

## SAMPLE COOLERS SC32F and SC132F (With Funnel)

### 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.

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

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

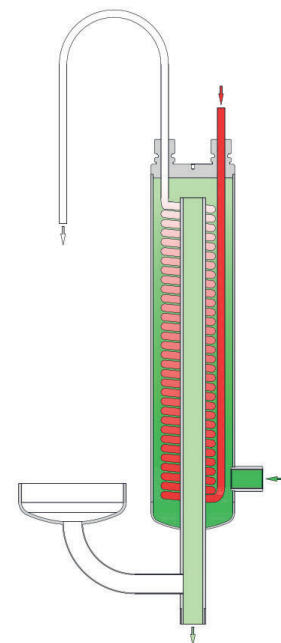
**AVAILABLE MODELS:** SC32F/SS and SC132F/SS – stainless steel body and coil.

**SIZES AND CONNECTIONS:** Cooling water body inlet 1/2", outlet 3/4" (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>/ of inlet cooling water at 15 °C (boilers up to 20 bar – 220 °C), for other pressures, temperatures and/or certified values, consult manufacturer.

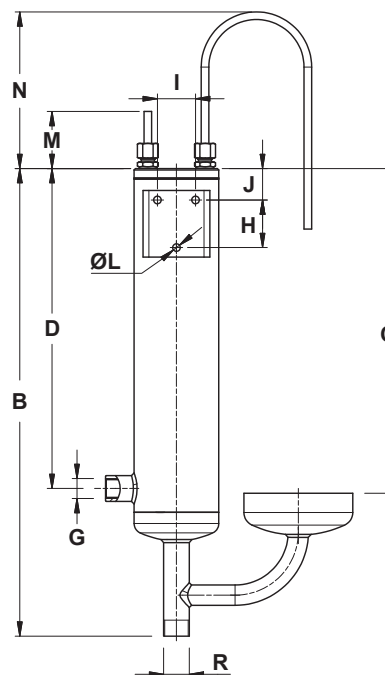
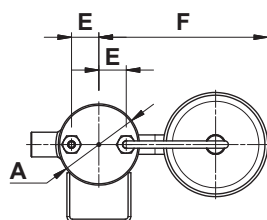


#### LIMITING CONDITIONS

| MODEL           | BODY          |               | COIL          |               |
|-----------------|---------------|---------------|---------------|---------------|
|                 | ALLOW. PRESS. | RELATED TEMP. | ALLOW. PRESS. | RELATED TEMP. |
| SC32F<br>SC132F | 20 bar        | 120 °C        | 110 bar       | 400 °C        |
|                 |               |               | 90 bar        | 450 °C        |

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

| MATERIALS              |                     |
|------------------------|---------------------|
| DESIGNATION            | MATERIAL            |
| Body and funnel        | AISI 304 / 1.4301   |
| Covers                 | AISI 304 / 1.4301   |
| Coil                   | AISI 316L / 1.4404  |
| Compression fittings   | AISI 316Ti / 1.4571 |
| Discharge tube         | AISI 316L / 1.4404  |
| Thermometer connection | AISI 316 / 1.4401   |



| DIMENSIONS (mm) |    |     |     |     |    |     |      |    |    |    |   |    |     |      |           |
|-----------------|----|-----|-----|-----|----|-----|------|----|----|----|---|----|-----|------|-----------|
| MODEL           | A  | B   | C   | D   | E  | F   | G    | H  | I  | J  | L | M  | N   | R    | WGT. (kg) |
| SC32F           | 90 | 491 | 341 | 336 | 30 | 185 | 1/2" | 50 | 40 | 33 | 8 | 60 | 165 | 3/4" | 4,5       |
| SC132F          | 90 | 590 | 341 | 336 | 30 | 185 | 1/2" | 50 | 40 | 33 | 8 | 60 | 165 | 3/4" | 5,5       |

### TYPICAL INSTALLATION

| MATERIALS |  |
|-----------|--|
| POS. N°   | MATERIAL                               |
| 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  |
| 5         | Thermometer connection                 |
| 6         | Bimetallic thermometer                 |
| 7         | Funnel                                 |

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

