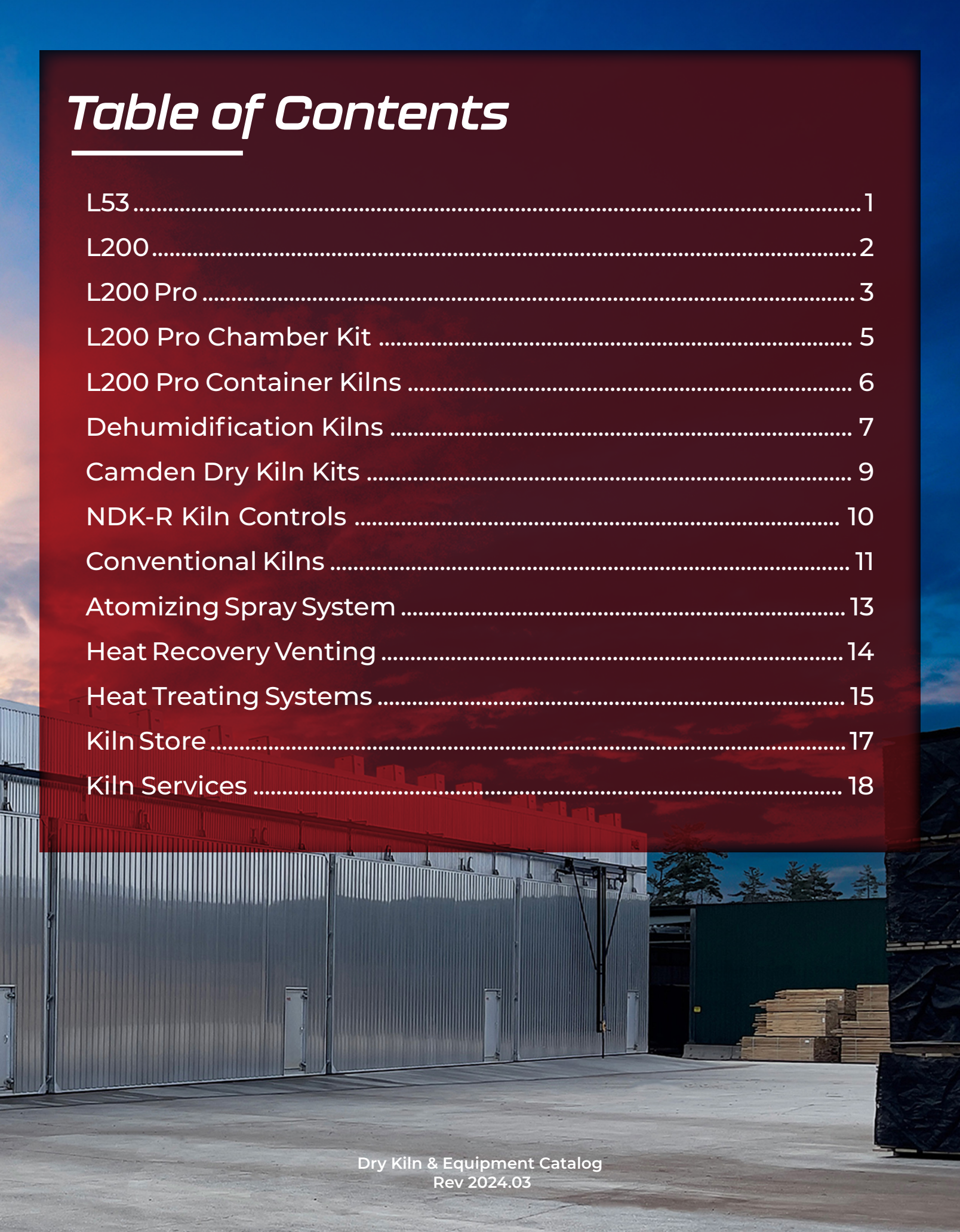
nyle Dry Kilns

Dry Kiln & Equipment Catalog

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

Table of Contents



Dry Kiln & Equipment Catalog
Rev 2024.03

L-53

Low-Temp Dehumidification Kiln

With the L53, you can achieve superior quality drying without breaking the bank. This compact & high-performance heat pump system is capable of drying between 300 and 1000 board feet of lumber, ensuring remarkable results with each batch

Equipped with two internal fans, a powered vent kit, and a kiln control, the L53 is perfect for both dedicated hobbyists and seasoned professionals.

Starting at
$4,495

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	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	An Auxiliary heater can be used to set the pitch, sterilize the load (kill bugs) and for preheating. (Up to 160° F)
Compressor Nominal HP	1/2 HP
Internal Blower Motors	2 Internal Fans; 50 watts each, 525 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 ½" x 22" x 14 ½" (base unit only)

MADE IN USA

c LC us

L-200

Low-Temp Dehumidification Kiln

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 heat pump systems will dry between 1,500 and 4,000 board feet of lumber.

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

Starting at
$7,995

Specifications

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	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	An Auxiliary heater can be used to set the pitch, sterilize the load (kill bugs) and for preheating. (Up to 160° F)
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 ½” x 20 ½” (base unit only)

MADE IN USA

c LC us CE

L-200PRO

Low-Temp Dehumidification Kiln

For those seeking the pinnacle of performance, the L200Pro is the ideal choice. Revolutionizing low-temp, small kilns with advanced technology and drying control, the L200Pro features multiple operation modes. Its advanced controller has an electronic dry and wet bulb sensor, enabling data logging, scheduling, & remote access capabilities.

With circulating fans, control, and powered vent kits, the L200Pro ensures unparalleled efficiency and control.

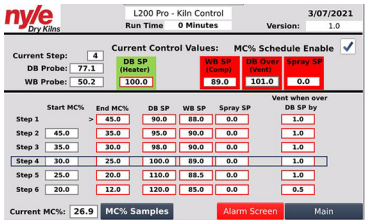
Starting at
$14,995

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	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	An Auxiliary heater can be used to set the pitch, sterilize the load (kill bugs) and for preheating. (Up to 160° F)	
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 power vent system included (includes exhaust and intake)	Two power vent system included (includes exhaust and intake)
Power Requirements	240V, 60 Hz, Dedicated 100A Required.	240V, 60 Hz, Dedicated 125A Required.
Shipping Weight	500 lbs.	660 lbs.

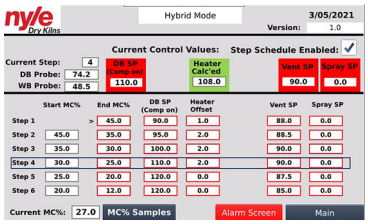
L200Pro Control

Four Modes of Operation



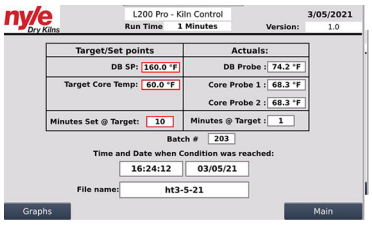
DH Mode

This mode is optimal for drying hardwoods with slow-drying characteristics, such as oak. During this mode, the kiln is regulated following traditional DH operation.



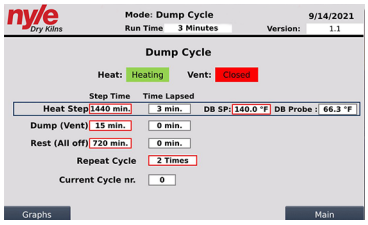
Hybrid Mode

This mode is better suited for species that dry quickly. During this mode, the kiln is controlled more in line with traditional/ conventional drying practices.



Heat Treat Mode

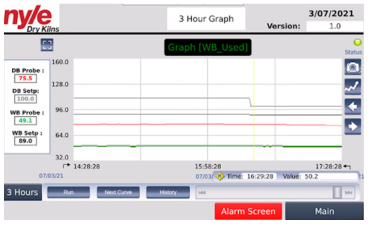
In this mode, the kiln automatically halts upon reaching and sustaining the settable target temperature for the specified duration.



Dump Cycle Mode

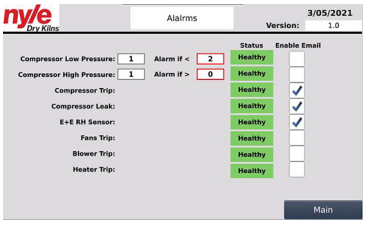
This mode employs a time-based cycle of heating, dumping, and resting, with multiple repetitions aimed at reducing the moisture content of thick slabs from 15% to 8% or lower.

Additional Features



Graphing

Complete list of graphs showing you everything from probe values to Heat Treatment & general process logs



Alarming

Catch issues before they become costly.

L-200Pro

Prefabricated Chamber Kit

The L200Pro chamber features four fans and a power vent for intake and exhaust. Measuring 16 ft. wide by 8 ft. high, this chamber is capable of drying 3,000 - 4,000 BF of 4/4 green oak in 4 to 5 weeks.

This package includes an L200Pro Unit, advanced controller, four circulating fans, powered vent kit, and a prefabricated chamber.

Starting at
$49,995

Specifications

Number of Fans	4
Fan HP	1/3 HP
Chamber Dimensions	17’ 11” W x 8’ 6” D x 12’ H
Load Space	16’ W x 4’ D x 8’ H
Maximum Chamber Capacity	4,000 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	4 - 5 Days

L-200Pro

Container Kiln Packages

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 package includes an L200Pro Unit, advanced controller, circulating fans, powered vent kit(s), & a container.

Starting at
$49,995

Specifications

Container Size	20 ft	40 ft
Hardwood Capacity (Oak)	2,300 board feet	4,000 board feet
Mid-Hardwood Capacity (Mahogany)	2,000 board feet	2,000 board feet
Softwood 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	4	8
Powered Vent Sets	1	2
Powered Requirements	240V Single Phase, 60 Hz Dedicated 100A Required.	240V Single Phase, 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

HT-Series

High-Temp Dehumidification Kilns

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, & 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.

Specifications

Starting at
$37,995

Unit	HT8	HT 18	HT 35
Load Capacity	4,000 - 15,000 BF	10,000 - 35,000 BF	15,000 - 50,000 BF
Nominal Water Removal (Per Day)	720 lbs. (327 kg)	1,800 lbs. (817 kg)	3,500 lbs. (1,588 kg)
Drying Time	4/4 Green Pine 80% - 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	An Auxiliary heater can be used to set the pitch, sterilize the load (kill bugs) & for preheating.		
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
Over Temp Vents	Four (14" x 16")	Four (14" x 16")	Four (20" x 20")
Circulating Fans	Six 1/2 HP 24"	Four 2 HP 30"	Standard sizes of 36", 48" & 60" available

HT 54	HT 84	HT 108	HT 162
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% - 8% in approximately 8 days. 4/4 Green Oak 68% to 6% in approximately 28 days.			
80° - 160° F (26° - 71° C)			
An Auxiliary heater can be used to set the pitch, sterilize the load (kill bugs) & for preheating.			
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 (20” x 20”)			
Eight 5 HP 36”	Eight 5 HP 36”	Nine 5 HP 36”	Nine 5 HP 36”

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

Camden

Prefabricated Dry Kiln Kits

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 heat pump 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. Depending on the chamber size, these kits can be installed in about five days with a two or three-man crew.

Specifications

Starting at
$165,995

	Camden - 8	Camden - 15	
Chamber Dimensions	19’ W x 20’ D x 10’ 6” H	27’ W x 20’ D x 12’ H	
Load Space	19’ W x 16’ D x 10’ 6” H	27’ W x 16’ D x 12’ H	
Control Room Size/Style	7' 6" W x 4' D - Doghouse	8' W x 9' D - Control Room	
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 18
Auxiliary Heat	12 kW	12 kW	48 kW
Compressor Nominal HP	5 HP	5 HP	15 HP
Internal Blower Motors	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 / 3Φ / 60 Hz Dedicated 70 A Required.	480V / 3Φ / 60 Hz Dedicated 70 A Required.	480V / 3Φ / 60 Hz Dedicated 150 A Required.

*Camden-15 also available in a gas version.

NDKR

Kiln Control Package

The NDKR controls package, crafted by kiln operators for kiln operators, can be installed on kilns from any manufacturer. Our latest platform reflects our commitment to developing energy-efficient solutions for kiln drying. It incorporates advanced functionality to accelerate drying times without sacrificing quality.

Leveraging years of kiln control expertise, the NDKR platform offers various control modes, enabling kiln operators to select their preferred drying method for each species.

Starting at
$14,995*

Operation Modes

DH Mode

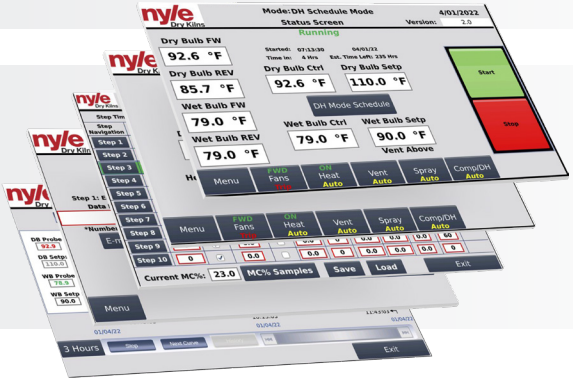
This mode is more suitable for drying slow-drying hardwoods like oak. In this mode, the kiln is controlled according to traditional DH operation.

Conventional Mode

This mode utilizes a controlling dry bulb for temperature control and a wet bulb reading for venting the kiln or adding moisture.

Hybrid Mode

This mode is more suitable for faster-drying species. In this mode, the kiln is controlled more according to traditional/conventional drying practices.



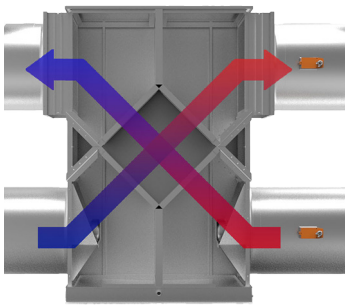
*The "starting at" price is for the first controller and one edge box.
Each subsequent controller will cost $7,900.

Conventional

Kiln Packages

Our conventional kilns can operate at temperatures of up to 250°F (120°C) and provide quality and economical options for those living in an area with high electric costs or needing a higher heat output. These systems are available in forklift or track kiln constructions and utilize precision controls & heat recovery venting to ensure superior efficiencies with top-quality results & shorter drying times.

Specifications



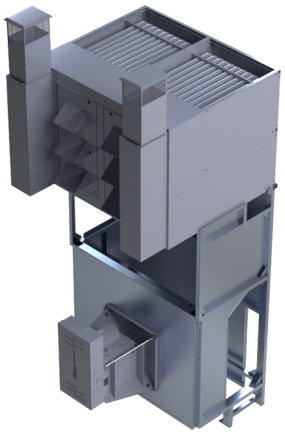
Heat Recovery Vent

Our High-Temperature kilns are furnished with our heat recovery venting system (HRVs), providing a way to recapture a portion of the heat that would otherwise be lost. This procedure harnesses energy that would typically go to waste, diminishing the necessity for reheating and resulting in a 15-20% reduction in fuel consumption.

Precision Controls

With 45 years of industry experience, Nyle developed a control system that revolutionizes the interaction between operators and their equipment. We set out with two goals in mind: increase productivity & make the control easy to use.

Flexible Heating Options



Indirect- fired Gas

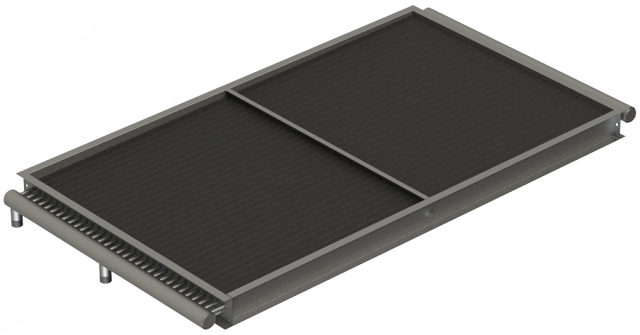
Our indirect-fired gas burners present a cost-effective alternative in regions with elevated electricity expenses.

Despite being slightly pricier, we exclusively employ indirect-fired systems due to their superior safety rating and stringent quality control.

Steam & Hot Water

Nyle's specially crafted steam and hot water coils play a crucial role in efficiently controlling temperature within a kiln.

While the installation of fin tubes & pipes might suffice, it doesn't guarantee peak performance. Acknowledging this, Nyle has exclusively partnered with a reputable coil provider to develop resilient coils tailored for the lumber industry, ensuring sustained functionality.



High Temperature Kilns

Our High Temp track kilns are ideal for drying Southern Yellow Pine, Poles, and timbers.

With a 250° operating capacity, this system enables drying in as little as three days while ensuring top-quality results. The High Temp systems provide turn-key installation & ongoing support from our renowned service department.

Nyle has consistently aimed to assist all kiln owners and enhance efficiency and productivity in lumber drying. Among the notable drawbacks of a traditional kiln is the significant heat loss through venting.

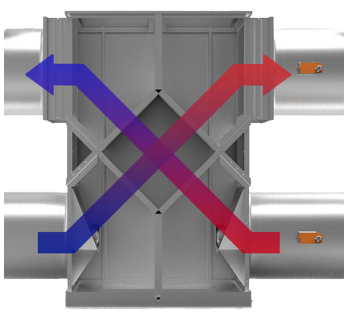
With venting being essential for excess moisture removal, there comes a substantial energy expense. This heat loss can significantly hamper efficiency, raise energy expenditures, and lead to degradation. Our dynamic heat exchangers play a pivotal role in recuperating lost energy during the drying process by transferring a substantial portion of the outgoing vented air's energy to the incoming air.

This process effectively harnesses otherwise wasted energy, reducing the need for reheating and resulting in a minimum 15% decrease in overall fuel consumption.

Specifications

Starting at
$29,995

Unit		HRV 5000
Venting Capacity		5,000 CFM
Estimated Energy Savings		Saves up to 80% of Lost Heat
"Winter" Capacity (55°, 70% RH ambient)		305,502 BTU/hr.
"Summer" Capacity (55°, 70% RH ambient)		116,568 BTU/ hr.
Intake/Exhaust Fan HP (@ 1,800 RPM)		6 HP total with VFD
Static Pressure (@ 5,000 CFM)		2"
Venting BF Capacity	**Slow Drying Hardwoods**	60 MBF
	Mid-Grade Hardwoods	40 MBF
	Fast Drying Softwoods	20 MBF
Power Requirements		480 V three phase, 30A



Spray System

Nyle introduces an Atomizing Spray System designed to introduce humidity into the kiln chamber air.

Throughout a kiln drying cycle, vents & dehumidification systems are utilized to extract moisture from the chamber, facilitating the removal of moisture from the wood. The objective is to achieve a specific relative humidity or wet-bulb depression for proper wood drying in each load. Rapid moisture removal can potentially compromise the quality of the drying wood.

Nyle's Atomizing Spray System also serves the purpose of wood conditioning, where moisture is reintroduced to the wood surface at the end of the drying process to alleviate stresses caused by drying. The High-Pressure Spray System increases the wet bulb, maintains temperature, and reduces the need for a boiler, as well as the associated requirements for boiler chemicals and make-up water.

Starting at
$8,500

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	480 V three phase, 60 Hz, 15 A

Pallet & Firewood

Heat Treating Systems

Nyle introduces a versatile, efficient, and user-friendly PFT-800 Heat-Treating System. Whether handling pallets or firewood, a Nyle Heat Treater is adaptable to various applications. The units boast an innovative and flexible design, facilitating easy modification and expansion to meet changing regulations or specific needs.

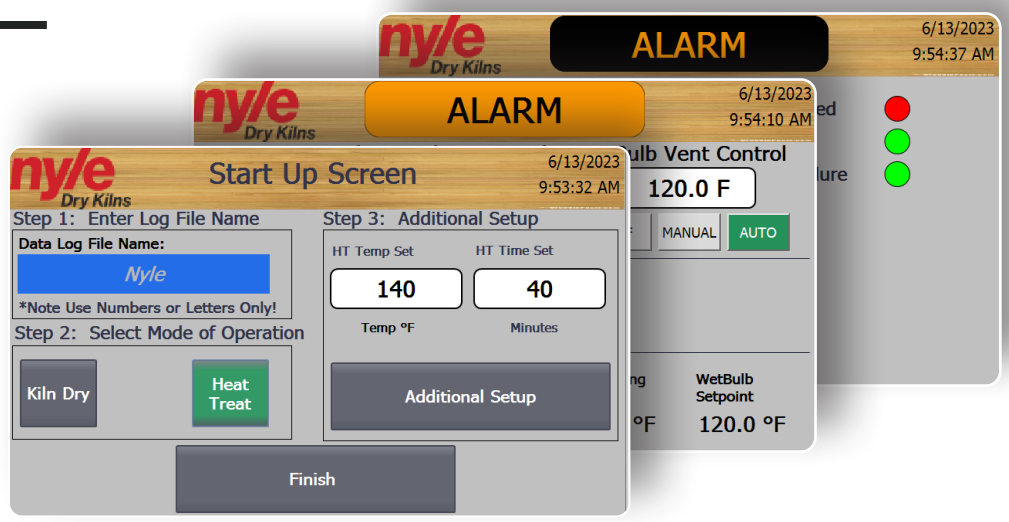
Fabricated from a 40' refrigerated shipping container, the PFT-800 provides all the essentials for initiating heat treatment. Our systems are equipped with indirect gas-fired furnaces that utilize natural gas or propane, offering high-temperature heat treating and extended drying capabilities without the need for a boiler. Nyle's systems are not only safer and more efficient but also crafted from the highest quality materials, ensuring your time is focused on revenue generation rather than repairs.

Starting at
$79,995

Specifications

Load Capacity		350 Pallets / 6-8 Cords
Max Temperature		180° F
Drying Time	**Summer**	Drying: 2 - 3 Days / Heat Treating: 2 - 4 Hours
	Winter	Drying: 3 - 5 Days / Heat Treating: 3 - 6 Hours
BTUh		800,000
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



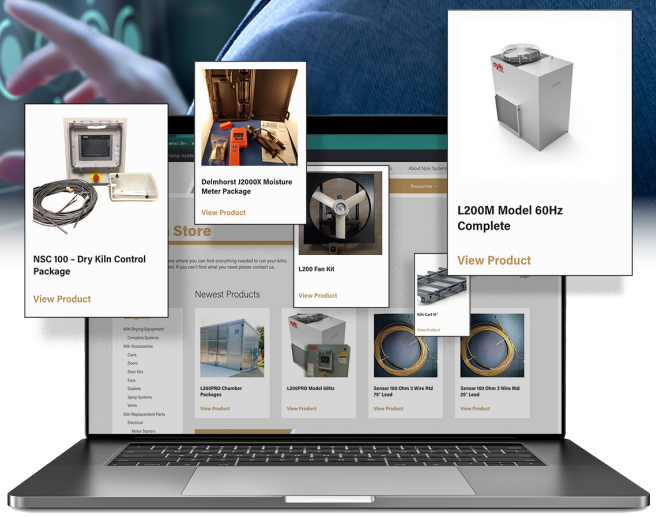
Our PFT-800 Heat-Treating control system furnishes the necessary tools to guarantee precise and efficient heat treatment in every cycle.

This control system provides comprehensive control over set points and climate throughout the cycle, automatically shutting off the equipment upon the completion of heat treatment.

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

KilnStore

Online Marketplace for Parts



When you purchase a kiln from Nyle, you not only acquire the kiln itself but also gain access to our renowned customer support, recognized as the best in the business.

Everything necessary to operate your kilns is available at Nyle's Kiln Store, including parts, supplies, & equipment for customizing and modifying your kiln, even if it's not manufactured by Nyle.

If you're seeking something not listed, feel free to give us a call, as we are delighted to assist you with many more products not featured in our kiln store.

Looking for Kiln Parts?

- Kiln Drying Equipment
- Carts
- Doors
- Door Kits
- Fans
- Gaskets
- Spray Systems
- Vents
- Kiln Replacement Parts
- Electrical
- Motor Starters
- Gas Heaters
- Electric Heaters
- Belts
- Blower Wheels
- Distributor
- Filters
- Replacement Coils
- Valves
- Motor Accessories
- Controls
- Moisture Meters
- Moisture Probes
- Cables
- Sensors
- Sleeves
- Wicks

Visit The Kiln Store

KilnServices

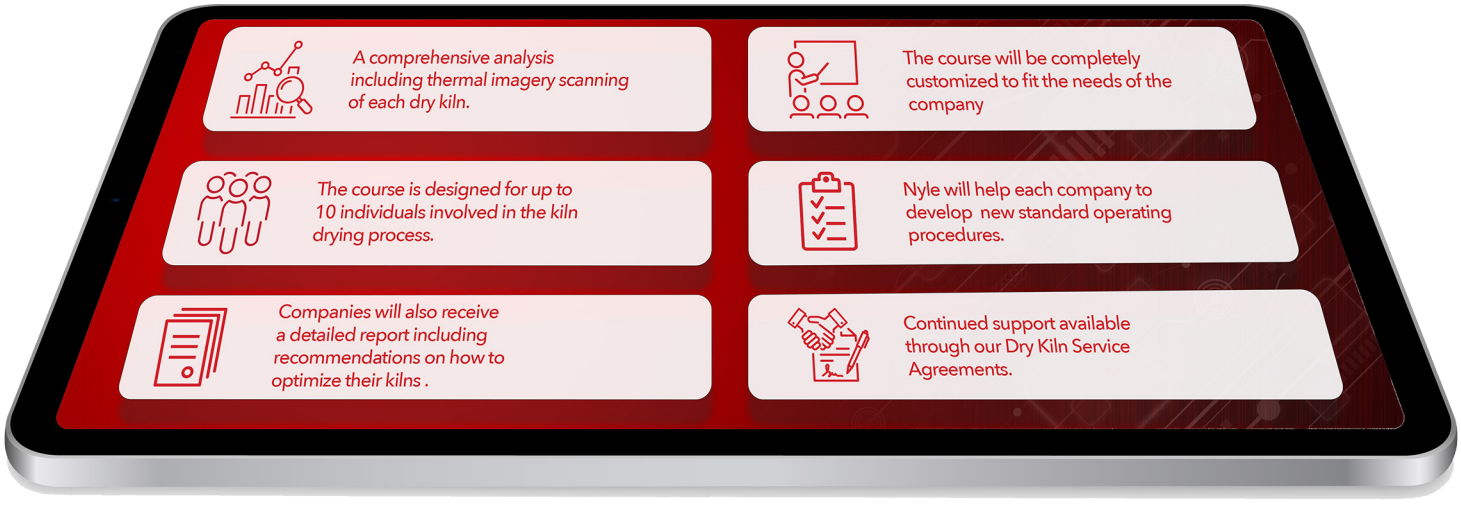
Complete Kiln Service Program

Nyle's Kiln Services is a multi-faceted program for sawmills that combines a full kiln audit with customized expert training, continued support, and advanced services designed to maximize each kiln to the highest efficiency rate and lowest operation cost.

We believe that all companies want to improve and can improve but don't always have a way to make it happen.

Nyle is ready to help and up for the challenge.

What's Included



Notes

Notes

Contact Us

Address:	12 Stevens Road Brewer, Maine 04412
Phone	(800) 777-6953
E-mail:	kilnsales@nyle.com
Website:	www.nyledrykilns.com