



# SUPERPLATE INDIRECT FIRED WATER HEATER INSTALLATION FORM

Please complete **ONE (1)** form for each **SITE** at which **DHT SUPERPLATE** 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](mailto: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 #: \_\_\_\_\_  
 DHT Sales Rep: \_\_\_\_\_ Email: \_\_\_\_\_

## EQUIPMENT CLASSIFICATION

Choose the unit type and enter the serial number for each unit. Add additional in **ADDITIONAL NOTES** if needed.

<input type="checkbox"/> Single Wall Brazed Plate	<input type="checkbox"/> Double Wall Brazed Plate	<input type="checkbox"/> Single Wall Plate & Frame	<input type="checkbox"/> Double Wall Plate & Frame
<input type="checkbox"/> C46	<input type="checkbox"/> C61M	<input type="checkbox"/> C76M	<input type="checkbox"/> M221EX
<input type="checkbox"/> MD221EX	<input type="checkbox"/> N7N	<input type="checkbox"/> N21C	<input type="checkbox"/> N21N
<input type="checkbox"/> N7NE	<input type="checkbox"/> N21CE	<input type="checkbox"/> N26CE	

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Other (please specify): \_\_\_\_\_

## GENERAL INSTALLATION

- Is the relief valve piped to drain or within 12" of floor?  YES  NO
- Is there an electrical service switch at or near the unit?  YES  NO
- Does any electrical conduit, ductwork or piping impede the serviceability of the unit or the ability to remove the sheet metal covers?  YES  NO
- Have all electrical components been verified for proper grounding?  YES  NO
- Has all communication wire been properly shielded?  YES  NO
- What is the system pressure? \_\_\_\_\_ PSI
- The system application is:  Potable Water  Process  Storage Tank  Other: \_\_\_\_\_
- Are all units installed in accordance with the clearances defined in the SUPERPLATE OM?  YES  NO  
 a. If no, why? \_\_\_\_\_
- If multiple units are installed in parallel, are they piped reversed return as per the SUPERPLATE OM?  NA  YES  NO  
 a. If no, why? \_\_\_\_\_

## 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
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     None
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
  - a. Were the maximum/ minimum flow rates verified?  YES     NO
9. What is the design system flow rate? \_\_\_\_\_ GPM
10. What is the design boiler plant delta T? \_\_\_\_\_ °F
11. Is there a buffer tank used with the SUPERPLATE Heater?  YES     NO
  - a. If yes, is the buffer tank supplied by DHT?  YES     NO
  - b. Number of buffer tank ports?  2 Ports     4 ports
  - c. Buffer tank volume: \_\_\_\_\_ Gallons
12. What is the setpoint? \_\_\_\_\_
13. What is the high limit set to? \_\_\_\_\_
14. What boiler water temp is being supplied ? \_\_\_\_\_
15. What is the boiler water pressure? \_\_\_\_\_
16. Does the SuperPlate have a dedicated boiler pump?  YES     NO
17. What is flow rate of the pumo? \_\_\_\_\_ GPM
18. Has the flow been verified?  YES     NO

## CONTROL BOX CONFIGURATION

Please indicate if any changes have been made to the Factory Settings.

Factory Settings	Factory Value	Field Value (Changes)
Primary Alarm On	160°F	
Primary Alarm Off	155°F	
Secondary Alarm On	170°F	
Secondary Alarm Off	165°F	
Setpoint	140°F	
Gain	4.5	
Integral	1	
Derivative	0.00	
Dead Band	0.00	

Factory Settings	Factory Value	Field Value (Changes)
Valve Open	50%	
Auto	NA	
Filter	1.00	
PID	Reverse	
Scale	32F-4mA 212F-20mA	
Pump	working	
Aqua Stat	180°F	

## WATER QUALITY

DHT recommends that a sample of the unit's input water supply be tested to determine if it will have an adverse effect on the unit. Testing can be via a standard water quality test kit, widely available at retail hardware and home improvement stores. The following questions can be answered by such test kits.

1. What is the pH of the water? \_\_\_\_\_ (a pH Between 6.5 to 9.5 is recommended)
2. What is the hardness of the water? \_\_\_\_\_ Grains per Gallon (1-10 is recommended)
5. Is there a water softening or treatment system installed?  YES  NO
  - a. If yes, what kind?  Salt  No Salt  Chemical Injection  Other \_\_\_\_\_

## SUMMARY

1. Are all the units installed in accordance with DHT guidelines & industry best practices?  YES  NO
  - A. If no, please describe the issues.

B. Who has been contacted? Please provide name & Number for each person contacted. (Check all that apply)

- |   |  |
|---|--|
| <input type="checkbox"/> DHT Engineer: _____<br><input type="checkbox"/> Mechanical Contractor: _____<br><input type="checkbox"/> Design Engineer: _____<br><input type="checkbox"/> Controls Engineer: _____ | <input type="checkbox"/> General Contractor: _____<br><input type="checkbox"/> Building Owner: _____<br><input type="checkbox"/> Plumber: _____<br><input type="checkbox"/> Electrician: _____ |
|---|--|

2. Is there any conflicts between the Installation & the Engineer' s Specification or Design Plans?

YES

NO

A. If no, please describe the issues.

B. Who has been contacted? Please provide name & Number for each person contacted. (Check all that apply)

DHT Engineer: \_\_\_\_\_  General Contractor: \_\_\_\_\_

Mechanical Contractor: \_\_\_\_\_  Building Owner: \_\_\_\_\_

Design Engineer: \_\_\_\_\_  Plumber: \_\_\_\_\_

Controls Engineer: \_\_\_\_\_  Electrician: \_\_\_\_\_

3. Are there any conflicts or physical restrictions that will prevent the boiler plant from receiving proper preventative maintenance in the future?

YES

NO

A. If no, please describe the issues.

B. Who has been contacted? Please provide name & Number for each person contacted. (Check all that apply)

DHT Engineer: \_\_\_\_\_  General Contractor: \_\_\_\_\_

Mechanical Contractor: \_\_\_\_\_  Building Owner: \_\_\_\_\_

Design Engineer: \_\_\_\_\_  Plumber: \_\_\_\_\_

Controls Engineer: \_\_\_\_\_  Electrician: \_\_\_\_\_

4. Please outline any exceptions that have granted by a DHT Engineer for this installation if necessary.

**OTHER NOTES:**

**DHT INTERNAL APPROVAL**

DHT Engineer Sign-off: \_\_\_\_\_ Date: \_\_\_\_\_