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## SAMPLE COOLERS SC332 – SC432 – SC532



## SAMPLE COOLERS

### SC332 – SC432 – SC532

#### DESCRIPTION

The ADCA sample coolers were 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. This device 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.  
Counter-current flow for better performance.

**OPTIONS:** Sample inlet valve.  
Cooling water inlet valve.  
Temperature indicator.  
Bolted top plate.  
Different connection sizes and materials under request.

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

#### AVAILABLE

**MODELS:** SC332/SS – SC432/SS – SC532/SS - stainless steel body and coil.

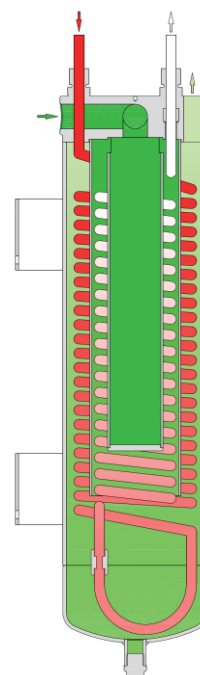
#### SIZES AND

**CONNECTIONS:** SC332 and SC332H.  
Cooling water inlet/outlet: 1/2" (BSP or NPT).  
Sample tube inlet/outlet: 10 mm O/D.  
SC432 and SC532; SC432H and SC532H.  
Cooling water inlet/outlet: 3/4" (BSP or NPT).  
Sample tube inlet/outlet: 10 mm O/D.

**INSTALLATION:** Vertical installation.

**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 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  $\approx 30$  °C with 1 m<sup>3</sup>/h of inlet cooling water at 15 °C, for other pressures, temperatures and/or certified values, consult factory.

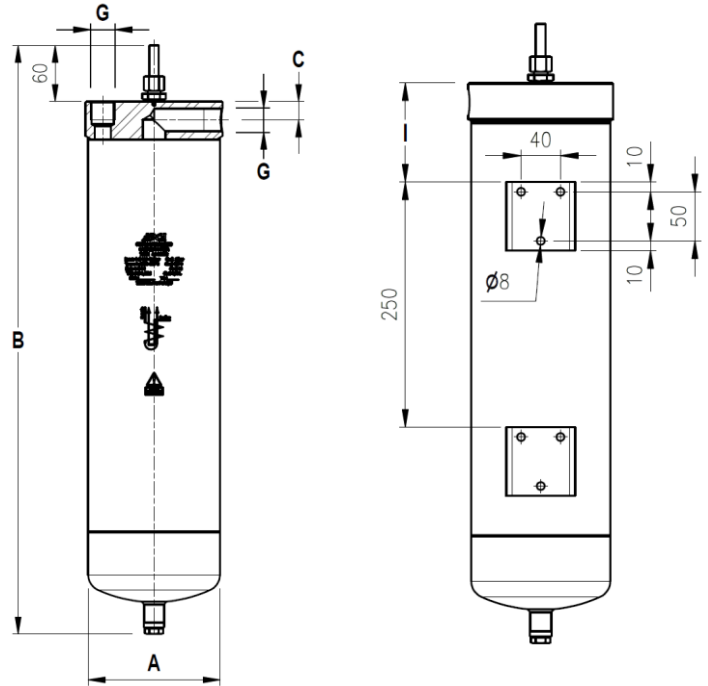
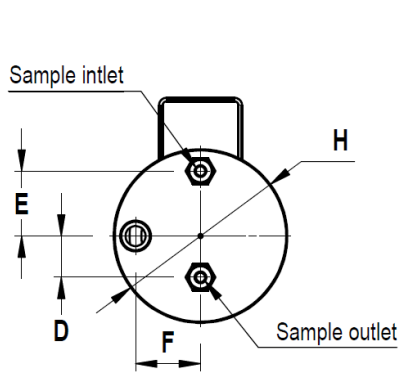


LIMITING CONDITIONS							
SC332 / SC432 / SC532				SC332H / SC432H / SC532H			
BODY		COIL		BODY		COIL	
Pressure (bar)	Related temp. (°C)	Pressure (°C)	Related temp. (°C)	Pressure (bar)	Related temp. (°C)	Pressure (bar)	Related temp. (°C)
20	120	130	300	20	120	280	300
		120	400			268	400
		110	450			260	450
		100	500			245	550

Min. operating temp.: -10 °C; Design code: AD-Merkblatt.

DIMENSIONS (mm)										
MODEL	A	B	C	D	E	F	G	H	I	WEIGHT (kg)
SC332	89	665	15	18	35	35	1/2"	100	96	9
SC432	141	631	20	35	55	55	3/4"	147	101	18,3
SC532	141	731	20	35	55	55	3/4"	147	151	22,3

Remarks: same dimensions for the version "H" (higher temperature).



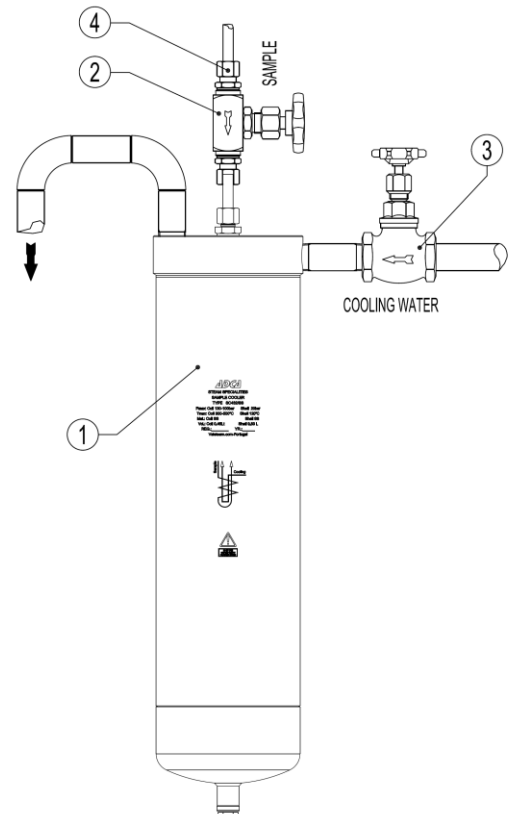
MATERIALS	
DESIGNATION	SC332 / SC432 / SC532
Body	AISI 304 / 1.4301 or AISI 316 / 1.401
Covers	AISI 304 / 1.4301 or AISI 316 / 1.401
Coil	AISI 316Ti / 1.4571
Compression fittings	AISI 316Ti / 1.4571
Discharge tube	AISI 316Ti / 1.4571

EN10204 3.1 certificate available if requested with the order.  
Same materials for version "H", except the coil thickness.

### TYPICAL INSTALLATION

MATERIALS	
POS. N°	DESIGNATION
1	Sample cooler
2	* Sample inlet valve ADCA NV-400
3	* Cooling water inlet valve ADCA GV32B
4	Compression fittings (x2) 3/8" x 10 mm

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



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