

nyle
Dry Kilns

Dry Kiln & Equipment

CATALOG



www.nyle.com - (800) 777-6953 - kilnsales@nyle.com



OUR COMPANY

Nyle is a leader in providing innovative and energy-efficient lumber drying solutions tailored to the diverse needs of the wood industry. With decades of experience, we have established a strong reputation for delivering reliable, high-performance kilns that prioritize quality, sustainability, and precision.

Our advanced systems are engineered to maximize efficiency while minimizing environmental impact, ensuring our customers achieve consistent drying results with lower operating costs. Whether it's hardwood, softwood, or specialty woods, Nyle's kilns are built to meet the exacting demands of modern wood processing.

At Nyle, we're more than just a kiln manufacturer, we're partners in our customers' success. We pride ourselves on offering personalized service, from design and installation to ongoing support and optimization. Our team works closely with clients to understand their unique requirements and develop tailored solutions that enhance productivity and profitability.

With a commitment to quality, innovation, and sustainability, Nyle Dry Kilns is at the forefront of transforming the way the wood industry approaches drying.

Table of Contents

Introduction	1
Small Kilns	3
<i>L53</i>	3
<i>L200</i>	4
<i>L200Pro</i>	5
<i>L200Pro Chamber Kit</i>	7
<i>L200Pro Container Packages</i>	8
Medium Kilns	9
<i>Camden Dry Kiln Kits</i>	9
HT-Series	11
Forklift Kilns	13
Track Kilns	15
Continuous Kilns	17
Kiln Optimization	20
<i>Spray Systems</i>	20
<i>Heat Recovery Vents</i>	21
<i>NDKR Kiln Controls</i>	23
Heat Treating	27
<i>PFT 800</i>	27
Our Services	29
<i>KilnServices</i>	29
<i>PM Service Plan</i>	31



L53

Low-Temp Dehumidification Kilns

Starting at \$4,495.00



About The L53

With the L53, you can achieve superior quality drying without breaking the bank. This compact and high-performance dehumidification system can dry between 300 & 1000 board feet of lumber, ensuring remarkable results with each batch. Equipped with two internal fans, a kiln control, and a powered vent kit, the L53 is perfect for both dedicated hobbyists and seasoned professionals.

TECHNICAL DATA SPECIFICATIONS

Load Capacity	For softwoods and fast-drying hardwoods (Pine or Poplar) 300-400 BF For slow-drying hardwoods (Oak) 1,000 BF
Nominal Water Removal Rate	60 lbs. (27 kg) per 24 hours
Drying Time	4/4 Green Pine -80% to 8% in approximately 12 days. 4/4 Green Oak -65% to 8% in approximately 35 days.
Drying Temperature Range	70° -120° F (21° -49° C)
Heat Treating Capabilities	Yes, Up to 160° F (71° C)
Compressor Nominal HP	1/2 HP
Internal Blower Motors	2 Internal Fans; 50 watts each, 850 CFM
Auxiliary Heat	1,000 Watts
Over Temperature Vents	One power vent system included (includes exhaust and intake)
Power Requirements	120V, 60 Hz, Dedicated 15A Required.
Shipping Weight	150 lbs
Dimensions (H x L x W)	37 1/2" x 22" x 14 1/2" (base unit only)

L200

Low-Temp Dehumidification Kilns

Starting at \$7,995.00



About The L200

For larger drying needs, the L200 models allow you to dry your lumber down to 6-8% moisture content for pennies per board foot. These compact, high-performance dehumidification systems will dry between 1,500 and 4,000 board feet of lumber.

Available in two options, the L200S includes two circulating fans, a kiln control, and a powered vent kit. While the L200M adds upgraded controls with moisture probes.

TECHNICAL DATA SPECIFICATIONS

Load Capacity	For softwoods and fast-drying hardwoods (Pine or Poplar) 1,500 -2,000 BF For slow-drying hardwoods (Oak) 1,000 BF
Nominal Water Removal Rate	250 lbs. (114 kg) per 24 hours
Drying Time	4/4 Green Pine -80% to 8% in approximately 12 days. 4/4 Green Oak -65% to 8% in approximately 35 days.
Drying Temperature Range	70° -120° F (21° -49° C)
Heat Treating Capabilities	Yes, Up to 160° F (71° C)
Compressor Nominal HP	2 HP
Internal Blower Motors	1/3 HP; 1,800 CFM
Auxiliary Heat	4,000 Watts
Circulating Fans	Two Included: 16" 1/3 HP, 1,800 CFM
Over Temperature Vents	One power vent system included (includes exhaust and intake)
Power Requirements	240V, 60 Hz, Dedicated 40A Required.
Shipping Weight	340 lbs
Dimensions (H x L x W)	37" x 32 1/2" x 20 1/2" (base unit only)

L200_{PRO}

Low-Temp Dehumidification Kilns

Starting at \$14,995.00



About The L200Pro

For those seeking top-tier drying performance, the L200Pro sets the standard in small-scale, low-temperature kilns. It offers advanced drying technology and precise control with three modes: Dehumidification (DH), Hybrid, and Conventional. The L200Pro's state-of-the-art controller features a digital sensor for wet and dry bulb measurements, allowing for data logging, scheduling, and remote access. With circulating fans, integrated controls, and a powered vent kit, the L200Pro ensures optimal drying efficiency and consistent results.

TECHNICAL DATA SPECIFICATIONS

	L200Pro-4	L200Pro-8
Load Capacity	For softwoods and fast-drying hardwoods (Pine or Poplar) 1,500-2,000 BF For slow-drying hardwoods (Oak) 4,000 BF	
Nominal Water Removal Rate	250 lbs. (114 kg) per 24 hours	
Drying Time	4/4 Green Pine -80% to 8% in approximately 12 days. 4/4 Green Oak -65% to 8% in approximately 35 days.	
Drying Temperature Range	70° -140° F (21° -60° C)	
Heat Treating Capabilities	Yes, Up to 160° F (71° C)	
Compressor Nominal HP	2 HP	
Internal Blower Motors	1/3 HP; 1,800 CFM	
Auxiliary Heat	4,000 Watts	
Circulating Fans	Four Included: 16" 1/3 HP, 1,800 CFM	Eight Included: 16" 1/3 HP, 1,800 CFM
Over Temperature Vents	One (includes exhaust and intake)	Two (includes exhaust and intake)
Power Requirements	240V, 60 Hz, Dedicated 100A Required.	240V, 60 Hz, Dedicated 125A Required.
Shipping Weight	500 lbs	660 lbs



L200Pro Control

DH Mode

Optimized for slower-drying hardwoods, this mode uses a compressor to remove moisture without heat loss, making it energy-efficient and maintaining consistent drying conditions by retaining heat in the kiln chamber.

Hybrid Mode

Combines traditional heat sources with dehumidification for versatile drying, automatically switching between primary and secondary heat sources to maximize moisture removal while minimizing energy use, making it suitable for fast-drying softwoods.

Conventional Mode

Ideal for general drying needs, this mode uses venting to control humidity, allowing you to reduce moisture levels efficiently by expelling excess humidity through vents while regulating temperature using spray controls.

ADDITIONAL FEATURES



Graphing

Stay informed with real-time and historical data trends. The built-in graphing feature allows you to monitor kiln performance, moisture levels, and temperature changes over time, ensuring precise drying adjustments.



Alarms

Keep operations running smoothly with the L200Pro's intelligent alarm system. It alerts you to any deviations or faults, enabling quick troubleshooting and minimizing downtime to maintain consistent drying performance.



L200_{PRO}

Self Install Chamber Kits

Starting at \$49,995.00



About The L200Pro Chamber

The L200Pro Chamber Kit is your all-in-one solution for professional-grade lumber drying. Measuring just over 16 ft. wide by 7 ft. high, this chamber is capable of drying 3,000-3,500 BF of 4/4 green oak in 4 to 5 weeks. **This package includes an L200Pro DH Unit, Pro control, four circulating fans, a powered vent kit, and a prefabricated chamber kit.**

TECHNICAL DATA SPECIFICATIONS

Drying Capacity	For softwoods and fast-drying hardwoods; (Pine or Poplar) 1,500-2,000 BF For slow-drying hardwoods; (Oak) 3,000-3,500 BF
Number of Fans	Four: 16" 1/3 HP, 1,800 CFM
Chamber Dimensions	18' 1" W x 9' 2" D x 10' 1" H
Load Space	16' 4" W x 5' D x 7' H
Maximum Chamber Capacity	3,500 Board Feet
Power Requirements	240V Single Phase, 60 Hz, Dedicated 100A Required.
Shipping Weight	10,000 lbs
Shipping Requirements	Fork extensions are recommended.
Build Time	≤ 1 Day



L200_{PRO}

Container Kiln Packages

Starting at \$49,995.00



About The L200Pro Container

The L200Pro container kiln packages combine our well-known, high-quality drying systems with a 20 or 40 foot insulated shipping container and everything needed to make a top-quality drying kiln.

This container package includes an L200Pro DH Unit, Pro control, circulating fans, powered vent kits, and an insulated shipping container.

TECHNICAL DATA SPECIFICATIONS

	20 Foot Container	L200Pro-8
Hardwood Drying Capacity (Oak)	2,300 Board Feet	4,000 Board Feet
Mid-Hardwood Drying Capacity (Mahogany)	2,000 Board Feet	2,000 Board Feet
Softwood Drying Capacity (Pine)	1,500 Board Feet	1,500 Board Feet
Kiln Carts & Track	4 Carts, 50' of Track	8 Carts, 90' of Track
Number of Fans	Four: 16" 1/3 HP, 1,800 CFM	Eight: 16" 1/3 HP, 1,800 CFM
Number of Vents	One power vent system included (includes exhaust and intake)	Two power vent systems included (includes exhaust and intake)
Power Requirements	240V, 60 Hz, Dedicated 100A Required.	240V, 60 Hz, Dedicated 125A Required.
Shipping Weight	7,300 lbs	10,500 lbs
Dimensions	8' W x 20' D x 8' 6" H	8' W x 40' D x 8' 6" H

CAMDEN

Prefabricated Dry Kiln Kits

Starting at \$**165,995.00**

About The Camden Series Kilns

Medium-sized kiln operations now have a better option. Nyle has created a set of easy-to-assemble kiln packages that include a chamber with a dehumidification system sized to meet your lumber drying needs.

Designed to the same standards as our larger custom kilns, these kits are semi-assembled packages that can be easily erected on your site.



KEY FEATURES



Built for Precision

Integrated with advanced temperature & humidity monitoring features, the Camden chambers ensure precise drying conditions for various wood types.



Fully Integrated Turn-Key Solution

The Camden Series offers complete, ready-to-use kiln packages that include all necessary components for immediate operation.



User-Friendly Controls

Featuring intuitive control systems, the Camden Series allows for easy monitoring and precise adjustments, ensuring optimal drying performance.



Robust Construction

Built with high-quality, durable materials, the Camden Series Chambers are designed to withstand the demands of continuous kiln operation, providing long-lasting reliability.



TECHNICAL DATA SPECIFICATIONS

	Camden 8		Camden 15	
Chamber Footprint	21' W x 22' D x 15' 4" H		29' W x 34' 6" D x 16' 7" H	
Load Space	19' W x 16' D x 10' 6" H		27' W x 17' 4" D x 12' 6" H	
Drying Temperature	Up to 160° F		Up to 160° F	
Approximate Capacity	8,000 -10,000 BF		12,000 -20,000 BF	
Equipment*	HT 8	HT 8	HT 8	HT 18
Auxiliary Heat	12 kW	12 kW	12 kW	48 kW
Compressor Nominal HP	5 HP	5 HP	5 HP	15 HP
Internal Blower Motors	1.5 HP	1.5 HP	1.5 HP	3 HP
Over Temperature Vents	Four (14" x 16")		Four (20" x 20")	
Circulating Fans	Six 1/2 HP 24"		Six 1/2 HP 24"	
Power Requirements	480V / 3 Phase / 60 Hz 70 A Required.	480V / 3 Phase / 60 Hz 70 A Required.	480V / 3 Phase / 60 Hz 70 A Required.	480V / 3 Phase / 60 Hz 150 A Required.

*Camden 15 also available in a gas version

HT-Series

High-Temp Dehumidification Kilns

Starting at \$37,995.00

About The HT-Series

Nyle's HT-Series makes drying lumber simple, allowing even inexperienced operators to produce high-quality lumber. Operating at up to 160° F, these units match the drying speeds of conventional kilns. Each unit comes standard with; corrosion-resistant aluminum cabinets, coated dehumidification coils, stainless steel cold coils, and Nyle's easy-to-use precision control systems.

Each Kiln is made to order and can be fitted to your existing chamber or built with a new chamber to suit your operation.

TECHNICAL DATA SPECIFICATIONS

	<i>HT8</i>	<i>HT18</i>	<i>HT35</i>
Load Capacity'	4,000-15,000 BF	10,000-35,000 BF	15,000-50,000 BF
Nominal Water Removal Rate	720 lbs. (327 kg)	1,800 lbs (817 kg)	3,500 lbs (1,588 kg)
Drying Time	4/4 Green Pine -80% to 8% in approximately 8 days. 4/4 Green Oak -68% to 6% in approximately 28 days.		
Drying Temperature Range	80° -160° F (26° -71° C)		
Heat Treating Capabilities	Yes, Up to 160° F (71° C)		
Compressor Nominal HP	5 HP	15 HP	25 HP
Internal Blower Motor HP	1.5 HP	3 HP	7.5 HP
Auxiliary Heat	12 kW	48 kW	96 kW
Circulating Fans"	Six 24", 1/2 HP	Four 30", 2 HP	Seven 36", 5 HP
Over Temperature Vents	Four (14" x 16")	Four (14" x 16")	Four (20" x 20")



HT54	HT84	HT108	HT162
24,000-80,000 BF	38,000-120,000 BF	49,000-150,000 BF	73,000-225,000 BF
5,400 lbs (2,450 kg)	8,400 lbs (3,810 kg)	10,800 lbs (4,899 kg)	16,200 lbs (7,348 kg)
4/4 Green Pine -80% to 8% in approximately 8 days. 4/4 Green Oak -68% to 6% in approximately 28 days.			
80° -160° F (26° -71° C)			
Yes, Up to 160° F (71° C)			
40 HP	2 x 30 HP	2 x 40 HP	3 x 40 HP
10 HP	2 x 7.5 HP	2 x 10 HP	2 x 15 HP
96 kW	96-192 kW	96-192 kW	96-192 kW
Eight 36", 5 HP	Eight 36", 5 HP	Nine 36", 5 HP	Nine 36", 5 HP
Eight (20" x 20")			

' Units can be combined for additional capacity
 " Other fan sizes may be available upon request, speak with a sales rep for more info

Forklift Kilns

Dry Kiln Packages



KEY FEATURES

- ✓ ***Easy Loading and Unloading***
Streamlines the process by allowing direct access for forklifts, boosting efficiency and eliminating the need for additional handling equipment.
- ✓ ***Precision Management***
Offers precise control over drying conditions, ensuring consistent, high-quality results with each load.
- ✓ ***Energy-Efficient Operation***
Built to reduce energy consumption, these kilns are designed to lower operational costs while maintaining effective drying performance.
- ✓ ***Durable & Reliable Construction***
Constructed from high-quality materials to withstand daily use, ensuring long-term durability and minimal maintenance.

About Our Forklift Kilns

Nyle's Forklift Kilns are designed for easy operation and high efficiency, offering a complete drying solution for lumber operations. These kilns are built with forklift access, allowing for straightforward loading and unloading of lumber without the need for additional material handling equipment. With precise temperature and humidity control, along with energy-efficient design, Nyle's Forklift Kilns provide superior drying performance while minimizing operating costs.



CHAMBER DESIGN



Nyle's Forklift Kiln Chamber is designed for durability, energy efficiency, and ease of use, making it a top choice for lumber drying operations. Constructed primarily from aluminum with stainless steel fasteners, the chamber's robust yet light-weight design ensures longevity and resistance to corrosion. Thoughtful details, such as thermal breaks and adjustable airflow controls, enhance the kiln's performance, while the lift-and-roll door system and integrated inspection door provide easy access & convenience.



Aluminum Frame & Wall Construction

Lightweight, corrosion-resistant aluminum panels & framing, secured with stainless steel fasteners, ensure a strong, durable structure designed to withstand the elements.



Lift-and-Roll Door System

Equipped with a R22 insulated lift-and-roll door, complete with a track, carrier, and gasket, offering easy access while maintaining airtight insulation.



Thermal Breaks for Energy Efficiency

The chamber design incorporates thermal breaks to reduce thermal bridging, improving energy efficiency & helping maintain optimal drying temperatures.



Efficient Airflow Control

Adjustable top baffles and welded aluminum fan housings allow for precise airflow control, ensuring even drying throughout the lumber stacks.

Track Kilns

Dry Kiln Packages



KEY FEATURES



Long-Lasting Durability

Designed for continuous use, the kiln's robust construction ensures reliable performance and minimal downtime, even in demanding environments.



Uniform Moisture Control

The kilns feature advanced moisture control technology that promotes even drying, resulting in consistently high-quality lumber.



Enhanced Energy Efficiency

With precise control over drying conditions, the kiln maximizes energy use, helping to reduce operational costs while maintaining top performance.



Advanced Control System

The 7" color touchscreen offers easy operation, real-time monitoring, schedule management, and data logging, ensuring optimal energy efficiency and precise drying conditions.

About Our Track Kilns

Nyle Systems' Track Kilns deliver superior lumber drying technology, combining precision, durability, and energy efficiency. Designed for ease of use with a touchscreen control system, these kilns offer advanced moisture control and reliable performance. Built to last, Nyle's Track Kilns ensure uniform drying, enhance lumber quality, and provide operational support backed by a dedicated service team.



CHAMBER DESIGN

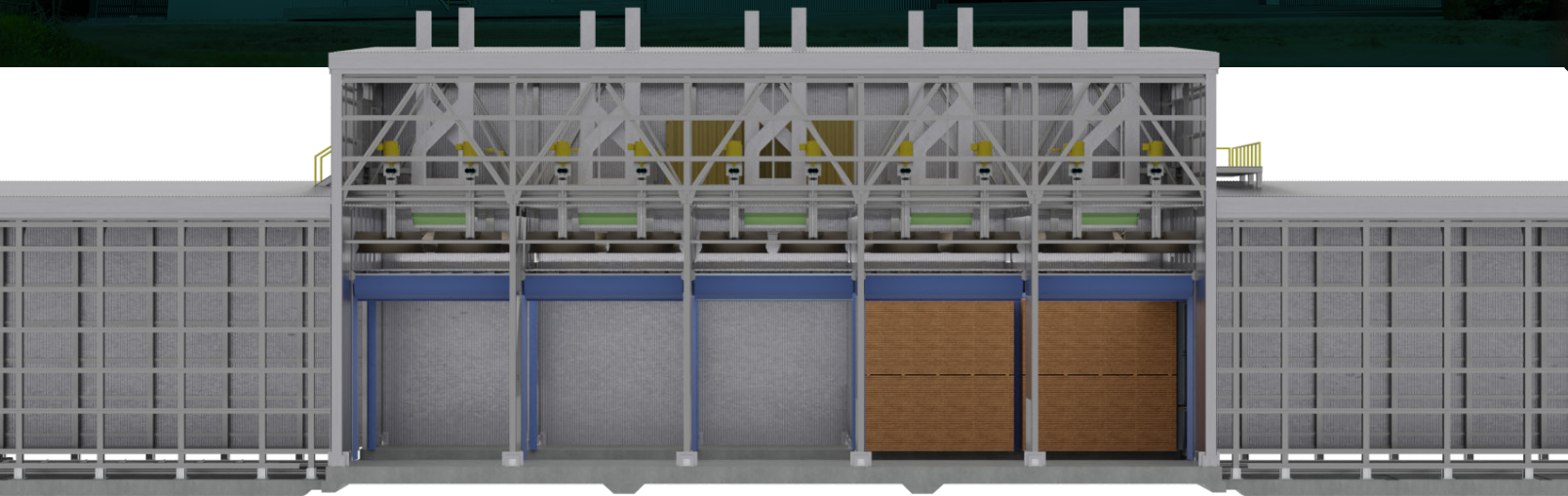


Nyle's Track Kiln chambers are designed with a focus on durability, efficiency, and ease of use. Constructed primarily from corrosion-resistant aluminum, these kilns offer a robust & long-lasting structure. The wall assembly features advanced thermal breaks for enhanced energy efficiency, while the integrated air circulation system ensures even drying across the entire chamber. Additional design features, such as adjustable airflow control & easy access doors, make these kilns both functional and user-friendly.

- ✓ ***Corrosion-Resistant Aluminum Frame***
The kiln's lightweight yet durable aluminum structure is designed to withstand the elements, with stainless steel fasteners providing added strength and longevity.
- ✓ ***Streamlined Airflow System***
Welded aluminum fan housings and adjustable top baffles allow for precise airflow control, ensuring uniform drying across the entire lumber load.
- ✓ ***Enhanced Thermal Efficiency***
The kiln's walls feature snug-fit insulation and thermal breaks to prevent heat loss, improving energy efficiency and creating a more controlled drying environment.
- ✓ ***Convenient Access***
Equipped with swing doors for easy lumber loading and inspection doors for quick maintenance access, the kiln design prioritizes both functionality and ease of use.

ProDRY

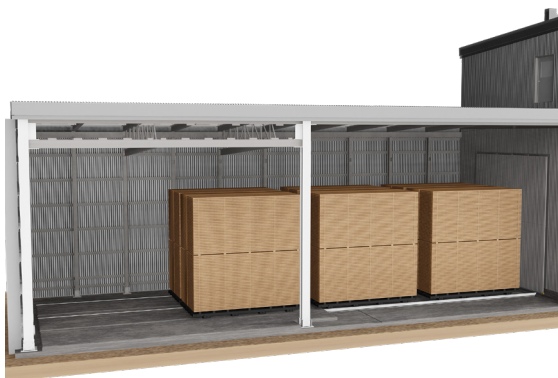
High Temperature Continuous Kilns



About Our ProDRY High Temp Continuous Kilns

Nyle's ProDRY High Temp Continuous Kilns offer the most advanced lumber drying technology available, combining both active and passive heat recovery systems for unmatched energy efficiency. Designed with flexibility and innovation, the ProDRY series allows you to select from multiple energy sources, making it an adaptable solution for any lumber drying operation. With features like independent drying zones, an automated cart return system, & the innovative "Weekend Helper" staging area, ProDRY kilns ensure maximum productivity and minimal downtime, helping you optimize both performance and costs.

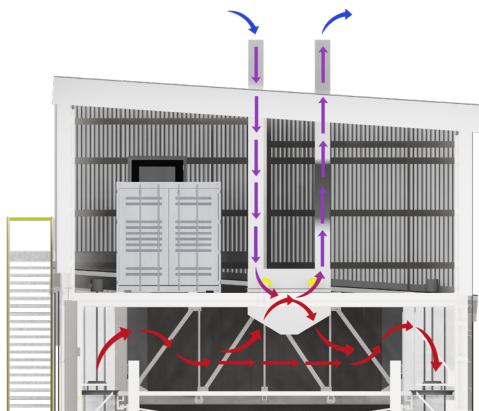
"Weekend Helper" Staging Area



The ProDRY Kiln features enclosed staging areas on both sides, making loading and unloading effortless. Known as the "weekend helper," these areas can hold multiple zones of lumber, keeping them lined up and ready to automatically load into the kiln, ensuring continuous operation even when you're not there. The enclosed design not only protects lumber waiting to be dried but also shields freshly dried packs from the elements, providing peace of mind year-round.

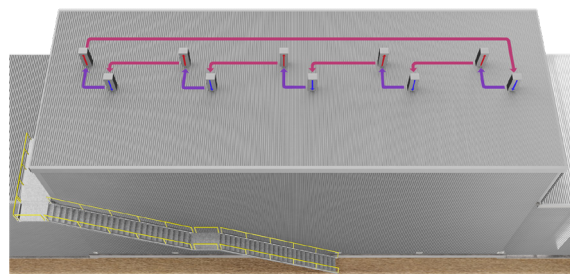


DUAL HEAT RECOVERY VENTING



Active Heat Recovery

- Each zone includes a heat recovery vent system that recaptures energy lost during the drying process by transferring heat from the outgoing vented air to the incoming air.
- This energy transfer reduces the need for kiln reheating, lowering fuel consumption by at least 15%.
- Integrated VOC Recovery System helps reduce the amount of volatile organic compounds (VOCs) released into the atmosphere, promoting cleaner operations.



Passive Heat Recovery

- Features an additional passive heat recovery loop to recapture excess heat energy within the system.
- Excess heat from the “dryer” zones is redirected to zones with higher moisture content, enhancing efficiency.
- This passive system preheats incoming air as it enters the intake of the Heat Recovery Vents, optimizing overall energy use.

AVAILABLE ENERGY OPTIONS



Dehumidification



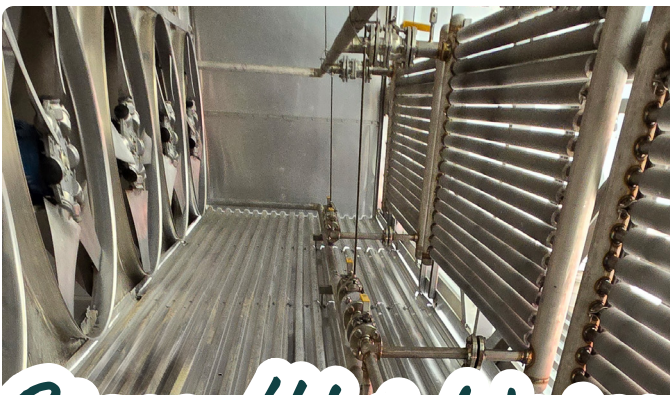
Nyle's dehumidification kilns offer high efficiency, energy savings, and precise temperature control, providing a cost-effective drying solution with comparable speeds to traditional kilns.



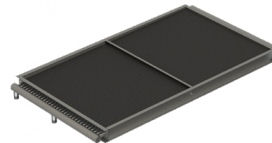
Indirect Gas-Fired



In high electricity rate regions, our cutting-edge indirect gas-fired kilns offer cost savings, superior safety, and improved quality control over direct gas-fired alternatives.



Steam/Hot Water

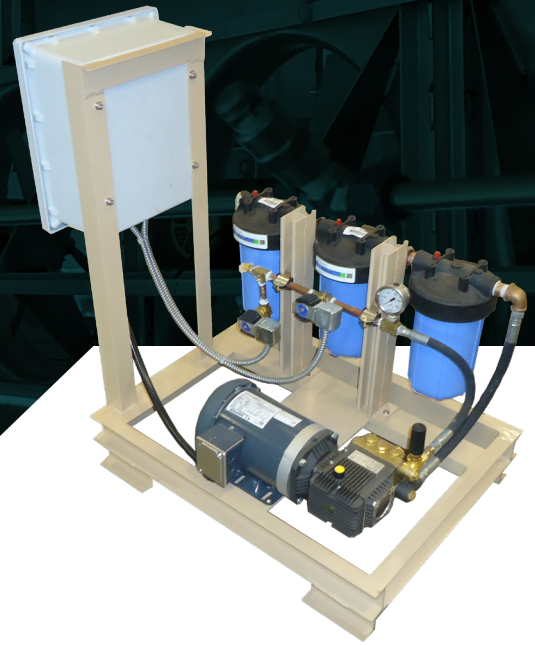


Nyle's engineered steam and hot water coils offer exceptional performance and durability, providing precise temperature control & optimal conditions for superior lumber drying results.

Spray System

High Pressure Atomizing

Starting at \$8,500.00



About Our High Pressure Spray System

Nyle's High-Pressure Spray System delivers precise humidity control within the kiln chamber, ensuring optimal wood drying conditions. By managing the moisture levels throughout the drying cycle, it helps prevent over-drying, which can lead to wood damage. This system also enhances wood conditioning by reintroducing moisture to the surface at the end of the drying process, reducing stress and improving overall wood quality. Additionally, the high-pressure design minimizes boiler dependency, lowering the need for boiler chemicals and water.



TECHNICAL DATA SPECIFICATIONS



Water Flow Rate	3.5 GPH (Per nozzle @ 500 PSI)
Number of Nozzles	5-10 Nozzles per Kiln Bay
Unit Kiln Capacity	Each system serves 2 Kilns
Motor HP	3 HP
Dimensions	40" W x 24" D x 38" H
Weight	150 lbs
Power Requirements	480V Three Phase, 60 Hz, Dedicated 15A Required

HRV

Heat Recovery Venting System

Starting at \$49,995.00



About The HRV

Nyle is dedicated to supporting kiln owners & enhancing the efficiency and productivity of lumber drying. Nyle's dynamic heat exchangers recapture energy lost during the drying process by transferring most of the outgoing vented air's energy back to the incoming air.

This innovative approach not only utilizes energy that would otherwise be wasted but also cuts down the need for additional heating, reducing overall fuel consumption by at least 15%.



KEY FEATURES

- ✓ **Reduce Energy Costs by Up to 30%**
The heat recovery vent system significantly lowers energy consumption, resulting in substantial cost savings.
- ✓ **Qualifies for Carbon Credits**
By improving energy efficiency, the system helps meet sustainability goals and can qualify your operation for carbon credits.
- ✓ **Recovers 80% of Heat Lost**
The advanced design captures and reuses up to 80% of the heat that would otherwise escape, maximizing efficiency.
- ✓ **Accelerates Drying Times**
Enhanced heat retention and optimized airflow contribute to faster drying cycles, increasing productivity.

Carbon Credit Savings

Natural Gas:

1.59

CARBON CREDITS

Per 1,000 therms currently being used

Liquid Propane:

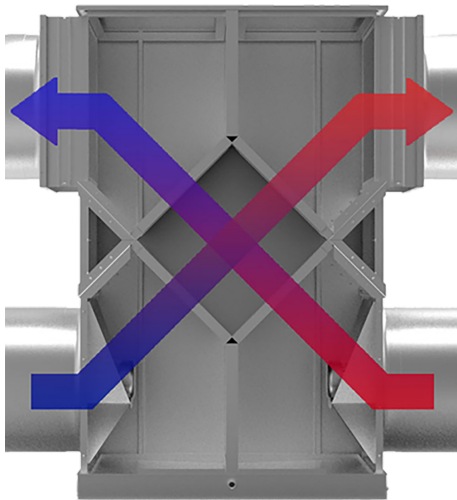
1.72

CARBON CREDITS

Per 1,000 gallons currently being used



TECHNICAL DATA SPECIFICATION



Venting Capacity	5,000 CFM	
Estimated Energy Savings	Saves up to 80% of Lost Heat	
Energy Recovery	Winter	Up to 305,502 BTU/hr
	Summer	Up to 116,568 BTU/hr
Intake/ Exhaust Fan HP (@ 1,800 RPM)	6 HP total with VFD	
Static Pressure	2"	
Power Requirements	480V Three Phase, 30A	

EXAMPLE PAYBACK

Venting	Starting MC	Target MC	Savings Per Load (Weighted Average)	Expected Energy Use (MMBTU)	Payback Average (in Years)
High	130.1%	15%	\$3,430.95	1,465.4	0.52
Average	58.5%	15%	\$1,296.67	553.8	1.37
Low	38.1%	15%	\$688.58	294.1	2.58

NDKR

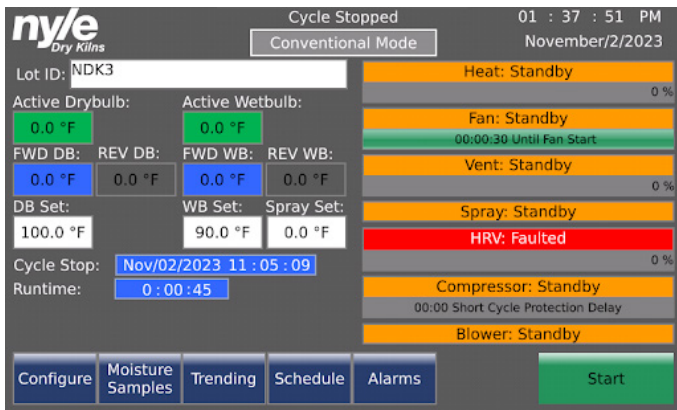
Kiln Control Package

Starting at \$14,995.00*



About The NDKR

The NDKR controls package was designed for kiln operators by kiln operators and is capable of being installed on any kiln from any manufacturer. Our newest platform encompasses the company's goals of creating energy-efficient solutions for kiln drying, all while applying advanced functionality to reduce drying time without compromising quality.



KEY FEATURES

- ✓ **Versatile Control Modes**
The NDKR system offers multiple control options, allowing for precise adjustments and customization to suit various drying needs.
- ✓ **Built-In Energy Management**
Integrated energy management system optimizes power usage, helping to reduce operating costs while maintaining efficient kiln performance.
- ✓ **Advanced Sensor Technology**
Equipped with state-of-the-art sensors for accurate monitoring of temperature and humidity, ensuring consistent and reliable drying results.
- ✓ **Compatible with Any Kiln**
Designed to be retrofitted to any kiln, regardless of the manufacturer, providing flexibility for existing setups without needing a complete system replacement.

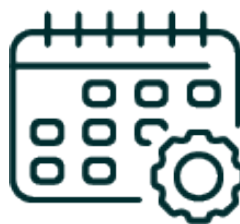
Added Features



REMOTE ACCESS



DATA TRACKING



FLEXIBLE SCHEDULING



7" TOUCH SCREEN



OPERATION MODES

DH Mode

Optimized for slower-drying hardwoods, this mode uses a compressor to remove moisture without heat loss, making it energy-efficient and maintaining consistent drying conditions by retaining heat in the kiln chamber.

Hybrid Mode

Combines traditional heat sources with dehumidification for versatile drying, automatically switching between primary & secondary heat sources to maximize moisture removal while minimizing energy use, making it suitable for fast-drying softwoods.

Conventional Mode

Ideal for general drying needs, this mode uses venting to control humidity, allowing you to reduce moisture levels efficiently by expelling excess humidity through vents while regulating temperature using spray controls.



nyle KILNCONNECT

Smart Drying Revolutionized

Overview

Nyle's KilnConnect edge box, combined with NDKR controls, offers advanced functionality for larger operations, driving innovation by enabling facilities to share drying knowledge, standardize SOPs, and harness valuable data. This cloud-connected system provides SCADA-level control, historical data logging, and cutting-edge AI capabilities for a seamless, hands-off experience.

KEY FEATURES

Data Integration

Captures and expands data from each kiln across sites.

Analytics & Monitoring

Enhanced graphs, data analytics, & energy usage tracking.

Customizable Displays

User-specific dashboards for operators and managers.

AI-Driven Insights

Leverages IoT & AI for optimized operations and decision-making.



Benefits



ENERGY EFFICIENCY: Track and compare energy usage across multiple sites.



ENHANCED CONTROL: Customize variables like cost per board foot and average drying time.



IMPROVED COLLABORATION: Facilitate the development of consistent SOPs and share best practices.

nyle EMS

ENERGY MANAGEMENT SYSTEM

Overview

The NDK Energy Monitoring System (EMS) is an advanced add-on to Nyle's NDKR Control platform, designed to optimize energy usage across the kiln drying process. This system allows real-time monitoring and control of power consumption for circulating fans, drying equipment, and pre-heating components.



KEY FEATURES

Comprehensive Monitoring: Track power usage for each part of the drying process.

Customizable Control: User-specific dashboards for operators and managers.

Reporting & Analysis: Generate ongoing or historical reports for fine-tuning operations.

Energy Efficiency: Tailor power usage to meet infrastructure needs while maintaining ideal drying conditions.

Customizable Installation: Includes power monitoring, sensors, & relay outputs, with initial programming by Nyle.

Why Choose Nyle's Energy Management System

The NDK Energy Monitoring System (EMS) offers kiln operators precise control over energy consumption, enabling significant cost savings and enhanced operational efficiency. With its flexible customization and powerful reporting capabilities, EMS ensures that your kiln operates at peak performance with minimal energy waste.

PFT 800

Pallet & Firewood Heat Treater

Starting at \$79,995.00



KEY FEATURES

- ✓ ***Complete Turn-Key System***
Housed in a 40-foot refrigerated shipping container, the system includes everything needed for immediate heat-treating operations.
- ✓ ***Safe, Indirect Gas-Fired Furnace***
Indirect gas-fired design prevents direct flame contact, offering safer heat-treating compared to direct-fired systems while maintaining efficiency.
- ✓ ***Advanced Control System***
Equipped with precise controls with data logging, the system ensures compliance with evolving regulations & supports growing operational needs.
- ✓ ***Durable Construction***
Manufactured with high-quality materials to reduce maintenance and repair time, allowing you to focus on maximizing productivity.

About The PFT 800

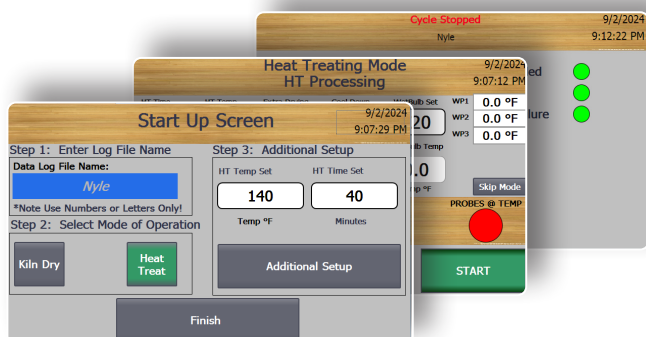
Nyle's PFT 800 Heat-Treating System is designed for flexibility, efficiency, and ease of use, making it suitable for treating everything from pallets to firewood. Built within a durable 40-foot refrigerated shipping container, these systems provide all the equipment necessary for heat-treating operations. With indirect gas-fired furnaces running on natural gas or propane, Nyle's heat treaters are both efficient and safe, requiring no boiler.



TECHNICAL DATA SPECIFICATION

Load Capacity	350 Pallets/ 6-8 Cords	
Max Temperature	180° F	
Drying Time	Winter	Drying: 3-5 Days / Heat Treating: 3-6 Hours
	Summer	Drying: 2-3 Days / Heat Treating: 2-4 Hours
Energy Output	800,000 Btu/hr	
Number of Fans	One 36", 7.5 HP	
Number of Vents	Two Duct Vents	
Dimensions	40' L x 8' W x 9' 6" H	
Shipping Weight	11,000 lbs	
Power Requirements	480V Three Phase, 60 Hz	

Controls



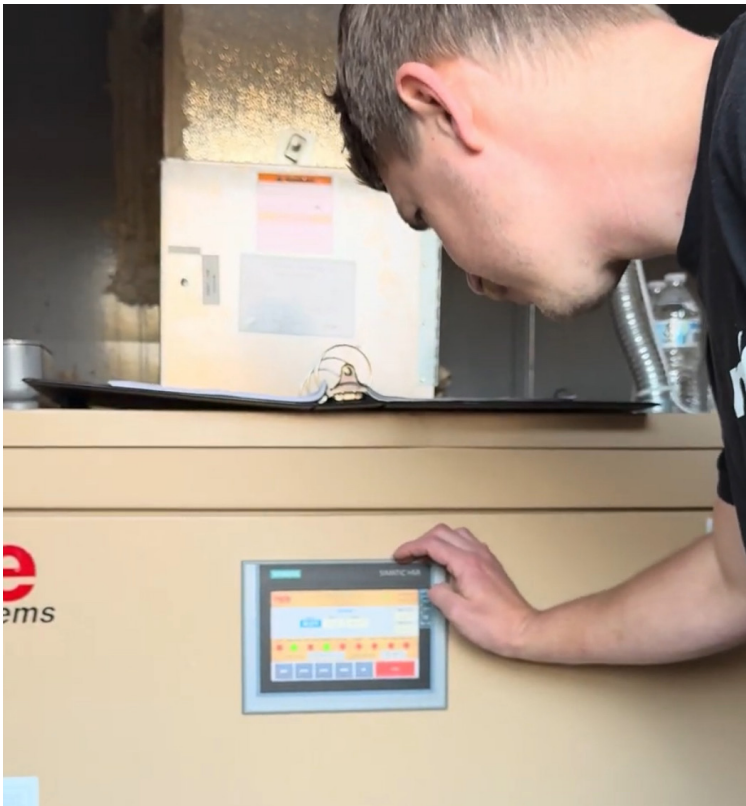
Our Heat-Treating control system provides the tools to ensure proper & efficient heat treatment every cycle.

The control system allows complete control over the set points & climate during the cycle, even automatically turning off the equipment when heat treating has been completed.

Automatic recording allows users to generate printable reports for certification and shipping requirements.

KilnServices

Complete Kiln Service Program



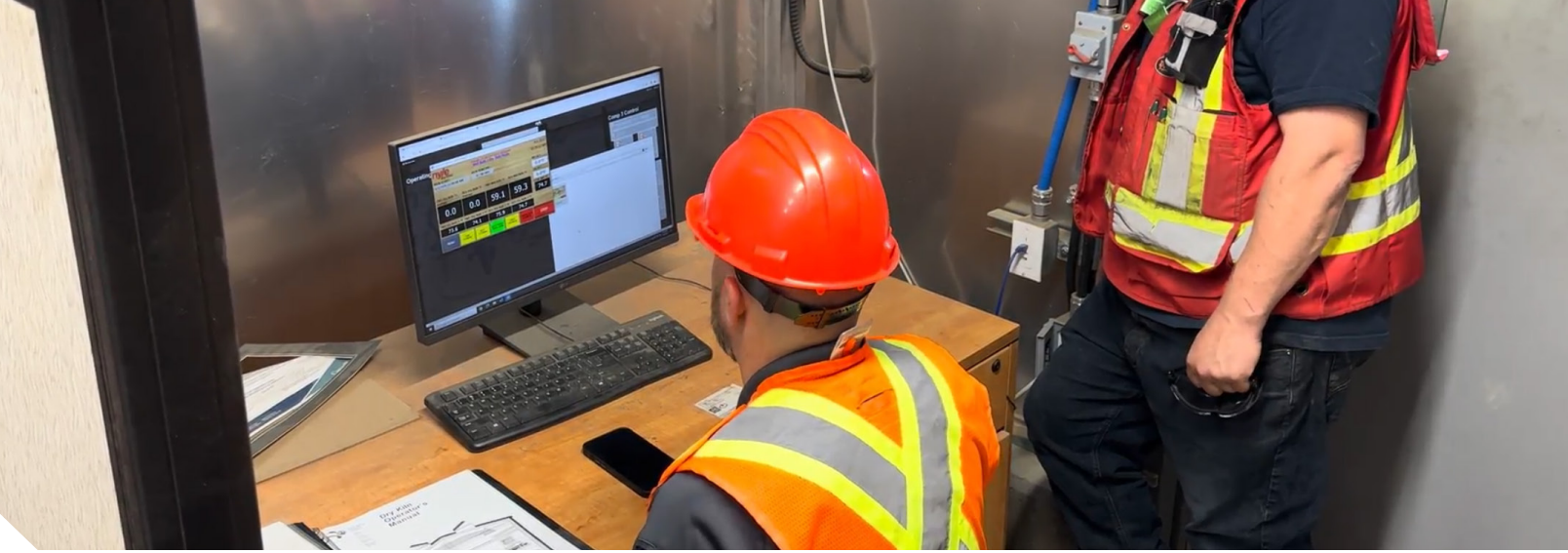
KEY FEATURES

- ✓ ***On-site Kiln Inspection***
A comprehensive analysis of your current kiln drying operation, evaluating equipment performance, drying processes, and operational efficiency.
- ✓ ***Comprehensive Kiln Audit***
Nyle provides a detailed audit report outlining the findings, including equipment performance, drying inefficiencies, and areas for improvement.
- ✓ ***Technical Support & Training***
Access industry-leading support and hands-on training to ensure your team can maximize the efficiency and longevity of your kiln systems.
- ✓ ***Customized Upgrades***
From control system enhancements to energy-efficient retrofits, Nyle offers custom upgrades designed to meet your unique operational needs and improve overall performance.

About KilnServices

Unlock the full potential of your kiln operations with Nyle Dry Kilns' KilnServices Program. Tailored to your unique needs, this comprehensive program combines expert analysis, customized training, and ongoing support to optimize efficiency and productivity.

Whether you're looking to improve current processes or tackle new challenges, our KilnServices Program is designed to deliver tangible results, reducing costs and enhancing performance.



COMPREHENSIVE KILN AUDITS

Nyle's Kiln Audit goes beyond a surface-level inspection. Our experts delve deep into the nuances of your kiln operations, starting with a detailed assessment of your equipment, controls, and operating practices. Our audit includes a review of your maintenance practices to identify potential issues before they cause downtime. After the audit, you receive a comprehensive report detailing our findings, along with specific, actionable recommendations designed to enhance your kiln's performance, extend equipment life, and improve your bottom line. We work closely with your team to prioritize these improvements, ensuring they align with your operational goals and budget.

Our audit covers key aspects, including:

Structure and Chamber: We thoroughly assess the doors, walls, floor, and roof of the kiln, identifying materials used and inspecting for signs of wear, damage, or corrosion. Recommendations are made for improvements or repairs to ensure long-term durability and optimal performance.

Heating Systems: Our team evaluates the type and efficiency of your heating system, whether it's steam, gas, or electric. We check its overall condition and functionality, providing suggestions for maintenance or potential upgrades to improve efficiency and reduce energy costs.

Fans & Ventilation: The audit includes a detailed inspection of the fans, including motor brands, size, horsepower, RPM, and amperage. We also assess the condition of your Variable Frequency Drives (VFDs) and the effectiveness of your ventilation system, offering recommendations for maintenance and enhancements to improve airflow and drying consistency.

Spray System & Kiln Controls: We evaluate the steam and water delivery systems, checking pressure, nozzle size, and overall condition. Additionally, our experts assess the brand and capabilities of your kiln controls, ensuring that operators understand how to use them effectively. We provide guidance on improving or upgrading these systems to enhance control over the drying process.

Operational Efficiency: Beyond equipment, we evaluate stacking practices and overall maintenance routines, suggesting ways to optimize these processes for greater efficiency. We identify other factors affecting drying efficiency and offer tailored recommendations to ensure your kiln operates at peak performance.

PM Service

Preventative Maintenance Service Plan



KEY FEATURES

- ✓ ***Regular Equipment Inspections***
Receive comprehensive inspections from a service technician to identify potential issues and ensure your equipment stays in top condition.
- ✓ ***Cost Savings & Predictability***
Save on professional travel charges, parts, and certifications, while maintaining a fixed service rate for the duration of your contract.
- ✓ ***Tailored Maintenance Schedule***
A consistent service schedule ensures optimal performance and longevity of your equipment, with inspections tailored to your operational needs.
- ✓ ***Discounted Parts and Services***
Enjoy significant discounts on parts and kiln probe certifications throughout the life of your service contract.

About Our PM Service Plan

Nyle's Preventative Maintenance Service Plan is designed to ensure your equipment operates at peak performance year-round. By pairing regular inspections with tailored maintenance schedules and cost-saving benefits, this program helps you get the most out of your investment.

Whether your goal is to prevent unexpected downtime, enhance equipment efficiency, or streamline your maintenance budget, our plan offers a proactive approach. By identifying and resolving minor concerns early, you can keep your operations running smoothly while extending the life of your equipment.



Benefits



BUDGET-FRIENDLY MAINTENANCE: Predictable costs for regular servicing, with built-in savings on parts and travel.



EXPERT TECHNICIANS AT YOUR SERVICE: Skilled professionals to assess wear and tear, answer your questions, and provide actionable insights.



PROACTIVE PROBLEM SOLVING: Small issues are identified and addressed before they escalate into costly downtime.



UPGRADE AWARENESS: Stay informed of upgrades to keep your system current and efficient.

What's Included

- ✓ *A fixed daily on-site service rate of \$1,350.**
- ✓ *100% discount on professional travel charges.*
- ✓ *25% discount on all parts purchases.*
- ✓ *50% discount on kiln probe certifications.*
- ✓ *A comprehensive kiln audit checklist with every service.*

*Single On-site Daily Rate subject to change on January 1st of each year.



Contact Us

Address: 12 Stevens Road
Brewer, ME 04412

Phone: (800) 777-6953

E-Mail: kilnsales@nyle.com

Website: www.nyledrykilns.com