

Reduce your energy costs and minimize your carbon footprint with the McQuay TGZ Templifier™ Water Heater

McQuay TGZ Templifier water heaters use a unique technology to recover large amounts of heat that would typically be rejected from the building and then use that heat for processes, building heat, or domestic hot water. The name says it all: Temperature Amplifier—Templifier.

Templifier units can produce up to 160 °F water for use in service hot water heating or reheat applications. Units have been installed worldwide in hotels, hospitals, offices and factories. Both HVAC and process applications can reduce energy costs by using a Templifier water heater.

Building or Facility Uses

Hospitals	Laundry Service
Hotels	Swimming Pools
Schools	Kitchens
Fitness Centers	

Process Applications

Food Processing	Process Hot Water
Textiles	Preheat Feed Water
Paper Mills	

HVAC Applications

Space Heating	Reheat/Dehumidification
Service Hot Water	Outside Air Heating



Model TGZ Templifier units with scroll compressors are available in 600 to 3,100 MBh capacity.

One-Year Payback

Using an economic analysis program, a Templifier system can show a payback in less than a year based on several factors.

- Using recovered heat to raise the temperature of water for building heat or domestic hot water heating
- Heating water more economically than fossil fuel or electric resistance heaters
- Off-loading boilers and/or cooling towers, delaying or eliminating an equipment capital expense for increased heat production.

Templifier Proven Benefits

The TGZ Templifier unit is based on the McQuay line of scroll compressor packaged chillers with benefits proven in a variety of building types and performance conditions.

Templifier Feature	Benefit
Hermetic scroll compressors	Reliable performance from a simple design. Inherently low sound levels.
Open Choices™ control feature	Allows easy integration with your choice of building automation system using standard open protocols such as LonTalk®, BACnet® or Modbus®.
R-134a refrigerant	No ozone depletion potential and no phase-out schedule
Optional hot gas bypass	Permits unit operation down to 10% of full load capacity.
Energy efficient heat recovery	Reduces operating costs. Contributes toward LEED® points by improving efficiency of the heating system.





McQuay Model TGZ Templifier Water Heaters

Technical Specifications

TGZ Model Number	Heating Capacity (MBh)	COP	Dimensions (L x W x H in.)
040	603	5.19	139x33x63
050	815	5.01	139x33x63
060	999	5.19	139x33x63
080	1393	5.45	153x33x66
100	1613	5.52	153x33x66
110	1854	5.56	153x35x67
120	2094	5.61	153x35x67
150	2419	5.52	174x34x78
170	2780	5.57	174x34x78
190	3142	5.61	174x34x78

NOTE: Capacity is based on 85° F leaving source temperature, and a 10-degree temperature drop in the evaporator. Leaving condenser water temperature is 140°F with a 20-degree temperature rise. Maximum leaving water for all TGZ models is 160°F.



For heat recovery projects requiring larger capacity, the McQuay TSC Centrifugal Templifier Water Heater is available with capacities from 3,000 to 24,000 MBh.

For more information on how much your project can save with a Templifier water heater, contact your McQuay representative. To find a McQuay representative near you, visit www.mcquay.com.

A global leader in system solutions for air conditioning, heating, ventilating and refrigeration.

The following are tradenames or registered trademarks of their respective companies: BACnet from ASHRAE; LonTalk from Echelon Corp.; Open Choices and Templifier from McQuay International; Modbus from Schneider Electric.



(800) 432-1342
www.mcquay.com

©2008 McQuay International
ASP TGZ (11/08)