



# FC4TAE | FC4ALL

The modular free-cooler.

Cooling capacity 18 – 407 kW



Cooling, conditioning, purifying.

## Energy saving

By choosing the FC<sub>4</sub>TAE/FC<sub>4</sub>ALL 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 FC<sub>4</sub>TAE/FC<sub>4</sub>ALL free-cooling module.

## Short payback time

Thanks to the high energy savings that the FC<sub>4</sub>TAE/FC<sub>4</sub>ALL 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.

## Applicable everywhere

This range allows you to integrate the free-cooling technology both in new and existing systems where TAEevo, TAEevo Tech, Aries Tech or other chillers are already installed. The FC<sub>4</sub>TAE/FC<sub>4</sub>ALL 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 FC<sub>4</sub>TAE/FC<sub>4</sub>ALL 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.

### 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.

### Available options

- Power supply 460/3/60 UL (only for FC<sub>4</sub>TAE);
- Power supply 400/3/50 UL (only for FC<sub>4</sub>ALL);
- Minimum air temperature -20 °C;
- EC Brushless axial fans;
- Protection coating for coil;
- Hydraulic connection kit between FC<sub>4</sub>TAE module and TAEevo Tech chiller;
- Remote control kit.

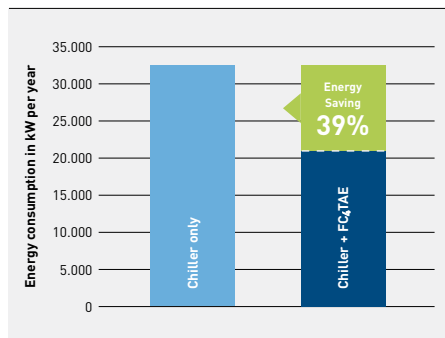
## Energy saving calculation

### Project data

Cooling power	53 kW
Cooled water temperature	15 °C
Water flow	9,11 m <sup>3</sup> /h
Existing chiller	TAEevo Tech 161
Working hours per day	16
Working days per week	5
Working weeks per year	45
Reference city	Berlin

<b>Free-cooling suitable module:</b>	<b>FC<sub>4</sub>TAE 161</b>
<b>Energy Saving</b>	<b>39%</b>
<b>Payback time:</b>	<b>18 months</b>

### Energy consumption comparison



### See how much you can save

Scan the QR code and request the tailor-made energy saving calculation!



Visit the website and discover the energy saved with the FC<sub>4</sub>TAE/FC<sub>4</sub>ALL module, calculated for the specific application.

[freecoolingcalculation.mta-it.info](http://freecoolingcalculation.mta-it.info)

Model	Combinable chiller	Cooling power* [kW]	Absorbed power [kW]	Water flow [m <sup>3</sup> /h]	Water circuit pressure drops [kPa]	Dimensions			Weight (kg)	Water Connections (Rp)
						W	D	H		
FC <sub>4</sub> TAE 051	TAEevo Tech 031÷051	18,3	0,5	3,4	48,0	760	983	1360	160	Rp 1"
FC <sub>4</sub> TAE 161	TAEevo Tech 081÷161	44,4	1,4	8,3	47,0	760	1517	1360	220	Rp 1 1/2"
FC <sub>4</sub> TAE 351	TAEevo Tech 201÷351	75,2	2,1	14,1	41,0	866	2225	1460	355	Rp 2"
FC <sub>4</sub> TAE 602	TAEevo Tech 381÷602	133,0	3,2	25,0	43,0	1410	2926	2190	695	Rp 2 1/2"
FC <sub>4</sub> TAE 802	TAEevo Tech 702÷802	184,2	3,2	34,6	24,0	1410	2926	2190	890	Rp 3"
FC <sub>4</sub> ALL 300	Aries Tech 70÷100	265,8	4,8	49,9	55,0	1410	3660	2190	1020	DN 100 (4")
FC <sub>4</sub> ALL 450	Aries Tech 110÷140	406,7	9,6	76,3	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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