



An ISO 9001 : 2008



[A Company of Khodiyar Group]

Superior Technology &  
Best Quality at Cost Effective Price



**BITUMEN DRUM DECANTER**

## BITUMEN DECANTING PLANT

This type of plant, well designed developed by us. Plant made of good quality of Mild steel sheets of IS - 2062 Gr.A & fabricated with good quality welding. It's a rigid & robust.



With the help of this plant, one can take on line production, designed in such a way can load drums in 3 rows from front side with the help of hyd. device. Each row containing series of no. of drums in line. Empty drums exit from rear side of Plant.

### Reasons of using Bitumen Decanting Plant :

#### conventional Method

- (1) Operating Time is more & non uniform.
- (2) More men power required due to manual feeding.
- (3) Expensive method in terms of less output / more time.
- (4) Non uniform heating so, the costing of heating per/kg. of bitumen is more.
- (5) Polluted method create pollution in air.
- (6) Heat loss occurred during heating so costing is more.

#### Decanting Plant

- (1) Operating time is less & fix.
- (2) Less men power required due to hyd. mechanisam for loading of drums.
- (3) Economical method terms of more output / less time.
- (4) Uniform heating due to temp. control so costing of heating per/kg. of bitumen is less.
- (5) Enviornment friendly less pollution.
- (6) Indirect heating method so no heat loss occurred so costing is less.

### Introduction :

This types of plants are used for taking Asphalt out of drums and heating up asphalt. They make fully use of hot air in chamber generated by hot thermic oil circulating in seamless coil. Thermic oil heated by pipe thermic fluid heating device.

The method asphalt coming out of drum, which is collected of bottom side of chamber is called reserve tank.

The use of semless pipe coils for heat transfer oil to indirectly heat up asphalt, which can prevent asphlat from aging during heating. This type of equipment not only greatly save energy sources and manpower but also perfectly protect enviornment.

## Main Elements of Bitumen Decanting Unit

- (1) Main Chassis** : It is made from Quality Steel I-Beam of IS - 2062 Gr.A. It's very rigid & robust.
- (2) Main Body** : It is made from Quality Steel Plates of IS - 2062 Gr.A. Insulated by 75 mm of glasswool. It is divided into two portion. Lower half Portion is reserve tank for melted bitumen.  
Upper half portion is a heating chamber in which steel seamless pipe coil carrying hot thermic oil. In this chamber the bitumen drum loaded in 3 rows, each row having 10 to 11 drums in one line, with the help of hyd. loading device.
- (3) Seamless Pipe Coil** : It is made from good quality steel seamless pipe heaving diameter of 60.3 mm & 3 mm thick, which carrying thermic oil having plus 200°C of temp.
- (4) Drum loading Device** : It is a hyd. device, ensuring less men power & ease of operation. It is for lifting bitumen drum from ground level to inside the top portion of main body. It is operated by hyd. cylinder & power pack.
- (5) Insulation** : Glass Wool Lining of 75 mm at all sides of main body.
- (6) Optional thermic fluid heater** : It is optional and it depends on client requirement. type of heating device.  
(A) LDO Fired (B) FO Fired (C) Wood Fired



## Available Model :

- 5 TON / hour, 6 TON / hour, 8 TON / hour & more depending upon client need.
- Mobile & Stationery plant are available.



[A Company of Khodiyar Group]

We at KDI have designed & developed special equipment for bitumen Melting successfully by using state of art and technology.

We can say this equipment is used for melting drummed bitumen. It is called Bitumen Decanter.

We have produce and supplied so many nos. of equipment to various clients all over india. Design of this equipment is unique based on latest technology, to melt bitumen in drums using hot oil (200°C) temp. from thermic fluid heater.

Advantageous features of equipment.

- (1) It is not a batch type feeding of bitument drums into the machine. It is a process of contineous feeding of bitumen drums or can say on line production process. It means contineous feeding of bitument drums from front entry side and empty drums removal from rear exit side.
- (2) Equipment divides into two portion. Top portion is a heating chamber. Bottom portion is a Reservoir for melted bitumen in tank.
- (3) The Bitumen Drums loading in heating chamber by means of a mechanised system. It is very easy & robust operated by hydraulic system. It consisting hydraulic cylinders & power pack. The loading system designed in such a way so minimum efforts and men power is required.
- (4) Once the drum loaded in Heating Chamber, it is accommodated with series & no of seamless tubed heating coil, carrying 200°C+ temp. of thermic fuild. The drum passed through heating coil & wihtin a few minutes of time the melted bitumen from the drum drains into reservoir tank.
- (5) Melted Bitument in reservoir tank is also heated to desire temp. by a series of seamless tubed coil place into tank. The melted hot bitumen from the tank is pumped by means of a positive displacement type gear pump.
- (6) Heating chamber having 3 rows designed in such a way drums by pushing & slided on rail up to the end of the chamber, till bitumen melts completely from drum. Empty drums exhausted from rear doors side.

**Available models :** Stationery type of various capacity

**Available Capacity per/hr. :** 5 tons / 6 tons / 8 tons & more

**Machine Body Insulation :** GI / MS Option available

## **KHODIYAR DEVELOPERS & INFRASTRUCTURE PVT. LTD.**

Regd. off. & Factory : 110, G.I.D.C.-II, Dediyan, Mehsana, State-Gujarat, India.

Phone : +91-2762-224210, 224107, 098791 12730, Mob. : 098250 82182

E-mail : [marketing@bitumendecanter.com](mailto:marketing@bitumendecanter.com), [kditechnology@gmail.com](mailto:kditechnology@gmail.com)

**website : [www.bitumendecanter.com](http://www.bitumendecanter.com), [www.kditechnology.com](http://www.kditechnology.com)**