

Purna S. S. K. Ltd., Basmathnagar

Date:- 03/03/2021

I) Design, Manufacture, supply & erection of Robert type Evaporator body of following specifications.

- 1 Quantity : 01 No.
- 2 Heating Surface : 800 m²
- 3 Type : Robert type
- 4 Tube size : 45 mm outside dia & 1.2 mm thick
- 5 Tube plate Ligaments : 12 mm
- 6 Calendria & body shell thickness : 12 mm
- 7 Saucer thickness : 16 mm
- 8 Tube plate thickness : 25 mm
- 9 Down take : Central, Sealed
- 10 Vapour space : 2.5 times of the calendria height
- 11 Save All : The dome of the body of Robert type evaporator shall have efficient save all.
- 12 No. of Manholes : Total 3 Nos. 1 for body, 1 for bottom cone, 1 for top dome 450 mm dia alongwith covers, rubber chord & bolts.
- 13 Juice inlet : Juice distribution coil provided below the bottom tube plate.
- 14 Juice outlet : 150 NB
- 15 Calendria Vapour connection : 750 NB
- 16 Body Vapour outlet connection : 900 NB
- 17 Condensate outlet : Box type half round - 3 Nos - 100 NB provided with common coil - 150 NB with globe valve.
- 18 Water connection to calendria & body : 100 NB with CI globe valve with rubber seat.
- 19 Vent connection to the vapour space : 100 NB with on rubber seatted globe valve.
- 20 Vacuum Breaking connection : 100NB
- 21 Washout connection : 100NB
- 22 Noxious gas connection SS-304 material : Separately for light & heavy gasses.
- 23 Sight glass : Hard toughenned sight glass 200 NB x 15 mm think - 3 Nos. (The lowest sight glass shall not be higher than 1.5 mtr & 200 mm top tube plate.)
- 24 light glass : Hard toughenned light glass 200 NB x 15 mm think - 1 Nos.
- 25 Sockets for pressure, Temp. gauge : calendria.
- 26 Sockets for temp. vacuum gauge : Body.
- 27 Valve make : Kirloskar/Calson/Thorat.
- 28 This body is to be fitted on existing structure, Any modification if required shall be done by the supplier along with supply of necessary steel.
- 29 All drawing & design shall be got approved from our Chief Engineer, Chief Chemist before start fabrication


Chief Chemist


Chief Engineer


Managing Director

Purna S. S. K. Ltd., Basmathnagar

Date:- 03/03/2021

II) Design, Manufacture, supply & erection of vertical tubular juice heater of following specifications.

- 1 Quantity : 02 Nos
- 2 Heating Surface : 300 m²
- 3 Type : Vertical Tubular
- 4 Juice Velocity : 1.5 m/sec
- 5 Tube Size : 45 mm outside dia & 1.2 mm thick. .
- 6 Tube plate Ligament : 12 mm
- 7 Tube plate thickness : 32 mm
- 8 Partition plate thickness : 12 mm with suitable grooved arrangement to fit trapezoidal sealing cords.
- 9 Materials of construction : MS IS : 226-1975
- 10 Body shell thickness : 12 mm
- 11 Covers plate thickness : 40 mm (Stiffness of 200 mm x 22 mm thick of M.S.Plate to be provided to prevent deformation)
- 12 Bolts for covers tightening : Eye type hinged bolt 30 mm O.D x 150 mm long with BSP threading
- 13 Pitch tightening bolts : Not more than 120 mm.
- 14 Juice drain Cocks : 25 NB Ball valve one each compartment.
- 15 Air vents cocks : 25 NB Ball valve one each compartment.
- 16 Juice : Suitable box with partition for fitting two double beat valves of 200 mm
- 17 Water connection to calendria : 50 NB
- 18 Vapour entry : 400 NB
- 19 Condensate outlet : 100 NB x 2 half round or box type provided with one common globe valve
- 20 Noxious gas connection : Separately for light gasses & heavy gasses.
- 21 Valve make : Kirloskar/Calson/Thorat.
- 22 Heaters shall be provided with suitable heavy duty 25 mm thick lever arrangement for opening & closing of covers
- 23 Any equipments founds fouling the position of heater to be dismantted & re -erected by supplier at their cost only.
- 24 Required trapezoidal rubber chord to be supplied along with equipment.
- 25 The drawing of heater should be get approved by our chief engineer & chief chemist before start fabrication.


Chief Chemist


Chief Engineer


Managing Director