DRAWING / PROJECT APPROVAL REVISE AS NOTED AND RETURN FOR APPROVA APPROVED FOR CONSTRUCTION AS DRAWN PLEASE INDICATE ABOVE SIGN AND RETURN RETURNED BY:\_\_\_

compiles with any / all specifications and conditions of service when approving for construction. Approval for construction is an agreement that this system, as presented in this drawing fully compiles.

Material procurement and construction will NOT begin until we receive your drawing approved for construction will NOT begin until we receive your lead diness are based from the end of the drawing approval process. If you require procurement to begin prior to drawing approval, make commitments and arrangements with your sales person.

ERAL NOTES:

100% FACTORY TESTED BEFORE SHIPMENT
SINGLE SEATED SEGMENTED V CONTROL VALVE FOR DEAD
TIGHT SHUTDFF ON NO LOAD CONDITIONS, 300: 1 TURNDOWN
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
MOUNTING FRAME INCLUDED

INSTALLATION NOTES: 1. BLEND VALVE RECOMMENDED WITH 140F OR HIGHER SET POINT.

BLEND VALVE RECOMMENDED WITH 140F OF HIGHER SET POINT.
 ALL DIMENSIONS TO HAVE ±½" TOLERANCE
 WHEN USING A FLOAT & THERMOSTATIC STEAM TRAP, THE CONDENSATE MUST DRAIN BY GRAVITY TO A VENTED RECEIVER, NO CONDENSATE LIFT OR BACK PRESSURE ALLOWED FROM TRAP

NO CONDENSATE LIFT OR BACK PRESSURE ALLOWED FROM TRAP OUTLET.

4. PROPERLY SIZED STRAINER WITH 100 MESH SCREEN MUST BE INSTALLED WITHIN 3FT OF THE CONTROL VALVE.

5. PIPE NOZZLES 'G', 'H', 'AND 'K' TO A SUITABLE DRAIN BY OTHERS.

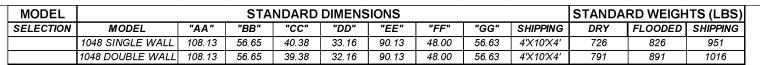
6. NOZZLES WILL NOT SUPPORT EXTERNAL LOADINGS. FIELD SUPPORT BY OTHERS.

7. CONTROL VALVE, STEAM TRAP AND GAUGES, SHIPPED LOOSE FIELD INSTALLED BY OTHERS.

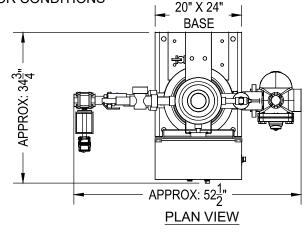
8. STEAM SUPPLY TO THE CONTROL VALVE SHOULD BE SIZED FOR NO MORE THAN 10,000 FPM TO AVOID HIGH PRESSURE DROPS.

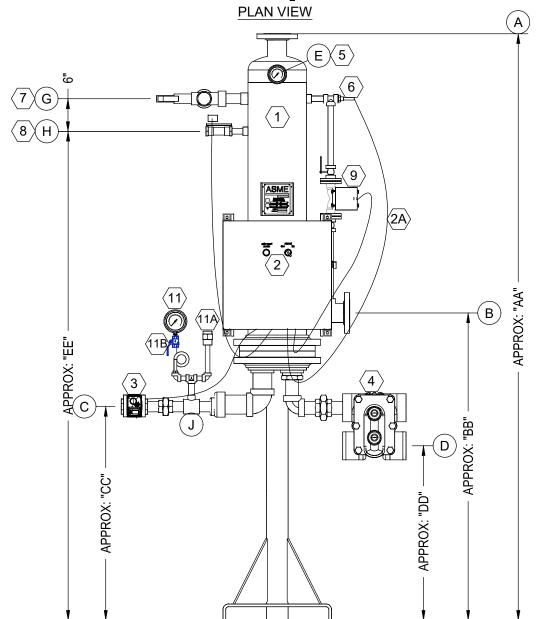
9. MAIN DRIP STEAM TRAP MUST BE LOCATED DIRECTLY AT THE CONTROL VALVE MUST BE LOCATED DIRECTLY AT THE CONTROL VALVE MUST BE INSTALLED, AS SHOWN, ON IT'S SIDE. VALVE CONTROL LECTRONICS ARE NOT INSULATED. ÖД

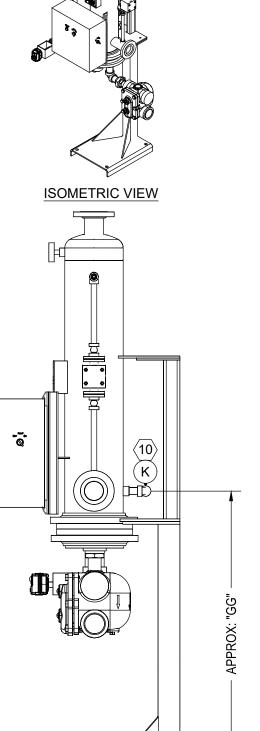
LEFT SIDE VIEW



DO NOT SUBJECT EQUIPMENT TO FREEZING TEMPERATURES OR OUTDOOR CONDITIONS







 $\langle$ 12angle

DIM TOL= +/- 1/2"

RIGHT SIDE VIEW

**DESIGN DATA** ASME CODE SECTION VIII, DIV. 1 STAMP UM SHELL RATED 150 PSI @ 375F TUBE RATED 150 PSI @ 375F CONDITION OF SERVICE AND PERFORMANCE DATA FLOW RATE (gpm) INLET TEMPERATURE (Deg. F) OUTLET TEMPERATURE (Deg. F) INLET STEAM PRESSURE (PSI) PSIG STEAM CAPACITY REQ. (LBS/HR) LBS/HR

## SEE QUOTE

	022 0001		
	MATERIALS of CONSTRUCTION		
SHELL TUBES		316L STAINLESS STEEL	
	TUBESHEET (OUTER)(DOUBLE WALL ONLY)		
TUBESHEET (INNER)			
	STEAM HEAD	CAST IRON	

TOBESHEET (HVIVER)		(IIVIVEIN)			
STEAM HEAD			CAST IRON		
BILL of MATERIALS					
ЕМ	SIZE SELECTION	DESCRIPTION			
1	BUNDLE	10"ØX 48" SHELL (ASME CODE STAMPED), 1 1/2" OF GLASS INSULATION & VINYL JACKET			
2			RONIC CONTROLLER, UL LISTED, PID OL, W/ SAFETY SHUTDOWN AND FOR LIGHTS		
2 <i>A</i>	STANDARD	1/2" UL LIQUIDTIGHT FLEXIBLE STEEL CONDUIT, TYPE LFMC			
3		THERMAFLO JVV-VB STAINLESS, W/FAIL	ALL STEAM CONTROL VALVE, SAFE ACTUATOR		
4		THERMAFLO FLOAT	AND THERMOSTATIC STEAM TRAP		
5	STANDARD	TEMPERATURE GAU	GE, 0-250F, SS WELL.		
6	STANDARD	1/2" RTD, 4-20ma OUTPUT FROM CONTROLLER			
7	STANDARD	1-1/2" 18C5424150 PR	ESSURE & TEMP. RELIEF VALVE,		

SAT @ 150 PSI @ 210F, RATED @ 6,050,000 BTU.

THERMAFLO 3700 BALL VALVE, FULL PORT,

1/4" THERMAFLO 3700 BALL VALVE, FULL PORT,

DRAIN

12	STANDAR	RD THERMAFL	O CARBON STEEL STAND		
NOZZLES & CONNECTIONS					
ITEM	SIZE (IN)	TYPE	SERVICE		
Α	3	150# FLG	HOT WATER OUTLET		
В	3	150# FLG	COLD WATER INLET		
С		NPT	STEAM INLET		
D		NPT	CONDENSATE OUTLET		
Ε	3/4	NPT	GAUGE		
G	1 1/2	NPT	RELIEF VALVE		
Н	3/4	NPT	DUMP SOLENOID		
J	3/4	NPT	GAUGE		

STANDARD 3/4" HIGH-TEMP. DUMP SOLENOID

STANDARD 3/4" SHELL RE-CIRCULATION PUMP

STAINLESS STEEL 11 STANDARD 4.5" DIAL PRESSURE GAUGE 0-30 PSIG W/ SYPHON

11A STANDARD 3/4" THERMAFLO VACUUM BREAKER

NPT

## TAG:

STANDARD

STANDARD

8

9

11B

BY DATE REVISION

## Since 1986

Manufacturers Of Steam Fired Specialty Equipment 2880 Fair Avenue, Newberry, SC 29108 (704) 940-1228 www.thermafloengineering.com

DESCRIPTI	ION:						
TH750V-10"-EC800-2 STEAM FIRED WATER HEATER							
CUSTOMER:			JOB#		QTY.	DATE:	
SCALE:	DRAWN:	PO#	PLAN#	FILE:	SAME	REV.#	PAGE: 1 OF 1

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FRONT VIEW