

Add a final dimension to your business!

MODULAR KILN SYSTEM

The overall dimensions of a WMDK 20' container kiln are:

Dimensions	External	Internal
Length	20' (6.09 m)	19'4" (5.89 m)
Width	8' (2.43 m)	7'8" (2.35 m)
Height	8'6" (2.59 m)	7'10" (2.38 m)

Weight 5291 lbs. (2400 kg)

Recommended Minimum and Maximum Internal Dimensions of a Self build container kiln:

Dimensions	Minimum	Maximum
Length	9' (2.7 m)	40' (12.2 m)
Width	7'6" (2.3 m)	9'6" (2.9 m)
Height	7'10" (2.2 m)	8'10" (2.5 m)

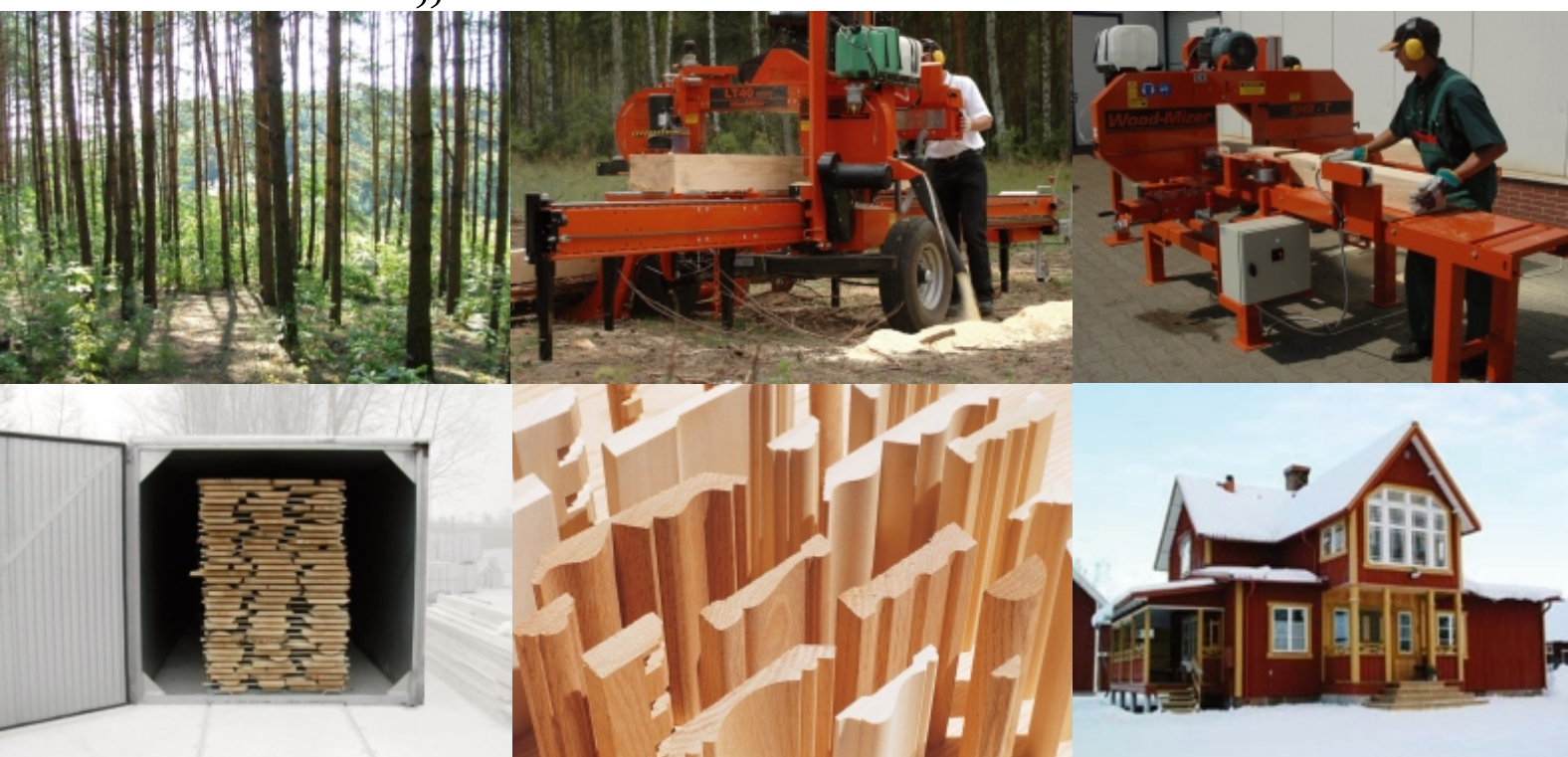
Self build chambers can be constructed using 2" x 4" timber frame with 4" „closed cell” panel insulation and clad both inside and outside with exterior grade ply.
Full load capacity for a 20' chamber is approx. 6,7 m³ of 25 mm boards and approx. 8,25 m³ of 50 mm boards.
Maximum Timber Pack Dimensions are listed below.

• Length 5,80 m

• Width 1,25 m

• Height 1,70 m

„From forest to final form”



WMDK – Modular Kiln System

Kiln Components



Drying your timber is the first and crucial step in the process of adding value to your sawmilling operation. True to our policy of making things simple, we have developed a modular kiln kit for kiln capacities from 4 to 20 m³. The package consists of everything that you need to successfully dry load after load of high quality timber. You can install the modules in standard insulated containers, or you can build your own chamber to the length that best suits your own specialized requirements.

The drying process is based on the well-proven heat/vent system of drying but we have removed all of the complicated computer controlled systems that force a drying schedule onto the load being dried. Wood-Mizer recognizes that, like people, every log and every board has different characteristics, and so the Wood-Mizer drying system responds to the needs of each individual kiln charge with easy to understand and operate schedules requiring only five minutes of your time per day.

The potential customer base for green boards is restricted, by drying your boards you add significant value to the raw material, but most importantly you greatly increase your potential customer base. You can then go on to provide your local market with finished elements such as flooring or trim as you add Wood-Mizer secondary processing equipment to your portfolio.

The WMDK series is designed especially to meet the needs of lumber processors, furniture manufacturers, home builders, and hobbyists whose day-to-day quantity requirements may not be high, but yet must still have high-quality kiln-dried lumber meeting both domestic as well as international standards.

All of our WMDK kilns are designed with the following features in mind:

- Easy to Install
- Moveable
- Easy to Operate
- Versatile
- Economical

To make the installation as simple as possible, we have designed the kiln in such a way that no special technical skills will be required to install or operate it. All the components that require welding and special tools for assembly have been put together at the factory.

Control Assembly



Electrical requirements

Number of Fan Modules	Total current consumption for 2kW	Total current consumption for 4kW
2	10 A	20 A
3	14 A	27 A
4	17 A	34 A
5	20 A	41 A
6	25 A	50 A

The Control assembly includes the electrical control box, thermostat thermocouple, and a Wet/Dry Bulb thermometer. The control box is preassembled and all connections are clearly marked.

Modular Fan Assembly



Standard power specification

Power Consumption (one module)	2.3 kW/h
Total Power Requirement	9,5 kW/h
Voltage Requirement	3x400V 50Hz
Operating Temperatures	0°C - 70°C (32°F - 160°F)

The Fan assembly comes in standard 1200 mm sections, performed, preassembled and pre-wired. The assembly includes two 3ph 400V 50Hz AC, high performance circulation fans, heating elements (either 2kW of 4kW) with individual safety cut-out switches, cable tray, plenum baffle and wiring.

Exhaust Assembly



Electrical requirements

Exhaust fan power	145 W
Voltage requirements	3 x 400V 50 Hz

The Exhaust assembly includes the rugged 220V AC exhaust fan, fan mounting module and exhaust control valve.

Track Assembly



Each Track assembly includes one modular loading cart, and the track elements required for a 1200 mm section of track.