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Request Quote

SENSOR
SAMPLING SYSTEMS

SAMPLE COOLERS



SENSOR sample coolers provide the most cooling efficiency allowing them to be suitable for applications in liquid, gas or steam processes. All materials are constructed of stainless steel which provides a rugged design and longer life span. These sample coolers are compatible with any brand of sampling system you have.

From a standard heat exchange area of 1.2 to 4.8 ft² (0.11 to 0.45 m²) the cooler provides the most flexible usage for different applications. The removable shell design can be easily maintained and cleaned after a period of use. Other materials are available upon request for corrosive environment applications.

The coolers consist of a stainless steel double helical coil, through which the sample flows, and a stainless steel shell, through which cooling water flows around the coil transferring heat from the process media to the cooling water.

Features & Benefits

- Dual helical coil design, provides a maximum heat exchange area
- Compact design minimizes cooling water needs
- Removable outer shell, provides easy maintenance and cleaning of the coils
- Highest efficiency sample cooler commercially available
- Exotic materials, such as titanium, Inconel® and Hastelloy® on the tube side and Monel®, cupronickel and stainless steel on the shell side are available, other materials available upon request
- Very close approach temperatures of existing sample with the cooling water entry
- One continuous coil to ensure low maintenance (no internal joints)
- Designed and manufactured in accordance with good engineering practices that meet the general requirements of ASME Boiler and Pressure Vessel Code, Section VIII, Division 1
- ASME U Stamp Certified Construction

Applications

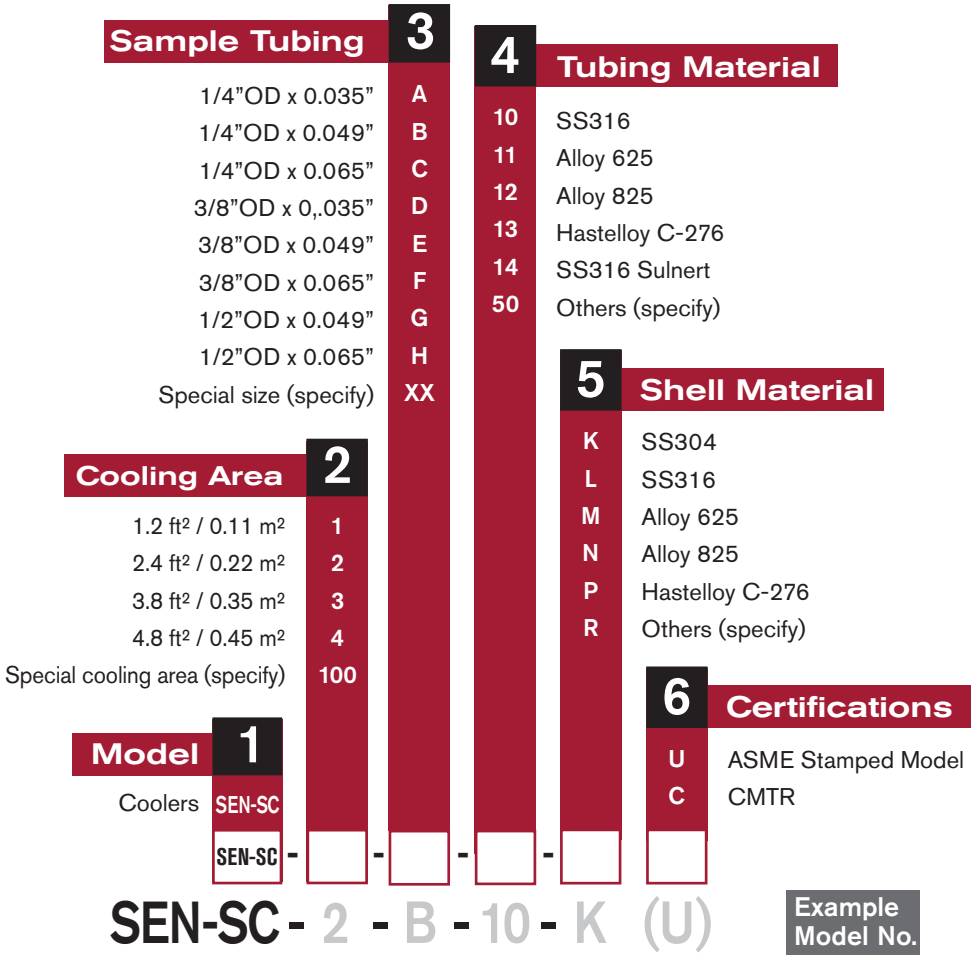
- Steam & water analysis systems
- Point of use cooling/sampling
- Grab sampling temperature reduction
- LNG (Liquefied Natural Gas) vaporization using steam

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Below is the quick select model number tree that provides you with all the options to configure and order a sampling system for your application.

- You must select a designator for each component
- Not all combinations are available. Check availability for different combinations on the standard cooler chart below.



Standard Coolers

MODEL	Cooling Area	Tube Material Size/Rating	Shell Material Rating	Weight Lb (Kg)
SEN-SC-1-B-10-K	1.2 ft2 0.11 m2	316SS -1/4"OD x 0.049" 3553 psig (245 bar) @ 1004°F (540°C)	304SS - 435 psig (30 bar) @ 392°F (200°C)	11 (5)
SEN-SC-1-B-10-L			316SS - 435 psig (30 bar) @ 392°F (200°C)	
SEN-SC-2-B-10-K	2.4 ft2 0.22 m2	316SS - 1/4"OD x 0.049" 3553 psig (245 bar) @ 1004°F (540°C)	304SS - 435 psig (30 bar) @ 392°F (200°C)	15.4 (7)
SEN-SC-2-B-10-L			316SS - 435 psig (30 bar) @ 392°F (200°C)	
SEN-SC-3-F-10-K	3.8 ft2 0.35 m2	316SS - 3/8"OD x 0.065" 3118 psig (215 bar) @ 1004°F (540°C)	304SS - 435 psig (30 bar) @ 392°F (200°C)	24-25 (11)
SEN-SC-3-F-10-L			316SS - 435 psig (30 bar) @ 392°F (200°C)	
SEN-SC-4-F-10-K	0.45 m2 4.8 ft2	316SS - 3/8"OD x 0.065" 3118 psig (215 bar) @ 1004°F (540°C)	304SS - 435 psig (30 bar) @ 392°F (200°C)	26-45 (12)
SEN-SC-4-F-10-L			316SS - 435 psig (30 bar) @ 392°F (200°C)	

All coolers are supplied with bracket in SS304. For other combinations, consult the factory.

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Specifications

Model*	SEN-SC-1-B-10-K	SEN-SC-1-B-10-L
Cooling area	1.2 ft² (0.11 m²)	
Tube material / size	316SS 1/4"OD x 0.049"	
Tube rating	3553 psig (245 bar) @ 1004°F (540°C)	
Shell material	304 SS	316 SS
Shell rating	435 psig (30 bar) @ 392°F (200°C)	
Weight	11lb (5 kg)	
Optimal flow service		
Single phase	1000 cc/min	
Condensing heat transfer	700 cc/min	

**All coolers are supplied with bracket in SS304. For other combinations, please consult the factory.*



Connections

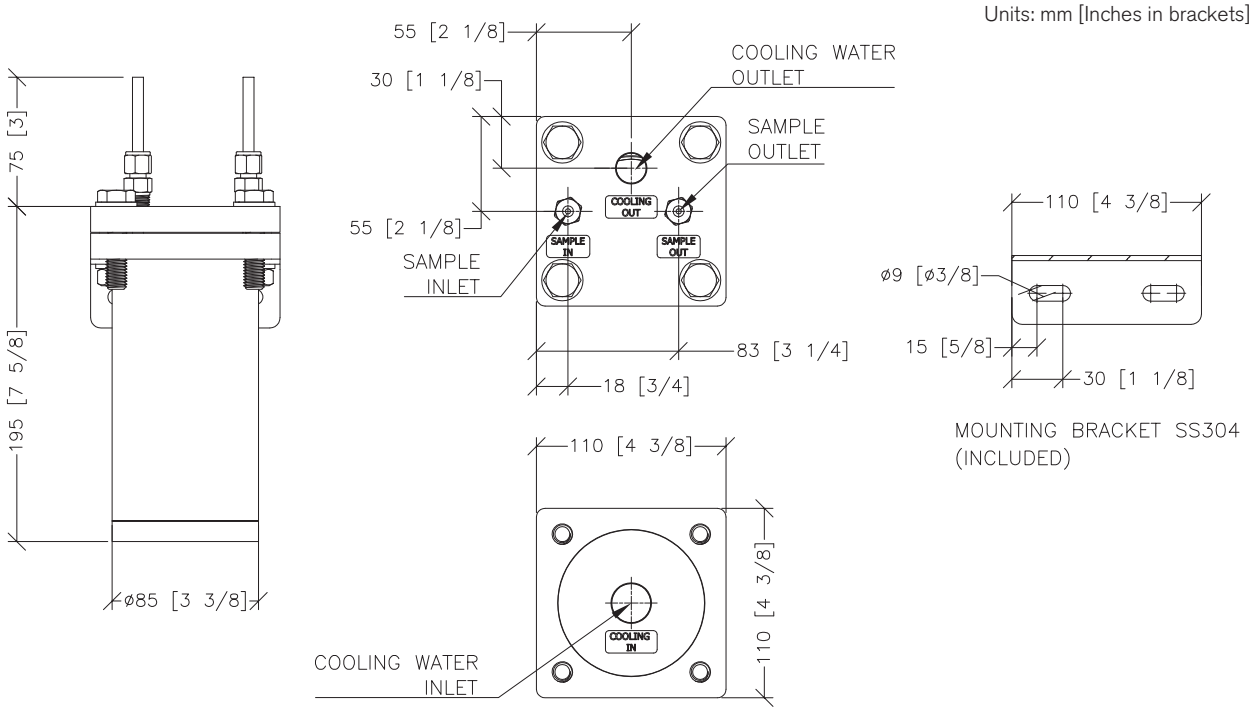
Name	Size & Type
Sample Inlet	1/4" OD Tube
Sample Outlet	1/4" OD Tube
Cooling Water Inlet	3/4" NPT(f)
Cooling Water Outlet	1/2" NPT(f)

Spare Parts

Name	Part#
Cover "O" ring for SEN-SC-1 / SEN-SC-2	CL20

Dimensions

Units: mm [Inches in brackets]



Design and specifications are subject to change without notice. For latest revision, contact the factory.

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Specifications

Model*	SEN-SC-2-B-10-K	SEN-SC-2-B-10-L
Cooling area	2.4 ft² (0.22 m²)	
Tube material / size	316SS 1/4"OD x 0.049"	
Tube rating	3553 psig (245 bar) @ 1004°F (540°C)	
Shell material	304 SS	316 SS
Shell rating	435 psig (30 bar) @ 392°F (200°C)	
Weight	7 lb (1.45 kg)	
Optimal flow service		
Single phase	1800 cc/min	
Condensing heat transfer	1100 cc/min	

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Connections

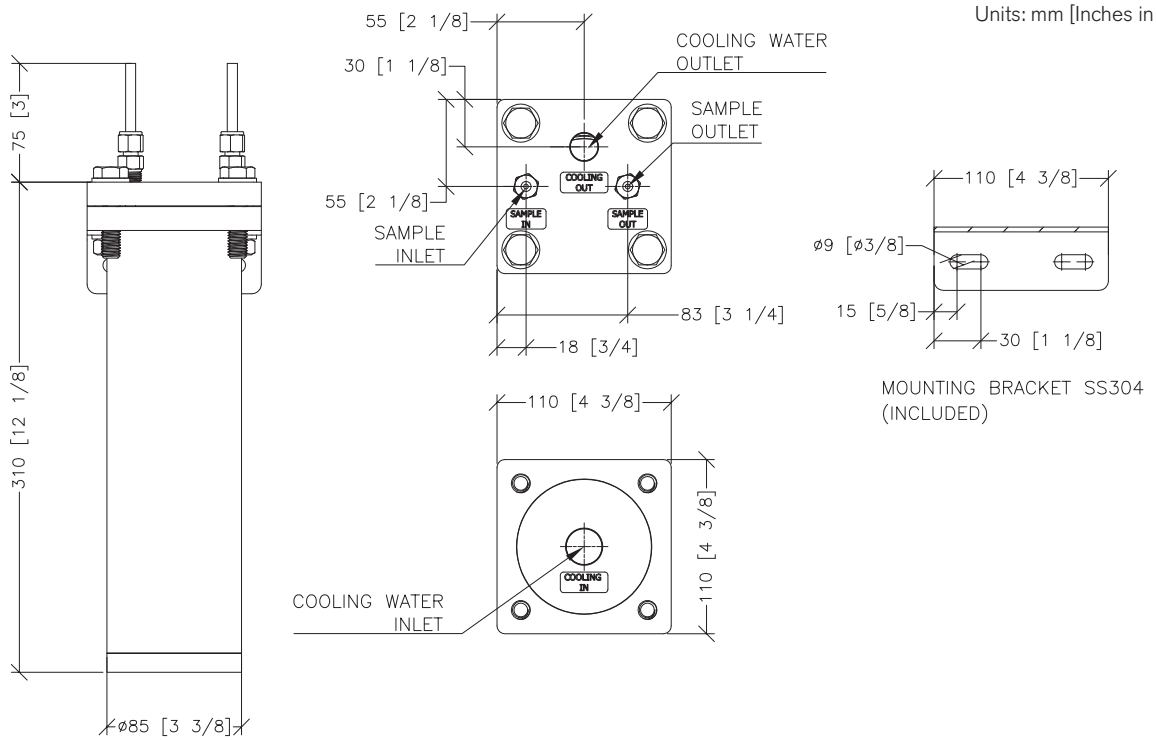
Name	Size & Type
Sample Inlet	1/4" OD Tube
Sample Outlet	1/4" OD Tube
Cooling Water Inlet	3/4" NPT(f)
Cooling Water Outlet	1/2" NPT(f)

Spare Parts

Name	Part#
Cover "O" ring for SEN-SC-1 / SEN-SC-2	CL20

Dimensions

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Specifications

Model*	SEN-SC-3-F-10-K	SEN-SC-3-F-10-L
Cooling area	3.8 ft² (0.35 m²)	
Tube material / size	316SS 3/8"OD x 0.065"	
Tube rating	3118 psig (215 bar) @ 1004°F (540°C)	
Shell material	304 SS	316 SS
Shell rating	435 psig (30 bar) @ 392°F (200°C)	
Weight	24-25 lb (11 kg)	
Optimal flow service		
Single phase	3500 cc/min	
Condensing heat transfer	2000 cc/min	

All coolers are supplied with bracket in SS304. For other combinations, please consult the factory.



Connections

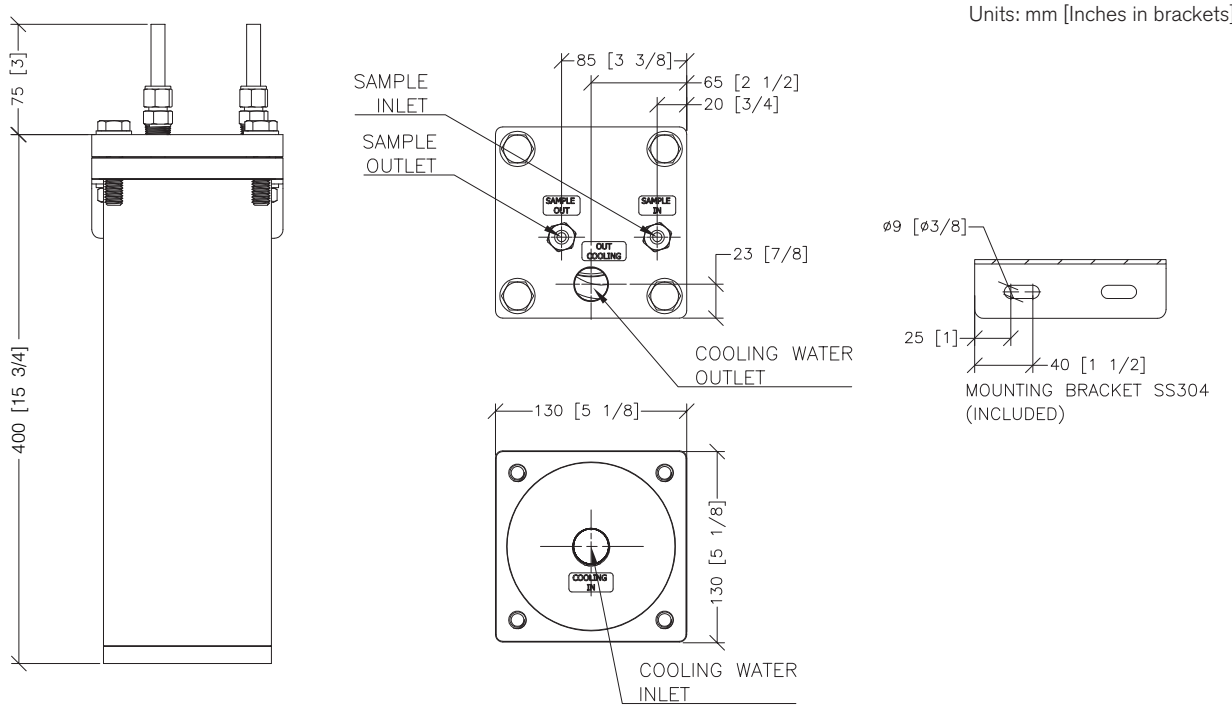
Name	Size & Type
Sample Inlet	3/8" OD Tube
Sample Outlet	3/8" OD Tube
Cooling Water Inlet	3/4" NPT(f)
Cooling Water Outlet	3/4" NPT(f)

Spare Parts

Name	Part#
Cover "O" ring for SEN-SC-3 / SEN-SC-4	CL30

Dimensions

Units: mm [Inches in brackets]



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Specifications

Model*	SEN-SC-4-F-10-K	SEN-SC-4-F-10-L
Cooling area	4.8 ft² (0.45 m²)	
Tube material / size	316SS 3/8"OD x 0.065"	
Tube rating	3118 psig (215 bar) @ 1004°F (540°C)	
Shell material	304 SS	316 SS
Shell rating	435 psig (30 bar) @ 392°F (200°C)	
Weight	26-45 lb (12 kg)	
Optimal flow service		
Single phase	5000 cc/min	
Condensing heat transfer	2000 cc/min	

**All coolers are supplied with bracket in SS304. For other combinations, please consult the factory.*



Connections

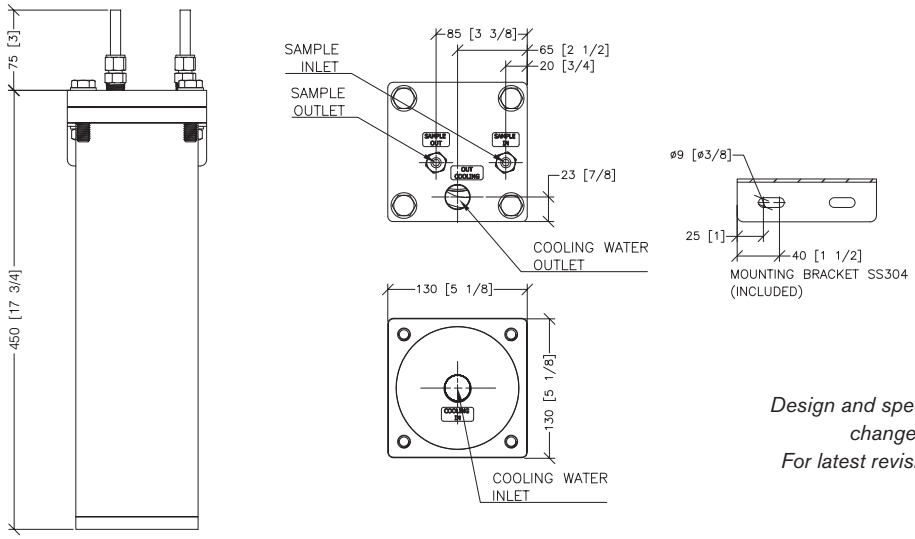
Name	Size & Type
Sample Inlet	3/8" OD Tube
Sample Outlet	3/8" OD Tube
Cooling Water Inlet	3/4" NPT(f)
Cooling Water Outlet	3/4" NPT(f)

Spare Parts

Name	Part#
Cover "O" ring for SEN-SC-3 / SEN-SC-4	CL30

Dimensions

Units: mm [Inches in brackets]



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