Boston Green Tourism
...advancing the green hotel movement

Hobart Energy Efficiency Program
Saving Water in the Dishroom
Water Saving Solutions For All Dishwasher Types

**Existing Warewashers**

**FT800/900**
- Uses more than 320 gallons of rinse water per hour
- Requires a hot water line for final rinse

**C-Line and A Series**
- Uses more than 300 gallons of rinse water per hour
- Requires a hot water line for final rinse

**AM-14**
- Uses more than 90 gallons of rinse water per hour
- Requires a hot water line for final rinse

**New Technology**

**FT1000**
- Cleans with only 58 gallons of rinse water per hour
- Energy Recovery and Ventless options use a cold water line for final rinse

**C-Line and A Series**
- Cleans with only 126 gallons of rinse water per hour
- Energy recovery option uses a cold water line for final rinse

**AM-15 Ventless**
- Cleans with only 44 gallons of final rinse water per hour
- Ventless option requires no vent hood and uses cold water for final rinse
High Speed “Flight Type” Dishwashers

HOBART DISHWASHER ENERGY AUDIT

Customer: ACE Summit
Prepared on: Feb 02, 2016

Dishwashers to be compared:

<table>
<thead>
<tr>
<th>Brand</th>
<th>Model</th>
<th>Description</th>
<th>Water Usage per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hobart</td>
<td>FT800/900</td>
<td>Flight Type Continuous Racking Automatic Conveyor Dishwasher, Up to 13,043 Dishes/Hour, 342 Gallons/Hour, Provided with lower dryer</td>
<td>342 Gallons</td>
</tr>
<tr>
<td>Hobart</td>
<td>FT1000-ER-BD</td>
<td>Dual-Phase Flight Type Continuous Racking Automatic Conveyor dishwasher, 5 experience room, 27 pallets and 6 pallets, Variable Speed Conveyor, Insulated Doors, Controls at Both Ends, Automatic Soil Removal, Auto Clean and Auto Deliner Features, Energy Recovery, Blower/Dryer</td>
<td>59 Gallons</td>
</tr>
</tbody>
</table>

Operational Data
- Building Water Heater: Gas
- Cost per therm: $0.814
- Wash Time (min): 10.2
- Sanitization Method: Hot Water
- Booster Heat Type: Electric
- Cost per kWh: $0.101

Final Rinse Consumption Comparison:

<table>
<thead>
<tr>
<th>Model</th>
<th>Final Rinse Water, Gallons per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT800/900</td>
<td>67.7</td>
</tr>
<tr>
<td>FT1000-ER-BD</td>
<td>47.78</td>
</tr>
</tbody>
</table>

Difference: 20.33

FT1000-ER-BD will use 83% less water per year.

Water Savings/Each Unit/Year

- FT800/900: 578,906 gallons/year savings
- FT1000-ER-BD: 223,562 gal

Energy Savings/Each Unit/Year

- FT800/900: $39,481
- FT1000-ER-BD: $17,131

Total Energy, $

- FT800/900: $20,022 energy savings/year
Conveyor Type Dishwasher  Energy Recovery

Runs on Cold Water
(uses captured steam to heat cold Water.  180 degree rinse

• Combined energy and water savings of more than $11,000 a year:
  • $2,047 from Energy Recovery
  • $9,192 due to Hobart’s exclusive Opti-Rinse™ technology
Door Type Dish Machine  

Energy Recovery Vent-less

Uses only .74 gallons per rack

Runs on Cold Water
(uses steam to heat cold water)
(180 degree rinse)
Energy Recovery Glass Washer

Hobart Perfect Glass

Short (34"")
LXGeR-S
LXGePR-S

Tall (42"")
LXGeR-T
LXGePR-T

Uses only .64 gallons of water per cycle. Runs on cold water only (uses captured steam to heat cold water)

Energy Savings up to $1000 per year
Advansys PW10eR & PW20eR

*Energy Recovery:
Heat is recovered from the condensation of vapors at the end of each cycle. This pre-heats the water for the next rinse cycle translating into energy savings & improved room environment for workers.

*Eliminating the need for a vent hood

Auto-Delime:
Notifies operator when to delime the machine based on specific site water hardness.
Auto Cycle then pulls delimer and delimes machine (including booster).
The result is less Labor, less chemical usage & prevents one of the most costly maintenance occurrences.

Additional Features:
- Wash-water Change Notification – Adds consistency to cleaning
- Additional Energy Savings ($1,925) vs Base Model
- Hot & cold water connection
- Steam reduction leads to more comfortable work environment
- Start Up from Hobart Service

Same features as Base plus Auto-Delime & Energy Recovery
Average savings of $1,925 vs Base machine (estimated 100 cycles per day)
Replacement Program

Equipment Package Pricing:
- Machines
- Turnkey Installation/ Includes Old Machine removal and disposal.
- Extended Warranty and Service Contract and PM Programs
- Leasing Opportunities

Payback Analysis for the Project:
- Most projects payback within 2-4 years
- Custom Energy Audits
- Metering
Thank you!

Contact Information

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We are proud to be Energy Star’s Partner of the Year for 8 consecutive years.