

HOBART DISHWASHER ENERGY AUDIT

Project: **Bemidji State University**
Bemidji, MN

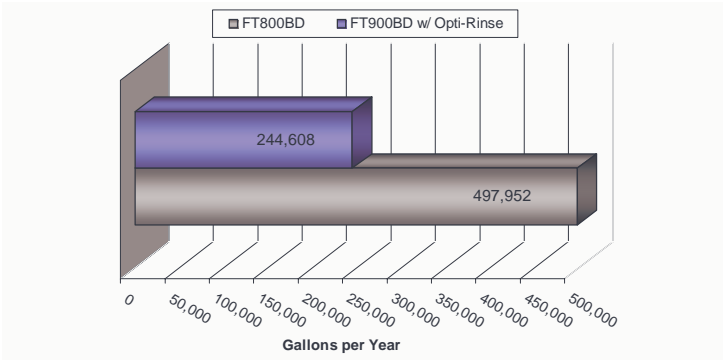
Date: Apr 25, 2006

Dishwashers to be compared:

Brand Model	Description	Water Usage per Hour*
Hobart FT800BD	Flight Type Continuous Racking Automatic Conveyor Dishwasher, Up to 13,043 Dishes/Hour, 342 Gallons/Hour	342 Gallons
Hobart FT900BD w/ Opti-Rinse	Flight Type Continuous Racking Automatic Conveyor Dishwasher, Up to 19,000 Dishes/Hour, 168 Gallons/Hour, S/S Pumps and Impellers, Variable Speed Conveyor, Insulated Doors, No Interior Piping, Controls at Both Ends, Provided with blower dryer	168 Gallons

<p>Operational Data</p> <p>Building Water Heater: Steam Hours per Day: 8.0 Days per Year: 260 Hours per Year: 2,080</p>	<p>Hobart FT800BD Data</p> <p>Tank Heat Type: Steam Sanitization Method: Hot Water Booster Heat Type: Steam Wash Time (Hrs): 8.0</p>	<p>Hobart FT900BD w/ Opti-Rinse Data</p> <p>Tank Heat Type: Steam Sanitization Method: Hot Water Booster Heat Type: Steam Wash Time (Hrs): 8.0</p>
--	---	---

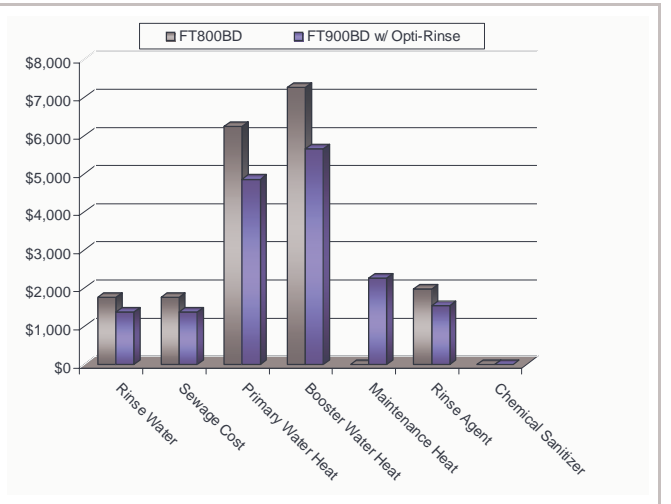
Final Rinse Consumption Comparison:



Model	Final Rinse Gallons per Year**
FT800BD	497,952
FT900BD w/ Opti-Rinse	244,608
Difference	253,344

FT900BD w/ Opti-Rinse will use 51% less water per year

Annual Cost	FT800BD	FT900BD w/ Opti-	Savings
Rinse Water	\$996	\$489	\$507
Sewage Cost	\$996	\$489	\$507
Primary Water Heat (55-140 deg)	\$5,457	\$2,681	\$2,776
Booster Water Heat (140-185 deg)	\$2,889	\$1,419	\$1,470
Maintenance Heat	\$7,020	\$7,020	\$0
Rinse Agent	\$1,120	\$715	\$405
Chemical Sanitizer	\$0	\$0	\$0
Total Annual Cost Savings			\$5,664



Payback Analysis:

Manufacturer & Model	Price
Hobart FT800BD	Not Entered
<u>Hobart FT900BD w/ Opti-Rinse</u>	<u>Not Entered</u>

* Water usage taken from current N.S.F. Listing Book

** Assumes final rinse in use 70% of the time

Note: Additional savings can be realized on the initial investment based on a smaller booster heater size requirement. Energy, water and cost computations are approximation of anticipated requirements. Actual performance will vary with site conditions and utility cost variations.