



HAARSLEV™

Processing Technology

SHELL & TUBE HEAT EXCHANGER

Product brochure



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Haarslev shell & tube heat exchangers quickly and effectively bring these vapors into an easy-to-handle liquid form, using only a minimum of energy – for pumps to circulate the cooling water.

This setup draws the vapor out of such cookers and dryers, because energy always flows to the coldest point. This makes it easy to separate the non-condensable gases (VOCs), leaving just condensed water as effluent.

You can also use the thermal transfer capabilities of these units to recover waste heat and/or valuable thermal energy to heat wash-down water or to reduce operating costs elsewhere in your plant.

This shell & tube heat exchanger's design is ideal for installations with sufficient space for large equipment,

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FOR CONDENSING VAPORS FROM COOKERS AND DRYERS USED IN MEAT RENDERING AND FISH MEAL PLANTS, USING LIQUID AS THE COOLING MEDIUM.

The many types of cookers and dryers used in meat rendering and fish meal plants produce large quantities of hot gases and vapors that can be hard to deal with or dispose of responsibly.

APPLICABLE FOR:



- After cookers or dryers in meat rendering and fish meal plants
- In conjunction with an air-cooled condenser for exceptionally effective heat recovery

BENEFITS

- Cost-effective combination of odor reduction and energy recovery
- No need for costly equipment to generate vacuum for condensing operations
- No worries about heat exchanger fouling, and easy to CIP
- Available in vertical or horizontal configurations, for maximum installation flexibility

**HOT GASES AND VAPORS FROM
COOKERS AND DRYERS**

Cooling water passes over the outer surface of the tubes in a counterflow arrangement

Non-condensable gases led away to further air treatment



Temperature differences makes gases and vapors condense into liquid form for pumping away

Hot process vapors flow through 38-mm condenser tubes made of stainless steel

**NON-CONDENSABLE GASES (AND
CONDENSED WATER VAPOR (OR
OTHER LIQUID CONDENSATE)**



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PROCESS IS POTENTIAL

HEAD OFFICE

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