

Quick-Start Manual

Trinapak™

Primary/Secondary Modules



Pre-assembled boiler piping and zoning packages for the NTI Trinity Ti100/Ti150® boilers

Includes:

- Primary/Secondary piping*
- Zone Pumps or Zone Valves*
- Optional Zone Mixing Modules*
- Optional Indirect Water Heater Pump Kit*

Precision Hydronic Products

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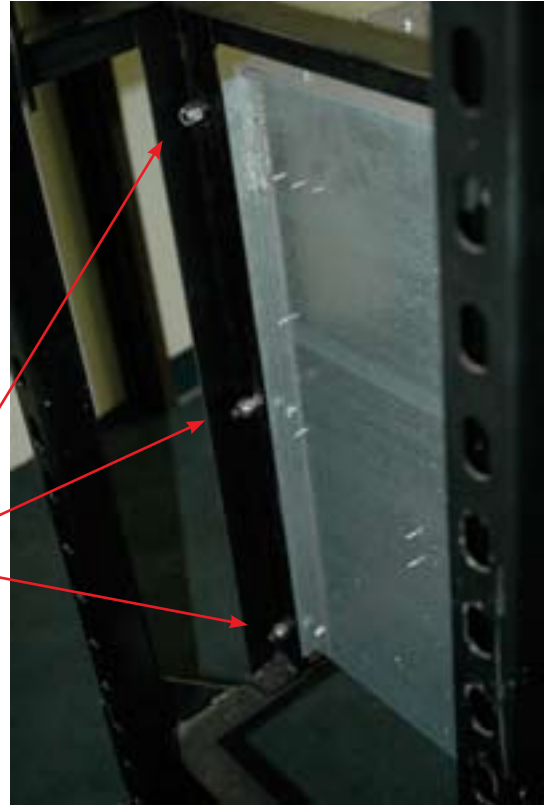
NTI Trinity Ti100/Ti150® Primary/Secondary Modules

Step 1:

Place and level the stand then locate the hanging strips on each side of the boiler and attach the boiler to the stand. On each side, use 3 lock nuts, washers, and the allen bolts provided. Tighten the nuts securely.



Properly mounted bolts are shown from behind the stand



Step 2:

Install the supply/return half unions and supply/return starter pieces. Use pipe sealant and securely screw the half union pieces onto the supply and return of the boiler located on the left side of the boiler.



Align starter pieces vertically then tighten the unions.



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Step 3:

Install the primary loop return pump and then the primary/secondary transition piece. Mount the primary loop pump on the return pipe with the pump directional arrow facing down. Make sure to use the pump gaskets and attach the pump to the support bracket as shown.



Mount pump to support bracket with washers using 2 pump bolts and nuts. Check that pump directional arrow is pointing down. Make sure to use a pump gasket between the flanges and that the contact surface is above the support bracket.

Mount the primary/secondary transition piece on the top of the supply and return lines as shown. Be sure to use a pump gasket between the top flange of the pump and the flange on the transition piece and between the two flanges on the supply pipe. Use 2 pump bolts and nuts on each flange.



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Step 4:

If using the optional DHW pump kit, install it now. Install to the left of the return pump. Remove the cap and screw on the half union, then attach the pump connection. The DHW pump support bracket must be mounted on the side rail of the stand with strut nuts and allen bolts, then attach the pump (directional arrow pointing down)



to the pump flange using 2 pump bolts and nuts. NOTE: The swivelling lower flange and inner contact surface should be on TOP of the pump support bracket, but the bottom of the bolt should come from BELOW the support bracket.



There is a capped Tee on the supply pipe to connect the supply to an indirect domestic water tank. NOTE: The DHW pump kit uses a high head pump with a check valve in the pump flange to provide the required flow through the condensing Trinity boilers. Always confirm that the pump will provide the required flow through the boiler and water tank. When installing your own DHW pump, make sure it is properly sized and include a check valve.

Step 5:

Attach the fill valve to the union connection on the lower left of the expansion tank and the fill line to the expansion tank and to the bottom of the air eliminator. Use the two struct clamps (provided) to secure the fill line the the stand. The



expansion tank usually ships pre-mounted to the stand, but if it is not mounted, place the middle rim of the expansion tank in the middle groove in the holder and secure with the 2 band clamps (provided).



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Step 6:

Slide the zone module onto the horizontal rail. Use the silicone grease provided to lubricate the o-rings then push the Slip-Fit connections together until the two flanges meet. Tighten the strut nuts to secure the zone module.



Step 7:

Install the 2 half-brackets over the Slip-Fit flanges and secure with the stainless steel zip-tie. The zip-tie only needs to be snug in order to hold the brackets in place.



Step 8:

To complete the Trinapak assembly, install the gauges, zone pumps (if used), and end kits with the purge valves. Secure the Slip-Fit connections as shown above.



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The boilerpak secondary zone modules are interchangeable with all boilerpak primary components. The secondary zones are available in assemblies up to 5 zones for zone pump and zone valve modules and in assemblies up to 3 zones for mixing modules. Additional modules may be added to achieve the desired number of zones. Pumping modules are available with either Taco 008-F6 or Grundfos UPS 25-58 FC pumps.



Zone Pumps with
 Grundfos UPS 15-58 FC



Zone Pumps with
 Taco 008-F6



Zone Valves with
 Taco EBV



Mixing module with
 Taco 2-way i-Valve



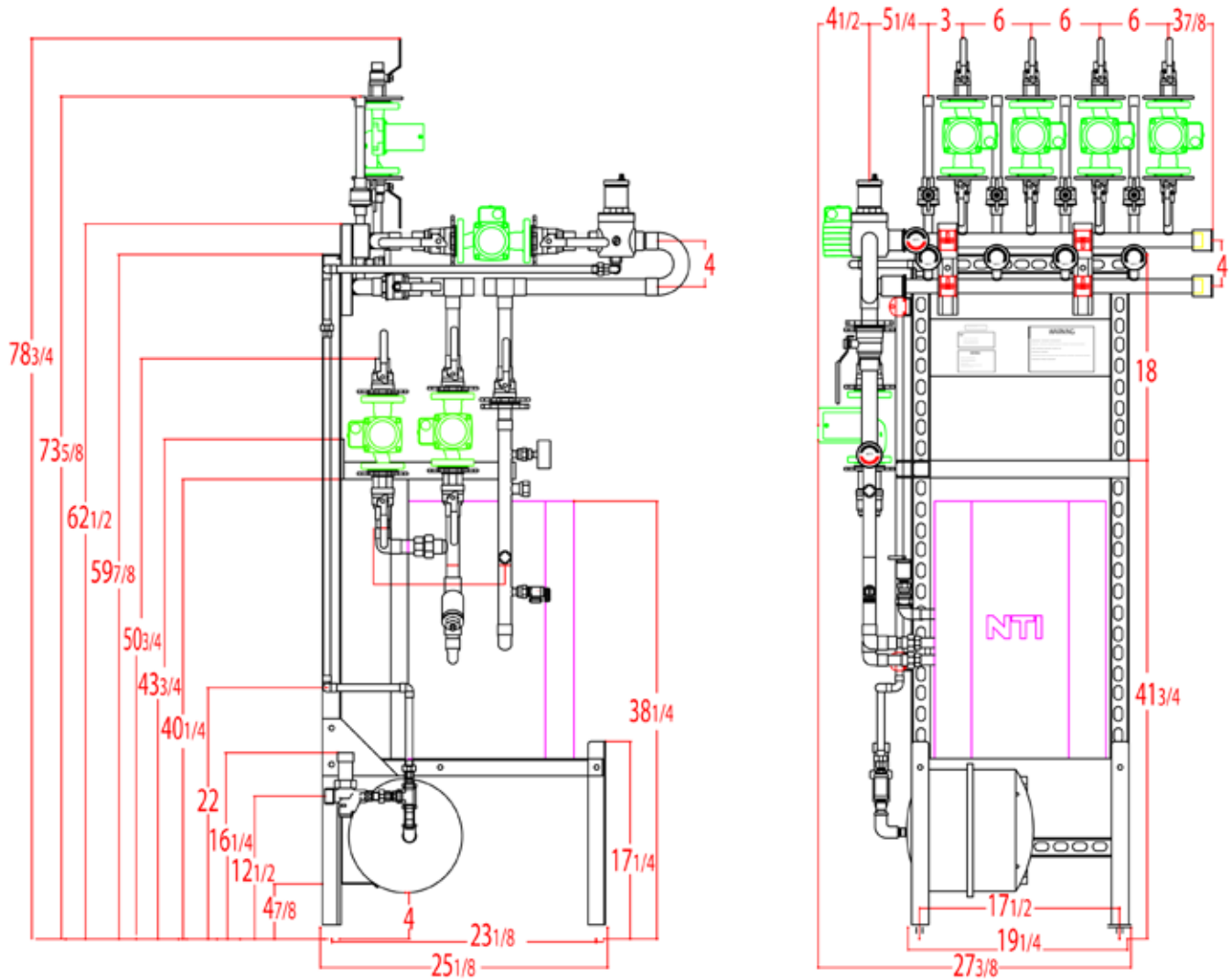
Mixing module with
 Cash Acme 3-way
 Manual Valve



Mixing module with
 Taco 3-way i-Valve

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Boilerpak Dimensions



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