



ECONOMIZER



- all economizers are stamped to ASME Code, Section I, typical MAWP is 490 psig at 700 °F
- Economizers can be designed for parallel / counter water side flow with following gas flow arrangement;
- Vertical
- Horizontal
- Special designs.
- Units are constructed of carbon steel plate, gas tight, and include removable insulated access panels for tube cleaning and tube replacement.

Economizer

The economizer shall be of a rectangular configuration, finned tubes, up flow of gases, and down flow of water. The inlet transition, expansion joint, and the economizer support steel are provided as an integral part of the system.

The inner casing shall be a 10 gauge carbon steel plate. The enclosure shall be insulated with 2" thick 1,200 deg F mineral wool insulation and covered with 0.020" thick corrugated galvanized carbon steel jacket.

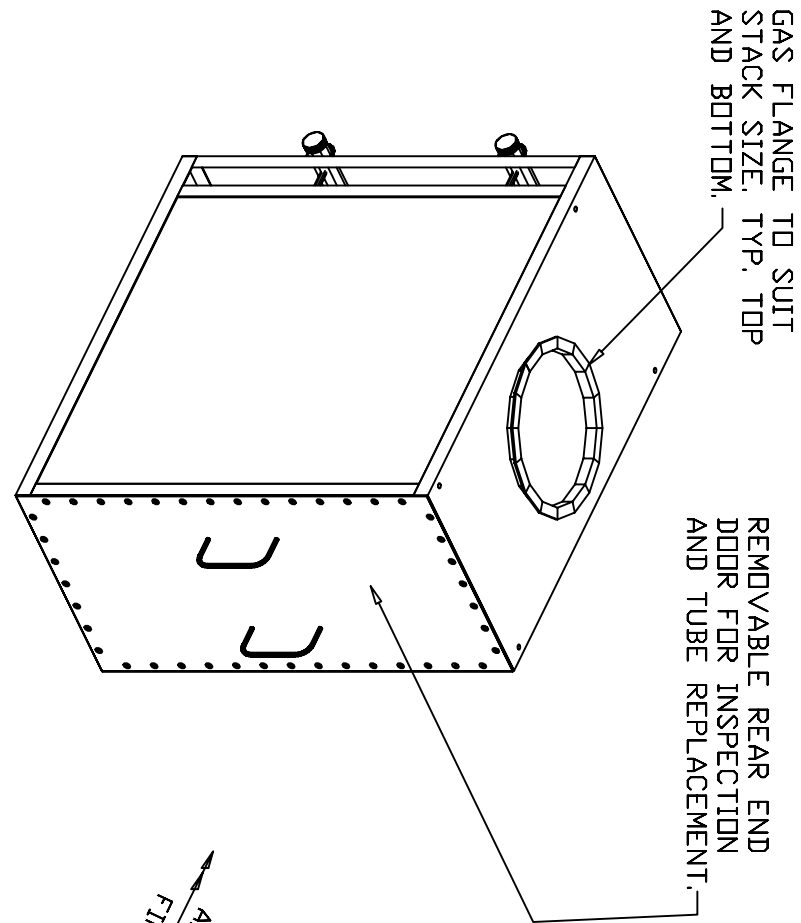
The economizer will comply with Section I of the ASME Code. All tubing shall be carbon steel shall be SA-178 Gr. A. The fins shall be carbon steel, 0.75" / 0.5" height, 0.050 " thick and will be a helical wound type with a fins suitable for use on a natural gas/ No. 2 fuel oil fuels for the boiler.

The boiler outlet duct shall be fabricated of 10-gage, carbon steel plates, SA-36. All required couplings and nozzles shall be provided in accordance with the contract specifications.

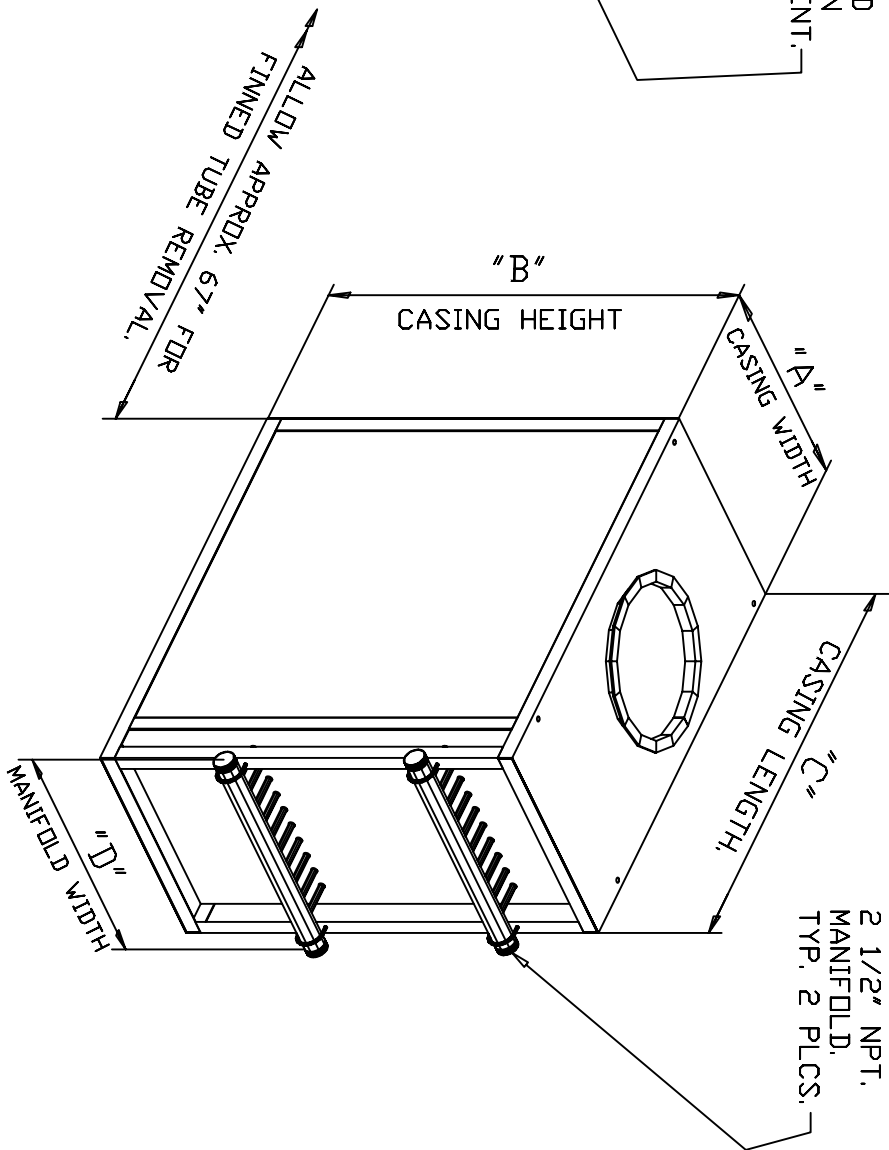
The boiler is designed for a top gas outlet.



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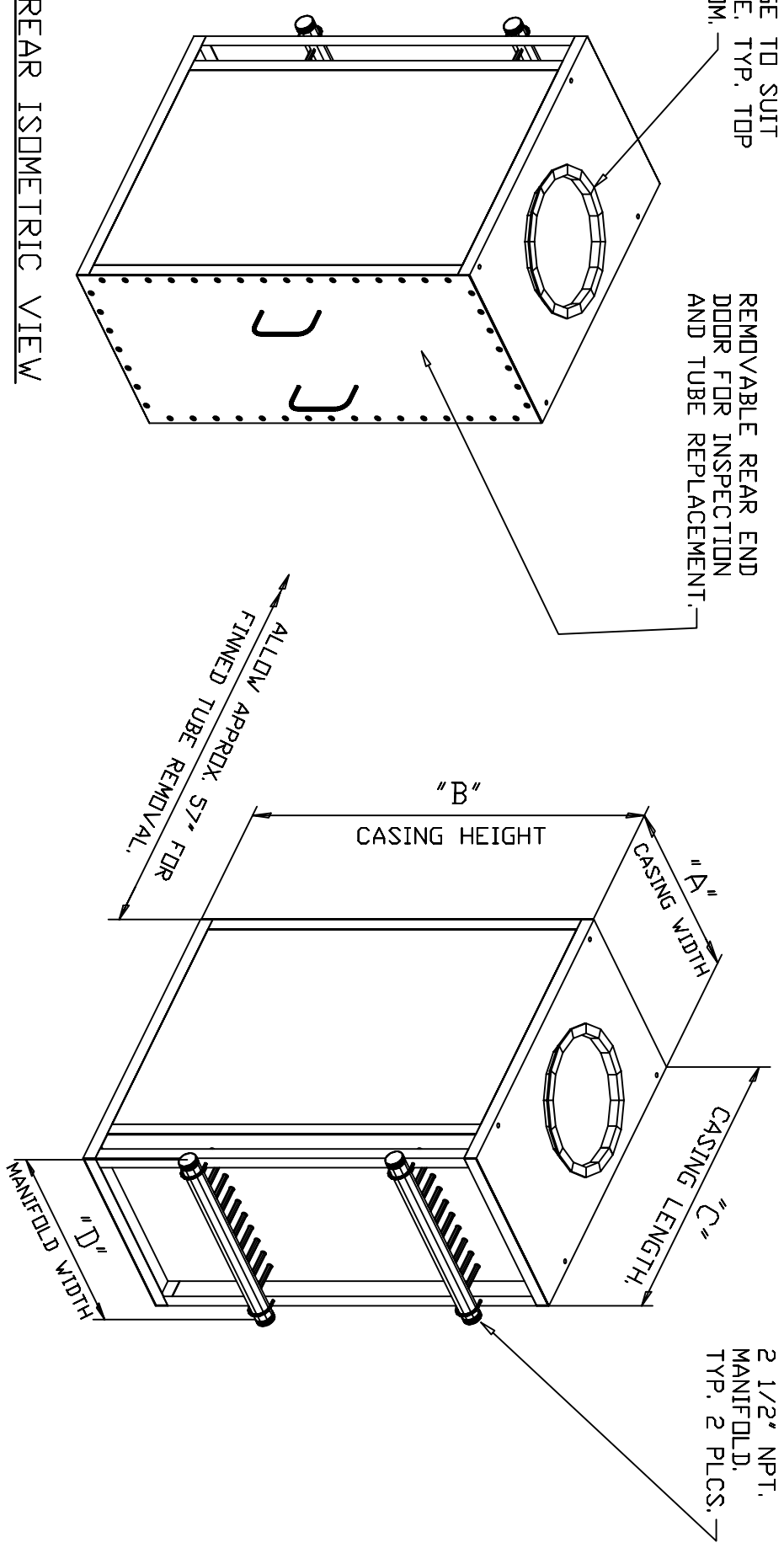
REAR ISOMETRIC VIEW



FRONT ISOMETRIC VIEW

DIMENSION TABLE					DIMENSION TABLE						
MODEL	"A"	"B"	"C"	"D"	WEIGHT	MODEL	"A"	"B"	"C"	"D"	WEIGHT
HSB-5	18"	60 1/4"	61"	27"	1,250#	HSB-18	53 3/4"	60 1/4"	61"	62 3/4"	4,500#
HSB-6	20 3/4"	60 1/4"	61"	29 3/4"	1,500#	HSB-19	56 1/2"	60 1/4"	61"	65 1/2"	4,750#
HSB-7	23 1/2"	60 1/4"	61"	32 1/2"	1,750#	HSB-20	59 1/4"	60 1/4"	61"	68 1/4"	5,000#
HSB-8	26 1/4"	60 1/4"	61"	35 1/4"	2,000#	HSB-21	62"	60 1/4"	61"	71"	5,250#
HSB-9	29"	60 1/4"	61"	38"	2,250#	HSB-22	64 3/4"	60 1/4"	61"	73 3/4"	5,500#
HSB-10	31 3/4"	60 1/4"	61"	40 3/4"	2,500#	HSB-23	67 1/2"	60 1/4"	61"	76 1/2"	5,750#
HSB-11	34 1/2"	60 1/4"	61"	43 1/2"	2,750#	HSB-24	70 1/4"	60 1/4"	61"	79 1/4"	6,000#
HSB-12	37 1/4"	60 1/4"	61"	46 1/4"	3,000#						
HSB-13	40"	60 1/4"	61"	49"	3,250#						
HSB-14	42 3/4"	60 1/4"	61"	51 3/4"	3,500#						
HSB-15	45 1/2"	60 1/4"	61"	54 1/2"	3,750#						
HSB-16	48 1/4"	60 1/4"	61"	57 1/4"	4,000#						
HSB-17	51"	60 1/4"	61"	60"	4,250#						

 BOILERROOM EQUIPMENT, INC.			
BOSS HEATSPONGE			
GENERAL ARRANGEMENT			
(STANDARD MODELS)			
DRAWN BY:		DATE COMPLETE:	
AJH		12/26/06	
SCALE	JOB NUMBER	DRAWING NUMBER	REV
NTS	STD	D-HSB-BOSS-GA	0



REAR ISOMETRIC VIEW

FRONT ISOMETRIC VIEW

DIMENSION TABLE						DIMENSION TABLE					
MODEL	"A"	"B"	"C"	"D"	WEIGHT	MODEL	"A"	"B"	"C"	"D"	WEIGHT
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HSC-6	20 3/4'	68 1/4'	51'	29 3/4'	1,500#	HSC-19	56 1/2'	68 1/4'	51'	65 1/2'	4,750#
HSC-7	23 1/2'	68 1/4'	51'	32 1/2'	1,750#	HSC-20	59 1/4'	68 1/4'	51'	68 1/4'	5,000#
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**BOILERROOM EQUIPMENT, INC.**

CHIEF HEATSPONGE

GENERAL ARRANGEMENT

(STANDARD MODELS)

DRAWN BY:	DATE COMPLETE:	
AJH	1/1/08	
SCALE	JOB NUMBER	DRAWING NUMBER
NTS	STD	D-HSC-CHIEF-GA
		0