



PADDLE DRYER



BEYOND CONVENTIONAL

Transcend Cleantec Pvt. Ltd.

S No 37/2, Shed no 463/1, Near Joshi Transformer, Narhe, Taluka Haveli, Pune-411041

+91 - 7767050300 enquiry@transcendcleantec.com www.transcendcleantec.com



BEYOND CONVENTIONAL

Transcend Cleantec Pvt. Ltd.

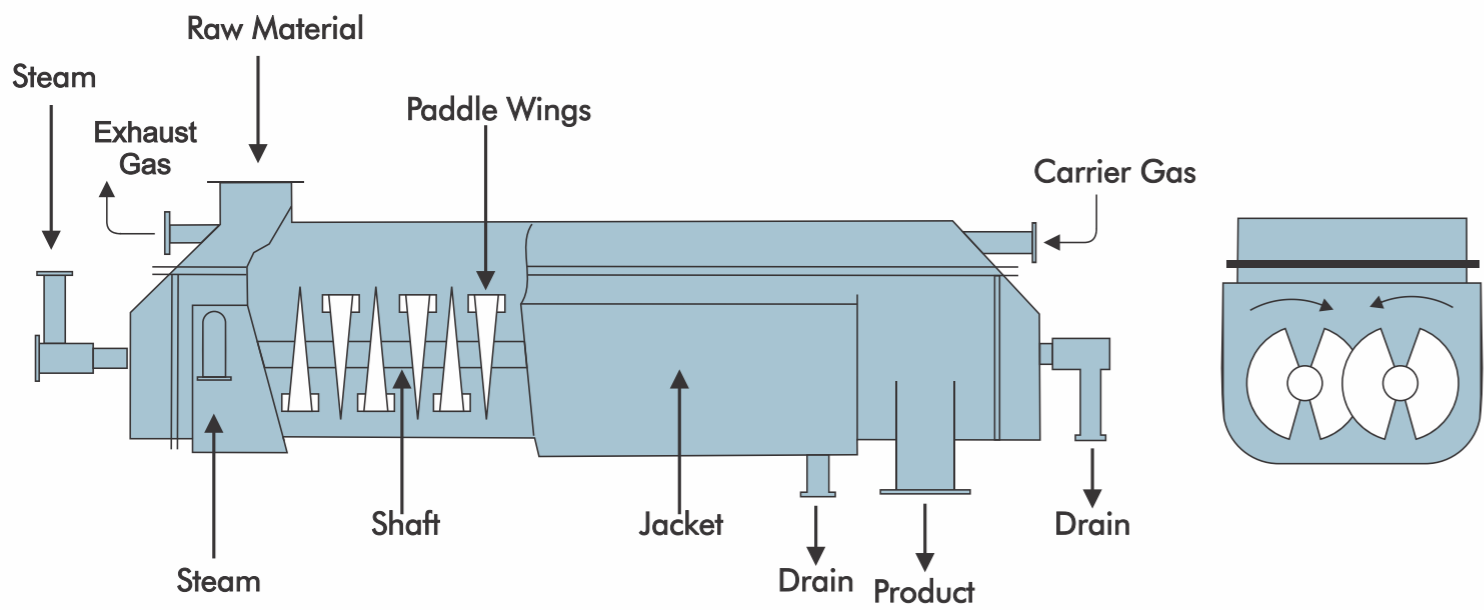
blmedia.com

WORKING OF PADDLE DRYERS

Paddle dryer is a machine which works by heat transmission from the revolving hollow paddles directly to the processing material (sludge) converting it into dry granular/powder form. Heat generated using steam/oil/gas as a heating medium is passed to the input sludge via the hollow shaft and paddles and also the conducting jacketed drum. Moisture evaporated from the sludge is taken out from the drum by using air as a carrier gas thus preventing its condensation.



Representative Graphics Of PADDLE DRYER



SPECIFICATION

Type	TPD 50	TPD 250	TPD 800	TPD 1350	TPD 1600	TPD 1950
Bulk Density feed (kg/hr)	50	250	800	1350	1600	1950
Feed Rate operation (kg/hr)	225	500	1700	2200	2750	3500
Heat Transfer Area (m ²)	2.5	8.5	12.7	17.8	28.7	40.9
Effective Volume (m ³)	0.065	0.348	0.64	1.1	1.89	2.9
Paddle Wing mm	160	300	400	500	600	700
Rotation Speed (min ⁻¹)	30	21	18	17	15	13
Power kW(HP)	2.2 (3.0)	3.7 (5.0)	5.5 (7.5)	7.5 (10.0)	15 (20.0)	18.5 (25.0)
Width of Vessel (mm)	306	584	762	940	1118	1296
Total Width (mm)	736	841	1066	1320	1474	1676
Length of Vessel (mm)	1956	2820	3048	3328	4114	4724
Total Length (mm)	2972	4872	5486	5918	6808	7570
Height of Center (mm)	380	380	534	610	762	915
Total Height (mm)	762	838	1092	1270	1524	1778
Steam Inlet (inch)	3/4	3/4	1	1	1	1
Water Outlet (inch)	3/4	3/4	1	1	1	1

FEATURES

- Conduction mode of heat transfer results in very high thermal efficiency
- Compact equipment – large heat transfer area packed in a small volume
- Low air requirement reduces loss of heat.
- Uniform and controlled drying
- Reduction in size and cost of downstream equipment like cyclones, bag filters, scrubbers, fans, heaters and ducts
- Suitable for all types of granules and free-flowing materials
- Can also handle sticky materials.
- Low product attrition
- Suitable for steam, water or oil as heating medium
- Integral dryer-cum-cooler combination
- Reduced civil and erection expenses
- High thermal efficiency
- Self-cleaning Paddles
- Minimal Dusting
- Rugged Construction
- Low-speed operation
- Heavy duty bearings
- Minimal maintenance & Easy accessibility