Wales Darby
Complete HVAC, Hydronic & Plumbing Systems

DIVERSIFIED HEAT TRANSFER, INC

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# ST SERIES START-UP FORM

Please complete ONE (1) form for each SITE at which DHT ST Series Units are installed and return it to DHT for warranty validation within 30 days of start-up. After completion, e-mail this form to: WARRANTY@DHTNET.COM or fax to 718-386-7809.

Completed by: _____ Date: _____

| UNIT AND LOCATION | | |
|---|---|---|
| Installation Name: | Technician: | |
| Street Address: | Company: | |
| City, State, Zip: | | |
| Phone#: | Fax#: | Email: |
| DHT Sales Rep: | | |

| EQUIPMENT CLASSIFICATION |
|---|
| Choose the unit type and enter the serial number for each unit. Add additional in ADDITIONAL NOTES if needed. |
| Model # |
| Serial # |

| GENERAL INSTALLATION | | | |
|---|---|---|---|
| 1. Does the installation meet DHT recommended clearances? | | ☐ Yes | ☐ No |
| 2. Does condensate gravity drain? | | ☐ Yes | ☐ No |
| 3. Does condensate drain to a receiver? | | ☐ Yes | ☐ No |
| 4. Is the relief valve piped to drain or within 12" of floor? | | ☐ Yes | ☐ No |
| 5. Is the unit's drain piped to the floor or a drain? | | ☐ Yes | ☐ No |
| 6. Is a recirculation system used to maintain system water temperature? | | ☐ Yes | ☐ No |
| 7. If yes, what is the recirculation pump capacity in GPM? | | GPM | |
| 8. What is the outlet water temperature set point? | | °F | |
| 9. What is the high limit temperature switch setting? | | °F | |
| 10. For a multiple unit installation, does the system utilize one or more of the following balancing methods for domestic water? | Reverse Return Piping | ☐ Yes | ☐ No |
| | Balancing Valves | ☐ Yes | ☐ No |
| | Current Feed Manifolds | ☐ Yes | ☐ No |

| FOR HEATERS USING A STORAGE TANK | | |
|---|---|---|
| 1. Storage tank is: | ☐ Stratified | ☐ Accumulator |
| 2. Does the tank have | ☐ Baffle | ☐ Dispersion Tube |
| 3. What is the storage tanks volume? | Gallons | |
| 4. What is the heater outlet temperature? | °F | |

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| | | | | |
|---|---|---|---|---|
| 5. Position of aquastat: | ☐ Upper 1/3 | ☐ Middle 1/3 | ☐ Lower 1/3 | ☐ No aquastat |
| 6. What is the aquastat temperature setting? | | °F | | |
| 7. Does the aquastat control the pump between the tank & heater? | ☐ Yes | ☐ No | | |
| 8. Is a throttling valve installed between the pump and heater? | ☐ Yes | ☐ No | | |
| 9. Is there a bypass loop around the pump? | ☐ Yes | ☐ No | | |
| 10. What is the capacity of pump between the tank and heater? | | GPM | | |

| WATER HEATER INSTALLATION | | | | |
|---|---|---|---|---|
| 1. Are isolation valves installed in the inlet piping? | ☐ Yes | ☐ No | | |
| 2. Are isolation valves installed in the outlet piping? | ☐ Yes | ☐ No | | |
| 3. Is a hose bib installed in the outlet piping? | ☐ Yes | ☐ No | | |
| 4. Are check valves installed in the cold water inlet? | ☐ Yes | ☐ No | | |
| 5. Are check valves installed in the recirculation line? | ☐ Yes | ☐ No | | |
| 6. Building recirculation is piped to: | ☐ Inlet Side of Heater | ☐ Inlet Side of Heater | | |
| 7. Record distance of building connections (ft)_____ & cold water feed_____to the bank of unit (s). | | | | |
| 8. What are the maximum/ minimum design flow rates through the unit? | MAX _____GPM | MIN _____GPM | | |
| 8A. Were the maximum/ minimum flow rates verified? | ☐ Yes | ☐ No | | |
| 9. What is the design system flow rate? | | GPM | | |
| 10. What is the design plant delta T? | | °F | | |

| VALVE INFORMATION | | | | |
|---|---|---|---|---|
| 1. What is the inlet steam pressure to the valve? | | PSI | | |
| 2. What is the inlet temp of Boiler Water? | | °F | | |
| 3. Has the boiler water flow been balanced between the units? | ☐ Yes | ☐ No | | |
| 4. Type of valve: | ☐ Pneumatic | ☐ Self- Contained | ☐ Electric | |
| | ☐ Other (specify model/ manufacturer) | | | |

Startup is defined as one (1x) site visit by an authorized Wales Darby technician to set up the product(s) for operation. For more information regarding what the startup services are per product, see the Startup Report Forms at https://walesdarby.com/startupforms/. Wales Darby is not responsible for any services not listed on the applicable Startup Report Forms, including owner's training and commissioning. Should other services not listed on the Startup Report Forms be needed, please inquire with your salesperson.

Prior to Wales Darby Inc. scheduling a Startup, Customer MUST fill out the applicable Pre-Startup Checklists and return to Wales Darby. Pre-Start Up Checklists can be found at https://walesdarby.com/checklists/. Once Pre-Start Up Checklists are received by Wales Darby, please allow up to ten (10) business days for Startup scheduling.

Additional charges may apply for (1) additional visits if the product(s) are not ready for Startup when technician is onsite, (2) cancellations for Startup within 24 hours of the scheduled time, (3) expedited scheduling requiring Startup to be performed within three (3) business days of the request (4) work performed during the visit that is not included in the applicable Startup Report Forms, or (5) other site visits to perform work not covered under the scope of Startup.

Utilizing Startup does not preclude the Customer from following the products' IOM(s).