



HAARSLEV™

Processing Technology

AIR-COOLED CONDENSER

Product brochure



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FOR CONDENSING PROCESS
VAPORS USING AIR AS
COOLING MEDIUM

Air-cooled condensers are used to condense steam or vapors by using ambient air as cooling medium. In Haarslev's plants, aircooled condensers are typically used for condensation of vapors originating from cooking and drying processes.

The vapors enter at the top of the front chamber and are then distributed to the inside of a large number of finned tubes. Multiple axial fans force ambient air across the finned tube bundle, which efficiently cools the vapors in the tubes and makes them condense. After the first pass through the condenser, the condensate and the non-condensable gases are redirected for a second pass through the condenser. At nominal conditions, the condensate can be cooled to a temperature of fifteen degrees above ambient air temperature. Finally, the condensate and non-condensable gases leave the condenser at the lower side of the front chamber.

APPLICABLE FOR:



- After cookers or dryers in plants processing meat or fish by-products
- May be combined with a shell and tube condenser for efficient heat recovery, i.e. hot water generation

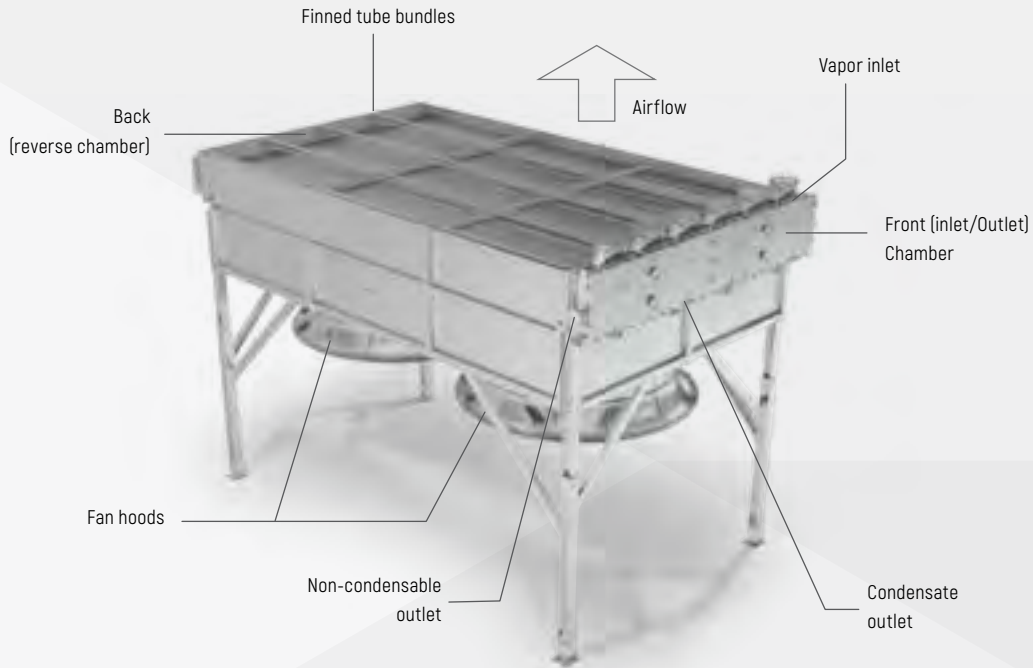
BENEFITS

- Low-noise solution that is easy to mount outside a building – on the roof, for example
- No water consumption
- Low-maintenance reliability
- Low operating costs
- Automated operation available to maximize energy-efficiency

OPTIONS

- Low-noise fans are available for all ACC-models
- Standard material for all parts in contact with vapor/condensate is EN 1.4301 (AISI 304). EN 1.4401 (AISI 316) is optional.
- Louvers can be ordered if requested

**STEAM OR VAPORS FROM
COOKERS AND DRYERS**



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

TECHNICAL SPECIFICATIONS

TYPE	CONDENSING CAPACITY* [kg/h]/[lb/h]		DIMENSIONS (mm)/(Ft/inch)						POWER/MOTOR [kW]/[hp]		WEIGHT [kg]/[lb]	
			Length [L]		Width [W]		Height [H]					
ACC2000	2,100	4,651	5,600	18' 5"	2,600	8' 7"	5,900	19' 5"	2 x 11	2 x 15	4,800	10,582
ACC3000	3,400	7,517	8,100	26' 7"	2,600	8' 7"	5,900	19' 5"	3 x 7.5	3 x 10	7,200	15,873
ACC5000	5,000	11,089	8,100	26' 7"	3,700	12' 2"	5,800	19' 1"	2 x 15	2 x 20	10,800	23,809
ACC7000	7,100	15,652	8,100	26' 7"	4,800	15' 9"	5,800	19' 1"	2 x 30	2 x 40	14,400	3,1746
ACC9000	9,200	20,282	10,600	34' 10"	4,800	15' 9"	4,300	19' 5"	2 x 37	2 x 50	19,100	42,108
ACC12000	11,700	25,794	10,600	34' 10"	5,900	19' 5"	4,300	19' 5"	2 x 45	2 x 60	23,900	52,690

¹ Nominal condensation capacity is defined at the following conditions:

Tube side pressure: 0 bar(g)

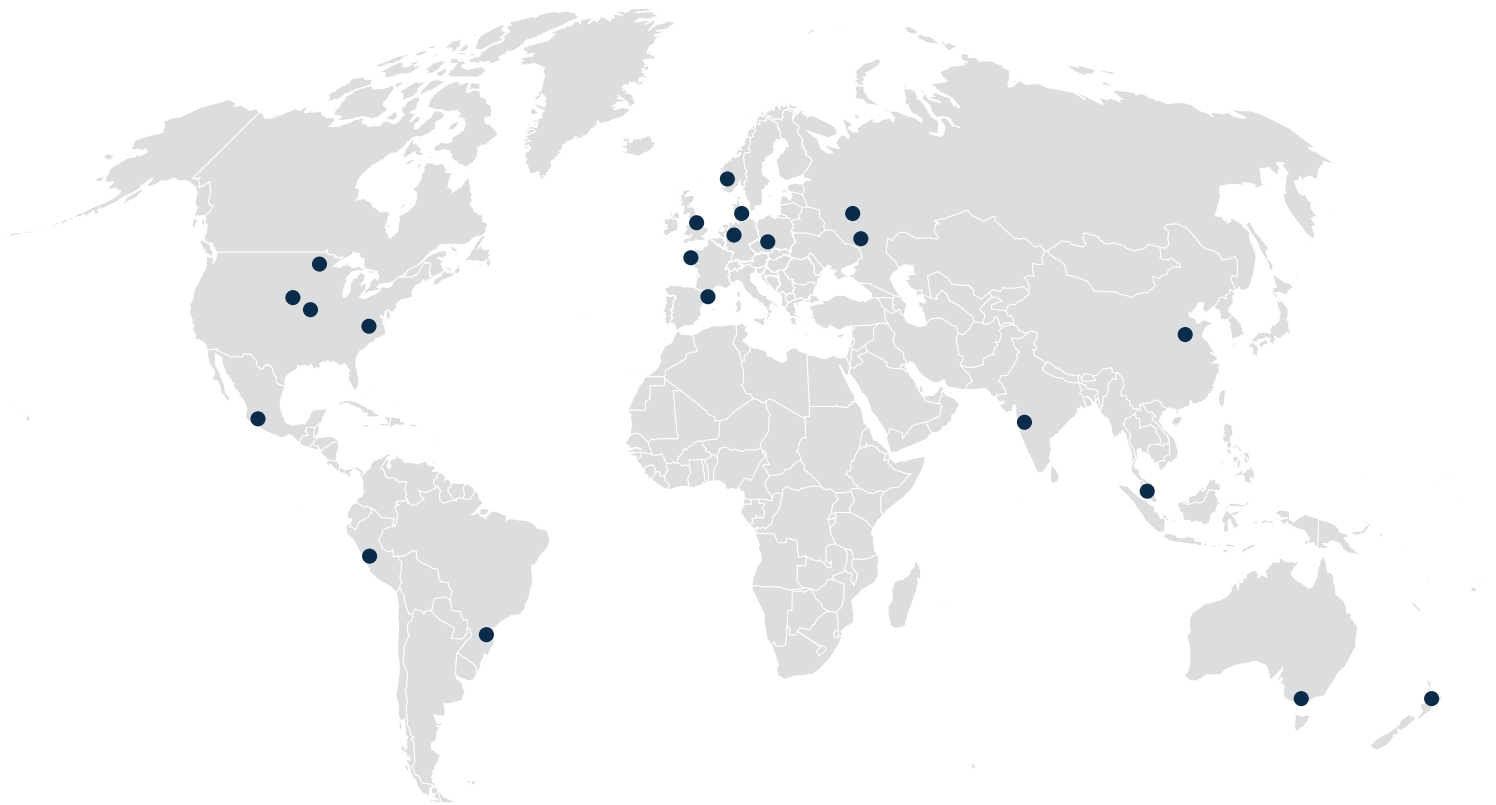
Vapor moisture content: 10 kg vapor/kg dry air (corresponding to a dewpoint of approx. 95°C at 0 bar(g))

Ambient air temperature: 30°C

Altitude: Sea level

At nominal conditions the condensate is cooled down to 45°C.

We reserve the right to alter the specifications at any time without prior notice.



MASTER YOUR PROCESS

HEAD OFFICE

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