

Cooling of and condensation from air with water

The problem

Waste Water Treatment plants produce enormous volumes of sludge. The most economical and environmental friendly method to get rid of the sludge is to use it as fuel in a power- or/and heating plant. The burning process demands that the water content is reduced from around 70% to close to 10%.

To cool the air in the drying process is mainly a scrubber system used. The system is both critical for clogging and consumes large water amounts (25 l/h pro kW cooling effect).

The solution – AirCross offers the first working condensing air heat exchanger solution

First with AirCross is an efficient and compact air heat exchanger available.

With AirCross is up to 90% of the water in the recirculating drying air condensing in the heat exchanger. The fantastic performance is used by Krüger A/S / Veolia Water Systems, (a world-leading supplier of technology for fresh- and waste water treatment), by Haapavesi, Finland in their Biocon™ sludge drying system. The dried sludge is mixed with waste wood and used as fuel in the local power plant.

Due to the good result Krüger is planning to, in other Biocon™-systems, replace other not good enough performing heat exchangers with AirCross.

