



# LIQUID RING VACUUM PUMP KS510 (W9)

**Range:** 65 to 3000 mbar  
**Capacity:** Up to 625 m<sup>3</sup>/h  
**Power:** 7,5 - 45 Kw

**PROVEN  
TECHNOLOGY**

SAMSON PUMPS liquid ring vacuum pump KS510 is designed to meet the demands in continuous and rough areas and wet processes.

The KS510 is as standard equipped with fully welded stainless steel rotor and shaft and mechanical shaft seals ensuring a long life and low operating costs.



## FEATURES

- Stainless steel rotor & shaft
- Mechanical shaft seals
- Wide applicability
- Few components
- Choice of materials

## BENEFITS

- Long life time cycle
- Low maintenance costs
- Cost effective performance
- Reliability and flexibility
- Low noise emission
- Vacuum und pressure

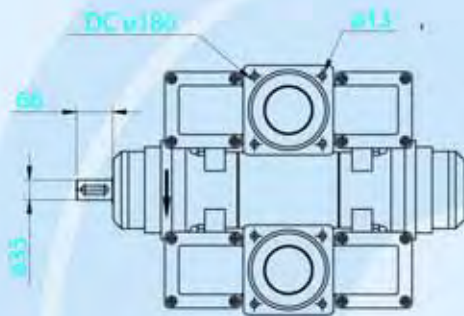
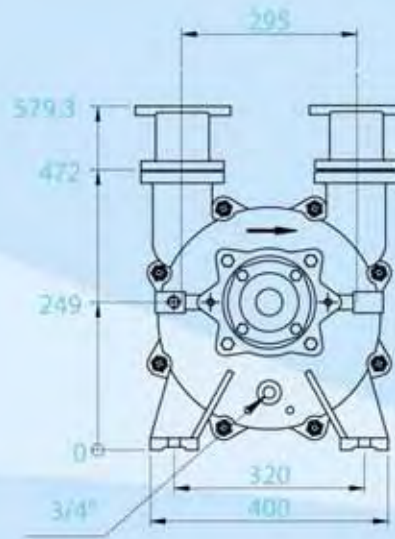
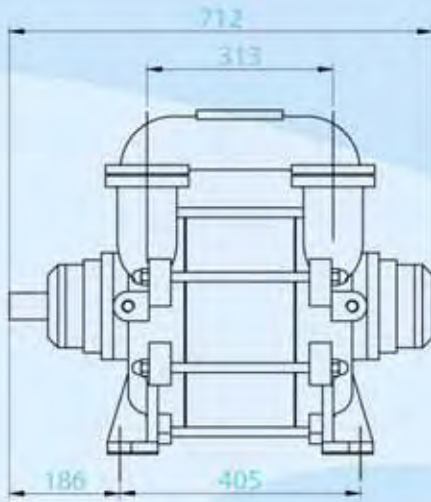
The KS510 liquid ring vacuum pump has the latest technology incorporated. It is produced and tested under strict and continuous quality control to ensure a reliable operation.

## APPLICATION AREAS

SAMSON PUMPS KS510 liquid ring vacuum pumps are used in a wide spectrum of industrial environments such as processing, food and fishing industry and off-shore.

SAMSON PUMPS

# TECHNICAL SPECIFICATIONS



Technical data			
Weight ex. branch pipes		kg	190
Sound pressure		db(A)	78-80
Test pressure		bar,g	5
Rotation speed range		rpm	1000-1800
<sup>1)</sup> Gas temperature, max.		°C	120
<sup>2)</sup> Service liquid temperature, max.		°C	90
Bearing, greasable		-	Ball
Pump colour		RAL	5021

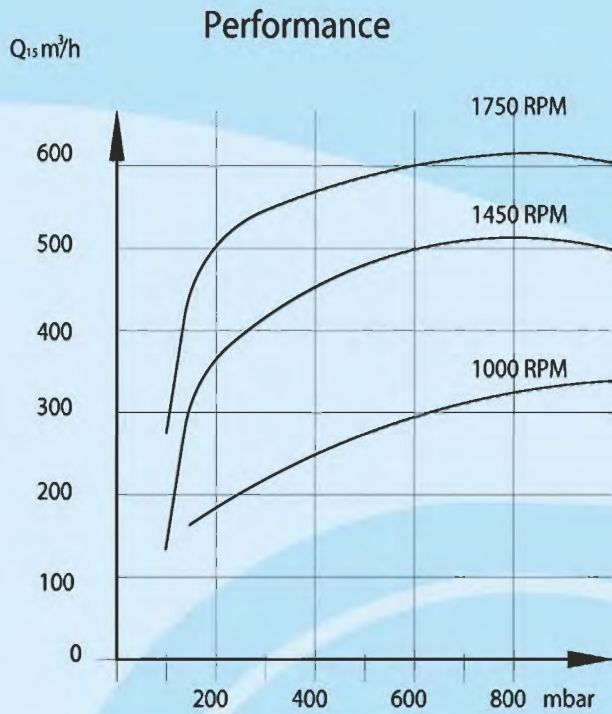
<sup>1)</sup> Pumps with ATEX certificate, max. temperature 80 °C

<sup>2)</sup> Pumps with ATEX certificate, max. temperature 50 °C

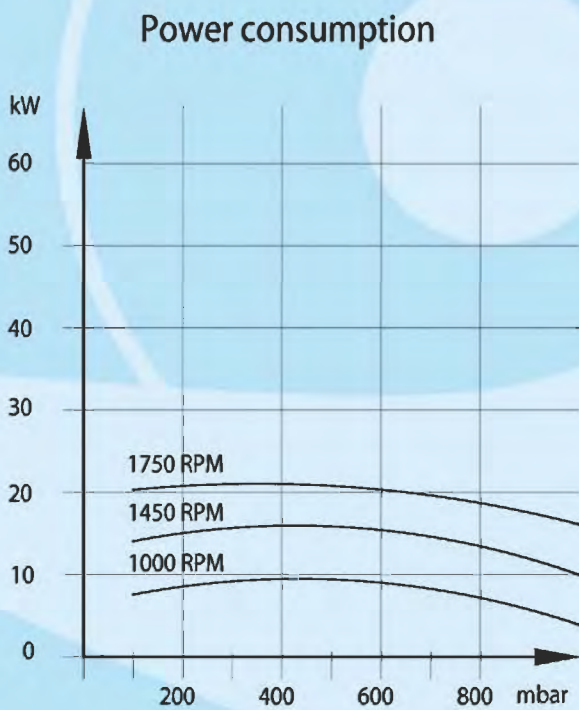
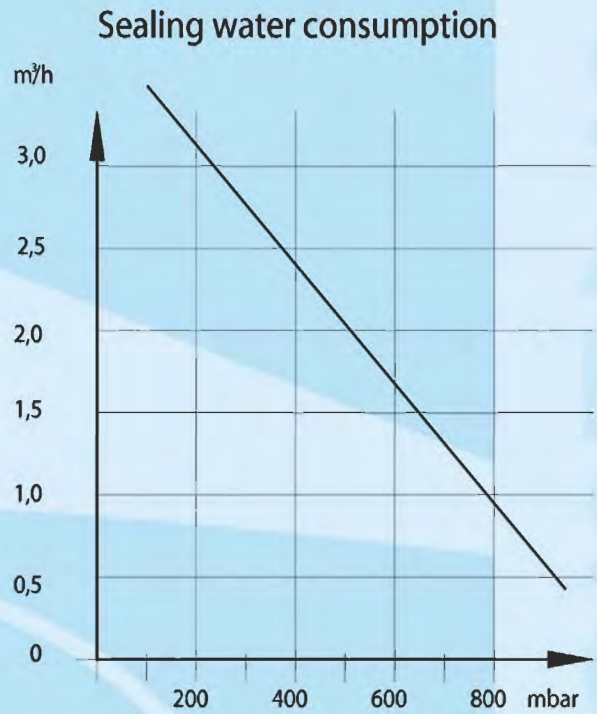
Material specification				
Component/material	Cast iron	St. steel	Bronze	Composite
Pump housing	EN-GJL-250 EN 1561	-	-	-
Casing	EN-GJL-250 EN 1561	WST 1.4404	-	-
Flow plates	EN-GJL-200 EN 1561	WST 1.4401	GC-CU Sn12 DIN 1705	-
Rotor	-	WST 1.4404	-	-
Shaft	-	WST 1.4418	-	-
Mechanical sealing	Carbon / NBR / stainless steel (AISI 316)			



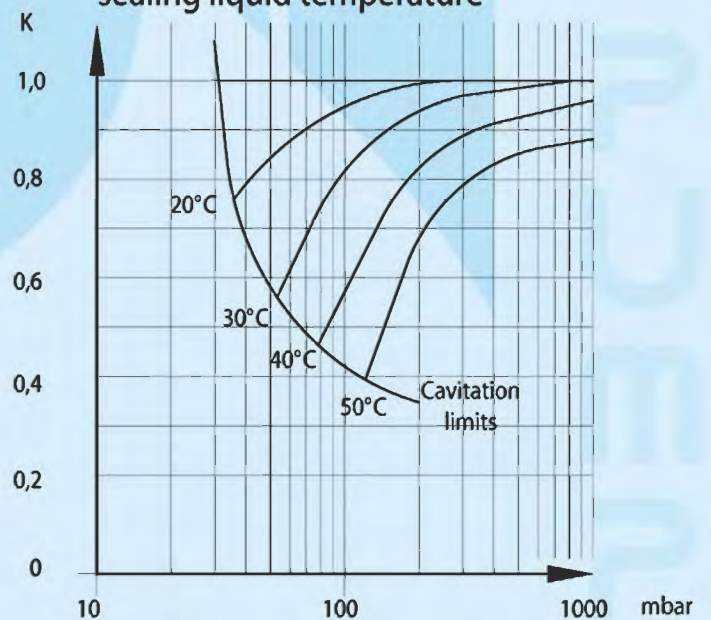
# KS510 (W9) VACUUM PERFORMANCE



Air temperature 20°C  
 Sealing water temperature 15°C  
 Performance based on dry air at 1013 mbar  
 Tolerance +/- 10%



### Correction factor based on sealing liquid temperature

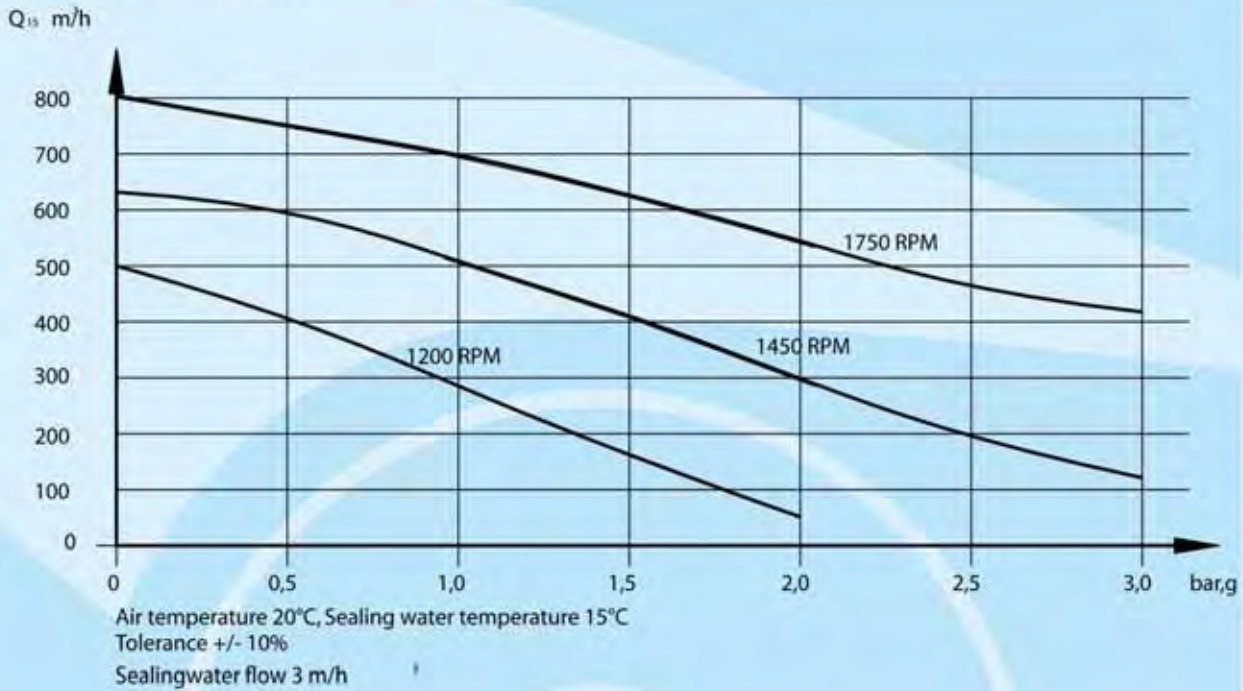


$Q_t = Q_{15} * K$   
 Pump performance at temperature of sealing liquid higher than 15°C

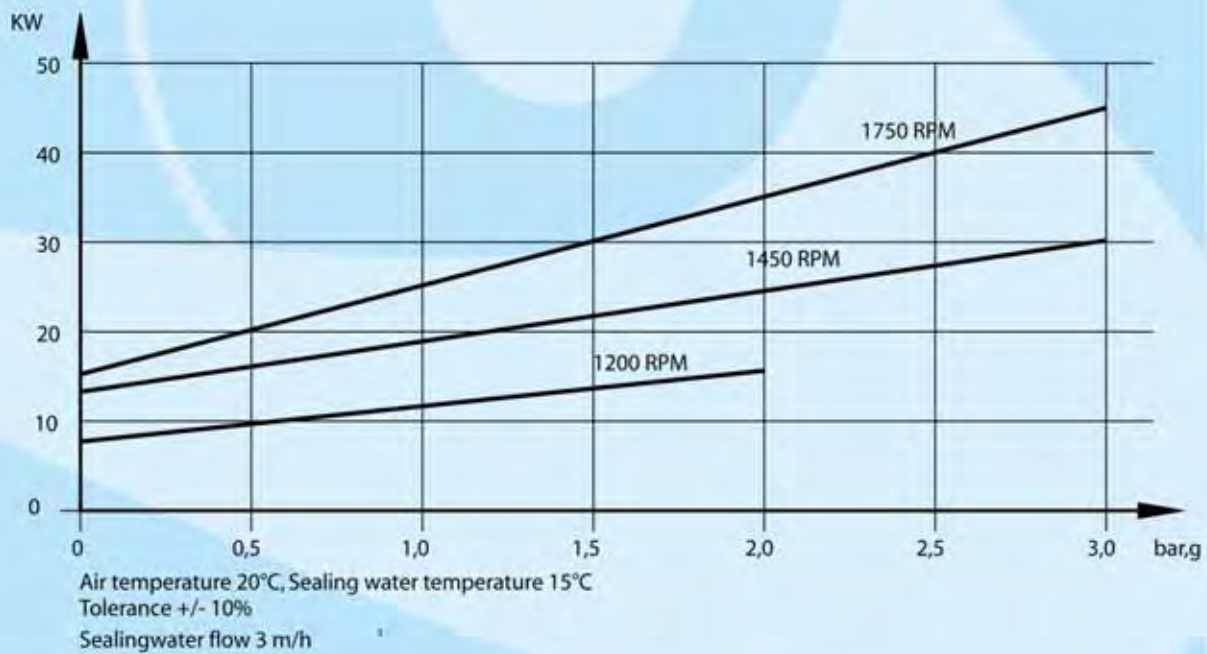


# KS510 PRESSURE PERFORMANCE

## Performance



## Power consumption



WILHELM RUDERFIM