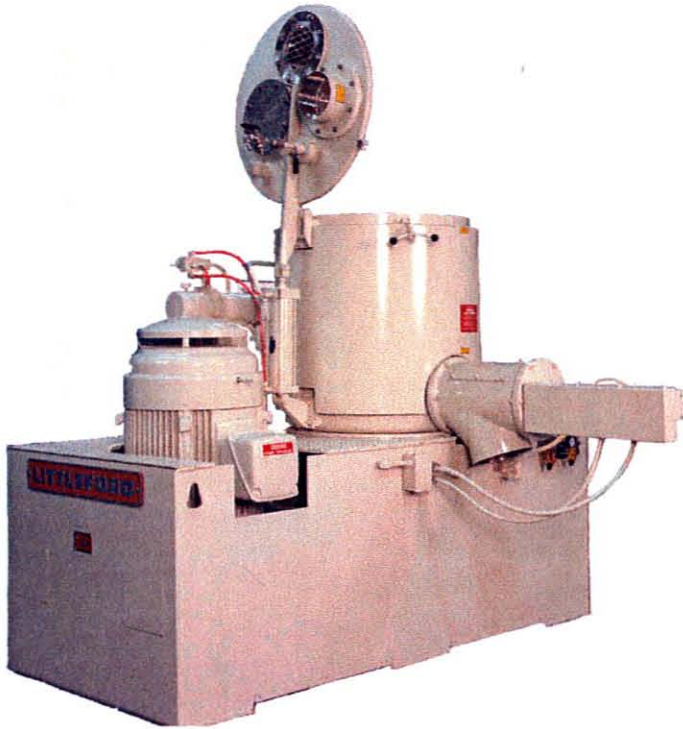


NEW PROCESSING TECHNOLOGY FOR DRYING OF WOOD FLOUR (avoiding dust explosion risks from open flames)

W High Intensity Mixer



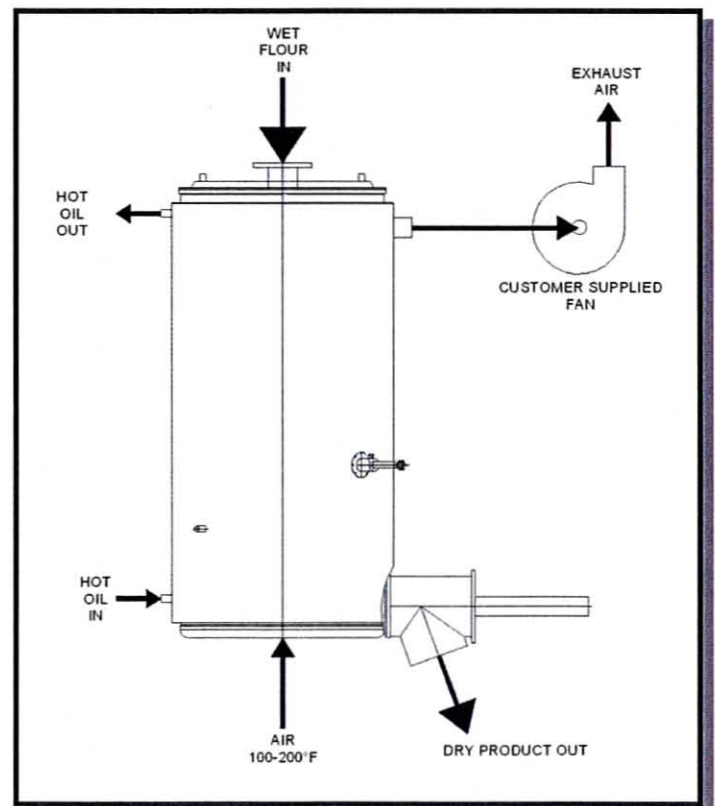
Littleford Day has developed a new process technology for the drying of wood flour. Because of the hygroscopic nature of the wood flour, materials can be received from suppliers with a moisture level as high as 10%. This high moisture content is not acceptable for most Thermoplastic and Thermoset extrusion and molding compounds.

The Littleford Day "W" Series of High Intensity Mixers utilize a highly efficient method of removing excess water from wet wood flours by using the heat energy from the intensive mixing action combined with the heat transfer from the heated vessel walls. The moisture laden wood flour gives up its moisture under agitation with the aid of a dry air purge under a slight negative pressure within the vessel. Removal of the water is performed on a batch basis, taking approximately 10 minutes to reduce the moisture level from 8% to less than 1% on most wood flour types. Moisture levels of 0.5% can also be achieved by extending the cycle. Based on these parameters, batch weights of up to 1000 pounds can be processed yielding a rate of up to 6000 pounds per hour.

Littleford Drying Technology provides the following major benefits:

- Eliminates a direct ignition source found in oven dryers
- Ability to process wood flour to consistent final moisture level regardless of the starting moisture level
- Ability to dry the wood flour to less than 1% moisture
- Increased throughput capabilities.

Batch volumes of 0.25 to 50 cubic feet can be processed on standard size machines. The operating parameters of time, temperature and kilowatt-hours are monitored and programmed to accurately control the final moisture level desired. A post mixing operation can be combined with the drying operation to allow the addition of resins, fillers and other dry additives as well as the injection and dispersion of liquids into the batch.



Standard Sizes for W High Intensity Mixers

Model No.	Working Cap. Cu. Ft. ¹	Cap. of Wood Flour Lbs. ²	Processing Cap. Lbs/Hr ³
W-10	0.28	4.2	25
W-200	6	85	510
W-400	11	170	1020
W-600	17	250	1500
W-1200	34	500	3000
W-1500	42	640	3840
W-2000	56	850	5100
W-2400	68	1000	6000

Note 1: Capacity based on 75% fill level
 Note 2: Based on wood flour density of 15 pounds per cubic foot
 Note 3: Based on 6 batches per hour

Littleford Day offers an advanced Process Development and Testing Center at its headquarters in Florence, Kentucky. The center is staffed by engineers, chemists and technologists who have the expertise to understand the specific processing requirements in a wide range of industries, and can develop solutions to meet customer needs.

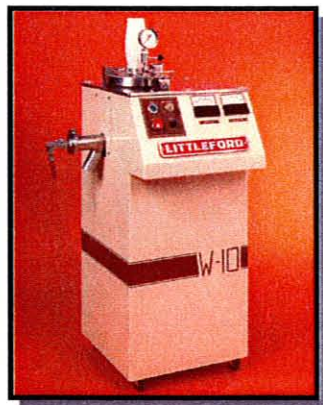
We ask customers to bring their wood flour to our facility and put our claims to the "test".

Equipment available at the Test Center includes 10 liter and 200 liter high intensity mixers.

Littleford Day recommends a minimum of one full day for the typical test program. The testing program allows the customer to observe the drying procedure and discuss scale-up issues. A confidential, detailed test report is also provided so customers can analyze the results of their test program.

This proven Littleford Day technology has been applied to numerous complex and difficult applications in the Composite and Plastic Industries. The Littleford Day High Intensity Mixer can be purchased in a variety of sizes to meet most production requirements. Littleford Day can interface its system controls with existing equipment or supply fully automated process control systems.

**W-10
High
Intensity
Laboratory
Mixer**



For a free brochure or a detailed discussion about a rental unit, or a thorough lab evaluation, contact us at:

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 7451 Empire Drive, P.O. Box 128
 Florence KY 41022-0128
 Phone (800) 365-8555 or (859) 525-7600
 Fax (859) 525-1446

E-mail: sales@littleford.com

Littleford Day
Where Processing Ideas Become Reality

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