



PRODUCT OFFER

These heat exchangers are used to cooling down of service cooling water circulated in the closed cooling water system. This circulated cooling water is used for cooling of various consumers as generators, pumps, air compressors, oil coolers, bearing coolers etc. The cooling water used as coolant is taken from the water cooling tower system or directly from sea, lake or river depending on local conditions.

The Circulating Cooling Water/Water Coolers (CCWWC) are usually shell & tube exchangers with fixed tubesheets when the configuration can be BEM or BFM of Tema type or other acc. to Client requirements.

Depending on chemical composition of coolant, particularly content of chlorides, the tubes made from stainless steel, duplex /superduplex, titanium or brass are used and respectively the tube-sheet made from carbon steel, stainless steel, duplex or titanium, made from solid materials or clad carbon steel. Shell of CCWWC is made from carbon steel.

The channels/bonnets are made from carbon steel and protected by epoxy or by rubber lining. To avoid corrosion the sacrificial anodes are mounted inside bonnet/channels.

The tubes are fixed into tube-sheet by expanding or expanding and seal welding. To have longer life time of tube/tubesheet connection, the additional protection by different means can be applied.

The bonnets can be equipped with maintenance manholes or removable covers to revision of inside surface condition of tubeside, tube/tubesheet joints also for repairs and other services.

To have higher efficiency of cooling process the different types of baffles are used where because of lower pressure drop, Famet recommend use of grid baffles. To avoid turbulences around inlet outlet nozzles areas as well the erosion damages the different type of impingement plates are used but the use of distributor belt is recommended by Famet.

The CCWWC are designed by Famet using of ASPEN and HTRI software.

Documentation is made in accordance with PED 2014/68/EC, UDT, ASME or AD 2000 Code.

The reference list of CCWWCoolers designed and manufactured by Famet are to be found on www.famet.com.pl



Phone:
+48 77 40 52 000

FAMET S.A.

ul. Szkolna 15A
47-225 Kędzierzyn-Koźle
POLAND

www.famet.com.pl
e-mail: office@famet.com.pl



EXEMPLARY DELIVERIES

CLOSED COOLING WATER COOLERS

End User Company Name	Year	Quantity [pcs]	Name	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
ALSTOM Power PGE, Power Plant Opole Unit 5&6 POLAND	2015	4	BEM	60/65	6/10	Duplex/ CS	20 100	PED + EN13445
SIEMENS AG Power Plant Lausward GERMANY	2014	2	BFM	60/60	6/12	SS/CS	21 200	PED + EN13445
SIEMENS AG Steam Power Plant Lünen GERMANY	2010	1	BFM	60/60	4/12	CS+SS	36.000	PED + EN13445
ALSTOM POWER Power Plant Łagisza POLAND	2007	2	AFM	50/50	6/10	CS, SS	8.810	PED+EN13445 UDT
ALSTOM POWER Power Plant TURÓW 6 POLAND	2003	2	AEM	33/37	5/10	SS-Steel C-Steel	8.100	UDT UDT
ALSTOM POWER Power Plant TURÓW 4 POLAND	2002	2	AEM	33/37	5/10	SS-Steel C-Steel	8.100	UDT UDT
ALSTOM POWER Power Plant TURÓW 5 POLAND	2001	2	AEM	33/37	5/10	SS-Steel C-Steel	8.100	UDT UDT

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