



TEMPERATURE CONTROLLERS... PORTABLE CHILLERS... CENTRAL CHILLERS... PUMP TANK STATIONS... TOWER SYSTEMS...

SUBJECT: BRAZED PLATE VS. SHELL AND TUBE EVAPORATORS

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Two styles of evaporators are commonly used in **ADVANTAGE** chillers. The evaporator is where the process water is cooled during the refrigerant to water heat exchange portion of the chilling system.

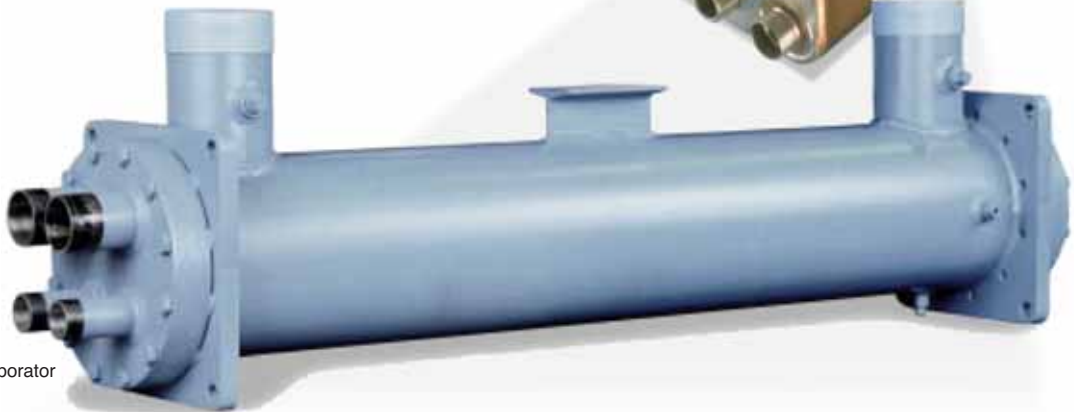
Brazed plate evaporators are used in most **ADVANTAGE** portable and smaller central chillers. Their space efficient shape and high efficiency allows for compact machine design. The non-ferrous construction eliminates rusting and alternating plate design makes the brazed plate evaporator less susceptible to freeze damage when compared with shell and tube evaporators.

Shell and tube evaporators are physically larger and heavier than brazed plate evaporators but are more tolerant of fluid contaminants.

Examples of brazed plate and shell and tube evaporators are shown at the right.



Braze Plate Evaporator



Shell & Tube Evaporator

	BRAZED PLATE	SHELL & TUBE
Construction	Stainless plates with copper brazing material	Carbon steel shell with copper tubes and baffle plates
Water Channels	Alternating plates	Shell
Refrigerant Channels	Alternating plates	Tubes