Local regulations may restrict the use of this product to below the conditions quoted.
In the interests of development and improvement of the product, we reserve the right to change the specification without notice. © Copyright 2026

JC Series Condensate Cooler and Flash Steam Condenser

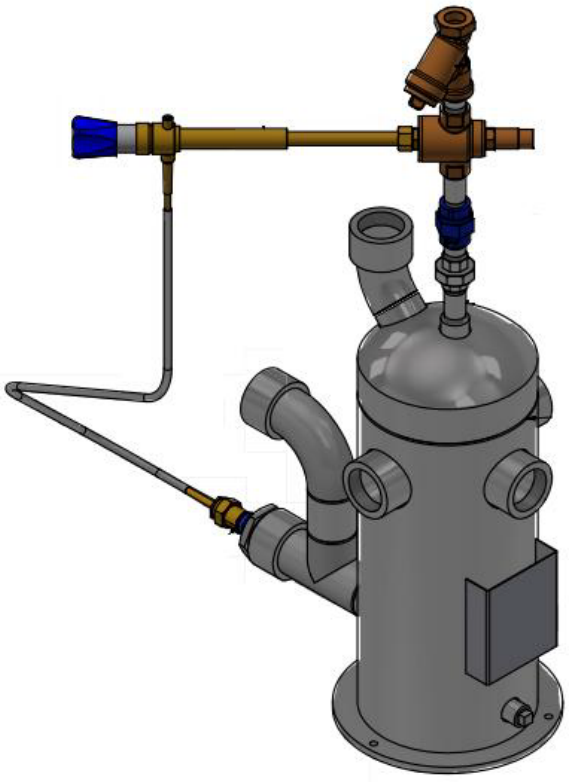
Description

The Spirax Sarco JC Series Condensate Cooler and Flash Condenser is designed to collect condensate from pressurized returns or humidifiers and blend it with cold water in order to safely discharge it to the drain, at a temperature that complies with local regulations. The cooler is sized to condense flash steam and cool the discharge to a maximum temperature of 140 °F.
Condensate is piped into the tank through one of three connections. Separate pressurized and non-pressurized condensate returns into individual connections.

A self-actuated flow control system regulates the quantity of cooling water needed in the tank. It takes the input reading from a temperature sensor installed on the outlet port. Cold water is sprayed through the spiral discharge nozzle into the tank in order to eliminate flash steam and reduce the condensate temperature to the desired discharge set point.

Available types

JC200C	5 USGPM of condensate @ 210 °F
	Cold water flow of 20 USGPM @ 60 psi g - Maximum 50 °F
JC200FCC †	5 USGPM of condensate @ 250 °F
	Cold water flow of 20 USGPM @ 60 psi g - Maximum 50 °F
JC210 - FCC316R	10 † - 10 USGPM of condensate @ 300 °F
	Cold water flow of 26 USGPM @ 60 psi g - Maximum 50 °F
JC320 - FCC316R	20 † - 20 USGPM of condensate @ 300 °F
	Cold water flow of 50 USGPM @ 60 psi g - Maximum 50 °F
JC440 - FCC316R	40 † - 40 USGPM of condensate @ 300 °F
	Cold water flow of 100 USGPM @ 60 psi g - Maximum 50 °F



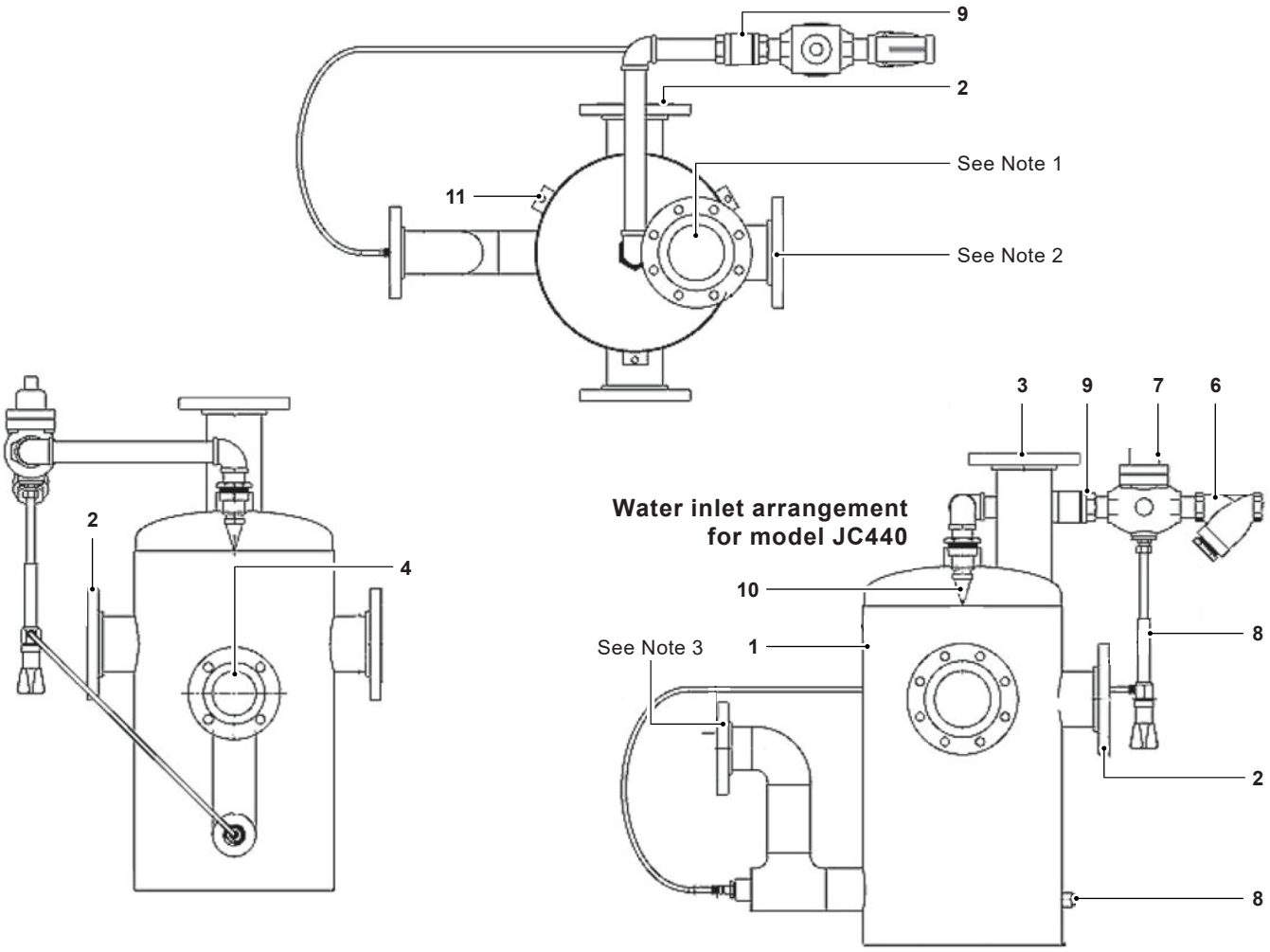
Certification

† ASME U-Stamp certification or Canadian CRN registration are available upon request.

Design conditions

Model	Design pressure
JC200C	0 psi g
JC200FCC	14.9 psi g
JC210 - FCC316R – 10	100 psi g
JC320 - FCC316R – 20	100 psi g
JC440 - FCC316R – 40	100 psi g

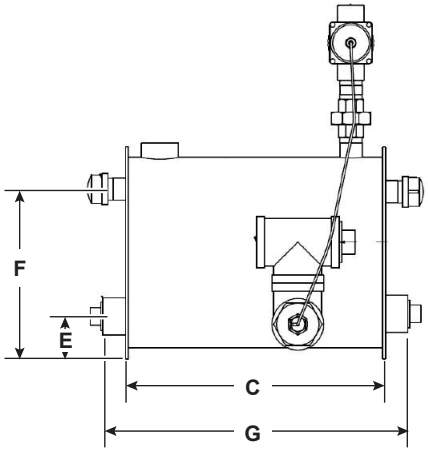
Materials



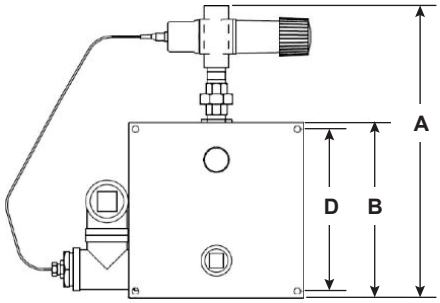
No.	Component	JC200C	JC200F CC	JC210	JC320	JC440
1	Condensate cooler body	304 SS		316L SS		
2	Condensate inlet	1" NPT	2" NPT	2" NPT	2½" NPT	4" ANSI 150-RF
3	Vent connection	1" NPT	2" NPT	2" NPT	2½" NPT	4" ANSI 150-RF
4	Condensate outlet	1½" NPT	2" NPT	2" NPT	2½" NPT	3" ANSI 150-RF
5	Drain connection (plugged)	1" NPT	½" NPT	½" NPT	½" NPT	½" NPT
6	Strainer- Model BT-Bronze B62	¾" NPT	¾" NPT	¾" NPT	1¼" NPT	1¼" NPT
7	Control valve - Bronze	¾" SBRA	¾" SBRA	¾" SBRA	1¼" KY51	1¼" KY51
8	Sensors	SA-122-230F-2M				
9	Check valve - SS CF3M	¾" DCV41	¾" DCV41	¾" DCV41	1¼"DCV41	1¼"DCV41
10	Spray nozzle - SS316	Spiral nozzle				
11	Lag holes	⅜" Ø				

Notes: 1. Size vent to suit site requirements
2. Size outlet piping to suit site requirements.
3. All connecting pipe work must be independently supported.

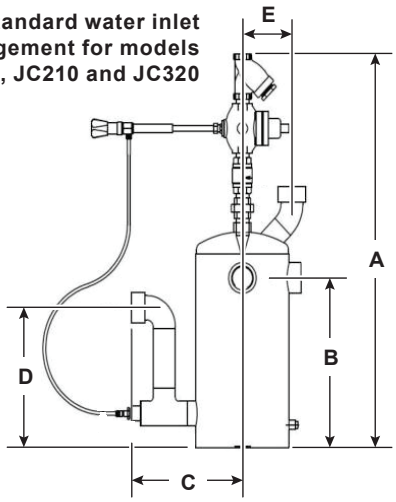
Dimensions/weights (approximate) in inches and lbs



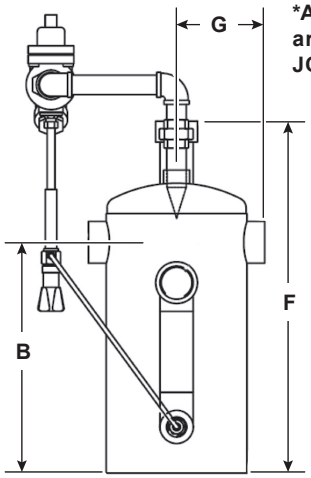
*Water inlet arrangement for models JC200C



*Standard water inlet arrangement for models JC200FCC, JC210 and JC320



*Alternate water inlet arrangement for models JC200FCC, JC210 and JC320



Size	A	B	C	D	E	F	G	Weights	
								Dry	Wet
JC200C	16.7	10.0	12.5	9.3	2.0	10.0	14.4	18	50
JC200FCC	39.4	11.5	12.5	9.0	4.5	23.4	6.5	60	110
JC210 -FCC316R-10	40.7	15.5	12.5	12.0	4.5	26.0	6.5	65	120
JC320 -FCC316R-20	51.6	18.5	15.7	12.0	6.5	32.7	7.5	140	280
JC440 -FCC316R- 40	36.0	20.2	20.0	14.5	5.0	40.0	12.0	293	550