



HAARSLEV™

Processing Technology

SHELL & TUBE HEAT EXCHANGER

Product brochure



HAARSLEV™

Processing Technology

SHELL & TUBE HEAT EXCHANGER



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,

“

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)**



HAARSLEV™

Processing Technology



PROCESS IS POTENTIAL

HEAD OFFICE

Haarslev Industries A/S · Bogensevej 85
DK-5471 Søndersø · Denmark
Telephone: +45 63 83 11 00
Email: info@haarslev.com
www.haarslev.com

GLOBAL EXPERIENCE - LOCAL PRESENCE

Please contact us or visit our website
to locate the closest sales office.