



FC4TAE | FC4ALL

The modular free-cooler.

Cooling capacity 18 – 407 kW



Cooling, conditioning, purifying.

Energy saving

By choosing the FC₄TAE/FC₄ALL modular liquid cooler it is possible to notably reduce the power consumption compared to applications which use the water chiller only. Energy saving is immediately available when ambient conditions are suitable by applying on the FC₄TAE/FC₄ALL free-cooling module.

Short payback time

Thanks to the high energy savings, FC₄TAE/FC₄ALL modules provide excellent payback times compared with the initial. The selection software allows this to be simulated easily and accurately tailored to the specific application.

Applicable everywhere

This range allows you to integrate free-cooling technology both in new and existing systems and in combination with MTA chillers or those supplied by others. The FC₄TAE/FC₄ALL modules are fitted with all components necessary for use even where chillers are not installed as a stand alone solution.

Increased chiller life

Everytime the ambient conditions are suitable, the FC₄TAE/FC₄ALL module provides heat rejection while the chiller reduces its annual operating hours. The reduced wear on compressors and other components lengthens the operating life of the chillers.

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 mode regulation;
- IP54 electrical protection.

Available options

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

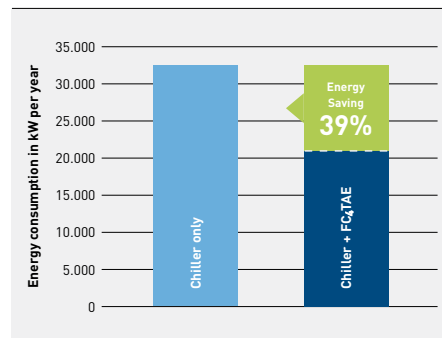
Energy saving calculation

Project data

Cooling power	53 kW
Cooled water temperature	15 °C
Water flow	9,11 m ³ /h
Existing chiller	TAEvo Tech 161
Working hours per day	16
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



See how much you can save

Scan the QR code for your tailor-made energy saving calculation!



Visit our website and discover the energy saved with FC₄TAE/FC₄ALL modules, calculated for your specific application.

freecoolingcalculation.mta-it.info

Water flow [m ³ /h]	Model	Cooling power* [kW]	Absorbed power [kW]	Water circuit pressure drops [kPa]	Dimensions			Installed weight [kg]	Water Connections [Rp]
					W	D	H		
3,4	FC ₄ TAE 051	18,3	0,5	48,0	760	983	1360	160	Rp 1"
8,3	FC ₄ TAE 161	44,4	1,4	47,0	760	1517	1360	220	Rp 1 1/2"
14,1	FC ₄ TAE 351	75,2	2,1	41,0	866	2225	1460	355	Rp 2"
25,0	FC ₄ TAE 602	133,0	3,2	43,0	1410	2926	2190	695	Rp 2 1/2"
34,6	FC ₄ TAE 802	184,2	3,2	24,0	1410	2926	2190	890	Rp 3"
49,9	FC ₄ ALL 300	265,8	4,8	55,0	1410	3660	2190	1020	DN 100 [4"]
76,3	FC ₄ ALL 450	406,7	9,6	75,0	2190	3660	2190	1325	DN 125 [5"]

(* Operating conditions: water temperature in/out 15/10 °C, ethylene glycol 30%, ambient temperature 0 °C; power supply 400V/3Ph/50Hz.



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.



EAC Declaration

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