low cost and energy efficient. Two refrigerant dryers, operating in parallel at full load, and a downstream particle filter are sufficient.

The managers are extremely satisfied with the reorganisation of the compressed air supply and the efficiency gain and are logging the energy savings with an integrated three-phase meter.



Cost-effective operation in all conditions



High-quality, robust construction along with excellent efficiency means that payback times are short. With its long economic life cycle, the R series continues to supply affordable compressed air, year after year.

- Two-stage, double-acting piston compressor
- Energy-saving three-stage control: 0% 50% 100%
- Water-cooled, with generously dimensioned tubular coolers
- Piston and guide rings made from high-quality materials, with a central guide ring and piston rings above and below for an effective, low-wear seal, eliminating reverse flow losses
- Efficient IP55 electric motor with a low rotational speed of 1000 rpm
- No separate components
- Wired ready for connection and easy to install, with no foundation required

Comprehensive electronic control system

The multilingual Delcos 3100-R controller ensures safe and reliable operation and continuously monitors the operating parameters to protect your investment.

- Menu-driven, user-friendly microprocessor control with plain text display
- Status display
- Half-load/full-load control
- Fault memory as standard
- Maintenance interval monitoring
- Base load sequencing for up to five units
- Timer control



Options & variants

- Operating pressure 13 bar
- Purpose-built recooling system which provides optimum cooling and does not rely on the factory cooling system
- Connection of an unpowered desiccant dryer to the hot gas outlet with dew points down to -40°C
- Profibus and Modbus for the Delcos controller
- Heat recovery
- Open or soundproofed housing
- Silicone free

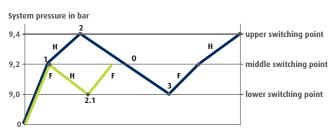


Efficiency impact of half-load/full-load control

The design of the double-acting high-performance piston compressor brings about a big reduction in electrical input power, at both full and half load. Rapid switching from full load to half load and back again ensures a flexible response to compressed air demand and a low pressure difference in the network. At the same time off-load losses are minimised, at just 8–9% of generating capacity in the case of piston compressors. The significant energy savings result from the **low input power at full load,** the **narrow pressure band** and the **low off-load losses.**

Full load: 100% volume flow → 100% power input Half load: 50% volume flow → 53% power input

Savings from stable differential pressure



By switching from full load **[F]** to half load **[H]**, the off-load component **[O]** can be bypassed and the pressure band held within a minimum pressure range of 0.2 bar, with roughly the same compressed air consumption.

CompAir in action

The new compressed air supply system at Sartorius AG is cutting energy costs by EUR 40,000 per year.



The company's Biotech division has completely modernised its compressed air station, replacing the three existing screw compressors with two oil-free water-cooled R100 piston compressors from CompAir. Both compressors operate in two stages, generating four different volumes of compressed air. Uniquely, the compressors are just as efficient at half load as they are at full load. For a reliable pressure dew point of –40°C, two vacuum-regenerative desiccant dryers were installed. Annual maintenance costs have also fallen by EUR 10,000 since the new technology was installed.



Protect your investment

The simple, robust construction minimises servicing and parts costs.



CompAir compressed air systems use only the latest technologies and energy efficient solutions with low life cycle costs.

X series water cyclone separator

Efficiently removes condensed water from the compressed air

CF series compressed air filters

Efficient design for removing water, atmospheric dust and dirt particles

Bekomat condensate drain system

To drain compressed air condensate without loss of compressed air

Compressed air refrigerant dryers

Energy-saving, environmentally friendly refrigerant dryers

Heatless desiccant dryers

A XS and A TX series

Heat-regenerative desiccant dryers

A_TV and A_RS series

Nitrogen generator

Designed for maximum efficiency and gas quality

SmartAir Master multi compressor controller

for up to 12 units



Original spare parts – always on the safe side

Operating a compressed air system economically requires energy efficient operation and good availability.

The advantages of top-class, type-tested CompAir parts, guaranteeing OEM quality, include:

- A long service life, even when subject to extreme loads
- Minimum pressure losses, leading to energy savings
- Good reliability for an extended uptime
- Proven quality, type-tested and certified

Maintenance is easy, with CompAir's extensive network of factory-trained service engineers on hand – day and night.



CompAir R series – technical data

Model		R80		R100		R135	R180			
Cooling method		Water		Water		Water		Water	Water	
Operating pressure	(bar g)	4-10	11-12	4-9	10-12	4-12	4-7	8-12		
Motor power	(kW)	45	55	55	75	75	90	110		
Volume flow, max. 1)	(m³/min)	8.0		10.0		13.3	18.1			
Dimensions										
Excluding housing										
Dimensions L x W x H	(mm)	1662 x 1630 x 1364		1796 x 1630 x 1364		1939 x 1835 x 1544	2021 x 1835 x 1553			
Weight	(kg)	1650		1815		2480	2760			
Noise level ²⁾	dB(A)	79		79		83	83			
Including housing										
Dimensions L x W x H	(mm)	2766 x 2016 x 1860		2766 x 2016 x 1860		2766 x 2016 x 1860	0 2766 x 2016 x 1860			
Weight	(kg)	2750		2915		3580	3580 3860			
Noise level ²⁾	dB(A)	69		69		73	73			

¹⁾ Data measured and stated in accordance with ISO 1217, Edition 4, Annex C, at the following conditions:

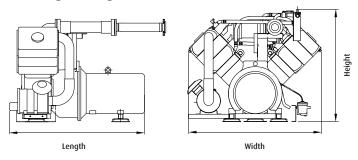
Intake pressure 1 bar a

Intake temperature 20°C

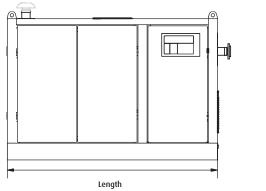
Humidity 0% (dry)

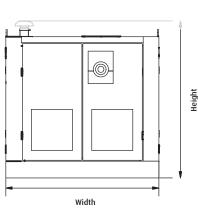
Oil-lubricated models from 4 to 10 bar available upon request.

Excluding housing



Including housing





 $^{^{2)}}$ Measured in free field conditions in accordance with ISO 2151, tolerance +/-3 dB(A)





An extensive network of dedicated CompAir sales companies and distributors across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

As part of the worldwide Gardner Denver operation, CompAir has consistently been at the forefront of compressed air systems development, culminating in some of the most energy efficient and low environmental impact compressors on the market today, helping customers achieve or surpass their sustainability targets.

CompAir compressed air product range

Advanced Compressor Technology Lubricated

Rotary Screw

to suit all applications.

- > Fixed and Regulated Speed
- Piston
- Portable

Complete Air Treatment Range

- Filter
- Refrigerant and Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer
- Nitrogen Generator

Value Added Services

- Professional Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

- Custom Engineered Solutions
- Local Service Centres
- Genuine CompAir Parts and Lubricants

Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгорад (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Киргизия (996)312-96-26-47

Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81 96-26-47

Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новосибирск (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Казакстан (7273)495-231 Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64

-65-13 Ярославль (4852)69-52-93 Таджикистан (992)427-82-92-69