

### **DK-WATER CHILLER**





#### **DK-cold water tank buffer**

Available with multi-ports connections or filling and draw off. Connections are available in any format – screw fitting, pipe, tube, nozzle.



DK Tanks with the contents 180/280/400/700 or 950 litres come with a vapor diffusion-tight PU shells insulation. Standard colour is blue (RAL 5017), and other colours are available on request.





The larger and special dimension tanks are normally supplied without fitted insulation and must be insulated on site after installation and assembly. All tanks can also supplied with insulation (made of vinyl rubber with and without metal jacket). DK has in planning a suitable insulation for outdoor installation (with rear ventilation).

These insulated tanks will require clear and careful installation, to avoid damage to the vapor-proof outer skin.



#### **DK-Tank with pump station**

DK-Water Chiller/DK Cold brine tanks serve as the buffer to the short or medium-term energy storage and the distribution to the consumer circuits. In addition to the storage tanks, a pump station can be fitted by DK to complete the package. This illustration shows the tank & factory fitted pump station – ready to go for a simple site installation.



Factory fitted and ready for simple site connection and offers a cleaner and more precise finish than on-site build.





DK-Water Chiller with single-walled evaporators

For application areas with special cooling medium temperatures, a custom-made refrigeration system and a DK- Water Chiller with built-in evaporators is the perfect solution.

DK-evaporator can be designed to your requirements. They are manufactured in single or multicircuit options for complete flexibility. In addition, cooling of the medium are available to -40°C. In the past 35 years numerous projects have been completed. Including tanks and evaporators for cooling mediums -25°C for the sports facility's cooling at the ski jumping hill in Sochi for the Winter Olympics 2014.



llustration of tank and evaporator for cooling mediums -40°C being prepared for international engine test standards for international automakers.



Projects of any size and over the megawatt range are available.



Two 6,500 litre tanks connected in paralell with each having four single circuit evaporator, and four independent refrigeration systems for Doha airport. This application is for brine cooling -8/-3°C:



Tanks with 12,000 litres and four dual-circuit evaporators, connected to 8 refrigeration systems, for the catering company of Emirates, Dubai airport. A similar plant has been installed in Frankfurt for the catering company – Lufthansa Sky Chefs.



## DK-Water Chiller with double-walled evaporators

Designed for water cooling to +2°C, the chilled water is used in direct food production, for example, dough cooling in large bakeries and salad washing.





The illustrations show the complete chiller pack refrigeration unit fitted with full operation controls for water-cooling at +2°C and with evaporating temperatures below zero. Our Plug & Go solution for the food processing industry.



### DK-Water Chiller with VA-double tube cooler

A specialist application of the DK Chiller is the glycol cooling, e.g. to -2°C, and connection of a stainless steel double-tube cooler in which a further medium is cooled.

These double-tube coolers are equipped with quick and easy release sections for cleaning purposes, allowing cooling of contaminated products such as blood from slaughterhouses.



This system is also useful in the production of cooked sausage, sliced cheese and others products with deposits such as syrups, chocolate and mashed vegetables.



# DK-Water Chiller as unpressurized system

The open DK-steel tank is applied in systems with cooling capacities that are not in permanent demand operation – as an ice storage facility. This provides low water temperature and is ideal for cooling cooking kettles Cook & Chill process.



This is an open water system, which is equipped for level regulation with mechanical or electrical filling valves.



### Cool Solution - Hot Performance - DK