



**BATTERY OF CONDENSERS
MULTI JET FOR SUGAR PLANT 5000 TCD**



**BATTERY OF CONDENSERS
MULTI JET FOR SUGAR PLANT 1000 TCD**

**BATTERY OF CONDENSERS
MULTI JET FOR SUGAR PLANT 2500 TCD**

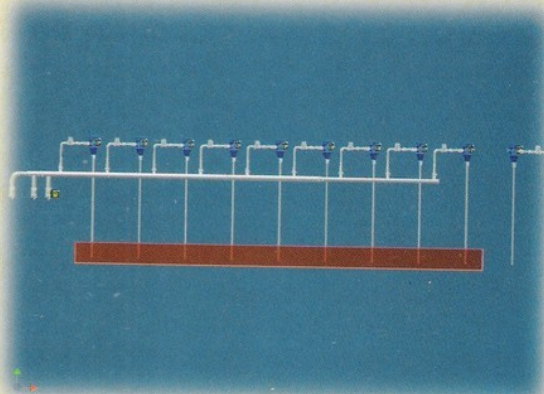


SINGLE WATER ENTRY MULTIJET SS MJ CONDENSER

INJECTION WATER HEADER DESIGN

Injection water header should be design to gift unidirectional flow of water to each and every condenser due to which higher vacuum will be created thereby increasing over all efficiency of the whole condenser as a unit. For having a unidirectional flow and transport of momentum throughout the header must be designed in such a way that it confirms with the fluid dynamics principles as per API code .More over ' Newtonian fluid must flow in one direction only.

The pump suction and delivery pipes must be designed with proper diameter to achieve desired velocity of suction and delivery so that wakes or eddies formation is avoided.





Shalini Impex

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ADVANTAGES OF SHALINI S.S. MULTIJET CONDENSER

1. Restoration of vacuum within a minute.
2. Improvement of vacuum of boiling house by 1-11/2"
3. Reduction in power and water requirement of condensation and ejection.
4. Increase in turn over of massecuite /24hr/Pan.
5. Increase in rate of evaporation of entire evaporator section due to steady vacuum in last effect.
6. Reduction in number of injection pumping set and thereby maintenance cost of pump is reduced .This also reduce the down time of the boiling house.
7. Maintenance cost is practically nil, as the condenser and tail pipes are made of stain less steel construction.
8. Improvement of quality of sugar and reduction in sugar loss in final molasses due to higher circulation and low temperature boiling.

ONE EXAMPLE

TOTAL HP CONSUMPTION BEFORE REPLACING CONDENSERS & MODIFICATION OF HEADER =760HP

**AFTER REPLACEMENT WITH SHALINI S.S.CONDENSER
& HEADER DESIGN REQUIRED HP = 300HP**

NET SAVING	= 460HP
	= 340KW(45%)