ThermoSteam
Centrifugal Boiler Blow Off Condensate Cooler

ThermoSteam Series CBCC blow down / condensate coolers are designed to receive blow down from a steam boiler, flash the blowdown to steam, and cool the condensate going to drain.

MODEL	DIMENSIONS IN INCHES							
	D - L - H			VENT	BLOW OFF	DRAIN	COLD WATER	WT. LBS
CBCC-1	12	24	24	2-1/2"	1/2"	2-1/2" NPT	1/2"	160
CBCC-2	12	24	24	3"	1/2"	2-1/2" NPT	1/2"	160
CBCC-3	16	26	24	2-1/2"	3/4"	2-1/2" NPT	1/2"	180
CBCC-4	16	26	26	3"	3/4"	3" NPT	1/2"	180
CBCC-5	16	26	26	4" FLANGE	1"	3" NPT	1/2"	200
CBCC-6	16	26	28	6" FLANGE	1-1/4"	4" NPT	3/4"	260
CBCC-7	16	26	28	6" FLANGE	1 1/2"	4" NPT	3/4"	260
CBCC-8	16	26	24	6" FLANGE	2"	4" NPT	3/4"	260
CBCC-9	24	48	30	8" FLANGE	2"	6" FLANGE	1"	375
CBCC-10	24	48	30	8" FLANGE	2-1/2"	6" FLANGE	1"	375

Standard Features

- **ASME Code Constructed**
- **National Board Registered**
- **316 Stainless Steel Wear Plate**
- **Tangential Inlet**
- **Vent**
- **Drain**
- **Condensate Cooling Leg Assembly**
- **Check Valve**
- **Control Valve**

CAPACITY OF CONTROL VALVE
SIZE GPM AT WATER PRESSURE BELOW

PSI	15	30	60	100
1/2"	12	26	36	43
3/4"	29	38	54	67
1"	46	59	82	100

RANGE OF CONTROL VALVE 125-190 DEG. F.

- **Thermometer**

ThermoSteam Series CBCC standard configuration includes tank, valve, check valve and thermometer

HOW THERMOSTEAM CENTRIGUGAL BLOW OFF CONDENSATE COOLERS OPERATE:
The blow down enters the tangential inlet where it meets a 90 degree stainless steel wear plate. The wear plate will prevent erosion of the side wall of the vessel. The tangential blow down entry causes the blow down to swirl around the circumference of the vessel where part of the liquid will flash to steam and the balance will settle to the bottom. The internal flash will go through the vent to atmosphere and the hot condensate and sludge will fall to the bottom where it will flow by gravity to the drain leg. The temperature of the condensate will activate the thermal control valve which will feed cold water into the drain leg where the cold water and hot condensate will mix. This results in drained liquid temperature which is acceptable for municipal sewage.

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