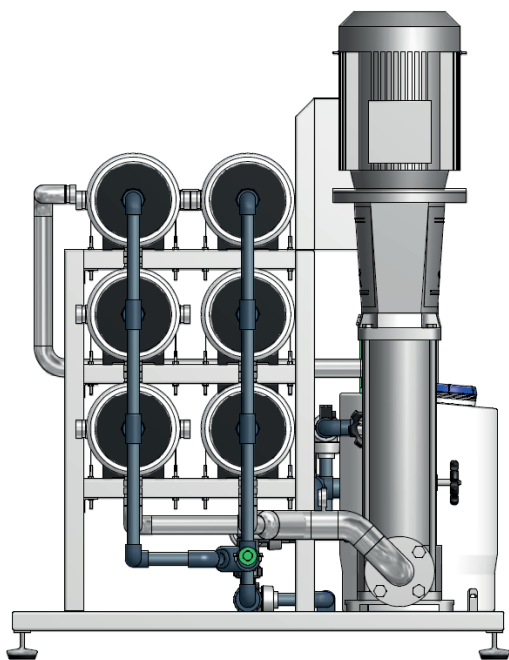


CatoRec

Filter for recovery of drain water



CatoRec filter unit

The CatoRec filter unit is designed for recovering drain water from cooling towers. The unit filters and treats the water that would have been led to drain, under normal circumstances. With CatoRec the water can be reintroduced in the cooling water.

CatoRec is a rack-mounted plug and play unit. It can easily be connected to the present water circuit of the cooling tower e.g. in parallel to the existing bypass filter. Once connected the CatoRec will automatically and continuously treat the water.

The CatoRec unit will be customized adjusted according to a water analysis of the drain water, the amount of drain water and the operational pattern, in general. The units can handle drain water from for 180 l/h to 20.000 l/h.

CatoRec technique

The CatoRec unit consists of one filter system including a booster pump, a filter with a special filter medium and a fine filter. In addition the unit consists of a membrane system consisting of special membranes and a distribution system ensuring the reintroduction to the cooling tower.

CatoRec - a part of the CatoCool concept

CatoRec can be combined with Guldager's CatoCool concept. In this way, the water circuit can be supplied with chemical-free biocide and inhibitor contemporarily with recovery of the water.

The reintroduced water will in most cases be cleaner than the supplied make-up water. Further, the water will be free of hardness, bacteria and has a reducing effect on the corrosion processes that take place in cooling towers.

Economy

Up to 30 % of the salt consumption in the softening unit can be reduced with recovery.

CatoRec can recover up to 80-85 % of the drain water and contributes to a considerable reduction of the water consumption of the cooling towers.

Cost savings are achieved by an actual reduction of the amount of new make-up water. The saving amounts to approx. 20-30 % and typically EUR 1,- pr. m³. Another great saving can be achieved by avoiding sewer disposal, but instead evaporate the water in the cooling tower. This saving will lie around EUR 2,5,- /m³.

The high amount of savings gives a really fast payback time and enables financing via the existing operating budget.

Guarantee

Guldager offers a money back guarantee, if the unit does not work satisfactorily and perform according to the agreed values.

Application:

Recovery of drain water from cooling towers & processes