

Reciprocating compressors The AIRKO modular construction system



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Reciprocating compressors

Direct-driven industrial professionals: oil lubricated

Tough in action. Economical in performance.

AIRKO, AIRKO-N and AIRKO-H industrial compressors are air-cooled, single or two-stage compressors with direct drive. They completely meet the high standards required by the industry category in all respects:

- Tried and tested construction.
- A versatile range of applications in filling stations, workshops and factories as well as individually adjustable energy sources for operating machines and systems requiring compressed air.
- Tried and tested thousands of times under the toughest conditions (such as at extremely low temperatures when used in snow cannons).

 $\begin{array}{lll} \textbf{m}^{3}/\textbf{min} & 0.17 - 1.24 \\ \textbf{bar} & 10 - 20 \\ \textbf{KW} & 1.5 - 7.6 \\ \textbf{Drive} & \textbf{Direct drive} \\ \textbf{Oil lubricated} & \textbf{Yes} \end{array}$

AIRKO 239 AIRKO 309

AIRKO 609

AIRKO 469

AIRKO 279 AIRKO 559 AIRKO 759







Model	Max. over- pressure	Inta volu	ake ime	Actual (delivery ime	Drive power	Cooling air volume flow	Nominal voltage	Protection class	No. of stages	Rpm	Connection pressure pipe	Noise level with/without box **
	bar(g)	[I/min]	[m ³ /h]	[I/min]	[m ³ /h]	[kW]	[m ³ /h]	[Volt]		[piece]	[min ⁻¹]		[dB/A]
Reciprocating compre	ssor up to 10	bar – si	ngle-sta	ge									
AIRKO 309	10	310	18.6	190	11.4	1.5	540	230/400	IP 54	1	1450	22 x 1.5	76/65
AIRKO 469	10	475	28.5	311	18.7	2.2	540	230/400	IP 54	1	1450	22 x 1.5	77/66
AIRKO 609	10	620	37.2	423	25.4	3	730	400/690	IP 54	1	1450	26 x 1.5	77/67
Reciprocating compre AIRKO-N 279 AIRKO-N 559 AIRKO-N 759	10 10 10 10	bar – tw 280 565 765	70-stage 16.8 33.9 45.9	217 462 620	13.0 27.7 37.2	1.5 3 3.8	510 990 1320	230/400 400/690 400/690	IP 54 IP 54 IP 54	2 2 2	1450 1450 1450	22 x 1.5 26 x 1.5 30 x 2	74/61 79/67 79/67
Reciprocating compressor up to 15 / 20 bar													
AIRKO-H 309	15	310	18.6	170	10.2	1.5	540	230/400	IP 54	1	1450	22 x 1.5	77/66
AIRKO-H 279	15	280	16.8	203	12.2	1.5	510	230/400	IP 54	2	1450	22 x 1.5	74/61
AIRKO-HH 279	20	280	16.8	181	10.9	1.5	510	230/400	IP 54	2	1450	22 x 1.5	74/61
AIRKO-H 559	15	565	33.9	403	24.2	3	990	400/690	IP 54	2	1450	26 x 1.5	79/67
AIRKO-H 759	15	765	45.9	527	31.6	3.8	1320	400/690	IP 54	2	1450	30 x 2	79/67

^{*} Actual Delivery quantity measured in continuous operation according to VDMA-4362 of the German Mechanical Engineering Industry Association. At 8 bar(g), for 15 bar(g) variant measured at 12 bar(g).

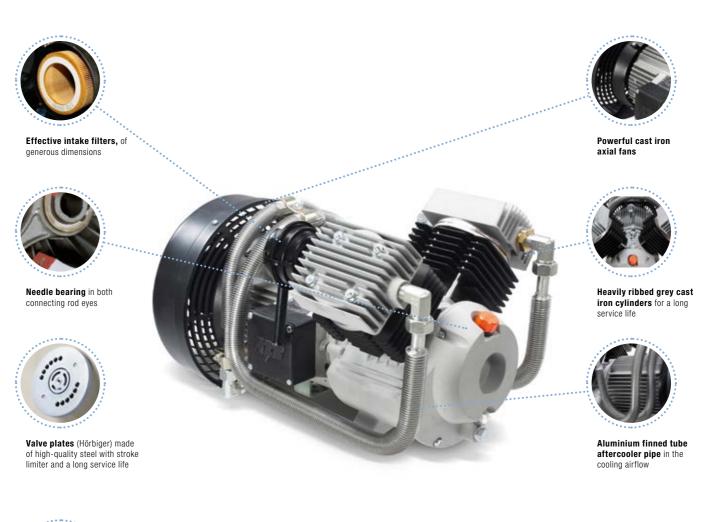
** Noise level according to DIN 45635 T13, at a distance of 1 metre. Subject to technical modifications.

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Professional technology in the new AIRKO Power Design:

- Heavily ribbed cylinders constructed of high-quality grey cast iron and cylinder heads constructed of die-cast aluminium
- Aluminium finned tube aftercooler pipe in the cooling airflow
- Powerful cast iron axial fans
- Needle bearing in the two connecting rod eyes
- Branded pressure switch with operating hours counter as standard (for version on tank)
- Highly efficient, large-dimensioned intake filter and replaceable filter element
- Energy-saving, premium quality IP 54 motor, with class F protection





Robust, **premium quality** IP 54 **energy-saving motor** with 1,450 rpm for a long service life and low operating costs

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Reciprocating compressors

Direct-driven industrial professionals: oil-free



100 % oil-free. For more sensitive operations.

The oil-free industrial compressors AIRKO-O are air-cooled, two-stage compressors with direct drive. They meet the high standards required by the industrial category for oil-free operation in all respects.

- Tried and tested construction
- A versatile range of applications in industry where there is a high demand for "clean" compressed air without any contamination through oil.
- Ideally suited to sensitive operations such as in medical technology, food technology and drinking water supply, to name but a few.

m³/min	0.15 –1.17
bar	7 – 10
KW	1.5-7.6
Drive	Direct drive
Oil-free	Yes



Model	Max. over- pressure bar(g)		ake ume [m³/h]	Actual o volu [I/min]	delivery ime [m³/h]	Drive power [kW]	Cooling air volume flow [m³/h]	Nominal voltage [Volt]	Protection class	No. of stages [piece]	Rpm [min ⁻¹]	Connection pressure pipe	Noise level with/without box ** [dB/A]
Oil-free reciprocating	compressor												
AIRK0-0 239	7	240	14.4	150	9.0	1.5	470	230/400	IP 54	1	1450	22 x 1.5	75/62
AIRK0-0 279	10	280	16.8	212	12.7	1.5	510	230/400	IP 54	2	1450	22 x 1.5	74/61
AIRKO-0 559	10	565	33.9	457	27.4	3	990	400/690	IP 54	2	1450	26 x 1.5	79/67
AIRK0-0 759	10	765	45.9	587	35.2	3.8	1320	400/690	IP 54	2	1450	30 x 2	79/67

^{*} Actual Delivery quantity measured in continuous operation according to VDMA-4362 of the German Mechanical Engineering Industry Association. At 8 bar(g), for 15 bar(g) variant measured at 12 bar(g).

** Noise level according to DIN 45635 T13, at a distance of 1 metre. Subject to technical modifications.

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Oil-free technology in the new AIRKO Power Design:

- Heavily ribbed cylinders constructed of high-quality aluminium and cylinder heads constructed of die-cast aluminium
- Cylinders provided with a special wear-resistant coating
- Pistons provided with Teflon coating and Teflon piston rings
- Stainless steel valve plate
- Bearings with synthetic, high-temperature lubricant
- Aluminium finned tube aftercooler pipe in the cooling airflow
- Connection bracket with zinc/nickel coating
- Powerful cast iron axial fans
- Branded pressure switch with operating hours counter as standard (for version on tank)
- Highly efficient, large-dimensioned intake filter and replaceable filter element
- Energy-saving, premium quality IP 54 motor, with class F protection
- Standard galvanized compressed air tanks (for version on tank).



Highly efficient intake filter, of large dimensions



Powerful axial fans of cast iron



Pistons with Teflon coating and Teflon rings



Connection bracket with zinc/nickel coating



Valve plates of stainless steel (or nickel-plated) with stroke limiter for a long service life



Heavily **ribbed aluminium cylinders** for optimum cooling and a long service life



Robust premium-quality, energy-saving motor with IP 54 rating and 1,450 rpm for a long service life and low operating costs





Aluminium finned tube aftercooler pipe in the cooling airflow

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Reciprocating compressors

Design Options.

Units

On base frames

Unit on base frame

Ideal for expanding capacity, for feeding compressed air into existing stations, as a reserve compressor or where space is limited. Supplied with flexible connecting hose, with non-return valve and motor protection switch. Also available with functional and stable sound insulation box.



Available for all models

Model	Dimensions L x W x H [mm]
309 / 239	510 x 360 x 500
469 / 609 / 279	590 x 410 x 485
559	640 x 500 x 585
759	640 x 500 x 595



Model	Dimensions L x W x H [mm]
309 / 239 469 / 609 / 279	795 x 515 x 650



Model Dimensions L x W x H [mm] 559 / 759 1010 x 635 x 820

Compressed air systems

with horizontal tank

Unit on horizontal tank

With only minimal installation effort, the ready-to-connect and ready-to-operate compressed air systems can start working immediately: plug and play. All components and equipment necessary for operation are included in the scope of delivery. Also available with functional and stable sound insulation box.



50 litres, stationa	ary
Model	Dimensions L x W x H [mm]
309	950 x 360 x 720
469 / 609	950 x 435 x 710
279	950 x 420 x 710
239	950 x 305 x 760



90 litres, statio	nary
Model	Dimensions L x W x H [mm]
309	1150 x 380 x 790
469 / 609	1150 x 435 x 780
279	1150 x 420 x 780
239	1150 x 380 x 780



270 litres, stationary					
Model	Dimensions L x W x H [mm]				
469 / 609	1600 x 600 x 1020				
279	1600 x 600 x 1030				
559	1600 x 600 x 1110				
759	1600 x 600 x 1120				
	. 000				





With 50 litres, mobile Primus 5000 = 309 Primus 6000 = 469



With 90 litres, mobile Primus 6002 = 469 Primus 7002 = 609



With 200 litres, mobilePrimus 7004 = 609
Primus 8004 = 759



With 100 litres, mobileTrailer 6002 = 469
Trailer 7002 = 609

Compressed air systems

with horizontal tank and box



50 litres, stationary	1
Model	Dimensions L x W x H [mm]
309 / 239	950 x 515 x 880



•	•
Model	Dimensions L x W x H [mm]
309 / 239 460 / 600 / 270	1150 v 515 v 050

90 litres, stationary



270 litres, stationary				
Model	Dimensions L x W x H [mm]			
469 / 609	1600 x 620 x 1315			
279	1600 x 600 x 1180			
559 / 759	1600 x 620 x 1315			



500 litres, stationary				
Model	Dimensions			
	L x W x H [mm]			
559 / 759	2020 v 620 v 141			

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Compressed air systems

with horizontal tank, box and refrigerant dryer

Front view:



Rear view with refrigerant dryer:



270 litres, stationary

Model	Dimensions L x W x H [mm]
559 / 759	1650 x 860 x 1315

Compressed air twin systems

Two units on a horizontal tank Ideal in two ways:

- As an expandable system in the event of fluctuating demands for compressed air, or if the demand is set to rise in the near future.
- As a twin unit with double capacity for an increased demand for compressed air, or as a 100 % reserve compressor. Also available with sound insulation box.



300 litres, stationary

	•
Model	Dimensions L x W x H [mm]
309 / 279	1750 x 620 x 975
469 / 609	1750 x 620 x 965
559 / 759	1750 x 660 x 1075



300 litres, stationary

ывно	
not not	
559	1750 x 1010 x 1300
309 / 469 609 / 279	1750 x 795 x 1070
Model	Dimensions L x W x H [mm]

500 litres, stationary	
Model	Dimensions L x W x H [mm]
559 / 759	2020 x 660 x 1175

500 litres, stationary

Model	Dimensions L x W x H [mm]
559 / 759	2020 x 1010 x 1400

Compressed air systems

Upright

Unit on an upright tank

Space-saving and completely mounted on a 270 litre tank, ready for connection and immediate operation. Minimum installation effort. All components and equipment required for operation are included in the scope of delivery. Also available with refrigerant dryer and/or sound insulation box.



270 litres, stationary

Model	Dimensions L x W x H [mm]
239 / 279 469 / 609	680 x 780 x 1650
559 / 759	680 x 780 x 1780



500 litres, stationary

Dimensions L x W x H [mm]
925 x 835 x 1650
925 x 835 x 1780



270 litres, stationary

Model	Dimensions L x W x H [mm]
559 / 759	700 x 1150 x 1910



500 litres, stationary

Model	Dimensions L x W x H [mm]
559 / 759	800 x 1150 x 2050

Options

Retrofitting the refrigerant dryer is extremely simple.



The tank feet can be easily fitted with anti-vibration elements.



The Airkomat attachment kit (electronic condensate traps) are available for vertical and horizontal



The systems can also be designed with galvanised tanks. Oil-free systems are equipped with a galvanised tank as standard.



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