

The logo for Airpol, featuring the word "Airpol" in a bold, blue, sans-serif font. The letter "i" is lowercase and has a small red square above it. The background is a white rectangular area centered on a dark, blurred image of a scroll compressor's internal scroll vanes.

# **Airpol**

COMPRESSORS Ltd.

A red rectangular box containing the text "SCROLL COMPRESSORS" in white, uppercase, sans-serif font. The box is positioned at the bottom center of the page, overlapping the dark background image of the scroll compressor.

**SCROLL  
COMPRESSORS**

# AIRPOL SCROLL COMPRESSORS

with motor power from 2,2 kW up to 15 kW

Airpol scroll compressors can be used in all those applications that demand high-quality compressed air.

By making compressed air free of any oil, the compressors are suitable for medical applications, including dental care and drug production, as well as for the food industry, varnish manufacture, and many more.

## Low-noise compressor operation

The low noise intensity level in Airpol scroll compressors results both from reduced rotational speed of the compression scrolls and from the application of a sound-proof housing.

All Airpol sound-proof housings are internally covered with noise absorbing material with average sound absorption efficiency of 80%. With such protection, Airpol scroll compressors can be installed in virtually any working environment.

## Oil-free high-quality compressed air

In the innovative design of the scroll-based compression stage, metal surfaces of the scrolls do not come in contact with one another during compression. As a result, there is no need for using lubrication oil within the compression chamber. It means that the air being produced is free of any oil.

Furthermore, the temperature of compressed air is only 10°C above the ambient temperature.



## Enhanced service-life and reliability of scroll air ends

The innovative design of the scroll-based compression air end is a guarantee of long service life, reduced compressor vibrations and limited pulsations of compressed air.

The scroll-based compression air end is mainly built with stationary components that are perfectly symmetrical to ensure the compressor is well balanced, subject to small vibrations and quiet. With compression effected as a continuous process, pulsations of compressed air are significantly reduced. The rotor is supported by oversized roller bearings to ensure its long and trouble-free service life.



SUPERVISION  
AND SAFETY  
OF THE  
COMPRESSOR  
OPERATION

## Microprocessor controller Siemens in Airpol scroll compressors

It provides easy and clear view of compressor operating status and fast change of working pressure setting (within the approved by the manufacturer pressure settings range).



### Controller menu basic screens:

- compressor status and current compressed air pressure,
- pressure settings (set switch off / on pressure),
- sensor settings (pressure transducer amplification / displacement),
- pulse settings (switching on the condensate drain valve in Airpol SRT and Airpol SRKT),
- counters (compressor operating time, time to next maintenance service).



### Protection against:

- too high temperature of the compressed air,
- inadequate power supply parameters,
- compressor overload.

## Remote monitoring

It is available via web browser or via the LOGO! mobile application, which is available for Android and iOS systems.

The remote connection gives you the possibility to collect some diagnostic information from the controller and to preview the duplicated operator panel.

## Compressed air treatment system in scroll compressors Airpol SRT and Airpol SRKT series

The compact design equipment dedicated to the users who have a small working area and are looking for an efficient compressor station with increased cleanliness class.

### Integrated compressed air treatment system



**Prefilter** – high porosity of the nonwoven fabric, which the filter element is made of, ensures high ability to store dust. It guarantees removal of 99% of solid particles larger than 3  $\mu\text{m}$ .

**Refrigeration dryer** – removes moisture from compressed air to the required dew point of +3°C. The air relative humidity, that upstream the dryer is 100%, is reduced to only 21%.

**Fine filter** – element is made of high density multilayer microfibre. By using the single fibre diffusion and coalescence phenomena, 99.9% of solid particles larger than 0,1  $\mu\text{m}$  are removed.

Both compressed air filters and refrigeration dryer are equipped with automatic drain valves.

### Benefits resulting from the use of compressed air:

- longer life of the pneumatic tools,
- undisturbed technological process,
- reliable operation of the compressed air operated machines,
- reduction of costs related to inspections and repairs of machines,
- limitation of the compressed air plant corrosion,
- elimination of unscheduled downtime in production.



HIGH QUALITY  
OF COMPRESSED AIR  
1.4.1 class - according  
to ISO 8573.1

Model	Capacity <sup>*)</sup>		Nominal motor power	Air receiver volume	Overall dimensions (L x D x H)	Compressed air connections	Weight	Noise level <sup>**)</sup>		
	8 bar	10 bar								
	m3/h	m3/h	kW	l	mm	kg	db(A)			
<b>SCROLL COMPRESSORS – STANDARD VERSION</b>										
	Airpol SRK 2	14,4	12	2,2	240	1500 x 608 x 1172	G 1/2	240	54	
		14,4	12	2,2	500	1990 x 608 x 1290		280	54	
	Airpol SRK 4	24	-	4	240	1500 x 608 x 1172	G 1/2	245	54	
		24	-	4	500	1990 x 608 x 1290		290	54	
	Airpol SRK 5	36	26,4	5,5	240	1500 x 608 x 1172	G 1/2	250	58	
		36	26,4	5,5	500	1990 x 608 x 1290		300	58	
	Airpol SRK 7	51	-	7,5	500	1990 x 608 x 1290	G 1/2	330	59	
		-	38,4	2,2 i 5,5	500	1920 x 608 x 1880		450	59	
		72	52,8	2 x 5,5	500	1920 x 608 x 1880		G 1/2	510	61
	Airpol SRK 11	72	52,8	2 x 5,5	500	1920 x 608 x 1880	G 1/2	510	61	
		102	-	2 x 7,5	500	1920 x 608 x 1880		G 3/4	550	61
		102	-	2 x 7,5	500	1920 x 608 x 1880		G 3/4	550	61
	Airpol SR 2	14,4	12	2,2	-	1205 x 608 x 1210	G 1/2	190	54	
	Airpol SR 4	24	-	4	-	1205 x 608 x 1210	G 1/2	210	54	
	Airpol SR 5	36	26,4	5,5	-	1205 x 608 x 1210	G 1/2	240	58	
	Airpol SR 7	51	-	7,5	-	1205 x 608 x 1210	G 1/2	280	59	
		-	38,4	2,2 i 5,5	-	1205 x 608 x 1210		300	59	
	Airpol SR 11	72	52,8	2 x 5,5	-	1205 x 608 x 1210	G 1/2	370	61	
Airpol SR 15	102	-	2 x 7,5	-	1205 x 608 x 1210	G 3/4	410	61		
<b>SCROLL COMPRESSORS – WITH COMPRESSED AIR TREATMENT SYSTEM</b>										
	Airpol SRKT 2	14,4	12	2,2	240	1500 x 608 x 1172	G 1/2	290	54	
		14,4	12	2,2	500	1990 x 608 x 1290		330	54	
	Airpol SRKT 4	24	-	4	240	1500 x 608 x 1172	G 1/2	295	54	
		24	-	4	500	1990 x 608 x 1290		335	54	
	Airpol SRKT 5	36	26,4	5,5	240	1500 x 608 x 1172	G 1/2	350	58	
		36	26,4	5,5	500	1990 x 608 x 1290		375	58	
	Airpol SRKT 7	51	-	7,5	500	1990 x 608 x 1290	G 1/2	390	59	
		-	38,4	2,2 i 5,5	500	1920 x 608 x 1880		480	59	
	Airpol SRKT 11	72	52,8	2 x 5,5	500	1920 x 608 x 1880	G 1/2	560	61	
		102	-	2 x 7,5	500	1920 x 608 x 1880		G 3/4	600	61
	Airpol SRT 2	14,4	12	2,2	-	1110 x 608 x 1210	G 1/2	240	54	
	Airpol SRT 4	24	-	4	-	1110 x 608 x 1210	G 1/2	245	54	
	Airpol SRT 5	36	26,4	5,5	-	1110 x 608 x 1210	G 1/2	290	58	
	Airpol SRT 7	51	-	7,5	-	1110 x 608 x 1210	G 1/2	330	59	
		-	38,4	2,2 i 5,5	-	1490 x 608 x 1210		350	59	
	Airpol SRT 11	72	52,8	2 x 5,5	-	1490 x 608 x 1210	G 1/2	420	61	
Airpol SRT 15	102	-	2 x 7,5	-	1490 x 608 x 1210	G 3/4	460	61		

\*) Capacity measured acc. to EN ISO 1217:2006 and EN ISO 5167-2.

\*\*) Noise level acc. to EN ISO 2151.

In scroll compressors Airpol SRT and Airpol SRKT series - pressure dew point of the refrigeration air dryer: +3°C, 1.4.1 compressed air quality class, acc. to ISO 8573.1.

The manufacturer reserves the right to make changes and/or improvements in designs and dimensions without notice and without incurring obligation.

**Airpol Compressors Ltd.**

**HEADQUARTERS**

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