



Turn to the Experts™

# Water-Cooled Condenser



To reduce heat buildup in the ship's hold, Carrier units may be ordered with an optional Carrier-manufactured water-cooled condenser, which delivers condensing performance equivalent to air-cooled operation in 38° C (100° F) air temperatures with water temperature of 30° C (86° F) and flow of .38 L/s (6 gpm).

The Carrier water-cooled condenser is a shell-and-coil heat exchanger, with 90-10 copper-nickel water tubing, which takes the place of the receiver. The steel shell is electrostatically coated with powder paint and baked to a durable finish for superior corrosion resistance.

A switch senses the presence of water pressure applied to the condenser when connected aboard ship and automatically regulates operation of the condenser fan when not needed.

The condenser is equipped with Hansen-style quick-connect water fittings in accordance with ISO Standard 1496/2. A sight glass is provided at the bottom of the condenser shell to visually check the refrigerant charge.

The water-cooled condenser can be factory-installed by specifying this option when placing an order. The water-cooled condenser can also be purchased as a kit and field-installed by replacing the receiver.

If field installation is anticipated in the future, the refrigeration system should be ordered with the provision for such installation. The provision includes the mounting holes with insert nuts placed in the frame so that the condenser can be easily bolted in place. These holes are plugged to prevent air or water leakage.

Weight: 20.4 kg (45 lb)



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The steel shell is electrostatically coated with powder paint and baked to a durable finish for superior corrosion resistance.

Field Installation requires removal of the refrigerant charge with a refrigerant recovery system so that the refrigerant lines connected to the receiver may be cut and the receiver removed. Installation requires reconnecting the refrigerant lines with brazed joints, wiring, recharging the system, and leak testing. Additional refrigerant charge may be required. Quick-connect couplings, dust caps, and water pressure switch must be installed. MicroLink™ 2, 2i and 3 controllers require software reconfiguration to recognize the added water-cooled condenser.

Water-Cooled Condenser field installation kit P/N 76-50064-00. Accessory kit P/N 76-00677-00 (required for NT40-511, 531, 541 and 551 and later models.)

