

## How to perform a consumption test Lipsner Smith CF9200

### Checks

1. Make sure that the solvent is clean by reclaiming and check that the front tank is full.
2. Check that the chiller is operating correctly and is set to around **34° F**
3. Check the air temperature it should be around **175° F** adjusted by the air heater coil
4. Check the air pressure this should read between **7-9 PSI** adjusted on the air compressor
5. Check the solvent temperature it should be between **90-110° F** adjusted in the rear of the cleaning tank
6. There is **no** solvent pressure on HFE machines.
7. Clean the air knives
8. Check for any loose nuts split pipes or signs of HFE leakage
9. Change the air and solvent filters

Put a set of scales under the solvent barrel and tape the wire and pipe secure, as this movement will change the test results.

Now let the machine settle for half an hour.

Thread up the machine with **2000ft** of film and run at **150ft** per min making sure that you observe the time delays in opening the doors

Now run the machine 10 times to get an average consumption

Start weight = 100 lb.	Weight at end of run = 99.75 lb.	Consumption = .25 lb
Start weight = 99.75 lb	Weight at end of run = 99.50 lb.	Consumption = .25 lb
Start weight = 99.5 lb.	Weight at end of run = 99.22 lb.	Consumption = .28 lb
Total Runs = 3		Total Consumption = .78 lb

And so on until you have run the complete test (the more runs results in more accurate data).

Then get an average amount of fluid used for this length of film.

For this test the average was .78 lb divided by 3 runs = .26 lb per 2000 ft roll of film.

**NB: 12 = 12lb is the same as 1 US gallon**

12 divided by .26 lb = 46.15

**46.15 X 2000 = 92300 ft per US Gallon**

If an adjustment is needed, look at drawing LNA9917. Mark the top of the air knife pointer on the right air knife (11) with a scribe loosen the airknife screw and adjust this airknife up, slightly retighten and carry out the above test again. If the consumption changes for the worse put this airknife back to the original position and try the left.

To get great consumption there is a balance of the airflow angle of these air knives.

The “optimum” speed to clean film is 150 fpm.

Longer rolls such as 4000 ft will reduce the amount of fluid used, shorter rolls will increase the fluid used.