

## SAMPLE COOLERS SC32 and SC132

### DESCRIPTION

The ADCA SC32 and SC132 sample coolers are specially designed to cool samples of boiler water or steam for analysis.

Sample coolers prevent steam flashing-off from hot pressurised liquid samples, which can be dangerous and may result in an incorrect sample.

These devices may be used for boiler water analysis and other sampling or cooling applications compatible with the construction materials.

### MAIN FEATURES

Corrosion-resistant body and internals.

Self draining sample (top inlet, bottom outlet).

**OPTIONS:**

- Sample inlet valve.
- Cooling water inlet valve.
- Temperature indicator.
- Bolted cover.
- Different connection sizes and materials on request.
- Double coil high pressure design for larger capacities.

**USE:** Steam boilers and hot water systems.

**AVAILABLE MODELS:** SC32 and SC132 – stainless steel body and coil.

**SIZES AND CONNECTIONS:**

- Cooling water inlet/outlet: 1/2" on body (ISO 7 Rp or NPT).
- Sample tube inlet/outlet: 8 mm O/D.

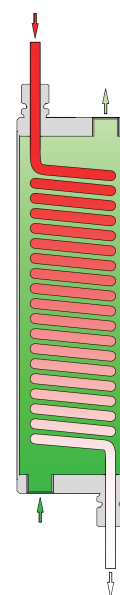
**INSTALLATION:**

- Vertical installation.
- See IMI – Installation and maintenance instructions.

**OPERATION:**

- Cooling water must be at its maximum flow before opening or closing the sample inlet valve, in order to avoid the risk of scalding.
- Sample valve must also be closed before opening the cooling water valve.
- Sample coil should always be completely immersed in water.

**PERFORMANCE:** 30 to 60 kg/h of sample liquid at  $\approx 30^\circ\text{C}$  with 1 m<sup>3</sup>/h of inlet cooling water at  $15^\circ\text{C}$ . For other pressures, temperatures and/or certified values, consult manufacturer.



#### CE MARKING – GROUP 2 (PED – European Directive)

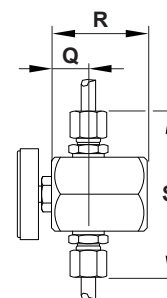
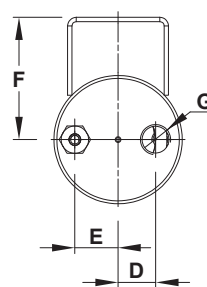
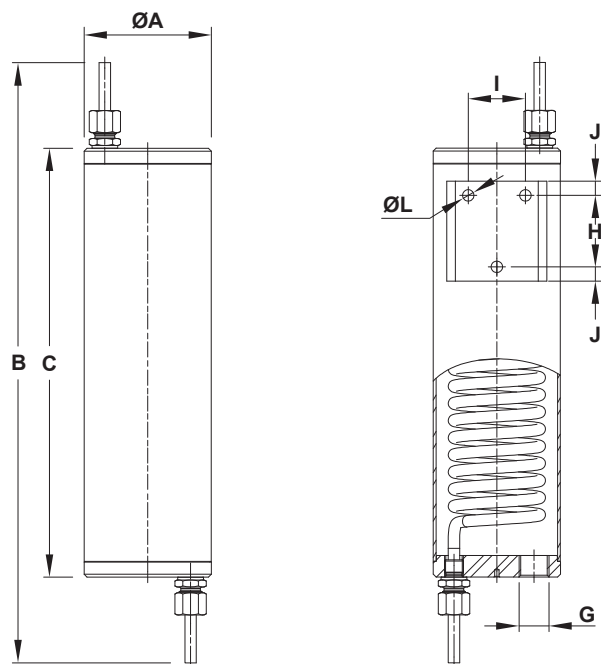
PS 20 bar	Category
All sizes	SEP

#### BODY LIMITING CONDITIONS

MODEL	BODY		COIL	
	ALLOW. PRESS.	RELATED TEMP.	ALLOW. PRESS.	RELATED TEMP.
SC32 SC132	20 bar	120 °C	110 bar	400 °C
			90 bar	450 °C

Minimum operating temperature:  $-10^\circ\text{C}$ .

Design code: AD-Merkblatt.

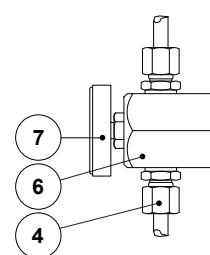
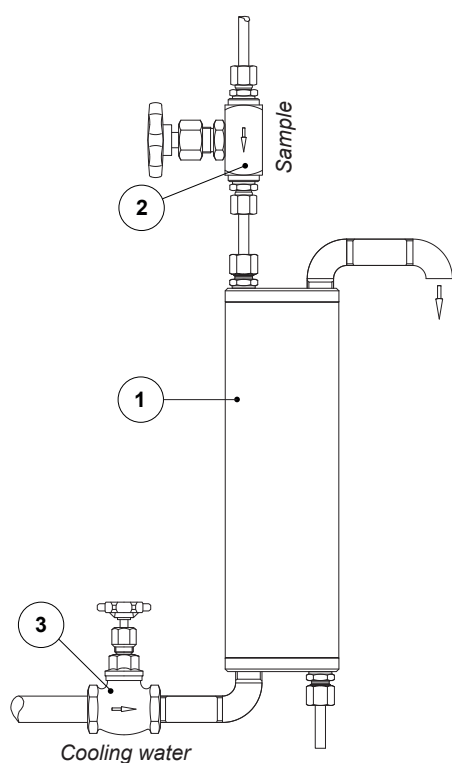


*Optional temperature indicator*

MATERIALS	
DESIGNATION	MATERIAL
Body	AISI 304 / 1.4301
Cover	AISI 304 / 1.4301
Coil	AISI 316L / 1.4404
Compression fitting	AISI 316Ti / 1.4571
Discharge tube	AISI 316L / 1.4404
Thermometer connection	AISI 316 / 1.4401

DIMENSIONS (mm)															
MODEL	ØA	B	C	D	E	F	G	H	I	J	ØL	Q	R	S	WGT. (kg)
SC32	90	420	300	26	30	85	1/2"	50	40	10	8	20	53	98	3,9
SC132	90	520	400	26	30	85	1/2"	50	40	10	8	20	53	98	4,8

## TYPICAL INSTALLATION



*Optional temperature indicator*

EQUIPMENT	
POS. N°	DESIGNATION
1	Sample cooler
2	Sample inlet valve ADCA NV400 *
3	Cooling water inlet valve ADCA GV32B *
4	Compression fittings (x2) 1/4" x 8 mm
6	Thermometer connection
7	Bimetallic thermometer

\* For operating conditions, check IS NV400.10 and IS GV32B.10.