



SAMPLE COOLERS SC332, SC432 and SC532

DESCRIPTION

The ADCA SC332, SC432 and SC532 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.

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.

Counter-current flow for better performance.

OPTIONS: Sample inlet valve.

Cooling water inlet valve. Temperature indicator.

Bolted cover to allow inspection and cleaning.

Different connection sizes and materials on

request.

USE: Steam boilers and hot water systems.

AVAILABLE

MODELS: SSC332, SC432 and SC532 - stainless steel

body and coil.

All above models are available in high pressure

versions, e.g. SC332H/SS

SIZES AND

CONNECTIONS: SC332 and SC332H:

Cooling water inlet/outlet: 1/2" (ISO 7 Rp or NPT).

Sample tube inlet/outlet: 10 mm O/D. SC432, SC532, SC432H and SC532H:

Cooling water inlet/outlet: 3/4" (ISO 7 Rp or NPT).

Sample tube inlet/outlet: 10 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

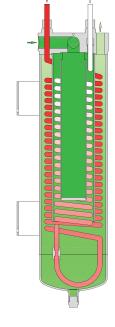
immersed in water.

PERFORMANCE: 30 to 60 kg/h of sample liquid at ≈30 °C with 1

m³/h of inlet cooling water at 15 °C. For other pressures, temperatures and/or certified values,

consult manufacturer.





CE N	MARKING – GROUP 2
(PED	- European Directive)

PS 20 bar	Category
All sizes	SEP

BODY LIMITING CONDITIONS

	ВО	DY	COIL				
MODEL	ALLOW. PRESS.	RELATED TEMP.	ALLOW. PRESS.	RELATED TEMP.			
			130 bar	300 °C			
SC332 SC432		100 °C	120 bar	400 °C			
SC432 20 bar SC532	100 °C	110 bar	450 °C				
			100 bar	500 °C			

Minimum operating temperature: - 10 °C. Design code: AD-Merkblatt.

BODY LIMITING CONDITIONS

	ВО	DY	COIL				
MODEL	ALLOW. PRESS.	RELATED TEMP.	ALLOW. PRESS.	RELATED TEMP.			
			280 bar	300 °C			
SC332H SC432H 20 b SC532H	20 har	100 °C	268 bar	400 °C			
	20 bai	100 °C	260 bar	450 °C			
			245 bar	550 °C			

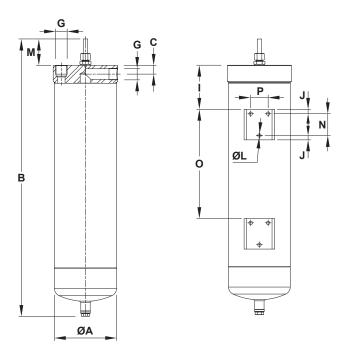
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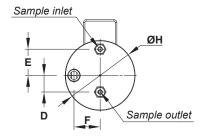
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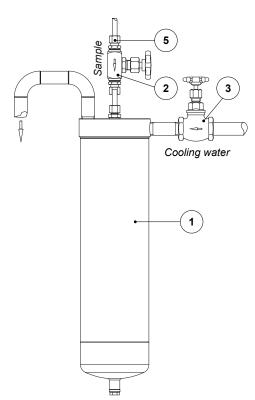


MATERIALS				
DESIGNATION	MATERIAL			
Body	AISI 304 / 1.4301 or AISI 316 / 1.4401			
Cover	AISI 304 / 1.4301 or AISI 316 / 1.4401			
Coil	AISI 316Ti / 1.4571			
Compression fitting	AISI 316Ti / 1.4571			
Discharge tube	AISI 316Ti / 1.4571			

						D	IMENSI	ONS (m	m)							
MODEL	ØA	В	С	D	E	F	G	ØН	I	J	ØL	М	N	0	Р	WGT. (kg)
SC332	89	665	15	18	35	35	1/2"	100	96	10	8	60	50	250	40	9
SC432	141	631	20	35	55	55	3/4"	147	101	10	8	60	50	250	40	18,3
SC532	141	731	20	35	55	55	3/4"	147	151	10	8	60	50	250	40	22,3

Remark: Same dimensions for high pressure versions.

TYPICAL INSTALLATION



EQUIPMENT					
POS. Nº	DESIGNATION				
1	Sample cooler				
2	Sample inlet valve ADCA NV400 *				
3	Cooling water inlet valve ADCA GV32B *				
5	Compression fitting (x2) 3/8" x 10 mm				

^{*} For operating conditions, check IS NV400.10 and IS GV32B.10.