

THERMAX ATMOSPHERIC DE-AERATOR with IMMERSION TUBE

- Facilitates mixing of condensate, flash steam and cold make-up water
- Liberates dissolved gases and oxygen
- SS De-aerator head with SS immersion tube

Atmospheric De-aerator Head is designed to remove dissolved gases and oxygen from the feed water by proper mixing of condensate, flash steam and cold make up. Solubility of oxygen and other dissolved gases decreases with rise in temperature and they are released from solution. These gases are then released through the air vent fitted on the de aerator head.

The mixing action takes place by suitably locating the nozzles and providing spray screens and baffles. A Thermax flash condensing de-aerator head consists of three parts

- Atmospheric De-aerator Head, which is bolted to the top of the tank and is supplied with connections for cold make up, condensate return, flash steam and recirculation.
- An immersion tube which distributes the mixed fluids into the tank
- A guide nozzle for mounting the immersion tube.
- Recirculation system (optional)



TADIT

MATERIAL OF CONSTRUCTION

Atmospheric De-aerator Head	SS 304
Immersion Tube	SS 304

DESIGN SPECIFICATIONS

Design Pressure	5 kg/cm ² (g)
Design Temperature	158° C

INSTALLATION

The de-aerator head is mounted on the feed water tank on a flanged nozzle. Sealing gaskets are used above and below the immersion tube flange.

Pipe work should be preferably of the same size as that of nozzles.

The flanged nozzle supplied lose to be welded on the top of the FW Tank at a suitable location(reffer GA drawing).

RECOMMENDATIONS

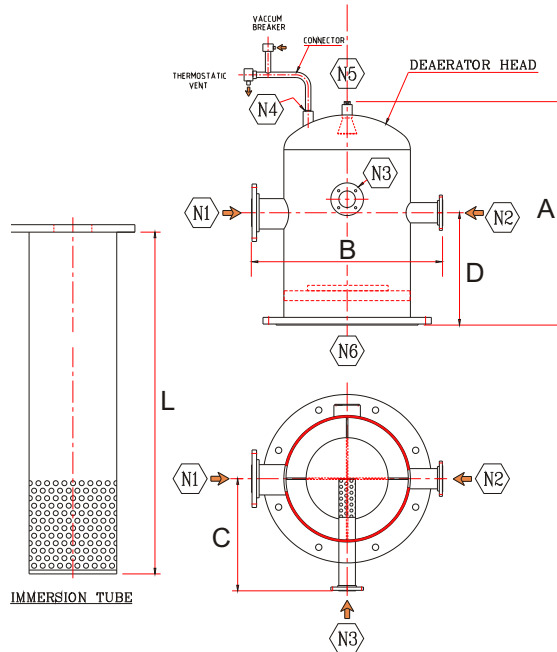
Cold makeup line	- Fit a DCV before connecting to TADIT.
Condensate Return line	- Fit a DCV before connecting to TADIT.
Vacuum Breaker	- Install in vertical position.
Air Vent	- Install in vertical position.

SELECTION TABLE

Condensate w/o Flash Steam Kg/hr	Condensate with flash Steam Kg/hr	TADIT Model
5000	Refer Thermax for Details	150
10000		200
20000		250
30000		300

END CONNECTIONS

TADIT & nozzles N1, N2, N3 are provided with flanged end connections conforming to ANSI-B16.5 Class # 150, N4, N5 screwed BSP for air vent and recirculation.



SELECTION

IMMERSION TUBE LENGTH

Immersion tube length is selected based on feed water tank depth. Consideration should be given to the nozzle height on which TADIT is to be fitted.

Use the following criteria for selecting immersion tube length.

$$L = D + H - 300 \text{ mm (for tank depth} > 1000 \text{ mm)}$$

*Contact HO for tank depths < 1000mm

Where L = Immersion tube length, in mm

D = Tank depth, in mm

H = Nozzle height, in mm (standard available 150 mm)

Immersion Tube Length (L) have been standardized as 900, 1050, 1200, 1350, 1500, 1650, 1800, 1950, 2100, 2250, 2400 mm

MODELS & DIMENSIONS

	TADIT 150	TADIT 200	TADIT 250	TADIT 300
A	440	490	500	500
B	370	420	475	525
C	185	210	235	265
D	175	200	210	225
N1	65	100	150	150
N2	50	80	80	100
N3	25	40	50	65
N4	15	15	15	15
N5	15	25	25	25
N6	150	200	250	300

Special inspection and certification available on request

In view of our constant endeavor to improve the quality of our products, we reserve the right to alter or change specifications without prior notice.



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