



HRC

Banana ripening cooler – Tarp system

General information & application

Banana ripening coolers Helpman HRC have been designed for application in TARP system banana ripening rooms. The coolers have been optimised for 14.0 °C air-on and 13 °C air-off temperature at an evaporating temperature of 7 °C. Helpman HRC air coolers provide for an even temperature distribution throughout the whole ripening room, guaranteeing that the products are ripened as evenly as possible.

Evaporating temp.	7 °C (optimised)
Refrigerants	all H(C)FC, brine, CO ₂
Capacities (SC2)	12 up to 29 kW
Banana rooms	8 to 28 pallets

Standard configuration

- Finned coil
 - Cu tubing ø 5/8"
 - Tube pitch 50 x 50 mm square
 - Corrugated Alu-fins.
- Fitted with draw-through fans.
 - HRC 08/12: plate fan 550 W, 230/400/50/3
 - HRC 18/24: short case fan 1500 W, 400/690/50/3



Enclosed design spray-tight fan motors, protection class IP55. Motors are equipped with a thermal safety device in the windings, connected to separate terminals in the box.

- Corrosion resistant casing material: Aluminium/Senzimir, white epoxy coated (RAL 9003).
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- Hinged drip tray
- Fitted with schröder valve on the suction connection for testing purposes.
- Sufficient room for fitting the expansion valve inside.
- Suitable for dry expansion or pumped system.
- Stickers indicate fan direction and refrigerant in/out.



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- Delivery in mounting position. Coolers are mounted on wooden beams. Installation can take place with use of a forklift.

Test

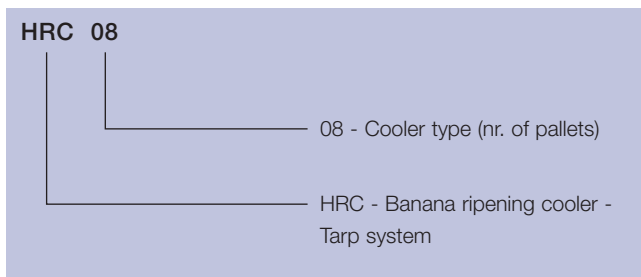
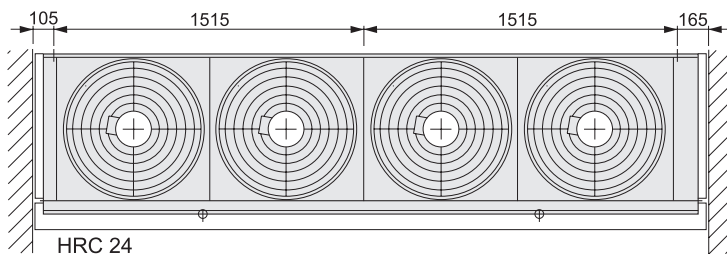
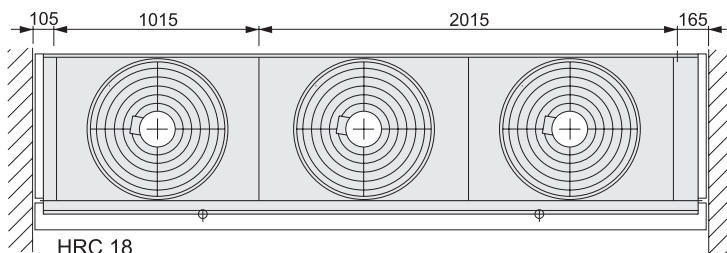
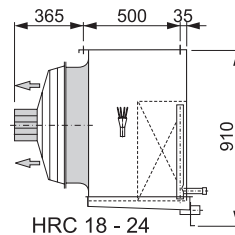
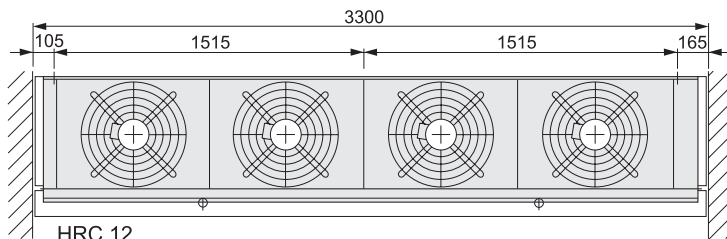
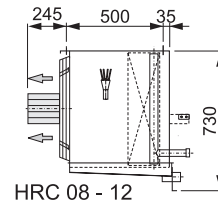
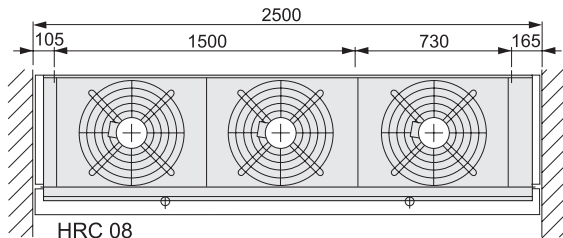
Design pressure 33 bar, higher design pressures on request. Each heat exchanger is leak tested with dry air and finally supplied with a nitrogen pre-charge. Brine coolers are tested at 6 bar.



Tarp system ripening room

Cooler type	nr. of pallets	cell width mm	cap. R-404A kW	air volume at 100 Pa m ³ /h	air volume at 150 Pa m ³ /h	surface m ²	int. volume dm ³	weight kg	Fans (50 Hz, 1500 rpm)			
									nr.	diam. mm	nom. Cap. kW	T.O.R.* A
HRC 08	8 - 10	2500	12	18000	15750	58	18	150	3	508	0.55	1.7
HRC 12	10 - 16	3300	16	24000	21000	77	25	220	4	508	0.55	1.7
HRC 18	16 - 22	3300	22	37000	32000	127	36	280	3	560	1.50	3.7
HRC 24	22 - 28	3300	29	46000	42000	216	36	310	4	560	1.50	3.7

* Adjustment value for Thermal Overload Relay.



Benefits

- Application based air cooler design
- Full control over the ripening process resulting in perfect product quality.
- Heavy duty coil & casing materials, resulting in a long operational product life.
- Reliable performance, Eurovent certified.
- Easy-install.
- Energy efficient.
- Low total cost of ownership.
- Two-year product guarantee.

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Alfa Laval reserves the right to change specification without prior notification.

How to contact Alfa Laval
Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com

