

**Okada** Sludge Dryer  
岡田工業沈積物ドライヤー

## INTRODUCTION of **Okada** Sludge Dryer

Function as the second tier dryer after mechanical dewatering, the **Okada** Sludge dryer serves to further reduce the moisture content of the filter cake in an intrinsically safe and cheap solution. The unit is designed to lower the disposal cost by significantly reduce the weight and produce an extremely dry and easy disposed material (filter cake).



Model T250



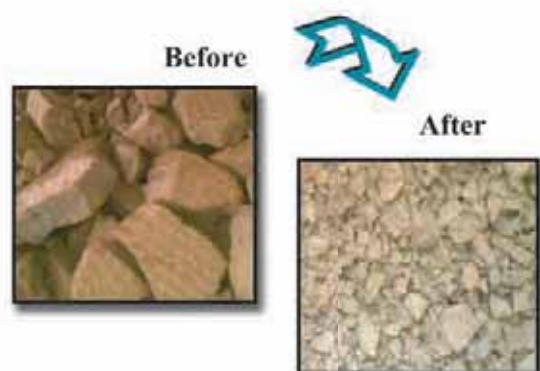
Model T1500



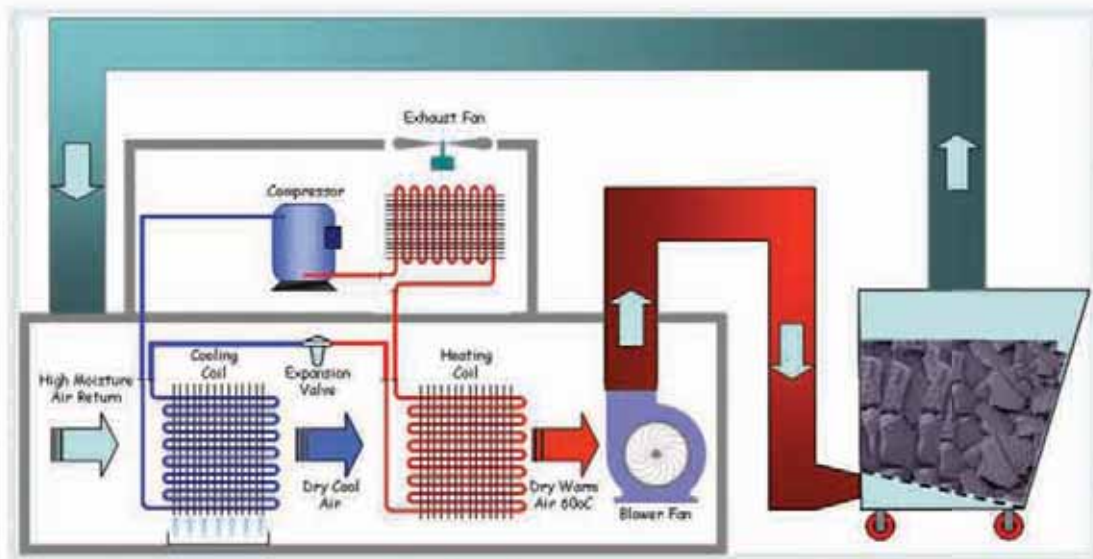
Model T500

## **Okada** Sludge Dryer

*“Seeing is Believing”*



## Operating Schematics



The **Okada** Sludge dryer operates by the dehydration principle of circulating dry and warm air through a designated volume of filter cake. Moisture extracted from the now-dewatered filter cake will then be channeled to the dehumidifying unit and condensed via a heat exchanger. Following up, another heat exchanger will reheat the dry air and this provides the air with enormous water absorbing capacity. This enhanced dry air will then reintroduced to the cake and circulated through the entire system again. The refrigeration cycle of both the heat exchangers in the continuous close loop give an advantage of energy equilibrium because surplus heat arising from the first exchanger is transferred to the second unit for reheat purpose.

## Cost SAVING Calculation

	Disposal Cost	Electricity Cost	Total Cost
 45 tonnes per month of sludge @ 70% - 80% moisture content	<b>Direct Disposal</b> RM 700 x 45 tonnes = RM31,500	RM 0	<b>RM31,500</b>
 <b>Okada</b> Sludge Dryer Sludge weight reduces 50% to about 22 tonnes @10% - 20% moisture content	RM 700 x 22 tonnes = RM15,400	RM 57 x 30 day = RM 1,710	<b>RM17,110</b>
<b>TOTAL SAVING PER MONTH</b>			<b>RM14,390</b>

## How does it Works?



### Okada Sludge Dryer

The sludge from the filter press still have 65% - 85% of the moisture content. By using **Okada** sludge dryer we are able to assist our customer to further reduce 4 bags of filter cake to 2 bags (weight and volume reduction of approximately 2:1). Customer can easily save 50% of their current disposal cost.



Close Loop System

Scrubber System NOT required



No dust / smell generated

Low Energy Consumption

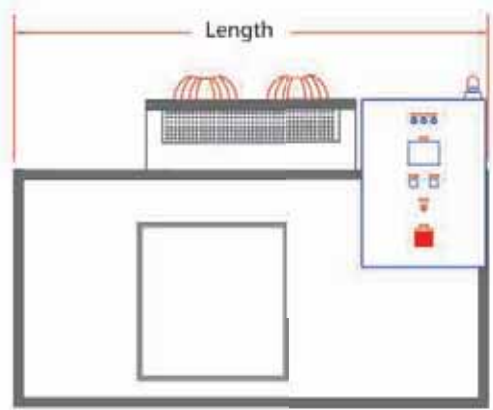
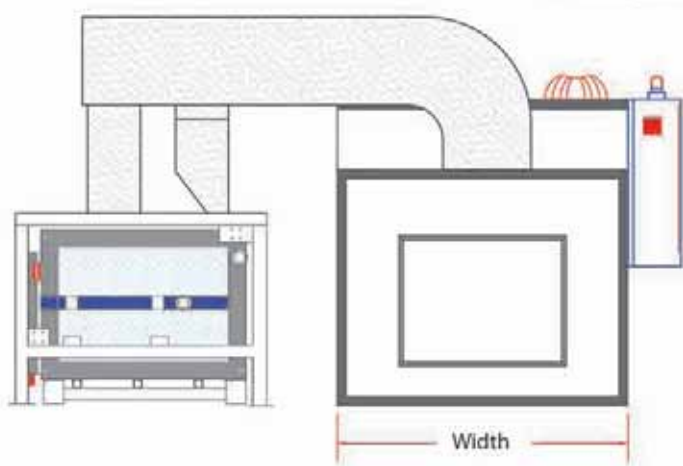


#### Key Advantages of OKADA dryer :-

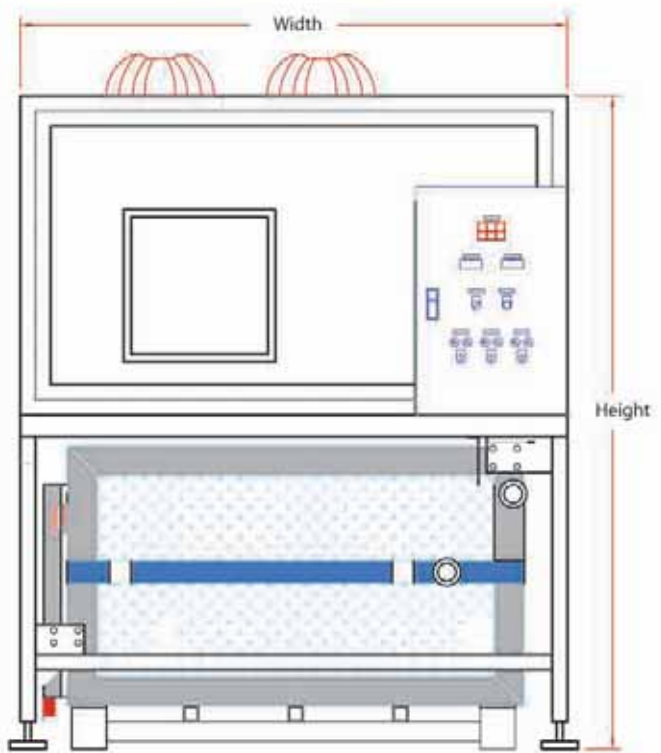
- The dryer operates in a close loop system with no air emission, hence does not required any legal application.
- Conserving low energy requirement.
- Minimal maintenance.
- Environmental benign – no utilization of CFC.
- Simple and automated operation with timer and humidity control.
- Low labour requirement.
- Modular unit for future expansion.
- Alternative to conventional drying method, with no dust residue.
- Quite operation.
- Space saving.

Model Dryer Specifications	T250	T500	T1000	T1500	T2000	T3000
Capacity (kg/day)	250	500	1000	1500	2000	3000
Power Consumption (kWh/day)	120	144	240	480	816	1008
Electric Cost (RM/day@RM0.19/kWh)	22.80	27.36	45.60	91.20	155.04	191.52
Dryer Dimensions - Height mm	2040	2090	2090	2000	2000	2000
Dryer Dimensions - Width mm	1080	1200	1800	1650	1650	1650
Dryer Dimensions - Length mm	1325	1470	1800	2700	2700	2700
Container Dimensions - Height mm	860	860	860	860	860	860
Container Dimensions - Width mm	680	800	1300	1034	1034	1034
Container Dimensions - Length mm	1220	1220	1500	1200	1200	1200
Quantity Sludge Bin	1	2 (1 in use & 1 stdby)	2 (1 in use & 1 stdby)	4 (2 in use & 2 stdby)	6 (3 in use & 3 stdby)	8 (4 in use & 4 stdby)

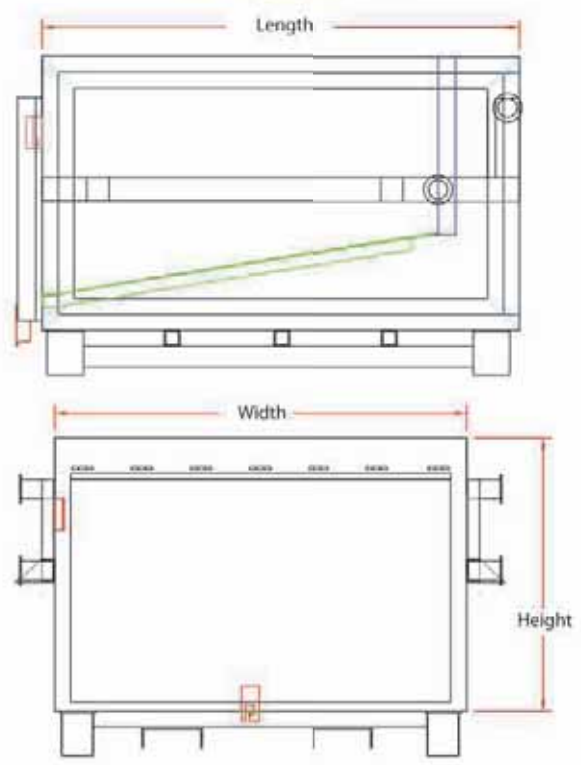
**Model  
T1500 - 2000 - 3000**



**Model  
T250 - 500 - 1000**



**Sludge Bin**



*For further information  
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