

TFTN



Products you need
from people who care

The Next Generation of our Flagship TFT Boiler



Wall Mount
(7 sizes from 85 to 399 MBH)

Floor Mount
(4 sizes from 500 to 850 MBH)

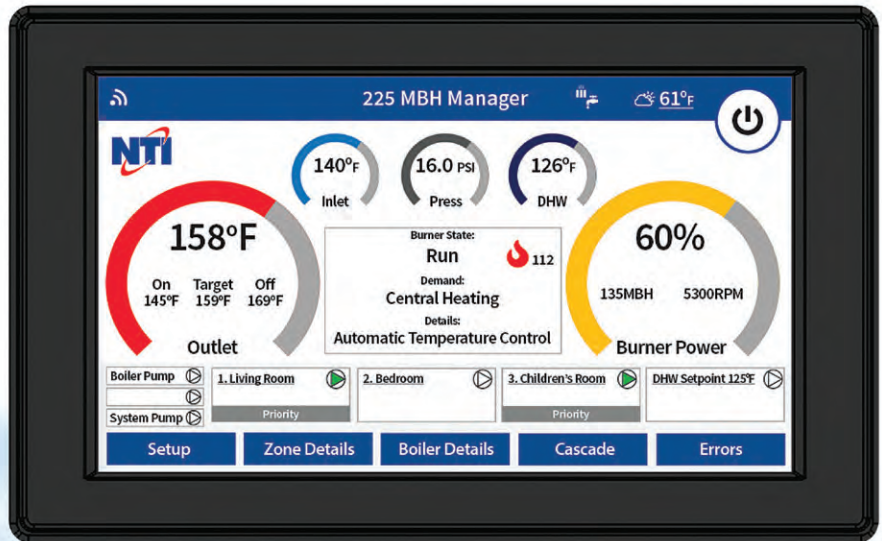
Even better: new features & sizes

TFTN

Delivering State-of-the-Art Functionality and Flexibility

NTI's new TFTN residential & light commercial boilers deliver unprecedented functionality with a proprietary control that is intuitive and easy to program, and onboard Wi-Fi.

Using the same legendary reliability, quality construction and state-of-the-art technology that were at the heart of the TFTN's predecessor, the TFT, you can trust the TFTN to deliver.



Large color touchscreen

The TFTN features an impressive, high-quality 7" color touchscreen and robust new control designed for improved precision and efficiency with easy-to-read graphics. It features NTI's newly designed EZ Set Up Wizard, designed with input from contractors, to deliver intuitive, and quick set up and performance.

Remote access and monitoring

The TFTN is Wi-Fi enabled to allow remote diagnostic and 24/7 monitoring via the NTI Remote Contractor web-based diagnostic service capability:



- Contractors can remotely manage single and multi-boiler TFTN installations
- Accessible data includes boiler readings, settings, status, history, statistics, troubleshooting and more, in real time, in an easy-to-view format
- All settings are remotely adjustable, and all changes tracked
- Service issues can be investigated remotely through viewing any past or current boiler errors
- Blocking errors promptly trigger an email notification allowing contractors to proactively notify customers of service issues with viewable log graph for easy reference
- NTI's Tech Support can connect to view boiler diagnostics

From NTI: A leader in boiler design since 1967. Innovation is in our DNA.

Quality standards that are second to none.

Our in-factory quality control processes are among the most rigorous in the industry – every single TFTN boiler is factory-run and calibrated for optimal performance. Our warranties provide you with the assurance of years of worry-free operation and our technical support is among the best in the industry.

Sustainable comfort matters to us.

Our boilers are certified low NO_x, providing up to 98% heating efficiency. Reducing emissions while delivering high-quality heating – NTI has the solution.



Industry – proven, down – fired fire tube technology

The TFTN's stainless steel heat exchanger is ASME certified and uses down-fired fire tube technology, an industry-proven design that optimizes heat transfer and increase energy efficiency.

The fire tube provides generous space for flue gas to pass and significantly reduces the need for cleaning due to its vertical configuration and operates cleaner during condensing mode.



Features

- BACnet capable with added accessories
- Ability to control a variable speed boiler pump via 0-10V or PWM signal for maximum efficiency
- Lead lag up to 8 boilers
- Three 24VAC T-Stat inputs
- DHW recirculation control at the boiler or remotely
- Alarm output contact
- 0-10V input for external set point/external burner control
- 0-10V output to provide proportional firing rate
- 4 sensor inputs (outdoor, DHW, 2 auxiliary)
- 3 zone outputs (120V or 24V)
- Total 7 pump outputs: 3 zone, 1 DHW, 1 boiler, 2 auxiliary pumps (recirculation, system, buffer)

TFTN **Wall Mount**

7 sizes from 85 to 399 MBH

Performance & Design

- Sizes 85 to 285: 95-96% AFUE
- Sizes 340 to 399: 95.4% Thermal Efficiency
- 50 or 80 psi MAWP depending on the size
- 10:1 turndown ratio*
- Sealed cabinet for improved performance

Service & Features

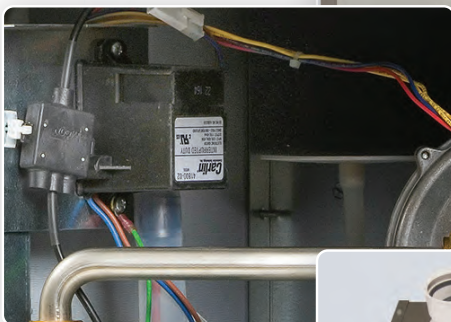
- Remote access via NTInet
- Internal water pressure sensor for remote pressure monitoring
- Built-in low water cut-off with test button
- Maximum cabinet space for easy serviceability
- High output ignition transformer

Operation

- Quiet operation with integrated silencer and air filter
- Built-in 3-zone control, valves or pumps (expand to 6 heating zones using optional N-Link 3 zone expansion module)
- DHW input with programmable priority (tank thermostat or sensor)
- Anti-legionella function

Installation

- Top or bottom supply and return connections
- Direct vent certified or use with indoor combustion air
- Balanced or unbalanced vent/air termination
- 120V convenience outlet



* Excluding size 340

TFTN

Floor Mount

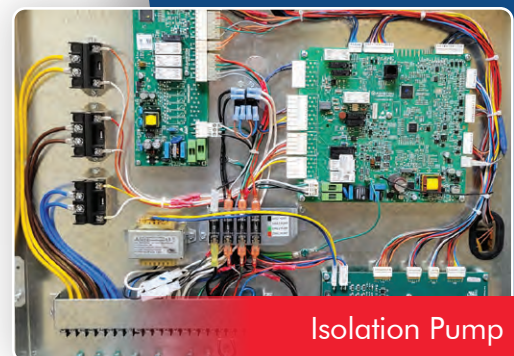
4 sizes from 500 to 850 MBH

Includes all the features of our wall-mount sizes, but with differences in specifications and performance, connections and switches:

- 97-97.7% Thermal Efficiency
- 160 psi MAWP
- 10:1 turndown ratio
- All connections are in the back, including the exhaust and air intake
- Isolation relays for pumps and gas valve/dry contact
- CSD-1-ready with high and low gas pressure switches
- Leveling legs
- Only 28" wide: fits through a standard door



CSD-1 Gas Train and Water Trim



Isolation Pump Relays

TFTN Specifications

Wall Mount

DESCRIPTION	TFTN085	TFTN110	TFTN150	TFTN199	TFTN285	TFTN340	TFTN399
CSA Input Modulation (MBH) ¹	8.5 - 85	11 - 110	15 - 150	19.9 - 199	28.5 - 285	39.9 - 340	39.9 - 399
Heating Capacity (MBH) ^{1,2}	79	101	138	184	263	324	380
Net AHRI Rating, Water (MBH) ^{1,2}	69	88	120	160	229	282	330
AFUE (%) ²	96	95	95	95	95	95.4	95.4
Water Connections, NPT (in.)	1-1/4 (M)	1-1/4 (M)	1-1/4 (M)	1-1/4 (M)	1-1/4 (M)	1-1/2 (M)	1-1/2 (M)
Gas Connection, NPT (in.)	3/4 (M)	3/4 (M)	3/4 (M)	3/4 (M)	3/4 (M)	3/4 (M)	3/4 (M)
Vent/Air-inlet Pipe Diameter (in.) ³	2 or 3	2 or 3	2 or 3	2 or 3	3	4	4
Cabinet Height (in.)	34-1/8	34-1/8	34-1/8	34-1/8	34-1/8	36-1/2	36-1/2
Cabinet Width (in.)	19-7/8	19-7/8	19-7/8	19-7/8	21-3/8	25-1/4	25-1/4
Cabinet Depth (in.)	17-1/4	17-1/4	18-3/4	18-3/4	18-3/8	18-7/8	21-1/4
Approx. Boiler Weight with Water (lbs)	107	107	122	140	180	250	250
Approx. Boiler Water Content (Gallons)	1.4	1.4	2	2.8	4.9	7.1	6.4
Electrical Rating	120V / 1Ph / 60Hz / less than 12A						

Floor Mount

DESCRIPTION	TFTN500	TFTN600	TFTN725	TFTN850
CSA Input Modulation (MBH) ⁴	50 - 500	60 - 600	72.5 - 725	85 - 850
DOE Heating Capacity (MBH) ^{4,2}	489	585	705	825
Net AHRI Rating, Water (MBH) ^{4,2}	425	509	613	717
Combustion Efficiency (%) ²	98	97.8	97.7	97.6
Thermal Efficiency (%) ²	97.7	97.5	97.2	97
Water Connections, NPT (in.)	2 (M)	2 (M)	2.5 (M)	2.5 (M)
Gas Connection, NPT (in.)	1 (M)	1 (M)	1-1/4 (M)	1-1/4 (M)
Exhaust Connection (in.) ³	4	4	6	6
Air Intake Connection (in.)	4	4	4	4
Cabinet Height (in.)	62-1/2			
Cabinet Width (in.)	28-1/4			
Cabinet Depth (in.)	27-5/8			
Approx. Boiler weight with Water (lbs.)	575	575	685	690
Approx. Boiler Water Content (Gallons)	12.5	12.5	17.5	16.5
Electrical Rating	120V / 1Ph / 60Hz / less than 12A			



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Scan to
 learn more
 about TFTN



- Listed Input and Output ratings are at minimum vent lengths at an altitude of 0-2000 ft. Numbers will be lower with longer venting and/or altitudes greater than 2000 ft.
- Ratings based on standard test procedures prescribed by the U.S. Department of Energy; certified by AHRI. Efficiency listed for models TFTN340 & TFTN399 represents Thermal Efficiency (AFUE is not applicable).
- TFTN units require a special venting system, use only vent materials and methods detailed in the installation manual.
- Ratings based on standard test procedures prescribed by the U.S. Department of Energy; certified by AHRI.