



Oil-free compressor
solutions for rail traffic





Pantograph raising



Operating the signal horn



Control of toilet doors and emptying of the toilet bowl



Wheel flange lubrication



Sanding systems

Trust in Dürr Technik, the first manufacturer of oil-free auxiliary compressors for railway vehicles

Oil-free compressors by Dürr Technik run approximately 300 M kilometers per year on railway vehicles, a distance similar to traveling around the globe 7.500 times.

Dürr Technik is the first manufacturer of oil-free auxiliary air compressors for railway traffic. Our auxiliary air compressors fulfill the highest requirements for reliability, precision and durability. For this reason manufacturers and operators of railway vehicles and system suppliers have, for many years now, relied on our high quality, compact system solutions – from Panama via South Africa to China.

For more than 50 years now Dürr Technik has been a specialist for oil-free piston compressors. For more than 30 years we have been supplying around 100 different compressor versions to numerous leading companies in the rail traffic sector worldwide. All major rolling stock manufacturers trust in Dürr Technik and are using our compressor units.



Application fields

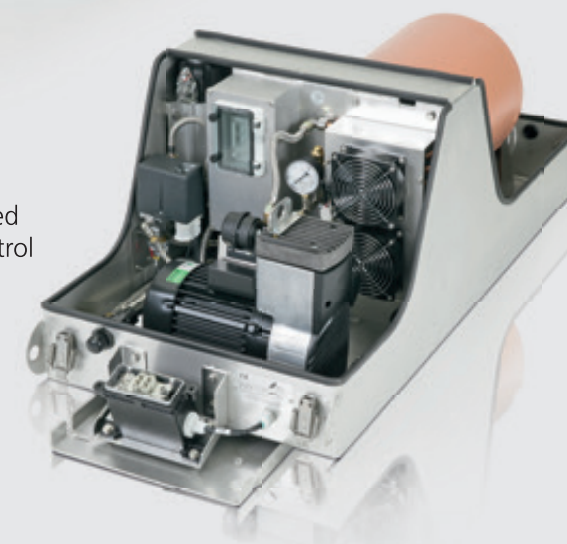
- Pantograph raising
- Sanding systems
- Wheel flange lubrication
- Control system for toilet door
- Emptying of toilet bowl
- Signal horn
- Spring-loaded brakes
- Support of braking air for maintenance vehicles
- Filling of sand tanks

Multifunctional installations

Engineering of customer specific solutions

By applying an auxiliary air installation, several pneumatic requirements can be fulfilled at the same time. This saves space and costs.

This installation generates for example compressed air for wheel flange lubrication, sanding, the control system for toilet doors and the signal horn.



ADVANTAGES

Highest quality standard

Compressors used in rail traffic need to operate reliably under the most extreme ambient conditions.

We have been certified according to IRIS since 2009. Our products are manufactured in Germany, and depending on your requirements, fulfill

- EN 50121-3-2 Electromagnetic compatibility
- EN 45545-2 Fire protection requirements
- EN ISO 9227 Salt-spray test
- EN 61373 Vibration and shock test

■ Wide product range – high adaptability

With almost 100 different models, Dürr Technik offers the largest portfolio of oil-free railway compressors. We offer aggregates and complete system solutions with different kinds of voltages: from DC (direct current) to 3~AC, from 24V DC up to 400V 3~AC.

■ High reliability and durability

Our components are tested under extreme conditions, in order to meet our special quality requirements even in continuous operation.

■ Low weight

A major requirement for modern rolling stock is the optimized weight of all components. Dürr Technik offers you robust but light-weight oil-free compressors. Our models are up to 82 % lighter than those of our competitors.

■ Low noise level

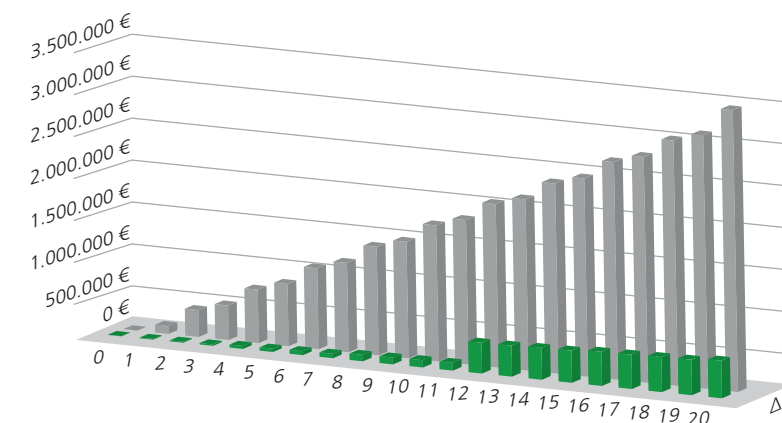
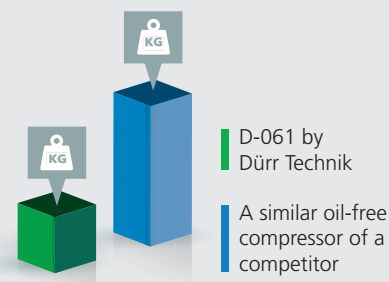
Dürr Technik not only offers environmentally friendly compressors by using oil-free technology, but also through reducing the noise level of each solution. This enables the railways to act as a comfortable transport mean for a modern society.

For example: Just **one** oil-free compressor by a competitor equals the sound level of **ten** D-100 models by Dürr Technik.



■ Environment-friendly

Oil-free compressors make it possible to produce oil-free air – thus excluding any impairment of the functions caused by oil.



■ Dürr Technik oil-free compressors ■ oil-lubricated compressors

Cumulated maintenance costs of a customer with oil-lubricated compressors compared to oil-free compressors from Dürr Technik in a time period of over 20 years, based on a project with 146 compressors.

The potential saving (Δ) amounts to 2.95 million euros – this corresponds to 86 %.

■ Space-saving design

The compact dimensions of our products enable them to be installed in small spaces.

■ Low vibrations

■ Economical operation

Our customers benefit from the low energy consumption of our innovative motor concepts, which are specifically adjusted to the railway traffic.

The use of high-quality materials ensures a minimum of wear and thus guarantees a high durability of the components.

Low life-cycle costs are a further particular characteristic of our products. Owing to the oil-free compressor technology by Dürr Technik, in addition to the direct savings of oil and energy, maintenance and servicing costs are significantly reduced.

- No oil level check
- No oil change
- No use of oil filters
- No oil filter changes
- No disposal of used oil
- Low maintenance

Low Life Cycle Costs with oil-free compressors

Dürr Technik ■ Quality
■ Made in
■ Germany



Great variety of products
From the aggregate up to the system solution

No matter for which application you need compressed air, our oil-free compressor aggregates can be configured exactly to your requirements.

Aggregates
A multitude of variations is available for you – from the direct current solution to the three-phase solution, from 24V DC up to 400V 3~AC.

Special aggregates
As special aggregates our products can for example be equipped with EMC filters, special paints, special electronics, plugs etc.

System solutions
You can rely on our unique competence in the development and manufacturing of complete compressed-air systems and compressed-air installations as an individual system solution in accordance with your specifications.

Receivers, dryers or control units can be integrated during installation depending on the spatial conditions. To ensure an optimal compressed-air supply, we plan your system solutions down to the tiniest detail at using modern CAD workstations.



Special aggregate



System solution

Selection of our oil-free compressor aggregates
Technical Data

Type	Delivery rate at 0 bar (l/min)	Nominal pressure PN (bar)	Noise level at PN dB (A)	Motor ratings				Protection class (IP)	Dimensions LxWxH (mm)	Weight (kg)
				Wattage rating P1 (kW)	Rated current (A)	Nominal voltage (V)	Frequency (Hz)			
with DC motor										
D-030	30	7	61	0,12	6,4	24	-	IP00	209x108x156	4,4
D-040	40	7	61	0,19	9,0	24	-	IP00	242x121x175	5,9
D-061	60	7	69	0,50	21,0	24	-	IP54	247x132x188	6,9
D-061	60	7	69	0,40	3,7	110	-	IP54	247x132x188	6,9
D-100	105	8	68	0,63	26,0	24	-	IP54	368x176x292	20,5
D-100	105	8	68	0,62	8,8	72	-	IP54	368x176x292	20,5
D-100	105	8	68	0,72	6,5	110	-	IP54	368x176x292	20,5
DG-160	160	7	72	0,91	38	24	-	IP56	366x276x190	17,0
with 3~motor										
B-038	38	7	57	0,41	1,6 / 0,9	230/400	50	IP54	249x156x180	6,5
B-061	60	7	66	0,5	0,9	230/400	50	IP54	225x165x180	6,1
B-062	78	8,5	60	0,47	0,9	380-415	50	IP20	286x125x175	9,1
B-100	105	8	66	1,00	3,1	230/400	50	IP44	330x200x283	20,3
BG-132	130	7	71	0,89	2,0	230/400	50	IP54	322x276x190	18,0
B-160	160	7	72	1,40	3,1	400	50	IP54	425x355x295	25,9
B-304WR	290	10	77	2,50	4,4	400	50	IP67	604x351x278	58,5

Further models available on request.



KK15 Series
D-040



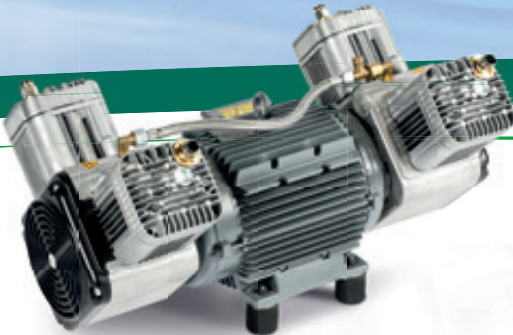
KK15 Series
D-061



KK70 Series
D-100



KK40 Series
BG-132 Boxer



Marathon Series
B-304WR

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