

## CF9200 Clean Film Specifications



4000 Foot  
Model CF9200

### Cleaning

Ultrasonic cavitation followed by high pressure low volume drying.

### Buffing

Removable, adjustable submerged rotary buffing system provides additional cleaning action.

### Cleaning Agent

3M Novex™ Engineered Fluid HFE-8200.

### Venting

Venting is not required. Film cleaning room requires 8X air exchanges.

### Film Capacity

4000 feet (1219 meters), 16mm, Super 16mm and 35mm.

6000 feet (1829 meters) Model 9206 is also available.

### Film Speed

80-230 FPM (24-70 Meters/Min) using the Capstan (Soft Touch) Drive.

50-200 FPM (15-61 Meters/Min) using the Optional Sprocket Drive.

### Transport

Microprocessor controlled transport featuring one way clutch on take up reel for easy threading.

### Distillation Time

Less than 2 hours, once weekly, depending on solvent condition.

### Power

208-240v, 60 Hz, single phase, 35 amps.  
Export version 50 Hz.

### Weight

950 lbs. (500 kg) Net.  
Approximately 1250 lbs. (610 kg) crated.

### Dimensions

44"W x 33"D x 77"H  
(base 112 x 84cm, height 196cm).

### Options

Models for 8mm, Super-8mm, 65mm and 70mm film. Full 2-year spares kit.

### Upgrade Your Existing Lipsner-Smith Film Cleaning Machine

Because of its unique properties, it is not practical to use Novex HFE-8200 in film cleaning machines designed for chlorinated solvents. There may be material incompatibilities, inadequate ultrasonic and cleaning arrangements and unnecessary levels of solvent losses.

However, certain existing Lipsner-Smith Film Cleaning Machines are candidates for upgrading and retrofitting to work with HFE-8200. Contact us for details.

Specifications are subject to change without notice.

## The New CF9200 Ultrasonic Film Cleaner

### A Tradition of Quality



More Economical, Quieter and with Greater Cleaning Power than Ever – Yet Without Using Chlorinated Solvents

**Lipsner Smith**

In U.S. and Canada 800-323-7520

### Corporate Headquarters

4700 Chase Ave., Lincolnwood, IL 60712-1689 USA  
Phone: 800-323-7520 or 847-677-3000  
Fax: 800-784-6733 or 847-677-1311  
E-mail: sales@lipsner.com  
Web Page: www.lipsner.com

### European Office

6 Swan Wharf, Waterloo Road, Uxbridge UB8, 2RA England  
Phone: 44 (0) 7000-478485  
Fax: 44 (0) 1895-274692  
E-mail: inbox@rtiuk.co.uk



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Lipsner Smith CF9200

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## Lipsner-Smith: A Tradition of Quality

**Lipsner-Smith's Time Proven Design Continues to be Further Developed to Produce the New CF9200**

**New Solvent Reclamation Design Provides Drastically Reduced Operating Costs and Many Additional Benefits:**



New Chiller provides enhanced solvent recovery

### Now Get Up To 50% More Feet of Film Cleaned With Each Gallon of Fluid

A new chiller replaces the older compressor-type refrigeration system and provides greatly enhanced solvent recovery over previous models. You will save tens of thousands of dollars on cleaning fluid costs.

Reduced Maintenance and Repair Costs. The new CF9200 design is simpler and more trouble-free.

### Adjustable Buffer System Improves Cleaning Performance.

This new enhancement to Lipsner-Smith film cleaning technology has been proven to substantially improve solvent cleaning performance. The user can now increase or decrease buffer pressure to suit particular requirements or individual types of cleaning work.



In addition, the new CF9200 incorporates a multi-cartridge solvent filtering system, stainless steel solvent and vapor lines, and refined cabinet and door sealing to reduce vapor loss and decrease running costs.



User adjustable ultrasonic generator

### Newly Enhanced User Adjustable Ultrasonics for More Powerful Cleaning.

The CF9200 incorporates the latest version of powerful ultrasonic generators. It's also user adjustable – an industry first!

Operates at a higher frequency of 40 KHz and produces more cleaning power with 50% more ultrasonic transducers. More powerful cleaning action with the same important film safety built in.

## Whisper Quiet Operation!



Shown above...the 6000 Foot Capacity Model CF9206 which is also available for use with HFE-8200 or perchloroethylene solvents

### Whisper-Quiet Operation.

The newly re-engineered CF9200 replaces the noisy refrigeration compressor for solvent recovery with a sealed chiller system that is quiet and vibration-free. Now the finest film cleaning system is suitable for use in noise-sensitive office environments as well as in film labs and archives.

### Clean Film Without Perchloroethylene

Lipsner-Smith has designed the CF-9200 Film Cleaning System to allow use of one of the world's most advanced cleaning liquids, 3M Novec Engineered Fluid HFE-8200.

HFE-8200 has many properties that make it ideal for use with motion picture film.

The new CF9200 has been especially designed for use with HFE-8200. Together they achieve

dramatically improved solvent performance and enhanced cleaning ability. As a result, you realize safe, cost effective and high performance cleaning, without the handling issues of chlorinated solvents.

HFE-8200 and the CF9200 improved cleaning machine design allows a top speed of 230 fpm (66m/min), more than double the speed of previous perchloroethylene based models.

**3M Novec<sup>™</sup> Engineered Fluid HFE-8200**

3M<sup>™</sup> Novec<sup>™</sup> Engineered Fluid HFE-8200 is a clear colorless and low-odor fluid intended to replace 1,1,1-trichloroethane and perchloroethylene in film cleaning applications. This proprietary fluid has zero ozone depletion potential, is not a volatile organic compound (VOC) and is listed as a Clean Air Solvent by the California's South Coast Air Quality Management District. The low surface

ension and increased solvency of Novec fluid HFE-8200, coupled with its chemical and thermal stability, nonflammability, and excellent compatibility with film substrates make it an ideal film cleaning solvent. When used in Lipsner-Smith's CF-8200 and upgraded equipment, cleaning results comparable to perchloroethylene and 1,1,1-trichloroethane can be achieved.

Lipsner-Smith CF 9200