



Technical Bulletin: 03 Batch vs. TFD

Comparison data:

0.5 tonne (of oil) batch deodorizer vs. *Thin Film Deodoriser , Model TFD 500

The following table shows the approximate service requirements of a traditional batch deodorizer versus a Thin Film Deodorizer (TFD), each processing 0.5 tonnes of vegetable oil.

	Batch deodorizer	TFD 500 *
Operating vacuum	6 mm	2 mm
Sparging gas	133 Kg steam	5 Kg nitrogen
Cycle time	6-8 hrs	1-2 hrs
Operating temperature	185°C	150°C
Heating steam	100 Kg	90 Kg
Maintenance steam	133 Kg	-
Vacuum - steam	340 Kg	-
- water	4300 Kg	-
Vacuum pumps- electricity	-	18 kWh
TFD other - electricity	-	2 kWh
Cooling water for deodorized oil	3 M ³	2.4 M ³

* TFD 500 is a thin film deodorizer with a nominal capacity of 500 Kg/hr, designed by Hyam Myers Consulting Pty Ltd., Australia.
Note US Patent as noted below.

Important Notes:

1. The TFD 500 eliminates the effluent stream.
2. The TFD eliminates the electricity and chemical costs to process effluent from the batch deodoriser vacuum system.

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