Air Cooled Chiller

Intelligent solutions for all applications

Canovate air cooled chiller product range expands from data center & IT room to industrial applications.

Green & Environmental friendly solutions

Refrigerant Options: R410A, R407C, R134A
All Canovate air cooled chillers use environmental friendly refrigerants that do not damage the ozone layer. In addition, it has lower global warming potential than conventional refrigerants.

Suitable for Outdoor installations

Canovate air cooled chiller units are designed for outdoor installation. The electronic components within the electrical cabinet are protected in accordance with protection type IP54.

Low Noise

Canovate air cooled chiller is also available in a low-noise version. This version works particularly quiet due to sound insulation of the compressors. Depending on operating conditions, the noise level of the chiller can be reduced by up to 10 dB.

Compressor

Scrool or screw type of compressors are used in Canovate products depending on capacity requirements. High efficient and eco friendly refrigerants are used in our products. Efficiency of compressors are among the best in the industry.

Tandem — Trio installation

Depending on the size of the chiller, the compressors are installed in tandem or trio combinations.
Tandem models (2 + 2 compressors): C.A/W160
Trio models (3 + 3 compressors): C.A/W240, C.A/W480, C.AW600
Dual refrigerant circuit in all types.

Tandem

Trio

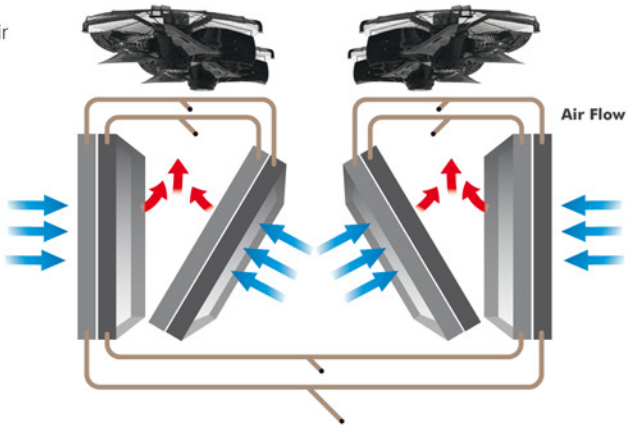
V geometry in condensers

V geometry in condensers

V geometry is applied in free cooling type chillers to reduce air disturbances and to balance both refrigerant circuits.

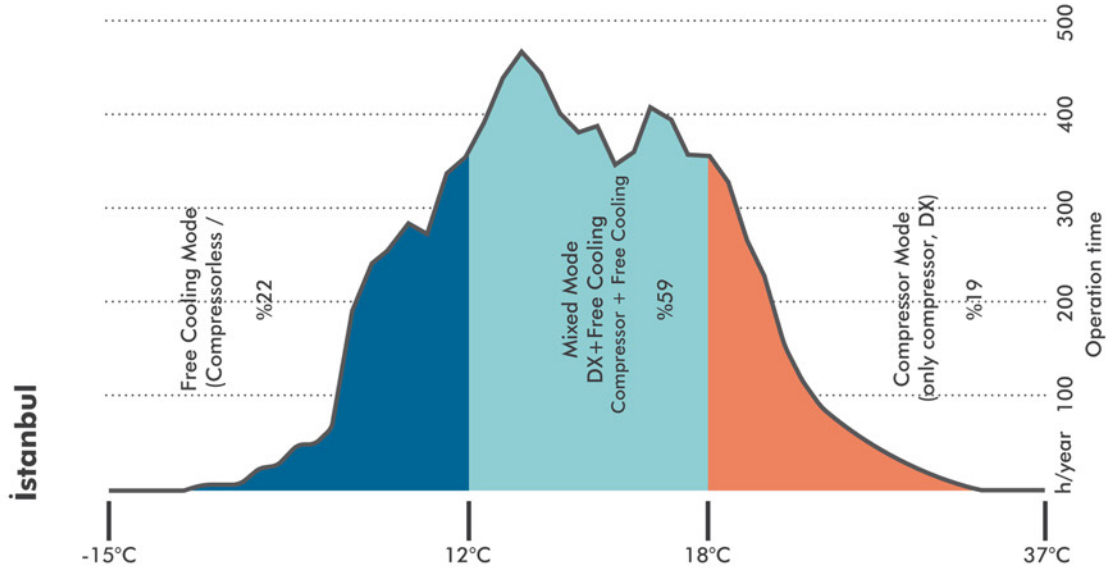
Energy Saving with EC-Fans

The high efficiency EC Fan reduces both noise levels as well as energy consumption, and assures a variable air flow at part loads. Operational costs are reduced by -15% if compared to traditional EC-Fans, and 25% if compared to plug fans.
The use of EC technology even on the remote condenser fans assures a further average reduction of noise levels by 10%, together with a strong energy consumption reduction by 45% when compared with traditional condensers with AC technology.



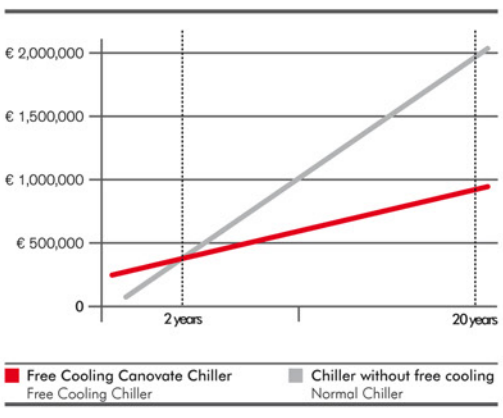
Maximum energy efficiency with Free Cooling Option

The Free Cooling Chillers use the outside temperature, which offers the greatest potential savings of all, especially in cold and temperate climates.
When outside temperatures are low, Free Cooling can completely replace energy-intensive compressor cooling.



Energy Efficient Cooling

Canovate free cooling chillers enable customers to make significant savings in energy consumption. Thus you can reduce your PUE levels dramatically and achieve your ultimate target for a real green datacenter. The ROI time of the free cooling chiller unit is maximum 2 years compared to standard chiller units.



Technical Data

Technical Data

Standard

C.A/W		80	120	160	240	320	480	600
Cooling Capacity	kW	80	120	160	240	320	480	600
Power Consumption	kW	22.2	34.3	45.7	70.6	94.1	145.5	181.8
EER		3.6	3.5	3.5	3.4	3.4	3.3	3.3
ESEER(ISO 14511)		4.30	4.36	4.40	4.40	4.52	4.79	4.62
Sound Power Level	dB(A)	84	84	84	84	86	86	86

Low noise Option

CL.A/V		80	120	160	240	320	480	600
Cooling Capacity	kW	80	120	160	240	320	480	600
Power Consumption	kW	22.2	34.3	45.7	70.6	94.1	145.5	181.8
EER		3.6	3.5	3.5	3.4	3.4	3.3	3.3
ESEER(ISO 14511)		4.30	4.36	4.40	4.40	4.52	4.79	4.62
Sound Power Level	dB(A)	78.7	78.9	79	79.5	81.4	82	82.1

Free Cooling Option

C.Free A/W		80	120	160	240	320	480	600
Operating point /18°C/15°C *								
Cooling Capacity	kW	80	120	160	240	320	480	600
Power Consumption	kW	22	29	44	67	103	126	165
EER		3.53	4.01	3.99	3.65	3.64	3.90	3.71
Sound Power Level **	dB(A)	66	67	70	70	72	74	74

Dimensions for all models

		80	120	160	240	320	480	600
Height	mm	2350	2350	2500	2500	2500	2500	2500
Width	mm	1300	1300	2300	2300	2300	2300	2300
Length	mm	2300	4200	3950	3950	5030	7250	7250

* Chilled water inlet/outlet: 18 °C/12 °C, outside air: 35 °C, glycol content: 30 %
** Noise level at a distance of 1 m in free field conditions (to ISO 3744)