

AQUAfree

The modular free-cooler.
Free-cooling capacity 242 - 466 kW.



AquaFree is the most energy efficient and flexible free-cooling concept on the market, offering a fully packaged solution which can be used as a stand alone free-cooler or added to a chiller, transforming it into a free-cooling chiller, also in a second time. Once connected the chiller / free-cooler combination is automatically controlled by the chiller's xDRIVE microprocessor, without the need for any additional programming.



Cooling, conditioning, purifying.

PLUG & PLAY

Connect AquaFree to the chiller (AST, GLT and PNP) and set the software parameters communications between the units. The chiller's xDRIVE microprocessor will control the chiller / free-cooler combination as a single unit. In case of AquaFree connection to a chiller previously installed check before the software compability. The AquaFree / chiller piping kit is available on request.

ENERGY EFFICIENT

AquaFree can easily obtain savings of 30% or more, offering efficiency levels well beyond the industry norm. The modular design permits additional AquaFree modules to be added, allowing efficiencies to be further increased and tailored to individual applications.

SUPER SILENT

Choose between 2 noise levels, both extremely quiet, with an electronic fan speed control option to further reduce part load noise levels. Especially during night time, AquaFree's low noise becomes a notable asset.

INDEPENDENT

Each module features its own electrical connection and 3-way valve, as well as its own electrical panel and microprocessor with independent alarms and water in/out and ambient temperature visualization: consequently each module can operate completely autonomously.

GLYCOL FREE KIT

The glycol free kit is ideal in applications requiring an absence of glycol, such as food industries. The glycol free kit, which features its own intermediate exchanger and hydraulic circuit, is simply installed between the chiller and the AquaFree modules (special).

PEACE OF MIND

Each AquaFree module features its own microprocessor, allowing it to operate independently. If one module suffers a fault the others can still operate, if the chiller suffers a fault the modules can continue to operate. AquaFree can operate at ambient temperatures of -15 °C to +46 °C. Each AquaFree module features independent aeraulic sections featuring axial fans with progressive activation (continuous control on request).

VERSATILE

AquaFree can be positioned separately if space needs dictate it. It is also possible to install AquaFree, or add additional modules, also in a second time. Each AquaFree module features its own remote on/off control.

MODELS & VERSIONS

- Acoustic versions:
 - standard (N version);
 - low noise (SN version).
- Modules:
 - AFW100 (for connection to AST 090-140);
 - AFV200 (for connection to GLT/PNP);
 - AFV300 (for connection to GLT/PNP);
- Low ambient version (down to -20 °C).

ACCESSORIES

- Metal mesh filters for freecooling coils;
- Electronic fan speed control;
- Chiller-AquaFree interconnection kit (tubing to be supplied by installer - special execution);
- Add-on Glycol-free kit (special execution).

The integral microprocessor allows AquaFree to operate independently.



Each AquaFree module features its own independent electrical panel.



The 3-way valve, installed on-board as standard, optimises the freecooling level.



Unique design allows interconnection of multiple AquaFree modules.



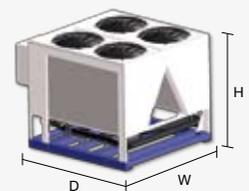
Technical data			AFW100	AFV200	AFV300
Applicable chiller			AST 090-140	GLT & PNP	GLT & PNP
Cooling capacity	(N)	kW	310	310	466
Cooling capacity	(SN)	kW	242	242	363
Absorbed power	(N)	kW	8	8	12
Absorbed power	(SN)	kW	7,8	7,8	11,7
Water flow	(N)	m³/h	58,3	58,3	87,4
Water flow	(SN)	m³/h	45,4	45,4	68,1
Pressure drop	(N)	kPa	77	77	86
Pressure drop	(SN)	kPa	47	47	52
No. of Coils / Fans		-	4	4	6
Power supply		V/Ph/Hz	400±10%/3/50		
Sound pressure level	(N)	dB(A)	61,0	61,0	62,8
Sound pressure level	(SN)	dB(A)	54,0	54,0	55,8
Depth (D)		mm	2.100	2.100	3.100
Width (W)		mm	2.188	2.190	2.190
Height (H)		mm	1.989	2.360	2.360
Installed weight		kg	1.071	1.260	1.835

All data refers to standard units at the following nominal conditions:

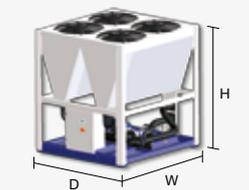
Water inlet-outlet 15-10 °C, external air temperature 0 °C, 30% ethylene glycol.

Sound pressure level in hemispherical field at 10m from coil side, 1.6 m from ground, full load operation at nominal conditions, tollerance ± 2 dB. The listed noise levels, weights and dimensions refer to base chillers with no options fitted.

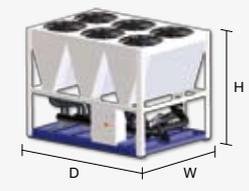
AFW100



AFV200



AFV300



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