SATURATOR

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Service: Cool filtered Baghouse gases to brine saturation temperature (approx. 175 °F)

Size: Overall Vessel Height: 15' 3" high

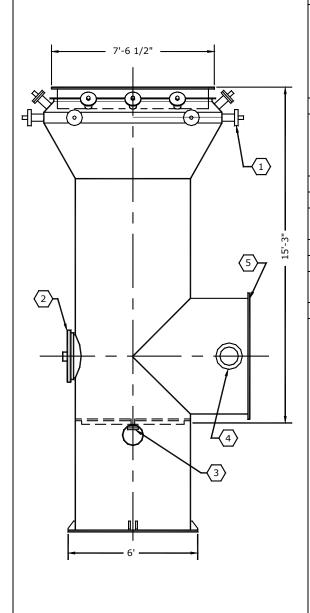
Top Inverted Conical Section: 6" long x 84" I.D. x 105" I.D.

Cylindrical Section: 6" long x 105" I.D.

Second Conical Section: 31" long x 105" I.D. x 64" I.D.

Cylindrical Section: 64" I.D. x 11' 2" long

Contacting Device: Sprays located near top. Axial: 12; 4 normally used



Vessel – Operating and Mechanical Conditions

Design Pressure: -30 to +12" W.C.

Design Gas Inlet temp: min 350 °F; max 600 °F

Material: mild steel

Lining: High Temperature Fiberglass Liquid Supply: design 300 GPM

Hastelloy splash shield in vessel above top sprays

Spray Nozzles

Top Row:

1 ½" Cone Spray Alloy 20 or equal

Bottom Row:

1 ½" Flat Spray Alloy 20 or equal

Nozzles			
Service	Number	Description	Mark
Spray	12	3"	1
Nozzles			
Mandoor	1	24"	2
Drain	1	2"	3
Fire	1	10"	4
Prevention			
Outlet	1	64"	5