

NISA ENERGY CONSERVATION COMMITTEE ROTARY DRYER SURVEY -- TABLE 3A

Averaged Characteristics for Selected Dryer Groups*

Dryer Group	BTU/TON	M.C. Infeed	Dia. Ft.	Length Ft.	Ton/Hour	Stack Temp °F (1)	Prod. Temp °F (2)	\,Para (3)	\,With Coolers
All Dryers	303.00	5.16	7.07	45.81	76	230	N/A	81	53
Most Efficient	234.36	4.86	6.96	40.11	95	211	157	67	78
Least Efficient	354.97	5.63	6.73	50.00	74	266	214	88	50

BTU's/Lb. H2O <u>Evaporated</u> 2975.2 2411.1 3152.5
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NISA ENERGY CONSERVATION COMMITTEE ROTARY DRYER SURVEY - TABLE 3B

Averaged Characteristics for Selected Dryer Groups*

Dryer Group	BTU/TON	M.C. Infeed	Dia. Ft.	Length Ft.	Ton/Hour	Stack Temp °F (1)	Prod. Temp °F (2)	\,Para (3)	\,With Coolers
With Coolers	270.57	4.85	7.02	45.24	89	210	170	88	N/A
Without Coolers	348.94	5.56	7.12	46.46	60	262	236	73	N/A

BTU's/Lb. H2O <u>Evaporated</u> 2789.38 3137.9

* Averages do not include responses with missing data.

- (1) Recorded at the stack -- not at the cooler.
- (2) Those dryers with coolers recorded the product temperature as the sand leaves the cooler.
- (3) "\, Para" is percentage of dryers that are parallel flow. The rest are counter flow.