



# Hastings Water Works

## Winter Warm Up

Minimum Service

Thank you for allowing Hastings to maintain the health of your equipment over these coming harsh winter months. The mere fact that your pool is managed will help to ensure proper operation during the high demands that the peak season will place on it.

This packet provides our findings along with pictures to show you the detail of the work completed. The pictures are further augmented by checklists detailing each action taken to ensure the service has been provided. Your heater has also been compared to average life expectancy data to determine when you should plan for a replacement to avoid service interruptions. Finally, our technicians provide specific recommendations for ways we can help ensure your pool is ready when things warm up again. Thank you again and Happy Holidays!



YOUR PROPERTY  
YOUR PROPERTY ADDRESS

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### DATE OF SERVICE

11/17/2014





HEAT EXCHANGER W/NEW GASKETS



HEAT EXCHANGER END PLATE



HEATER BURNERS



BYPASS ASSEMBLY



Brand: Pentair Model: MiniMax 400 DV Serial Number: 01030179

## HEATER RECONDITION

### Actions Taken

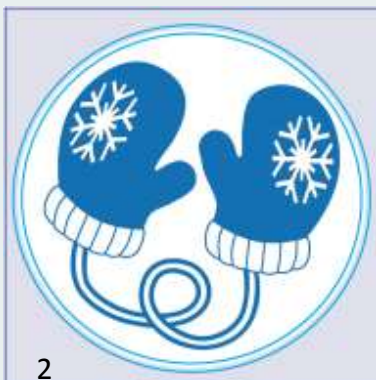
- Disassembled flue stack; inspected and reassembled
- Inspected internal bypass
- Inspected wiring
- Cleaned millivolt wire connections (N/A)
- Inspected burner tray, removed & cleaned if needed
- Inspected heat exchanger
- Heat exchanger - acid wash required and completed at our warehouse at additional charge
- Replaced gaskets
- Inspected cabinets, firewalls, and combustion chamber
- Installed pest prevention

### Recommendations

Your heater appears to be over 8 years old. Pentair states the average life expectancy of your heater to be between 5-10 years under normal conditions. Upon further inspection, the heat exchanger bundle appears to be wearing thin where the water flows through the unit.

We did not acid wash the heat exchanger bundle due to it's current clean and soot free condition. We suggest you minimally plan on replacement of the heat exchanger in the upcoming months. Because the heat exchanger bundle is wearing thin, in time, the water will eat through the remaining wall and cause a leak, which can only be fixed with a new heat exchanger. The heat exchanger bundle is \$xxxx (see attached estimate) and we will be happy to schedule replacement if this is your instruction.

Even though we are not electricians, we would suggest discussing the installation of a 220A GFCI breaker for the heater with a licensed electrician as a best practice.





## EQUIPMENT INSPECTION

### Actions

- Inspect Pump-Turn motor on and assess bearing condition
- Inspect exterior of filter tanks for corrosion or damage
- If there is a Chemical Feeder, run to check bearings (Stenner/Blue White)
- Visual inspect all valve handles for defects, replace if needed
- Perform minor repairs, if possible while on premise

### Recommendations

Even though we are not electricians, we suggest discussing the installing a 20A GFCI breaker for the pump with a licensed electrician as a best practice.



## PLUMBING INSPECTION



## PLUMBING RECOMMENDATIONS

We have no recommendations at this time. Review of plumbing shows no immediate signs of failure. It is visually in good working order.

### Hastings Water Works

#### Cleveland

10331 Brecksville Road  
Brecksville, Ohio 44141  
Phone: 440.832.7700

#### Columbus

824 Rose Avenue  
Columbus, Ohio 43219  
Phone: 614.888.3200

[www.hastingswaterworks.com](http://www.hastingswaterworks.com)

