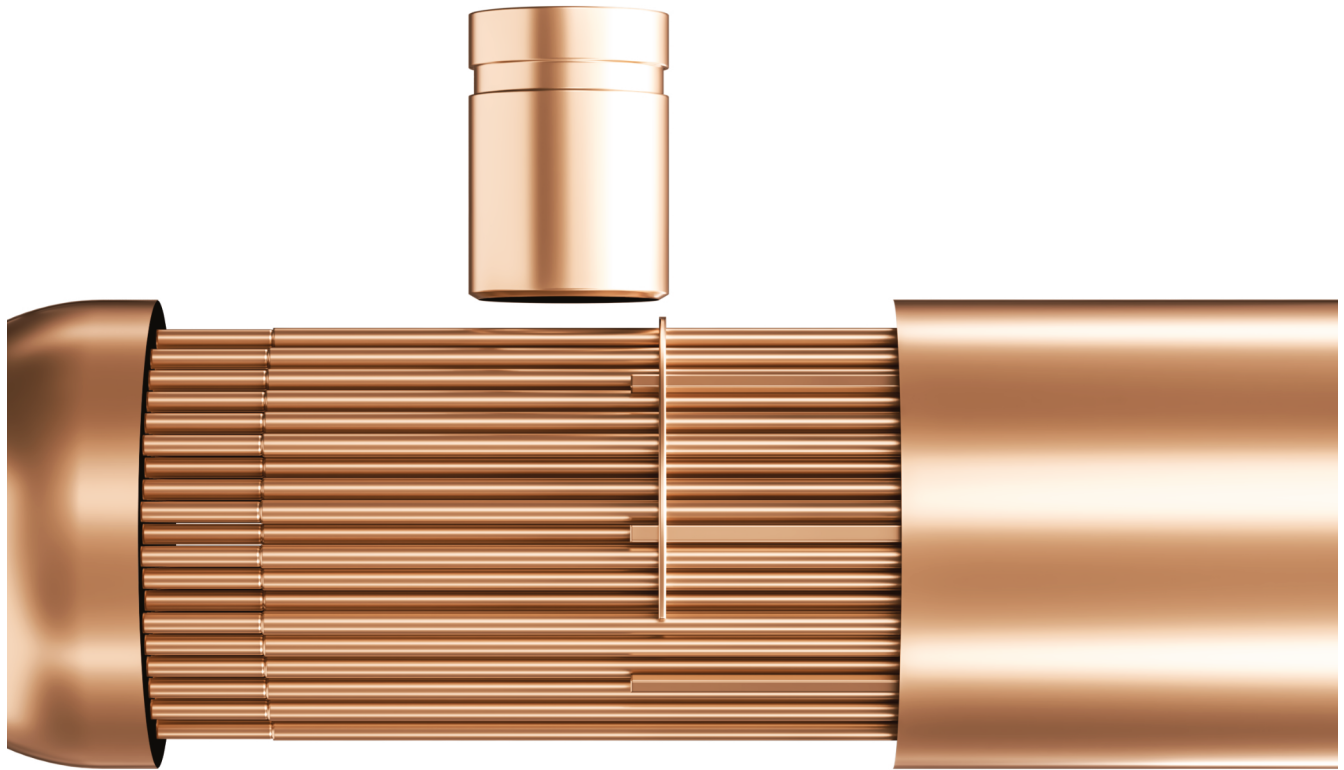


# COBRREX

DOUBLE-WALL COPPER TUBE HEAT EXCHANGERS



**COBEX**



## Double-wall copper tube heat exchangers

AIC continues the tradition of creating innovative heat transfer products with the introduction of the elite COBEX shell and tube heat exchanger.

Due to its proven double-wall tube design and corrosion resistant 100% copper construction, COBEX is the safest option available on the market for domestic water heating.

COPPER CONSTRUCTION ————— 100%



WELDED AND BRAZED ————— 100%

# Cobrex

**Available in two power outputs, this condensing heat exchanger offers outstanding performance in domestic water heating. Steam and water paths are 100% counterflow, providing the greatest possible output. The vertical design minimizes installation footprint and prevents condensate from collecting inside the unit.**

In order to increase the heat transfer on the water side, closely spaced directional baffles have been applied, producing a more turbulent flow of domestic water. Thanks to all these features, **COBREX** can generate instantaneously large amounts of hot water.

**COBREX** is an ideal solution for tankless instantaneous hot water generation. With water content under 8 liters (2gal), it can be also employed in semi-instantaneous hot water and hot water storage systems.

STAINLESS STEEL FLANGE

STEAM INLET

COMPLETE COPPER  
WELDED CONSTRUCTION

WATER OUTLET

EXPANSION JOINT

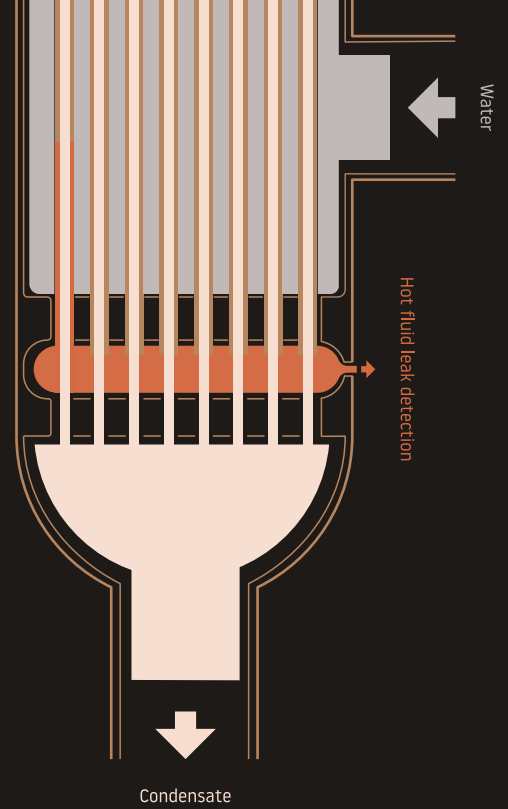
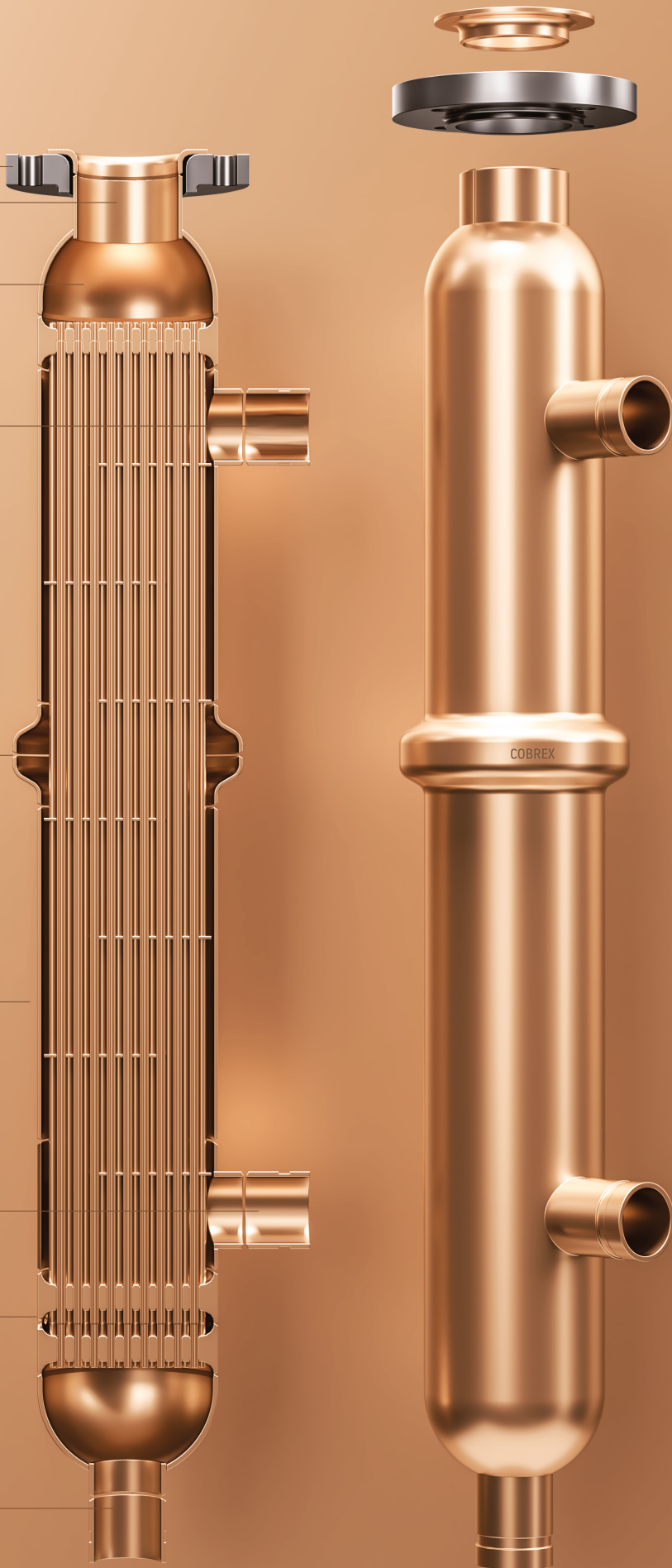
COMPACT VERTICAL  
INSTALLATION

WATER INLET

DOUBLE TUBESHEET

CONDENSATE OUTLET





#### DOUBLE-WALL SYSTEM

COBREX has a unique double-wall corrugated tubes design. The inner tubes are helically corrugated to induce a turbulent flow of the steam that maximizes heat transfer and prevents scaling.

This double-wall tube system offers a higher safety degree, avoiding steam and domestic water from mixing even in case of failure.

#### ADVANTAGES / MAIN FEATURES

**100% copper construction offers**

- higher corrosion resistance
- antimicrobial
- outstanding heat transfer efficiency

**double-wall helically corrugated tubes**

- maximize heat transfer
- prevent scaling

**multiple applications**

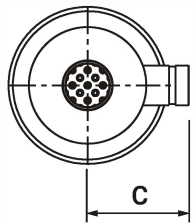
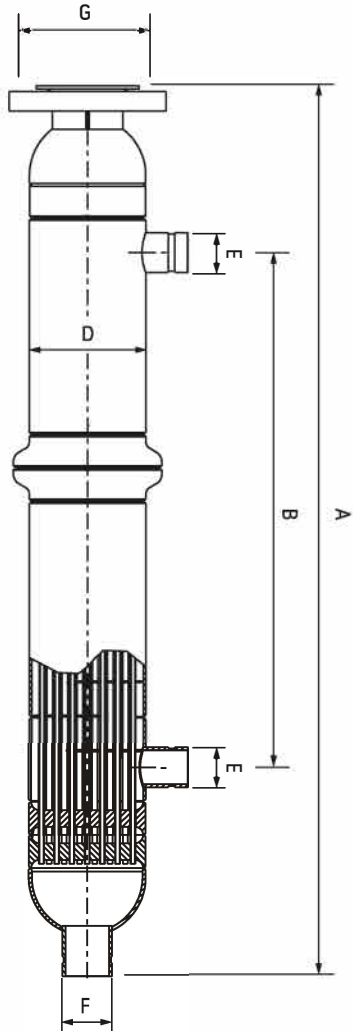
- tankless instantaneous hot water
- semi-instantaneous hot water
- hot water storage heaters

**parallel installation arrangement possible**

**counter-flow design**

**robust construction: 100% welded and brazed**

# Technical Product Specifications



## Cobrex 30

## Cobrex 60

### Weight

lbs	kg	lbs	kg
79	36	95	43

### Dimensions

	in	mm	in	mm
<b>A</b>	42.51	1079,7	42.51	1079,7
<b>B</b>	24.6	624,6	24.6	624,6
<b>C</b>	4.7	120	4.7	120
<b>D</b>	5.6	141,4	5.6	141,4
<b>E</b>	1.5		2	
<b>F</b>	2		2	
<b>G</b>	3		3	

### Standard design parameters

		Tubes	Shell
<b>Temperature</b>	°C	176	120
	°F	350	250
<b>Pressure</b>	bar	11	10
	PSI	160	150

### Materials of construction

#### Copper

Shell  
Tubes  
Heads  
Nozzles

#### Stainless steel

Flanges

## Available Connections

Other connections available upon request.

### Flange connection



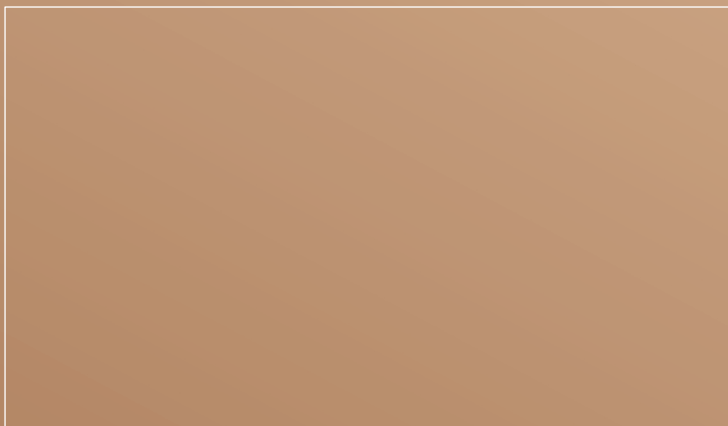
### Groove / Weld connection



AIC - experts in the field of design and engineering of heat exchangers and pressure vessels.

Today AIC has three production facilities in Europe, sales and distribution offices in North America and Asia.

*AIC heat exchangers are designed, manufactured and inspected in accordance with ASME Boiler and Pressure Vessel Code (BPVC) Sections IV, VIII-1 and PED 2014/68/EU regulations.*



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