nyle Dry Kilns

# Dry Kiln & Equipment Catalog

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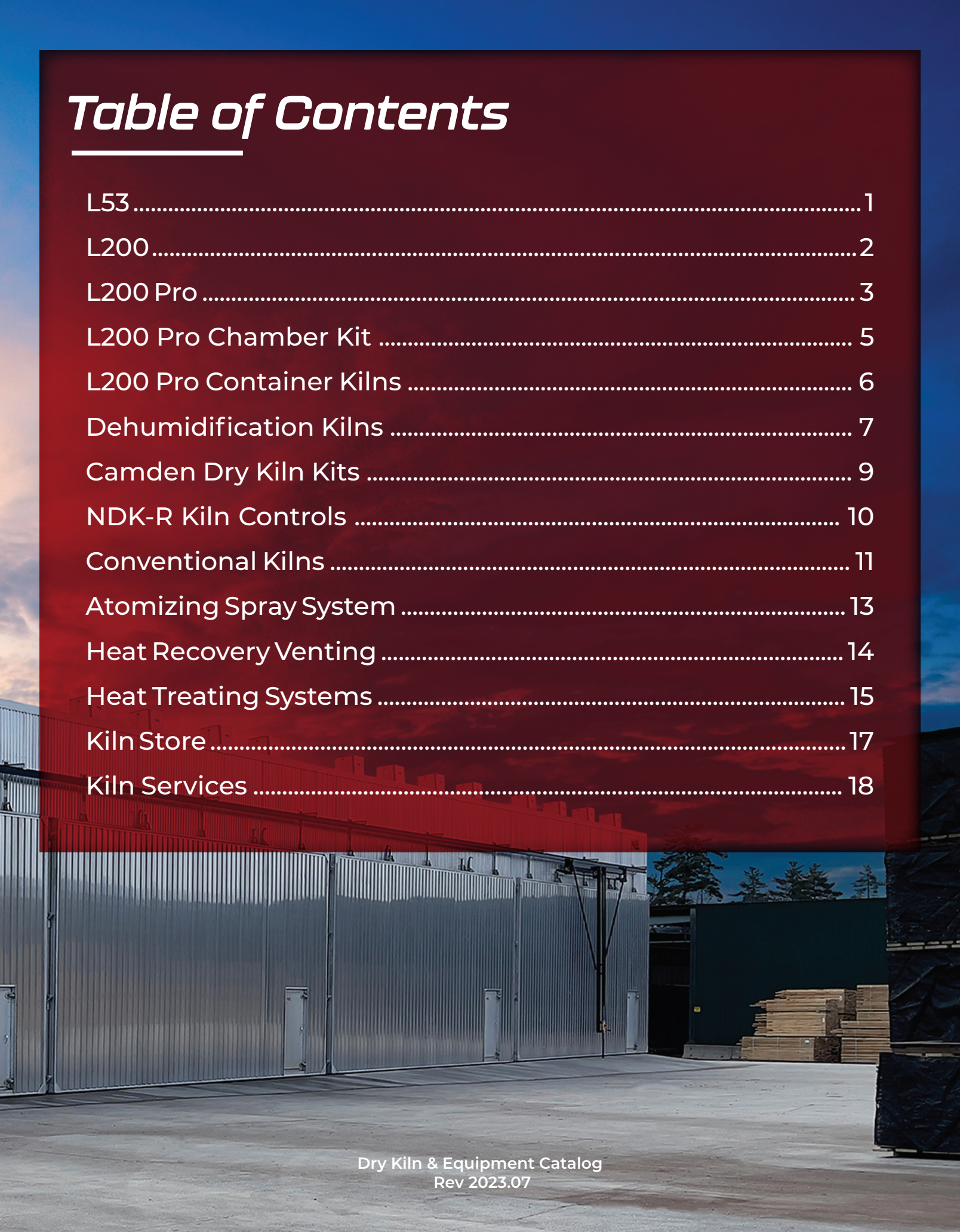


Dry Kiln & Equipment Catalog
Rev 2023.07

# L-53

*Low-Temp Dehumidification Kiln*


With the L53, you can achieve superior quality drying without breaking the bank. This compact and high-performance dehumidification system can dry between 300 and 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.

*Starting at*
**$4,495**

## Specifications

| | |
|---|---|
| **Load Capacity** | For softwoods and fast-drying hardwoods (Pine or Poplar) 300 - 400 BF<br>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.<br>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, 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 ½” x 22” x 14 ½” (base unit only) |

MADE IN USA

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# 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 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.

*Starting at*
**$7,995**

## Specifications

| | |
|---|---|
| **Load Capacity** | For softwoods and fast-drying hardwoods (Pine or Poplar) 1,500 - 2,000 BF<br>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.<br>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

# L-200PRO

*Low-Temp Dehumidification Kiln*


For those seeking the pinnacle of performance, the L200Pro is the perfect choice. Revolutionizing low-temperature, small kilns with its advanced technology and drying control, the L200Pro features four different operation modes, including traditional DH, Hybrid DH, Heat Treating, and Dump Cycle. Its advanced controller has an electronic dry bulb and wet bulb sensor, enabling data logging, scheduling, and remote access capabilities. With circulating fans, control, and a powered vent kit, the L200Pro ensures unparalleled drying efficiency and control.

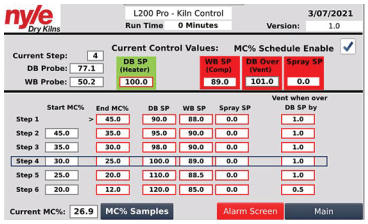
*Starting at*
**$14,995**

## Specifications

| | L200Pro - 4 | L200Pro - 8 |
|---|---|---|
| **Load Capacity** | For softwoods and fast-drying hardwoods (Pine or Poplar) 1,500 - 2,000 BF<br>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.<br>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,<br>Dedicated 100A Required. | 240V, 60 Hz,<br>Dedicated 125A Required. |
| **Shipping Weight** | 500 lbs. | 660 lbs. |

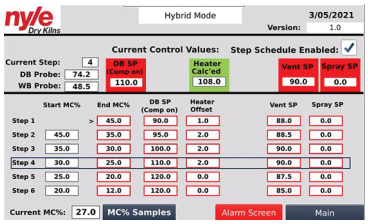
# L200Pro Control

## Four Modes of Operation



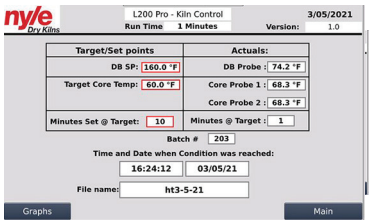

### DH Mode

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



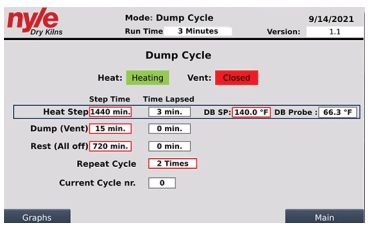

### Hybrid Mode

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




### Heat Treat Mode

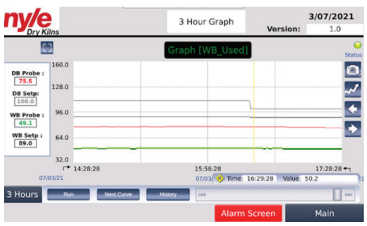
In this mode, the kiln stops automatically when the target temperature (settable) is reached and maintained for the required time (settable).




### Dump Cycle Mode

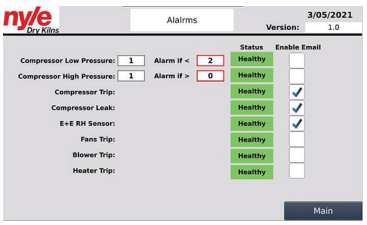
This mode will run a time-based Heat, dump, rest cycle with multiple repeats to get thick slabs down from 15% to 8% or less.


## 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.

MADE IN USA

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# 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 DH Unit, control, four circulating fans, a 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 DH Unit, control, circulating fans, powered vent kit(s), and a container.

## Specifications

*Starting at*
**$49,995**

| | | |
|---|---|---|
| **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, 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.

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

*Starting at*
**$165,995**

## Specifications

| | 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 | |
| **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<br>Dedicated 70 A Required. | 480V / 3Φ / 60 Hz<br>Dedicated 70 A Required. | 480V / 3Φ / 60 Hz<br>Dedicated 150 A Required. |

*Camden-15 also available in a gas version.

# NDKR

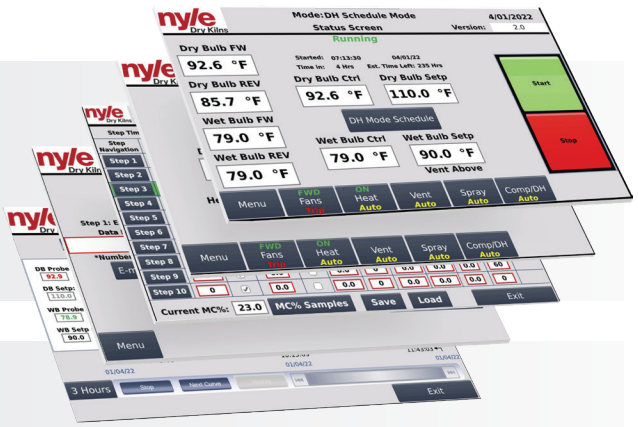
*Kiln Control Package*


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.

The NDKR platform builds off of our years of experience controlling kilns and supports the following control modes to allow kiln operators to choose the preferred drying method on a per species basis:

*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

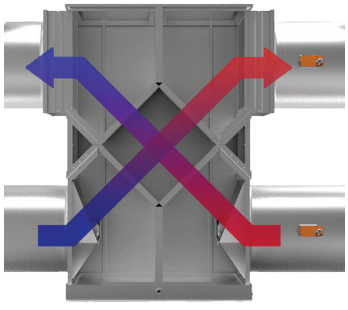
This mode is more suitable for faster-drying species. In this mode, the kiln is controlled more according to traditional/conventional drying practices while using a dehumidifier.

# Conventional

*Kiln Packages*

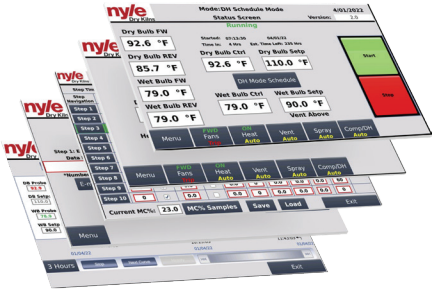
Our conventional kilns can operate up to 250°F (120°C) and provide quality and economical options for those living in an area with high electric costs or needing a higher heat output. These systems are available in forklift or track kiln constructions and utilize precision controls and heat recovery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


## Specifications



### Heat Recovery Vent

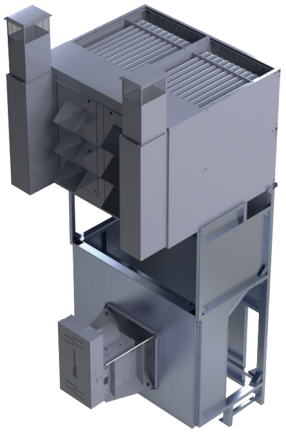
Our High-Temperature kilns come equipped with our heat recovery venting system. Our HRV System offers a means to reclaim a portion of this lost heat. This process utilizes energy that would otherwise be wasted and minimizes the need for “reheating” while reducing fuel consumption by 15-20%!



### Precision Controls

Nyle has taken our 45 years of experience in the industry and created a control system that transforms how operators interact with their equipment. We set out two goals: increase productivity and make the control easy to use.

# Flexible Heating Options

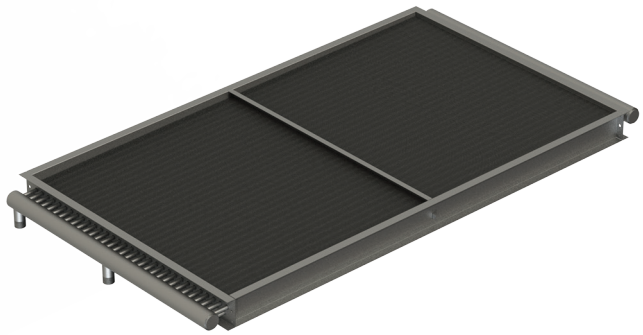


## Indirect- fired Gas

Our indirect-fired gas burners are a low-cost economical alternative in areas with high electricity costs. Although a little more expensive, we only use indirect-fired systems for their higher safety rating and level of quality control.

## Steam & Hot Water

Nyle's specially designed steam and hot water coils are vital in effectively regulating temperature within a kiln. While simply installing fin tubes and pipes may suffice, it doesn't ensure optimal performance. Recognizing this, Nyle has collaborated exclusively with a trusted coil provider to create durable coils tailored to the lumber industry, guaranteeing long-lasting functionality.



## High Temperature Kilns

Our High Temp track kilns are perfect for drying your Southern Yellow Pine, Poles, and timbers. This system’s 250° operating capacity allows you to dry in as little as three days with top-quality results. Our High Temp systems offer turn-key installation with continued support from our legendary service department.

# HRV

*Heat Recovery Vent*


Nyle's focus has always been to support all Kiln owners and improve efficiency and productivity in lumber drying.

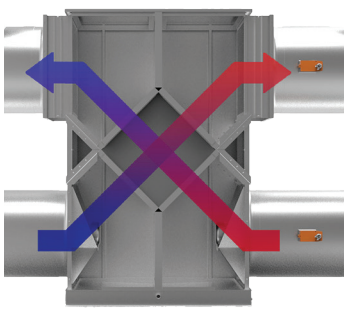
Heat loss through venting is one of the most notable downfalls of a conventional kiln. With venting necessary to remove the excess moisture, you are stuck with a considerable energy expenditure. This heat expenditure can significantly decrease efficiency, increase energy costs, and cause degradation.

Our dynamic heat exchangers help recover energy lost during the drying process by transferring a large portion of the outgoing vented air's energy to the incoming air. This process utilizes the energy that would otherwise be wasted, minimizing the need for "reheating" and reducing overall fuel consumption by a minimum of 15%.

## Specifications

*Starting at*
**$26,995**

| | | |
|---|---|---|
| **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 has created an Atomizing Spray System, which adds humidity to the air inside a kiln chamber.

During a kiln drying cycle, vents and dehumidification systems are used to remove moisture from a kiln chamber, allowing the moisture from the wood to be removed.

A specific relative humidity or wet-bulb depression is always trying to be accomplished to dry each load of wood properly. If moisture in a chamber is removed too quickly, it can deteriorate a load of wood being dried.

Another reason for Nyle's Atomizing Spray System is for wood conditioning. During wood conditioning, moisture is added back to the surface of the wood at the end of the drying process to help reduce any stresses in the wood from the drying process.

The High-Pressure Spray System increases the wet bulb and maintains temperature while reducing the demand for a boiler, as well as the need 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 has developed a Heat-Treating System that is adaptable, efficient, and easy to operate. A Nyle Heat Treater can handle anything from pallets to firewood wood. These units' innovative, flexible design makes modification and expansion easy when regulations or your needs change.

The chambers are fabricated from a 40' refrigerated shipping container containing everything you need to start heat treating. All our systems are outfitted with our indirect gas-fired furnaces burning natural gas or propane for high-temperature heat treating and/or extended drying capabilities. Our designs are safer, more efficient, and don't require a boiler.

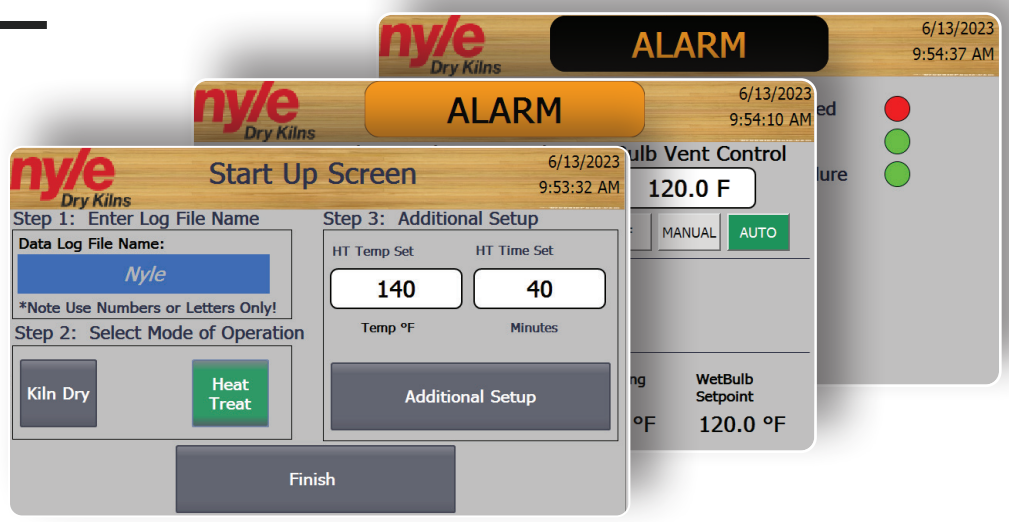
Nyle offers systems manufactured with the highest quality materials to ensure that your time is spent making money, not repairs.

*Starting at*
**$73,995**

## 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



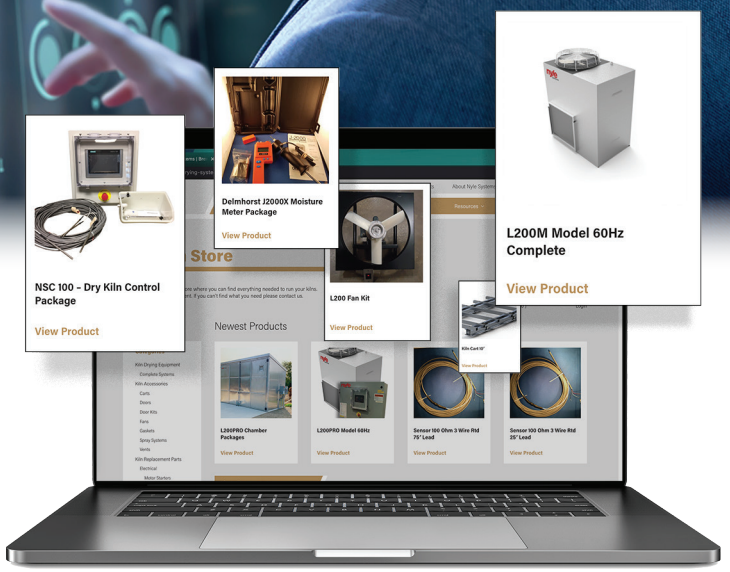

Our Heat-Treating control system provides the tools to ensure proper and efficient heat treatment every cycle.

The control system allows complete control over the set points and 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.

# KilnStore

*Online Marketplace for Parts*




When you buy a kiln from Nyle, you are not only getting the kiln, but you are also receiving the famed Nyle Customer Support, which is rated to be the best in the business. You can find everything needed to run your kilns at Nyle's Kiln Store. Parts, supplies, and equipment to customize and modify your kiln, even if Nyle does not make it.

If there is something you are looking for that is not listed, give us a call. We would happily assist you as we offer many more products not listed 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

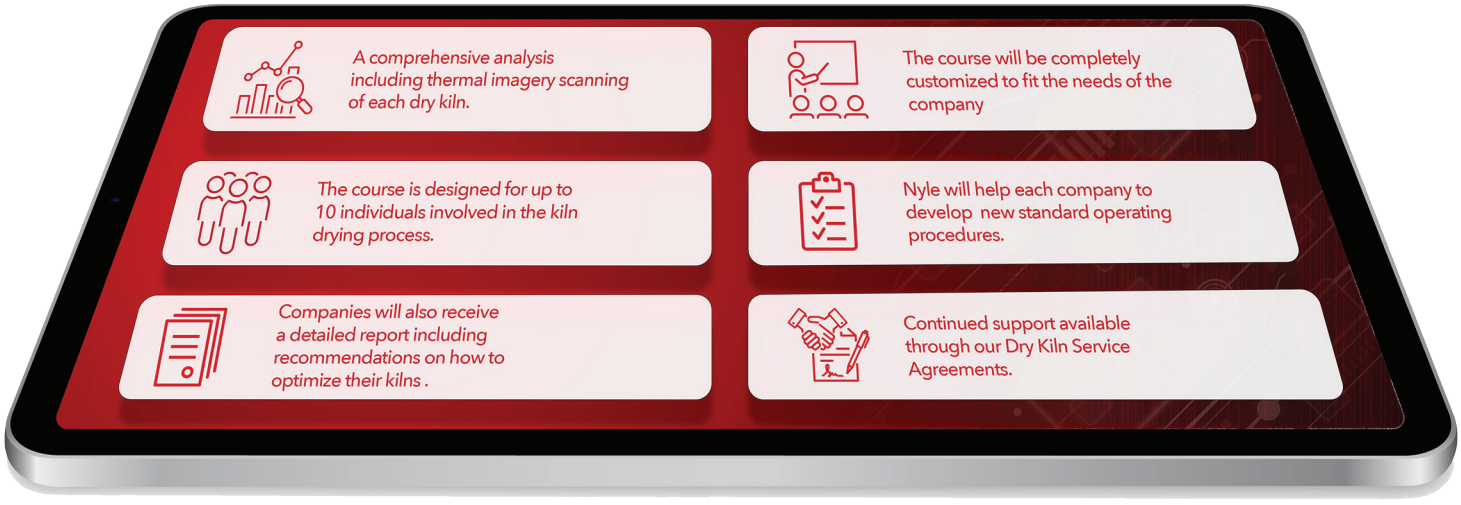
# KilnServices

*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

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## Contact Us


| | |
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