



# AQUARIUS I

OIL-FREE · WATER INJECTED ·  
SCREW COMPRESSORS · 15 - 75 KW

## SCC'S UNCOMPROMISING COMPRESSED AIR SOLUTIONS WITH THE BEST PRICE-PERFORMANCE RATIO

SCC air compressors stand for quality, innovation and unbeatable value for money. Our high-performance compressed air solutions – from oil-free and oil-injected compressors to modern treatment systems – offer maximum efficiency and durability, ideal for small workshops to large industrial plants.

Our products combine state-of-the-art technology with energy efficiency to reduce your operating costs and protect the environment. Thanks to simple maintenance and reliable operation, they also impress under demanding conditions.

As a strong partner, we support you from consultation to maintenance. With SCC, you benefit from innovative technologies and economical solutions that revolutionise your compressed air supply.

“Take advantage of the oil-free Genie – a water-injected screw compressor with direct drive and permanent motor.”

## OVERVIEW OF AQUARIUS I MODELS

AQUARIUS I 15	15 kW · 8 bar · 10 bar	01
AQUARIUS I 18	18,5 kW · 8 bar · 10 bar	02
AQUARIUS I 22	22 kW · 8 bar · 10 bar	03
AQUARIUS I 30	30 kW · 8 bar · 10 bar	04
AQUARIUS I 31	30 kW · 8 bar · 10 bar	05
AQUARIUS I 37	37 kW · 8 bar · 10 bar	06
AQUARIUS I 45	45 kW · 8 bar · 10 bar	07
AQUARIUS I 46	45 kW · 8 bar · 10 bar	08
AQUARIUS I 56	55 kW · 8 bar · 10 bar	09
AQUARIUS I 75	75 kW · 8 bar · 10 bar	10



AQUARIUS I 15-30

“Find out more about the technical performance values on page 9.”

## OVERVIEW OF CUSTOMER BENEFITS

Clean and oil-free compressed air is not just a quality feature in many areas of industrial production, it is an absolute must. There is no room for compromise. Based on decades of experience in this field, SCC has developed a new range that meets all the requirements for oil-free compressed air production. The AQUARIUS series uses water-injected screw compressors, which means that no oil is required for the compression process. There is no need for a fresh water supply or water treatment as the water is recirculated from the refrigerant dryer.

### ✓ IE4-PERMANENT MAGNET MOTOR

Permanent magnet motors are characterised by significantly better efficiency compared to the asynchronous motors used as standard. Our PM motors have an efficiency rating better than efficiency class IE4 in accordance with standard EN 60034-30:2009 and therefore offer the best possible energy efficiency for industrial motors today.

### ✓ 100 % OIL-FREE COMPRESSED AIR

The AQUARIUS series is the perfect solution for applications that require maximum air purity. Thanks to its innovative technology, it delivers 100 % oil-free compressed air in accordance with ISO 8573-1 Class 0 - which means maximum safety for sensitive processes.

### ✓ DIRECT DRIVE

Our AQUARIUS compressors are direct driven, i.e. the motor is directly connected to the compressor stage. This allows us to avoid efficiency losses of up to 2 % in the power transmission from the motor to the compressor element.

## AQUARIUS I - THE OIL-FREE GENIUS FOR MAXIMUM EFFICIENCY

AQUARIUS compressors meet all the requirements for clean, oil-free compressed air with maximum compression efficiency and therefore an excellent energy balance. Speed control also helps to save energy by matching output to actual demand. Our aim is to help reduce the carbon footprint through improved technology and the highest standards of energy efficiency. At our headquarters in Wendlingen near Stuttgart, Germany, we are constantly working on new solutions for compressed air generation.



AQUARIUS I 46-56

### ✓ VARIABLE SPEED CONTROL

The variable speed control (VSD) precisely adjusts the motor speed of the compressor to the current air requirement. This reduces energy consumption by up to 35 %, avoids idle times and extends the service life of the components. It also ensures a stable compressed air supply and reduces operating costs.

### ✓ LOW COMPRESSOR TEMPERATURES

The low compressor temperatures reduce the risk of overheating. As a result, the compressed air quality remains consistently high without thermal stress on the materials.

### ✓ REMOVES DUST PARTICLES WITH WATER

Removing dust particles with water effectively binds dirt, prevents fine particles from being whirled up and ensures more thorough cleaning. This improves the air quality and reduces the build-up of deposits in the machine and filters. This method also reduces wear and maintenance costs.



Compressor stage



Permanent magnet motor

## 2 YEAR SERVICE GUARANTEE

✓ Our compressors come with a 2-year warranty as standard. For maximum safety and long-term protection, you can optionally extend the warranty to 5 years.

# INSIGHT INTO COMPONENTS AND TECHNOLOGY

Our compressors are not only powerful machines, but also masterpieces of modern engineering. Behind their robust housing lies a world of high-precision technology in which every component is perfectly harmonised. Every detail has been developed with the aim of maximising efficiency, reliability and durability.

01



## MINIMUM PRESSURE VALVE

The minimum pressure valve also acts as a non-return valve and prevents compressed air from entering the water tank in the opposite direction. The housing and corrosion-resistant materials allow the valve to operate smoothly over a very long period of time.

02



## INTAKE FILTER

A large intake filter reduces the pressure loss in the air and guarantees a long service life.

03



## COMPRESSOR STAGE

The compressor stage operates highly efficiently and, unlike dry-running systems, does not lose efficiency over its service life.

04



## IE4 PERMANENT MAGNET MOTOR

Permanent magnet motors with efficiency class IE4 offer the best possible energy efficiency.

05



## STAINLESS STEEL CONTAINER

The stainless steel tank is generously dimensioned so that the water can cool down accordingly and low operating temperatures ensure high energy efficiency of the compressor.

06



## SUCTION REGULATOR

The intake regulator is made of bronze and is designed for an extremely long service life.

07



## INTELLIGENT CONTROLLER

With its intuitive user guidance and many functions, the intelligent control unit offers all the options for optimising the compressor to the current operating situation.

08



## WATER FILTER

The generously dimensioned water filter ensures the required water quality. It also guarantees a long service life.

09



## SACRIFICIAL ANODE

The sacrificial anode protects all functional parts made of other metals against corrosion.





AQUARIUS I 37-45

## APPLICATION IN THE INDUSTRY

Compressed air is crucial for modern industrial processes, from manufacturing and food production to medical technology and construction. Our compressors fulfil the different requirements of numerous industries. They provide reliable, energy-efficient and high-quality compressed air. Whether in sensitive applications or robust environments – our solutions increase efficiency and productivity.

### MEDICINE AND HOSPITALS

Our oil-free compressors deliver hygienic, clean compressed air for medical devices and operating theatres – reliably and safely.



### PHARMACEUTICAL INDUSTRY

Our oil-free compressors provide pure, reliable compressed air for pharmaceutical applications and production processes.



### FOOD INDUSTRY

Our oil-free compressors deliver hygienic, reliable compressed air for food production and packaging.

### AND MANY MORE

Our oil-free compressors provide reliable, pure compressed air for numerous industries such as the painting, electronics and construction industries as well as many others.



## AQUARIUS I PERFORMANCE VALUES

Model	Nominal Power [kW]	Nominal Flow		Dimensions			Weight [kg]	Sound Level [dB(A)]
		8 bar	10 bar	Length [mm]	Width [mm]	Height [mm]		
AQUARIUS I 15	15	0,95 - 2,02	0,85 - 1,66	1.650	980	1.850	840	69 +/-3
AQUARIUS I 18	18,5	0,59 - 2,49	0,85 - 2,21	1.650	980	1.850	845	70 +/-3
AQUARIUS I 22	22	0,59 - 3,01	0,58 - 2,61	1.650	980	1.850	850	70 +/-3
AQUARIUS I 30	30	0,59 - 3,30	0,58 - 3,25	1.650	980	1.850	860	73 +/-3
AQUARIUS I 31	30	1,48 - 4,34	1,44 - 3,72	2.014	1.500	1.700	1.300	70 +/-3
AQUARIUS I 37	37	1,40 - 5,42	1,36 - 4,76	2.014	1.500	1.700	1.350	71 +/-3
AQUARIUS I 45	45	1,36 - 5,77	1,29 - 5,69	2.014	1.500	1.700	1.410	74 +/-3
AQUARIUS I 46	45	3,16 - 7,49	3,06 - 6,50	2.448	1.330	1.930	1.600	73 +/-3
AQUARIUS I 56	55	3,16 - 9,34	3,06 - 8,12	2.448	1.330	1.930	1.610	76 +/-3
AQUARIUS I 75	75	3,20 - 12,21	3,05 - 11,01	2.448	1.330	1.930	1.620	79 +/-3

Performance data according to ISO 1217, Annexe E.  
Subject to technical changes and errors excepted.

## SCC LUBRICATING GREASE

An oil-free air compressor does not use lubrication with compressor oil in the compression chamber. Since compression takes place without oils or oil-containing substances, we have the same requirements for the lubricating grease of the ball bearings. This further increases the high standard of compressed air quality.

### ✔ PREVENTS OIL CONTAMINATION

As no oils are used, the compressed air remains clean and free of oily residues, which is particularly important in sensitive applications such as the food and pharmaceutical industries.

### ✔ LONGER SERVICE LIFE

The grease provides stable lubrication and protects the compressors parts of the compressors from wear, which extends the service life of the compressor.

### ✔ EXCELLENT TEMPERATURE RESISTANCE

Lubricating grease remains stable even at high temperatures and ensures continuous performance without the risk of lubricant degradation or evaporation.



## SCC ORIGINAL-SPARE PARTS

SCC original spare parts meet the highest quality standards and stand for tested safety and durability. Our manufacturer specifications for spare parts as well as comprehensive checks and tests guarantee maximum functionality, ease of installation and reliability.

### ✔ HIGH QUALITY

SCC original spare parts stand for the highest quality, exceptional durability and maximum reliability. Every spare part is regularly subjected to stringent tests to ensure consistently high performance. Thanks to continuous further development, they are always state of the art and fulfil the highest demands.

### ✔ FAST DELIVERY

SCC original spare parts are always available quickly and reliably thanks to our extensive dealer network. Our partners ensure that the required parts are delivered quickly and installed professionally. In this way, we guarantee minimum downtimes and smooth maintenance of your systems.

### ✔ FAIR PRICE-PERFORMANCE RATIO

SCC original spare parts impress with an excellent price-performance ratio that optimally combines quality and economy. They offer a long service life and reliable performance, which can reduce costs in the long term. Customers benefit from a product that is both technically and financially convincing.



## ABOUT US

SCC air compressors is a provider of innovative compressed air solutions specialising in maximum efficiency, reliability and quality at the best price-performance ratio. With a wide range of industrial air compressors and compressed air accessories, we offer customised solutions for various industries, from manufacturing to medical technology.

Our products are characterised by advanced technology and environmental awareness. We focus on long-term partnerships with our customers and suppliers in order to achieve sustainable success together. We combine the tried and tested with the new and focus on loyalty, responsibility and environmental protection. Open to innovation and reliable in all areas - these are our principles.

Our employees are the driving force behind our success, and their motivation helps us to find solutions and dare to try new things. Our customers are at the centre of everything we do, and we build on respect, honesty and long-term relationships. Thanks to carefully selected suppliers, we can guarantee the quality of our products and work together successfully.

“Our mission: quality, innovation and sustainability - for compressed air solutions that increase efficiency and create real added value.”

## SMART. CLEVER. COST EFFICIENT.

These characteristics are reflected in every component. Our technologies not only offer outstanding efficiency, but also help you to reduce operating costs. So you benefit from reliable performance and a sustainable investment for the future.



### UNBEATABLE PRICE-PERFORMANCE RATIO

Our compressors combine top performance, high efficiency and low operating costs – for a long-term profitable investment.



### HIGHEST QUALITY

Quality is our top priority – thanks to state-of-the-art technology and stringent controls, our compressors offer maximum reliability and durability.



### TÜV ISO 9001 CERTIFIED

Tested top quality – TÜV ISO 9001 certification makes SCC air compressors a safe choice.



### VDMA AND BRITISH COMPRESSED AIR SOCIETY MEMBER

As a member of the VDMA and the British Compressed Air Society, we benefit from a strong international network and dialogue with industry experts.



## OUR SERVICES

Our services and performance offer you customised solutions for maximum efficiency and reliability. As experts in compressor technology, we understand the requirements of your industry and ensure that you always get the best performance. From selecting the right compressor to long-term maintenance, we offer you everything you need to optimise your operations. Rely on our many years of experience and innovative technology to make your production processes safe and sustainable.



### COMPREHENSIVE ADVICE

SCC is your competent partner for all aspects of your compressed air station and compressed air application, whether it is a planned new purchase, addition or revision of the existing compressed air system or because you simply want to be sure that your compressed air system is running efficiently. With our expertise and experience, we can help you to find the best possible solution to your problem.



### MAINTENANCE AND SERVICE

From checking the installation to optimising energy consumption, we offer comprehensive services for your compressed air station. We check your system for faults and leaks, analyse the compressed air demand with our data logger and simulate the optimum setting for your compressors. In this way, we help you to reduce costs and extend the service life of your devices.



### TRAINING

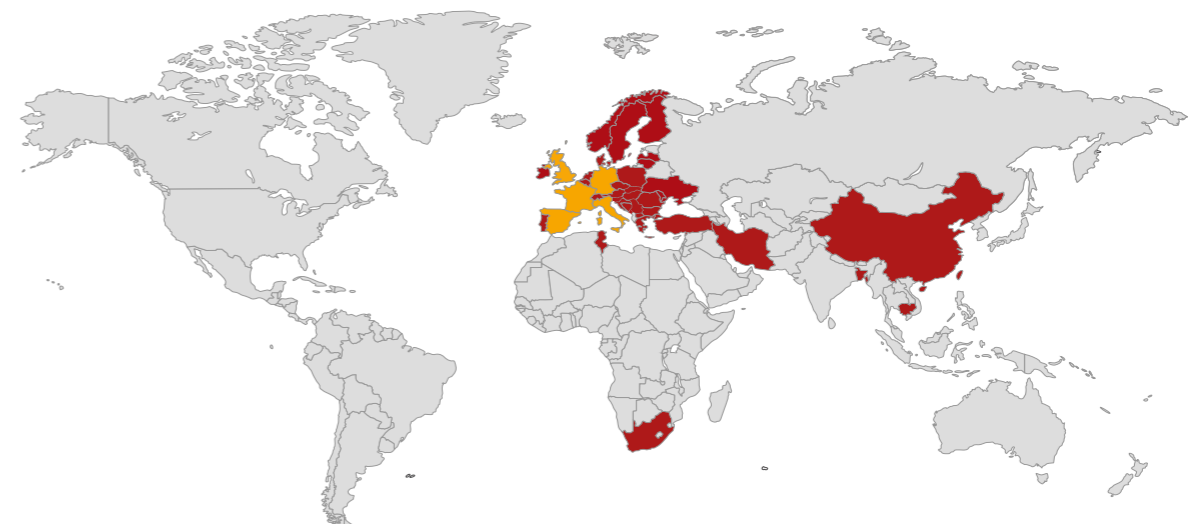
We provide you with practical knowledge and specialised knowledge of compressors, compressed air systems and their maintenance. This enables you to increase the efficiency of your systems, recognise potential faults at an early stage and reduce operating costs in the long term. Contact us to find out more about our training programme.

“Our services increase your efficiency and ensure the long-term operation of your systems.”




## EUROPE-WIDE SALES AND SERVICE NETWORK


Our head office is located in Wendlingen am Neckar near Stuttgart. We support our Europe-wide dealer network and our direct customers via our branches in the UK, Italy and Spain as well as our sales organisation in France. This ensures that you always have a competent contact person close to you.






## CONTACT US

 Tolpec GmbH  
Wertstraße 44  
73240 Wendlingen  
Germany

 [contact@scc-aircompressors.com](mailto:contact@scc-aircompressors.com)

 +49 7024 4088-0

 [www.scc-aircompressors.com](http://www.scc-aircompressors.com)

