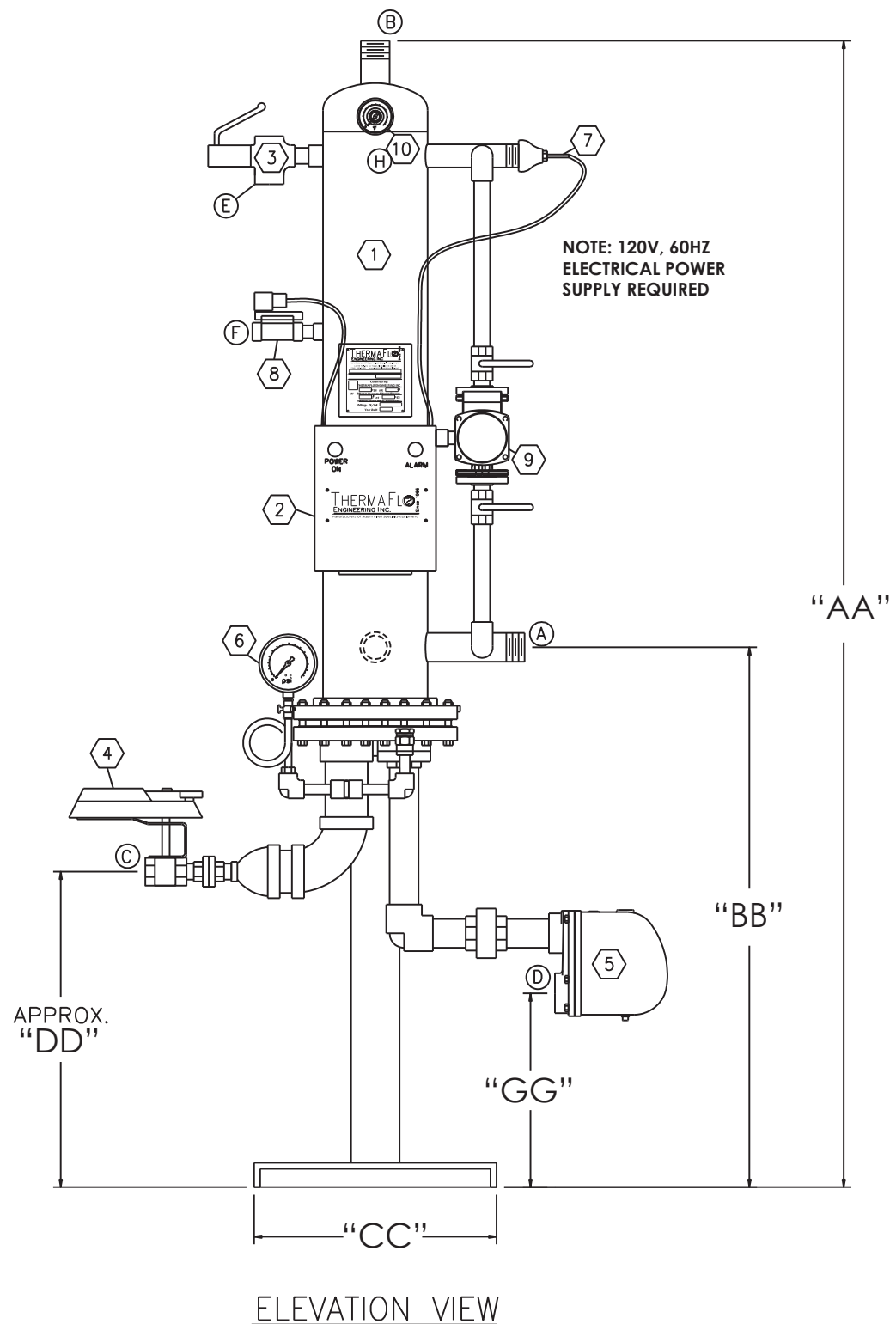
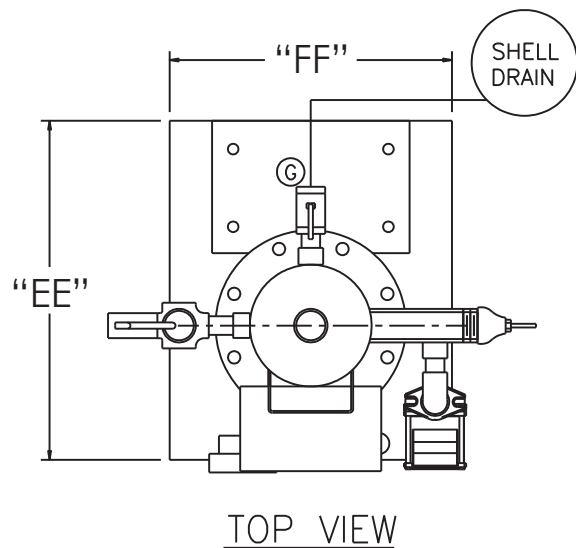


# MODEL TH750V- [REDACTED] -DWEN

NOZZLES & CONNECTIONS		
MODEL	624/636/648	
ITEM	SIZE, TYPE	SERVICE
A	2" NPT	COLD WATER INLET
B	2" NPT	HOT WATER INLET
C	SEE TH750-SIZING CHART	CONTROL VALVE INLET
D	1.5" NPT	CONDENSATE OUTLET
E	1" NPT	P & T RELIEF
F	.75 NPT	HIGH TEMP SOLENOID VLV.
G	1" NPT	DRAIN
H	.75 NPT	TEMPERATURE GAUGE



STANDARD DIMENSIONS STEAM / WATER									
MODEL #								WEIGHT (lbs)	
TH750V	"AA"	"BB"	"CC"	"DD"	"EE"	"FF"	"GG"	DRY	WET
624	95"	44"	20"	26"	24"	36"	16"	395	425
636	95"	44"	20"	26"	24"	36"	16"	415	455
648	107"	56"	20"	38"	24"	36"	28"	420	465

### CONDITIONS OF SERVICE:

DOMESTIC WATER FLOW: [REDACTED] GPM  
 INLET TEMP: [REDACTED] F°  
 OUTLET TEMP: [REDACTED] F°  
 INLET STEAM PRESSURE TO CONTROL VALVE [REDACTED] PSIG\*  
 STEAM CAPACITY REQUIRED: [REDACTED] LBS/HR

ITEM	CONNECTION	SIZE, TYPE, PN	SERVICE
3	E	[REDACTED]	P & T RELIEF
4	C	[REDACTED]	CONTROL VALVE INLET
5	D	[REDACTED]	CONDENSATE OUTLET
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

BILL OF MATERIAL	
ITEM	DESCRIPTION
1	Thermaflo 316L SS ASME CODE STAMPED SHELL, DOUBLE WALL, COPPER TUBE BUNDLE, CAST IRON 2-PASS STEAM HEAD
2	THERMAFLO ENGINEERING INC. EC-800-EN-PM3 ELECTRONIC CONTROL PANEL. UL LISTED, NEMA 4 ENCLOSURE, WITH PID ELECTRONIC TEMPERATURE CONTROLLER, SAFETY SHUTDOWN SYSTEM, WHITE POWER ON AND RED OVER TEMPERATURE LIGHTS.
3	CASH ACME PRESSURE AND TEMPERATURE RELIEF VALVE, SET @ 150 PSIG @ 210°F
4	TYPE BV SERIES ELECTRONIC SYSTEM CONTROL VALVE, BRONZE BODY AND STAINLESS STEEL TRIM, ELECTRONIC MODULATING ACTUATOR, FAIL CLOSED SPRING RETURN.
5	PENNANT PT-64 FLOAT AND THERMOSTATIC STEAM TRAP
6	4 1/2" DIAL SS COMPOUND PRESSURE GAUGE 30"-0-30 PSIG 1/4" LOWER MOUNT W/SYPHON, ISOLATION VALVE AND VACUUM BREAKER.
7	1/2" RTD WITH 4-20MA INPUT TO THE CONTROLLER
8	3/4" HIGH TEMP DUMP SOLENOID VALVE NORMALLY OPEN/FAIL OPEN
9	TACO 009-IFC BRONZE CIRCULATION PUMP
10	3" DIAL BIMETAL THERMOMETER 0-250°F RANGE WITH STAINLESS STEEL WELL

DESIGN DATA	
ASME CODE SECTION VIII, DIV 1 STAMP UM	
SHELL RATED AT 150 PSIG @ 375°F TUBES RATED AT 125 PSIG @ 300°F	
MATERIALS OF CONSTRUCTION	
SHELL	316L STAINLESS STEEL
TUBESHEET	304 SS INNER, STEEL OUTER
TUBES	DW COPPER .049 WALL
STEAM HEAD	CLOSE GRAIN CAST IRON

- TAG:** [REDACTED]
- ASME CODE SECTION VIII DIV.1 UM STAMP CONSTRUCTION
  - 100% FACTORY STEAM TESTED BEFORE SHIPMENT
  - SINGLE SEATED CONTROL VALVE FOR DEAD TIGHT SHUT OFF ON NO LOAD CONDITIONS
  - VERTICAL CROSS FLOW SELF CLEANING TUBE DESIGN
  - 316L STAINLESS STEEL SHELL CONSTRUCTION
  - FULL SELF TUNING PID DIGITAL CONTROLS
  - DOUBLE SAFETY SOLENOID SAFETY HIGH LIMIT SYSTEM FAIL SAFE TEMPERATURE CONTROLLER AND CONTROL VALVE
  - SHELL BLOWDOWN VALVE AND EXPANDABLE TUBE DESIGN TO REMOVE INTERNAL SCALE BUILDUP
  - 1.5" THICK INSULATION WITH HEAVY METAL JACKET
  - ALL DIMENSIONS TO HAVE ±1/2" TOLERANCE
  - MOUNTING FRAME HAMMERTONE POWDER COATED

- NOTE:**
1. MASTER BLEND VALVES SHOULD ALWAYS BE USED ON DOMESTIC WATER SYSTEMS TO PREVENT ANY CHANCE OF SCALDING.
  2. PIPE ITEMS 3,8 AND SHELL DRAIN "G" TO SUITABLE FLOOR DRAIN.
  3. NOZZLES WILL NOT SUPPORT EXTERNAL LOADINGS.
  4. TANK & PIPING TO BE FULLY SUPPORTED IN FIELD.

Manufacturers Of Steam Fired Specialty Equipment  
 12249 Nations Ford Road, Pineville NC 28134  
 (704) 940-1228 www.thermafloengineering.com

**DESCRIPTION:**  
**TH750V- [REDACTED] -DWEN STEAM FIRED WATER HEATER**

**CUSTOMER:**  
 [REDACTED]

**J.O. #** [REDACTED] **QTY.** [REDACTED] **DATE:** [REDACTED]

**SCALE:** 1=1 **DR.** NAL **P.O. #** [REDACTED]

**SALES:** [REDACTED] **DRAWING #** TH750V- [REDACTED] -DWEN **REV.** [REDACTED]

\* NOTE: INLET PSIG OVER 50# REQUIRES H.P. OPTION