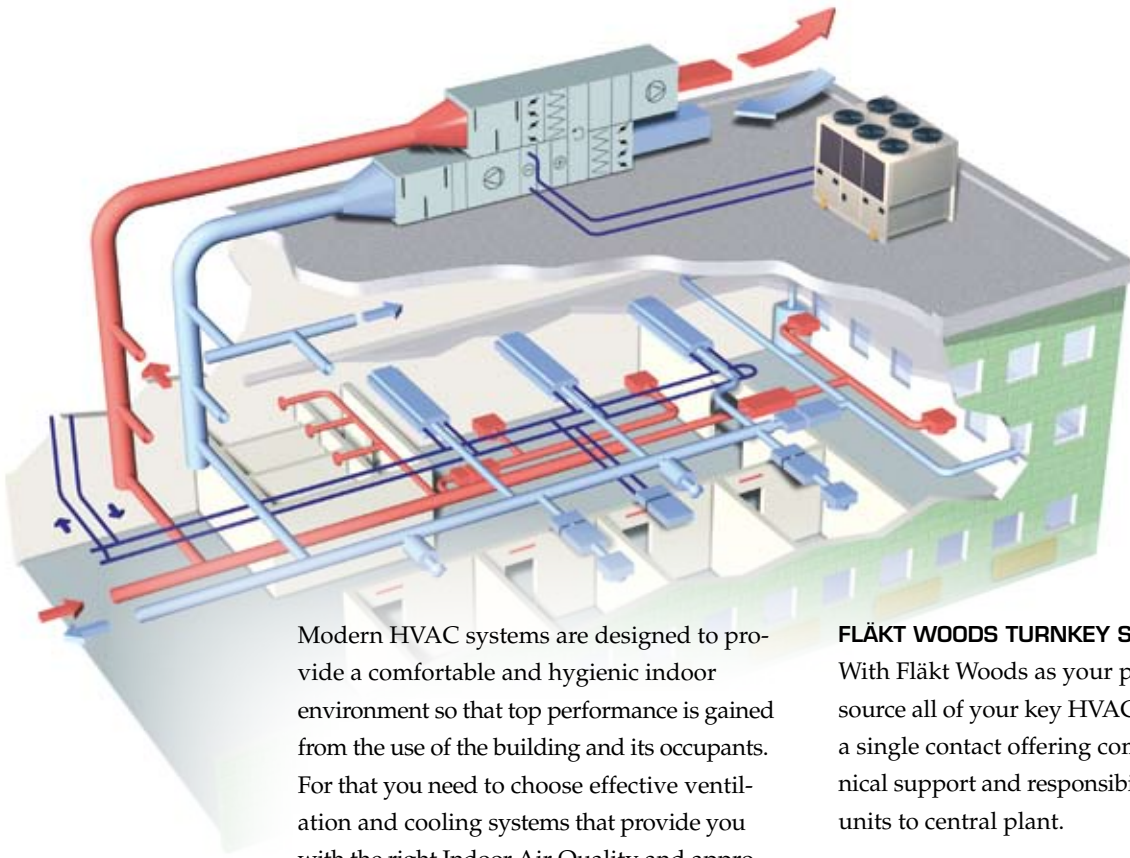


ClimaFläkt

Chillers for HVAC Applications





Modern HVAC systems are designed to provide a comfortable and hygienic indoor environment so that top performance is gained from the use of the building and its occupants. For that you need to choose effective ventilation and cooling systems that provide you with the right Indoor Air Quality and appropriate temperature control.

Fläkt Woods offers all the pieces in the puzzle from individual components through to the provision of complete air systems, now complete with a range of chillers and air based cooling equipment.

Fläkt Woods' contribution towards a sustainable environment is to offer products and know-how for more efficient energy usage in all types of buildings. Global energy prices are increasing in real terms and the HVAC system in a building can often be the biggest consumer of power. It makes economic sense to invest in a system optimized for best overall efficiency. Fläkt Woods experience and advanced technology can be combined into intelligent system solutions.

FLÄKT WOODS TURNKEY SOLUTIONS

With Fläkt Woods as your partner you can source all of your key HVAC equipment with a single contact offering comprehensive technical support and responsibility from terminal units to central plant.

FULLY CERTIFIED EQUIPMENT

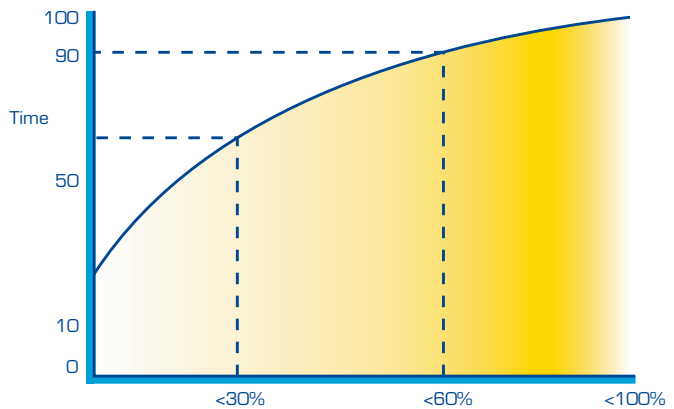
Under the Eurovent Certification Program equipment is tested to specific standards by independent testing organizations. Consultants, Specifiers and Users can select products from certified manufacturers with the assurance that the catalogue data are accurate. This is a corner stone for those in the business of marketing or procuring energy efficient equipment since catalogue data is used for comparison.





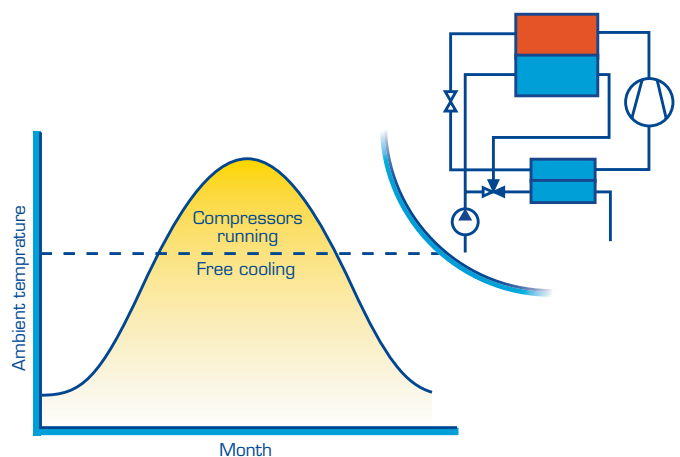
VARIABLE LOAD

Chillers in HVAC applications are generally required to operate most of the year at part load and for 90% of the time the load is less than 60% of the maximum design. The Fläkt Woods range of chillers are designed for high efficiency at part load as well as at peak load to minimise the overall annual energy consumption.



FREE COOLING

In many applications, cooling water is needed during periods of the year when the outdoor temperature is low. By installing a chiller with a free cooling circuit it is possible to cool the water without running the compressors, which saves a considerable amount of energy and reduces wear on them. Free cooling is best suited to high water temperatures and low ambient temperatures.



HIGH EFFICIENCY CONDENSOR FANS

The Fläkt Woods air cooled chillers can be fitted with high efficiency fans making use of electronic control to vary the speed with minimum use of electricity.

AIR COOLED



Air cooled water chiller for outdoor installation/Air cooled chiller and heat pump for outdoor installation

Type	10	40	60	80	100	150	200	300	400	500	600	800	1000	1500
☉ KC(A,B)A	●													
☉ KC(A,B)B	●													
☉ KC(A,B)C		●	●	●										
☉ KC(A,B)D				●	●	●								
☉ KC(A,B)F				●	●	●								
☉ KC(C,D)C						●	●	●	●	●	●	●	●	●
⚙️ KCCE									●	●	●	●	●	●
⚙️ KCDF									●	●	●	●	●	●
☉ KC(E,F)A	●													
☉ KC(E,F)B		●	●											
☉ KC(E,F)C				●	●									

Chilled water = 12/7 °C, external ambient = 35 °C

- = R 407 c
- = R 134 a
- = R 410 A
- ☉ = Scroll
- ⚙️ = Herm. reciprocating
- ⚙️ = Twin-screw

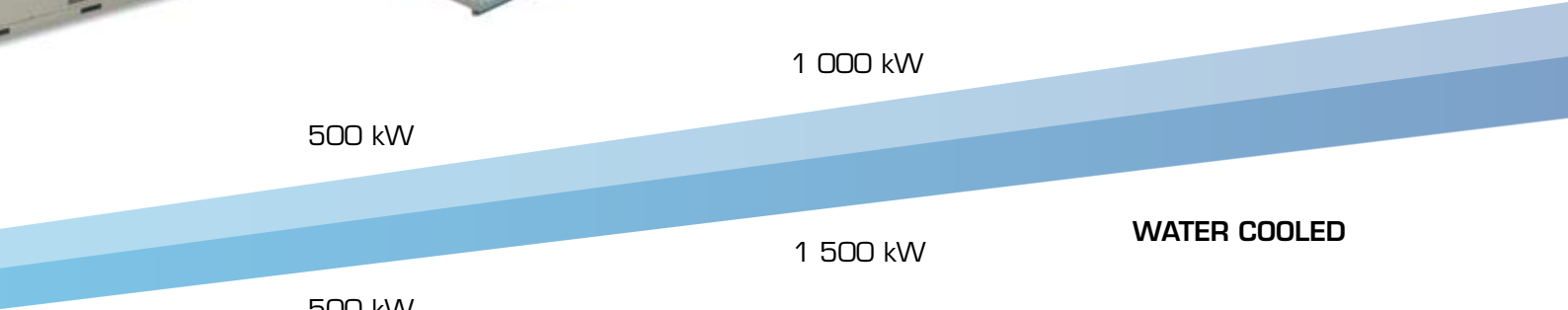
Heat pumps from 25 to 1 500 kW



500 kW

1 000 kW

1 500 kW



500 kW

1 500 kW

WATER COOLED



Water cooled chiller for indoor installation / Water cooled chiller and heat pump for indoor installation

Type	10	40	60	80	100	150	200	300	400	500	600	800	1000	1500
⊙ KC(G,H)A	█													
⊙ KC(G,H)B		█												
⊙ KCGC						█								
⊙ KCG,H)E										█				

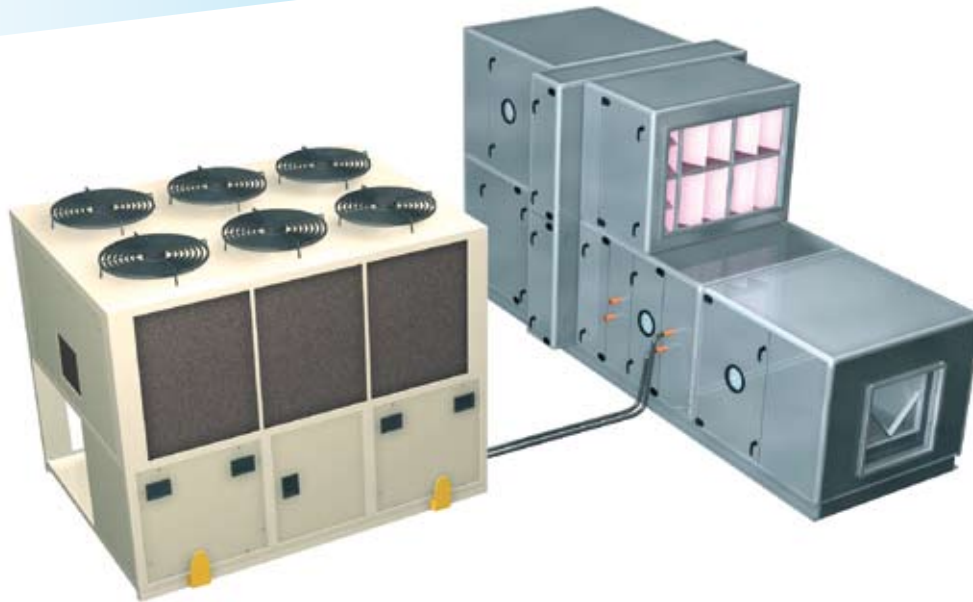
Chilled water = 12/7 °C, external exchanger = 30/35 °C

FOR INDOOR AND OUTDOOR INSTALLATION



600 kW

7 kW



Small/medium/large air cooled DX condensing unit for outdoor installation

Type	10	40	60	80	100	150	200	300	400	500	600	800	1000	1500
☉ KCTA	■													
☉ KC(S,T)B	■													
☉ KCSC				■										
☉ KCSD						■								

SST = 9,5 °C, external ambient = 35 °C

■ = R 407 c ☉ = Scroll

In the field of air handling Fläkt Woods is the market leader in energy recovery systems for air handling applications. As well as the recovery of heat from the exhaust air during the winter, rotary heat exchangers offer the benefit of total cooling energy recovery during the summer.

The hygroscopic version of the rotary heat exchanger transfers both sensible energy and latent energy-moisture. This is of particular interest in more humid climates and where it halves the cooling demand.

COOLMASTER

For the drier climate the CoolMaster system offers exceptionally good cooling using water evaporation in the exhaust air to cool the rotor and the supply air and can be used to reduce the chiller load.

ECONET®

Econet® is a self optimizing liquid coupled heat recovery system offering energy and space savings.

Econet® offers the possibility to utilize heat rejection from chillers to heat the ventilation air. The system can recover cooling from the exhaust air and can make use of cooled water to provide air cooling.

COOLER

Cooler is a factory ready module fully adapted to the Fläkt Woods airhandling range and is supplied complete and ready to run. The function and performance of each cooling module is run in a special test rig before delivery. Standardised models give assured function at a competitive price – not to mention the time saved during design and installation! It is also very competitive when compared with other cooling systems.

The cooler is supplied complete with automation and control equipment and is factory tested. All that needs to be done on site is to connect the mains supply, connect the temperature control signal and fit the drainage piping.



REGOTERM



COOLMASTER



ECONET®



COOLER



Fläkt Woods Group Brings Air to Life



Fläkt Woods Group provides a full range of products and solutions for buildings and ventilation, air treatment and industrial air movement

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FläktWoods