

Tankless Water Heaters for Outside the Home **Commercial Applications**



BOSCH

Invented for life



ProTankless™
Water Heaters for the Professional

Bosch Meets the Commercial Needs

Bosch Tankless Water Heaters install far beyond the typical residential installation. While an industry leader in residential domestic water heating needs, Bosch's full line of gas and electric tankless water heaters offer performance, capacity and reliability needed in any commercial application.

Bosch Tankless Water Heaters are designed to replace or enhance your current water heating system. Many water heating systems are complex and inefficient. By using a Bosch water heating solution, your business can start saving energy, money and become more efficient.

Maximize space by replacing large, obtrusive inefficient tanks with an energy efficient condensing tankless gas water heater, which can save up to 50% on energy costs compared with a traditional tank. With the capability of linking 4 gas units together to optimize flow capacity and with temperatures that can reach 180°F, there is a Bosch unit that will satisfy your water heating needs.

Also, included in the Bosch product family are point-of-use solutions that are perfect for remote or small areas that require low flow demands. Ideal installations for point of use solutions are employee kitchens, kiosks, restrooms, or mop rooms. Bosch can satisfy any commercial hot water needs – no matter the application or demand.



LOW NOx
↓
E M I S S I O N S

Bosch Condensing technology greatly reduces the NOx emissions (Nitrogen Oxides) which contribute to poor air quality and green house gases. The Bosch Condensing Tankless Water Heaters fall below the 2012 NOx emissions standards set by SCAQMD (California's South Coast Air Quality Management District).

A Few Installations

Best Western – Franconia NH

- ▶ **Models Installed and Qty**
 - C 920 ESC
 - Four units cascaded
- ▶ **Type of System**
 - Tank loading application with two 400 liter tanks
- ▶ **How many applications run off of it?**
 - 64 showers, 69 sinks and 2 commercial washing machines
- ▶ **Why Tankless?**
 - Energy savings and creates system redundancy by having 4 heaters
- ▶ **Additional notes on install (space savings, environmental considerations etc)**
 - This installation includes long concentric vent runs which terminate out through the sidewall (horizontally)



American Flatbread – Middlebury VT

- ▶ **Models Installed and Qty**
 - One C 920 ESC propane
- ▶ **Type of System**
 - Straight installation with a 8 gallon buffer tank (Ariston GL8Ti)
- ▶ **How many application run off of it?**
 - 1 commercial dishwasher, 1 commercial sink and 2 hand sinks.
- ▶ **Why Tankless?**
 - Energy savings and more capacity
- ▶ **Special Features about the installation**
 - Complex concentric vertical venting solution through a flat roof.



A Few Installations

The Ice Center – Waterbury, VT

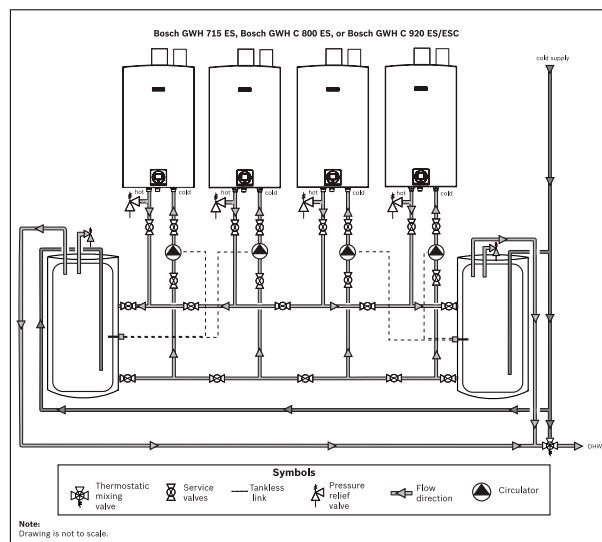
- ▶ **Models Installed and Qty**
 - Four C 800 ES propane
- ▶ **Type of System**
 - Four units cascaded in a domestic hot water recirculation loop.
- ▶ **How many application run off of it?**
 - 13 showers, 14 hand sinks and one 15-gallon Zamboni filling station
- ▶ **Why Tankless?**
 - Energy savings and more capacity. More economical and offers system redundancy for location.



Recommended Commercial Systems

Tank Loading with DHW Recirculation:

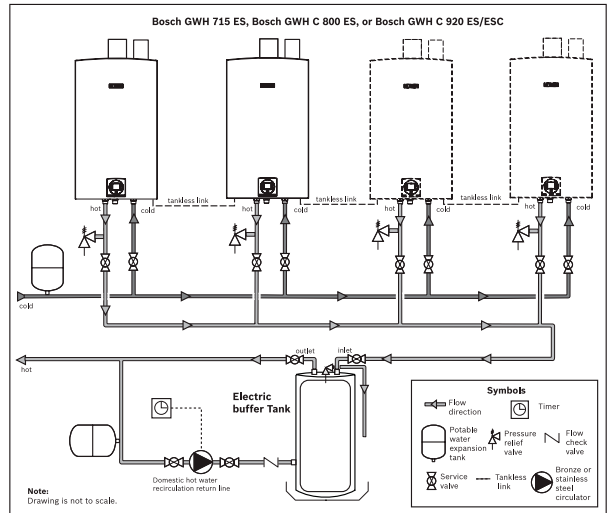
Multi-pump driven high output system with thermostatic and time controls. Expand this system by increasing the quantity of heaters and/or storage capacity.



Recommended Commercial Systems

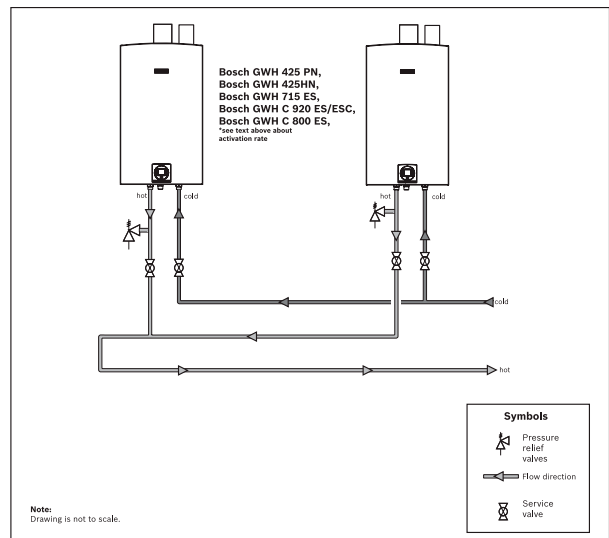
Cascading with Live Storage:

Let the built-in functionality of the Bosch Commercial heaters manage your hot water load. A live storage tank and small circulator pump are all that is needed to handle even your most varied demands. The perfect one pump solution for truly instant hot water.



Stable Draw Parallel:

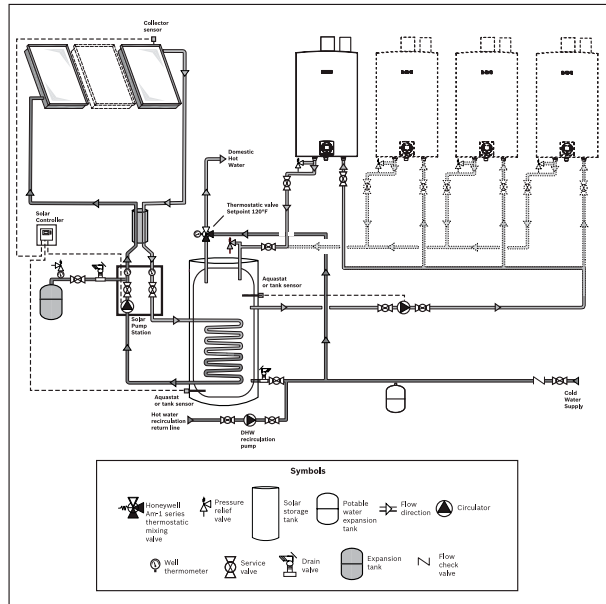
If you have a constant hot water demand over 3 gpm, this is a simple and efficient way to never run out of hot water again. Parallel Bosch heaters may have increased activation rates, but by using only piping and common valves—these heaters can produce steady hot water all day and night.



Recommended Commercial Systems

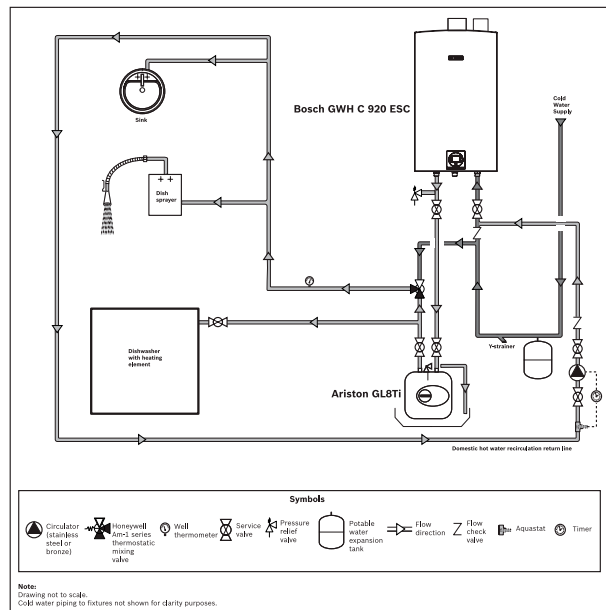
Solar Tank Loading:

Let the sun do some work with renewable benefits. Even if the sun can't cover your total hot water load, you'll still have hundreds of gallons per hour backing it up with this design. Three areas of flexibility or expansion: amount of solar collectors, tankless units and size of storage.



Commercial Kitchen with Live Storage:

This time and temperature controlled design allows instant hot water that never runs out- even in the busiest kitchens. Adjust the size of the live storage capacity for various dishwasher needs. An efficient and proven solution that works perfectly under heavy peak load as it does during prep hours.



Technical Specifications for Bosch Tankless Water Heaters



GWH C 920 ESC



The GWH C 920 ESC is the commercial version of our ultra-high efficiency modulating-condensing GWH C 920 ES water heater. It is ASME approved, **capable of delivering water at 180°F**, and altitude tested to 8,000'.

GWH C 920 ES



The new GWH C 920 ES is an ultra-high efficiency modulating-condensing water heater with low NOx emissions. It offers a high flow rate and a 225,000 BTU. It is ASME approved and altitude tested to 8000'.

GWH C 920 ESC / GWH C 920 ES		TECHNICAL SPECIFICATIONS	
Power Input	Natural Gas: 225,000 BTU/Hr	LP Gas: 225,000 BTU/Hr	
Minimum Flow to Activate	0.65 gallons per minute (gpm)		
Max. Outlet Temperature	GWH C 920 ESC - 180°F	GWH C 920 ES - 140°F	
Flow Rates	45°F rise @ 9.2 gpm	55°F rise @ 7.5 gpm	65°F rise @ 6.4 gpm
	77°F rise @ 5.4 gpm	90°F rise @ 4.6 gpm	
Thermal Efficiency	94%		
Dimensions	30.5" h x 17.875" w x 11.25" d		
Weight	88 lbs.		
Modulating Gas Valve	Min. Input rate: 25,000 BTU/Hr	Max. Input rate: 225,000 BTU/Hr	
Ignition	Electronic		
Venting	3" or 4" PVC, PVC-DWV, CPVC, ABS-DWV, or concentric pipe		



GWH C 800 ES



The GWH C 800 ES condensing unit offers a flow rate of up to 10 gpm, 92% efficiency, and the most advanced features in tankless technology, yet requires only 199,000 BTU/Hr input. This unit and the GWH 715 ES have the ability to cascade.

GWH 715 ES



The GWH 715 ES will meet the demands of the busy household and can be installed almost anywhere. Our tankless water heaters offer higher flow rates, sealed combustion, vertical or horizontal venting and an outdoor installation option.

GWH C 800 ES / GWH 715 ES		TECHNICAL SPECIFICATIONS	
Power Input	Natural Gas: 199,000 BTU/Hr	LP Gas: 199,000 BTU/Hr	
Minimum Flow to Activate	0.65 gallons per minute (gpm)		
Flow Rates	GWH C 800 ES	40°F rise @ 9.2 gpm	45°F rise @ 8.0 gpm
	GWH 715 ES	65°F rise @ 5.5 gpm	77°F rise @ 4.6 gpm
Flow Rates	GWH C 800 ES	55°F rise @ 6.4 gpm	90°F rise @ 3.9 gpm
	GWH 715 ES	35°F rise @ 9.2 gpm	45°F rise @ 7.2 gpm
Flow Rates	GWH C 800 ES	65°F rise @ 5.0 gpm	77°F rise @ 4.2 gpm
	GWH 715 ES	55°F rise @ 5.9 gpm	90°F rise @ 3.6 gpm
Energy Factor	GWH C 800 ES: 0.91	GWH 715 ES: 0.83	
Thermal Efficiency	GWH C 800 ES: 92%	GWH 715 ES: 83%+	
Dimensions	30.5" h x 17.875" w x 11.25" d		
Weight	GWH C 800 ES: 74 lbs.	GWH 715 ES: 67 lbs.	
Modulating Gas Valve	Min. Input rate: 19,900 BTU/Hr	Max. Input rate: 199,000 BTU/Hr	
Ignition	Electronic		
Venting	GWH C 800 ES: 3" or 4" PVC, PVC-DWV, CPVC, ABS-DWV, or concentric pipe GWH 715 ES: 3" or 4" stainless steel, or stainless steel concentric		