

FC4TAE | *FC4ALL*

The modular free-cooler.

Cooling capacity 18 – 407 kW



Energy saving

By choosing the FC4TAE/FC4ALL modular liquid cooler it is possible to save up the large part of the in power consumption compared to applications which uses the water chiller only. Energy saving is immediately available when environmental conditions are suitable by turning on the FC4TAE/FC4ALL free-cooling module.

Short payback time

Thanks to the high energy savings that the FC4TAE/FC4ALL module offers, it provides excellent is the payback time for the investment. The selection and savings calculation software allows its testing in an easy and accurate way, tailored to the specific application.

Standard features

- 7 models with cooling power from 18 kW to 407 kW;
- Power supply 400/3/50 - 460/3/60;
- Parametric electronic control;
- Axial fans with on/off regulation;
- On/Off water valve for free-cooling working mode regulation;
- IP54 electrical protection.

Applicable everywhere

This range allows you to integrate the free-cooling technology both in new and existing systems where TAE or other chillers are already installed. The FC4TAE/FC4ALL module is fitted with all the necessary components, so it can be used even where chillers are not installed as a stand alone solution.

Increased chiller life

Everytime the environmental conditions are suitable, the FC4TAE/FC4ALL module provides heat rejection for process cooling, while the chiller reduces its annual operating hours. The reduced wear on compressors and on other components makes the operating life of the chiller longer.

Options and kits

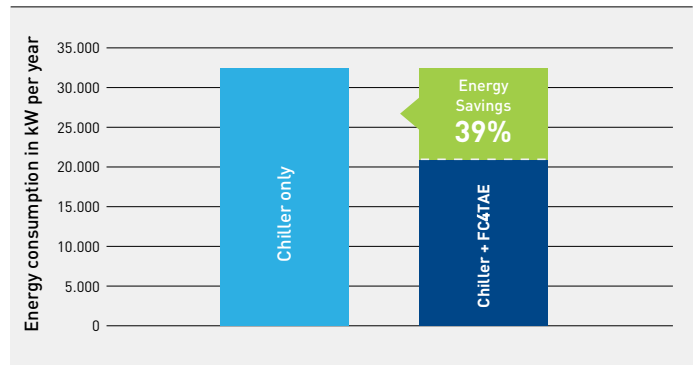
- Power supply 460/3/60 UL (only for FC4TAE);
- Power supply 400/3/50 UL (only for FC4ALL);
- Minimum air temperature -20 °C;
- EC Brushless axial fans;
- Protection coating for coil;
- Hydraulic connection kit between FC4TAE module and TAE chiller;
- Remote control kit.

Energy saving calculation

Project data

Cooling power	53 kW
Cooled water temperature	15 °C
Water flow	9,11 m³/h
Existing chiller	TAEvo TECH 161
Working hours per day	6
Working days per week	5
Working weeks per year	45
Reference city	Berlin
Free-cooling suitable module:	FC4TAE 161
Energy Saving:	39%
Payback time:	18 months

Energy consumption comparison



Models		FC4TAE				FC4ALL		
		051	161	351	602	802	300	450
Water flow	m³/h	3,4	8,3	14,1	25,0	34,6	49,9	76,3
Cooling power (1)	kW	18,3	44,4	75,2	133,0	184,2	265,8	406,7
Absorbed power	kW	0,5	1,4	2,1	3,2	3,2	4,8	9,6
Water circuit pressure drops	kPa	48,0	47	41	43	24	55	75
Width	mm	760	760	866	1410	1410	1410	2190
Depth	mm	983	1517	2225	2926	2926	3660	3660
Height	mm	1360	1360	1460	2190	2190	2190	2190
Weight	kg	160	220	355	695	890	1020	1325
Water Connections	Rp	Rp 1"	Rp 1 1/2"	Rp 2"	Rp 2 1/2"	Rp 3"	DN 100 (4")	DN 125 (5")

(1) Operating conditions: water temperature in/out 15/10 °C, ethylene glycol 30%, ambient temperature 0 °C.



MTA is ISO9001 certified, a sign of its commitment to complete customer satisfaction.



MTA products comply with European safety directives, as recognised by the CE symbol.

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