

48⁺ Years
Of experience

TOWER DRYER



In Association with SVCH-Technologii, Moscow (Russia)
ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

ABOUT US

KERONE is now renowned for serving the specialized needs of customers with the best quality and economical process of application engineering solutions and industrial heating products manufactured in a high-quality environment by a trained and qualified workforce (special purpose machinery)



KERONE is a pioneer in application and implementation engineering with its vast experience and team of professionals.



KERONE is devoted to serve the industry to optimize its operations both economically and environmentally with its specialized process engineering solutions.



KERONE is having immense expertise in manufacturing and implementing various types of engineering solutions.



KERONE is possessing employee strength of more than 280+ experts continuously putting efforts for happy industrial engineering solutions



48+ Years Manufacturing Excellence



Great Sale Support



Highly Customized Product



Adherence to Standards



Sound Infrastructure



Team of experts Delivering Quality



Timely Delivery



Cost Effective Solutions

WHY CHOOSE US

"Choose Kerone for innovative solutions tailored to your unique product needs, ensuring efficiency, reliability, and unmatched quality."

With decades of expertise, cutting-edge technology, and a customer-centric approach, Kerone Engineering offers tailor-made Applications Engineering solutions that prioritize quality, flexibility, and cost-effectiveness. Benefit from our commitment to excellence, post-sales support, and innovative solutions for your unique Applications Engineering needs. Choose Kerone Engineering for reliability, performance, and unmatched value.

MISSION



To enhance the value of customer operation through our customer need centric engineering solution.



We are committed to providing our customers with unique and best-in-class products in the industrial thermal processing segments. Through strategic tie-ups for technical know-how with renowned leaders in industry-specific segments, we ensure that our offerings meet the highest standards of quality and innovation.

VISION



Turn into a world leader in providing specialized, top-notch quality and ecological industrial heating, cooling, and drying solutions across the globe.



To attain global recognition as the best of quality and environment-friendly engineering solution company.



Enhance the value of customer operation through our customer need centric engineering solution.



TRUSTED PARTNERS





Tower Dryer

Tower dryers are industrial machines designed for the efficient drying of various materials, such as grains, seeds, or other bulk solids. These machines play a crucial role in agricultural and industrial settings where the removal of moisture is essential for preserving the quality of the product.

The name “tower dryer ” is derived from the vertical configuration of the drying chamber, which allows for a more streamlined and space-efficient design. Typically, tower dryers utilize a counterflow drying process, where the material moves in the opposite direction to the heated air, maximizing the efficiency of moisture evaporation.

The drying chamber is equipped with a series of perforated trays or conveyors to facilitate the even distribution of heat and airflow. Modern tower dryers often incorporate advanced control systems to monitor and adjust factors such as temperature and airflow, ensuring optimal drying conditions. These machines contribute significantly to the post-harvest processing of agricultural products, enhancing storage stability and overall product quality

Features

- Ensures steady unloading and no plugging
- Dryer shutdown alerts
- View dryer performance charts
- Cost-Effective Installation
- Computerized controls with self-diagnostics
- Shut dryer off remotely
- Easy Start-up and operation
- Simple and reliable construction
- Stainless steel outer screens
- Easy cleaning without restricting airflow
- User-friendly menu-driven system
- Around-the clock monitoring
- Increase productivity and efficiency
- Positive Discharge System
- Maintain balanced heat/air distribution in the plenum
- Adjust moisture and/or temperature settings
- Ability to switch between manual and auto unload control

Application

- Seed Drying
- Oilseed Drying
- Malt Drying
- Pulse Crop Drying
- Grain Drying
- Forage Drying
- Rice Drying
- Cottonseed Drying

Advantages

- Efficient Drying Process
 - Reduced Drying Time
 - Preservation of Crop Quality
 - Versatility in Crop Types
 - Increased Storage Stability
- Increased Throughput
 - Enhanced Safety Features
 - Remote Monitoring and Control
 - Automation and Control Systems
 - Adaptability to Different Conditions

Technical Specification

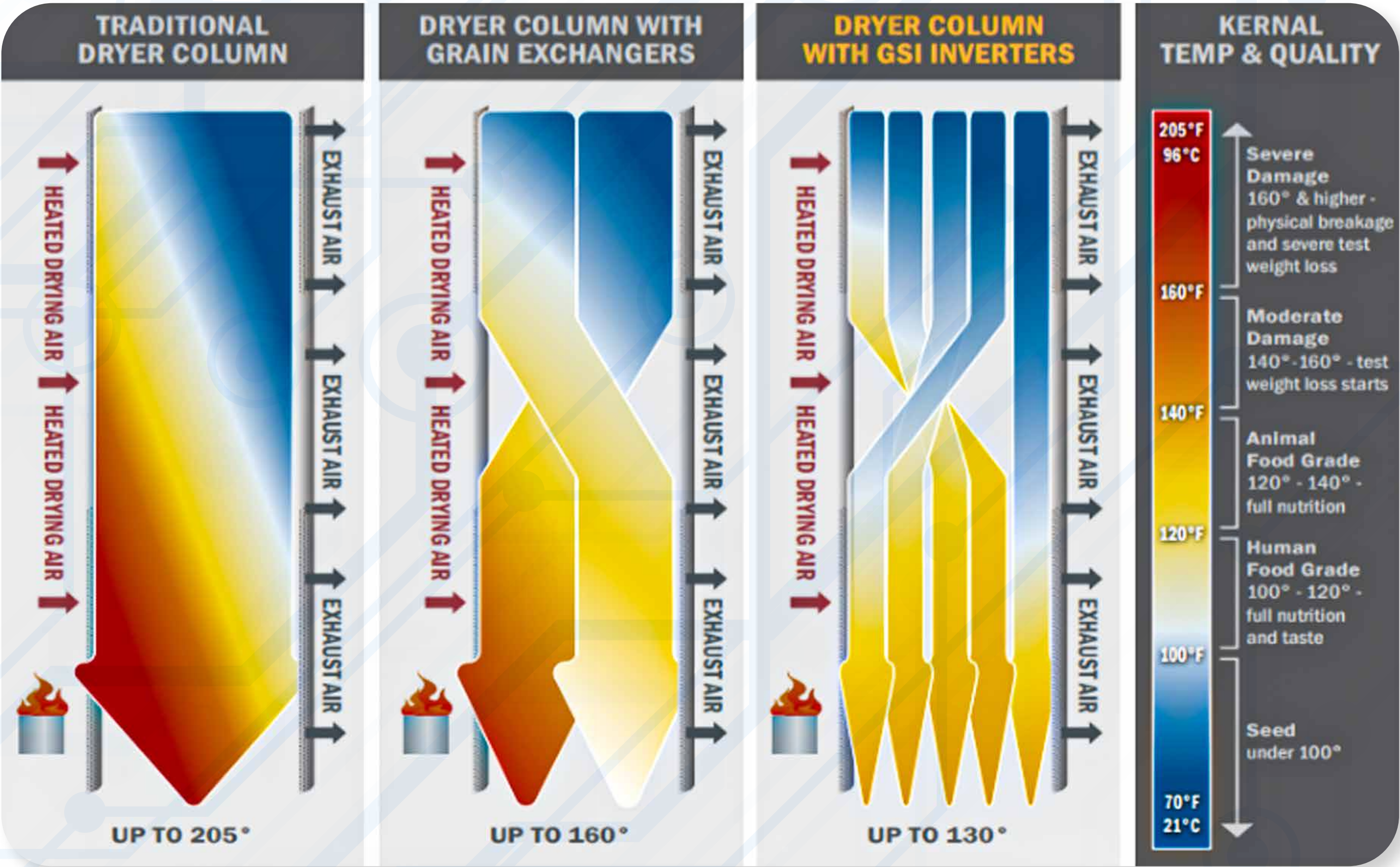
	1200	1500	1800	2000	2400	2500	3000
Drying CFM	60,500	77,100	81,800	98,600	108,300	121,950	145,200
Cooling CFM	30,250	38,550	40,900	49,300	54,150	60,975	72,600
Blower Hp	60	75	75	100	100	3-40	3-50
Burner Capacity (BTU x 1000)	13,068	16,654	17,669	21,298	23,393	26,341	31,363
Average Heat (BTU x 1000) ¹	7,514	9,576	10,160	12,246	13,451	15,146	18,034
Grain Column	12-3/4"	12-3/4"	12-3/4"	12-3/4"	12-3/4"	12-3/4"	12-3/4"
Tower Diameter ²	12'	12'	12'	12'	12'	18'	18'
Overall Height	53'9"	60'5"	70'5"	77'1"	87'1"	68'7"	78'7"
Wet Holding	335	335	335	335	335	731	731
Heat Holding (BU)	719	914	1,158	1,256	1,499	1,511	1,813
Cool Holding (BU)	305	305	354	451	500	529	680
Unload Holding	48	48	48	48	48	144	144
Total Column Holding	1,024	1,219	1,512	1,707	1,999	2,040	2,493
Total Dryer Holding (BU)	1,427	1,622	1,915	2,110	2,401	2,977	3,340
BPH Capacity ³ (20% - 15%)	1,200	1,500	1,800	2,000	2,400	2,500	3,000
BPH Capacity ³ (25% - 15%)	720	900	1,080	1,200	1,440	1,500	1,800

	3500	4000	4718	5000	6000	7000
Drying CFM	175,800	192,750	213,600	282,000	304,800	337,500
Cooling CFM	87,900	96,375	106,800	141,000	152,400	168,750
Blower Hp	3-60	3-75	3-75	3-100	3-100	3-125
Burner Capacity (BTU x 1000)	37,973	41,634	46,138	60,192	65,837	72,900
Average Heat (BTU x 1000) ¹	21,834	23,940	26,529	35,024	37,856	41,918
Grain Column	12-3/4"	12-3/4"	12-3/4"	12-3/4"	12-3/4"	12-3/4"
Tower Diameter ²	18'	18'	18'	24'	24'	24'
Overall Height	88'7"	98'7"	111'11"	103'2"	113'2"	123'2"
Wet Holding	731	731	731	1,279	1,279	1,279
Heat Holding (BU)	2,210	2,512	2,964	3,479	4,042	4,452
Cool Holding (BU)	737	888	1,038	1,126	1,177	1,381
Unload Holding	144	144	144	287	287	287
Total Column Holding	2,947	3,400	4,002	4,605	5,219	5,833
Total Dryer Holding (BU)	3,883	4,337	4,939	6,294	6,908	7,522
BPH Capacity ³ (20% - 15%)	3,500	4,000	4,700	5,000	6,000	7,000
BPH Capacity ³ (25% - 15%)	2,100	2,400	2,820	3,000	3,600	4,200

Starting Right from the Top

In order to ensure superior grain quality, the Tower Dryer is intended to offer the ideal ratio of time, airflow, and temperature.

Grain falls into a self-cleaning grain receiving chamber as it enters the dryer from the top. Grain cushioning is produced by the chamber, and when grain falls on grain, plenum roof wear is lessened. Additionally, this chamber offers a way to equally distribute grain throughout the drier. With a full 40 inches of wet grain storage at the top of the dryer, the garner bin is totally enclosed to help keep grain dust and particles contained. Grain exits the garner area and descends into 12-3/4-inch-wide grain drying columns in the dryer's heat section. In the dryer's drying stage, lengthy grain retention durations are the result of large column holding capacities. This extended retention period produces grain that is effectively and of high quality because of the low drying airflows and temperatures.





THANK YOU

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