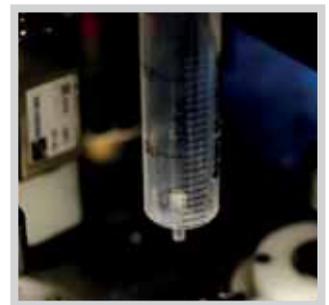
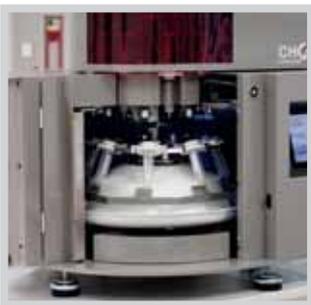


Quick installation and first test



INSTALLING YOUR SRC-CHOPIN

A. Contents



SRC-CHOPIN

Scale



Tube with encoded cap (x16)



Spring-loaded syringe with central outlet



Flour scoop holder



Flour scoop



USB stick with software



Power cable for scale



Power cable



RS232 serial cable



Set of 4 identification cards



Stoppers (x2)

B. Unpacking



Keep the packaging, as the unit must be repacked when transported.



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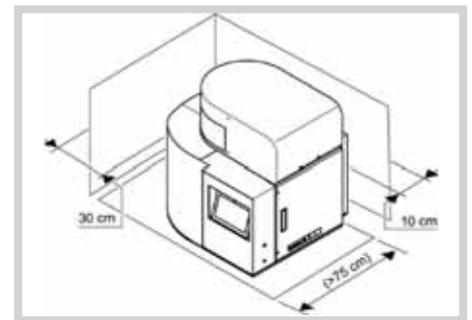
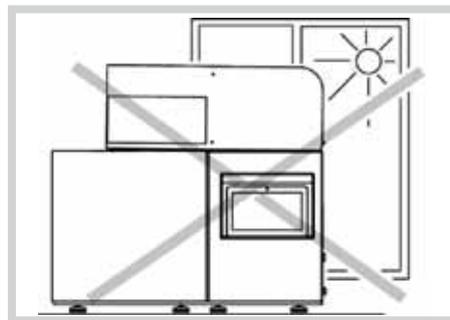
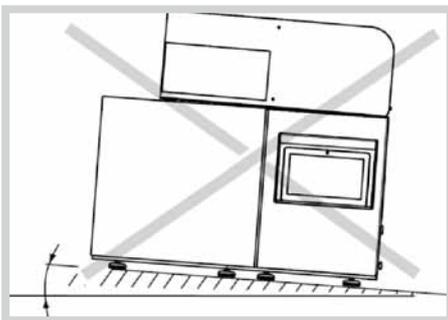


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C. Installation



We recommend that the SRC-CHOPIN be installed by an authorized CHOPIN Technologies technician.



Install the unit on a flat and sturdy laboratory bench with a minimum depth of 750 mm.

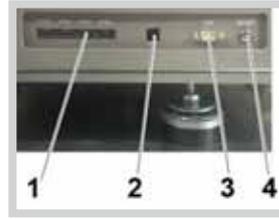
Do not place the SRC-CHOPIN in front of a windows, it is very important that the device is not in direct sunlight. Leave a space of approximately 10 cm around the unit for easy handling and to ensure that it is well ventilated.

Once the unit has been installed, use a small quantity of water to ensure that there is an adequate flow into the drain pan. Place the scale on a separate bench to prevent the vibrations of the SRC-CHOPIN from causing false measurements.

D. Connecting the unit

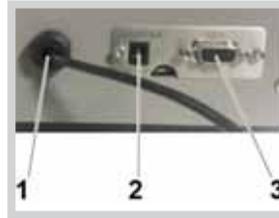
Connectivity on the SRC-CHOPIN:

- 1 4 USB ports (the left-hand port is for the scale)
- 2 Ethernet port
- 3 RS232 serial port
- 4 12V power connection for the scale



Connectivity on the scale:

- 1 USB cable
- 2 12V power connection
- 3 RS232 serial cable

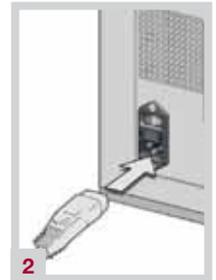


1. Connect the SRC-CHOPIN to the scale using:
 - The USB cable (connect to the left-hand port of the SRC-CHOPIN)
 - The 12V power cable supplied
 - The RS232 serial cable supplied



Do not connect the scale to an external 12V power supply as this may cause damage.

2. Connect the SRC-CHOPIN using the power cable supplied.
3. Switch the unit on using the I/O switch located at the rear.



USING THE SRC-CHOPIN

A. Powering up

Switching on



Do not connect a USB stick to the unit before switching on.

1. Switch the unit on by pressing the start button located on the right hand side.
2. The device initializes and the main screen is displayed.
3. The device calibrates itself. Ensure that each element has initialized correctly ("Robotic Channel 1 to 6," "Variator OK", "Scale OK", "Reader OK").



If calibration does not complete correctly, restart the device.

Starting a session

1. Place the badge with "flash-code" in front of the integrated scanner on the CHOPIN scale.
2. Press simultaneously on the "flash-code" icon on the main screen.
3. The user ID associated with the badge will be displayed and the unit is ready to use.

To close the session, press once again on the "flash-code" icon without presenting the badge.



PERFORM A FIRST TEST

A. Test preparation

Preparing the tubes

1. Prepare the correct number of tubes for the test to be performed.
2. Ensure that the flanges and stoppers are clean and dry.
3. Put together lower and upper magnetic caps.
It is highly recommended that the upper and lower caps have corresponding numbers.
4. Screw the caps onto the tubes.

Use tubes that are identical to those supplied with the unit.
VWR – Ref: 430290



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Preparing the syringes

1. Prepare the correct number of spring-loaded syringes required for the test to be performed. The syringes must be clean and dry before preparation.
2. Prepare the solvents.
3. Place the following solvents into the syringe: distilled water 27 ml; sucrose 23 ml; lactic acid 27 ml and sodium carbonate 26 ml.
4. Wipe the tip of each syringe after filling.

Use only syringes that are identical to those supplied with the unit.
VWR - Ref 5300.X00D0



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B. Entering test information

1. Press **Test** to launch the test.
2. Press **New** to start a new test.
3. Specify the various solvents, the number of different types of flour and the number of tubes. Press **Ok**.
4. Enter the name of the flour and then press **Ok**. Enter the moisture content of the flour, then press **Ok**.
5. A test summary will appear.
6. Select one or more tube numbers and enter the desired comment in the text box, then press **Ok**.



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Description of the weighing screen

- 1 Animation shown as the flour is fed through
- 2 Indicator showing the position of the tube in the unit
- 3 Tube ID number

Tare weight (empty tube + flange + cap)

1. Close the lid of the scale and wait until measurement has stabilized (the value shown in **green** followed by the unit given in “g”).

If the weight is not equal to 0.000 g, reset the scale to the tare weight by pressing the relevant button.



2. Place the first empty tube on the scale. Close the lid.



3. Wait until the measurement has stabilized and then press the button.

4. Repeat steps 1 to 3 for each tube. Before positioning each tube, check that the tare weight is correctly displayed as zero; if this is not the case, complete the tare process once again. Press [OK].



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Weighing flour samples

1. Place the flour weighing tool on the scale. Close the lid. Wait until value has stabilized and tare the scale by pressing the button.



2. Weigh out 5 g of flour ± 0.05 g on the scale. The value is shown directly on the screen of the unit.

3. Add the flour to the tube and close it using the appropriate stopper.

4. Repeat steps 2 and 3 once for each tubes, taking care to use a sufficient amount of flour for each tube.



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5. Remove the flour weighing tool from the scale. Close the lid. Wait for the weight to stabilize and tare the scale by pressing the button.



6. Place one of the tubes containing the flour on the scale. Press the button.

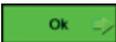


7. The scale will automatically recognize the tube ID. Ensure that the flour weight falls within the range of 4.95 to 5.05 g.



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8. Repeat the measurement process with each tube used in the test. Before putting each tube in position, ensure that the “zero” value is also accurate. If it is not, complete a new tare operation.

9. Once all the tubes have been scanned, press .

10. The process of weighing the samples is complete; press on  to launch the test.

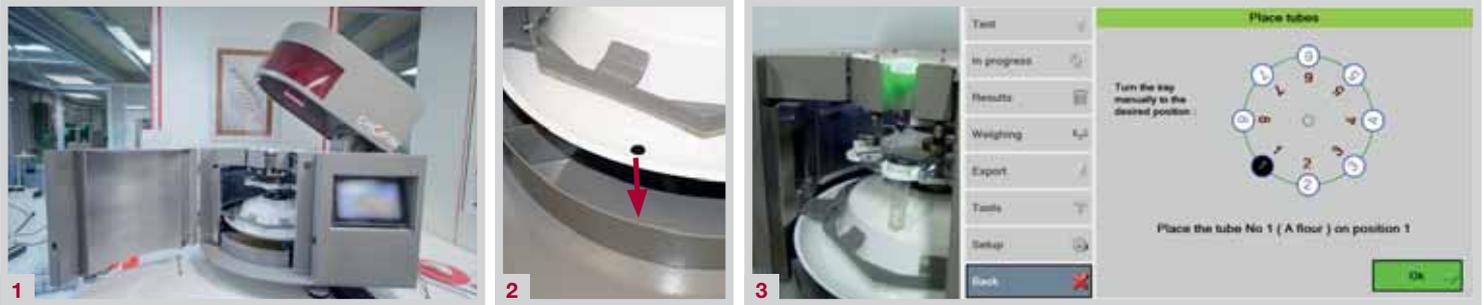
The door and the lid will open automatically.

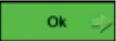


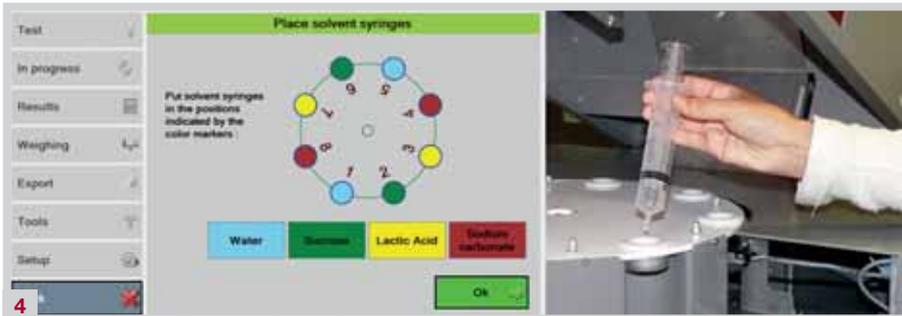
10

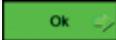
D. Starting the test

1. Open the door and the upper lid fully.
2. Check that the drain ring outlet is located above the solvent recovery tank.
3. Put each tube into position as shown on the screen. A green light flashes on the screen to help position each tube on the device. After each tube is put into position, press .



4. Move each solvent syringe into place by following the diagram shown on the screen.
5. Close the upper lid and the door.
6. Press  to start the test.



7. On the screen, users can monitor the test as it is performed and see how much time is left until the end of the test.
8. Once the test has finished, the screen shown opposite will appear:
Open the door and remove the tubes.
Press .



E. Final weighing and results

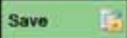
1. Close the scale lid and wait until it has stabilized.
2. Tare the scale by pressing the button .
3. Place the first tube onto the scale and close the lid. .
4. Wait until the weight displayed has stabilized and press .
5. Repeat the process for each tube. Before each test is installed, check that the "zero" is correct; otherwise, re-tare the scales.
6. Press .
7. The results are calculated and displayed automatically.



F. Exporting results

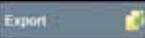
Saving a test

To save one or more SRC-CHOPIN test results:

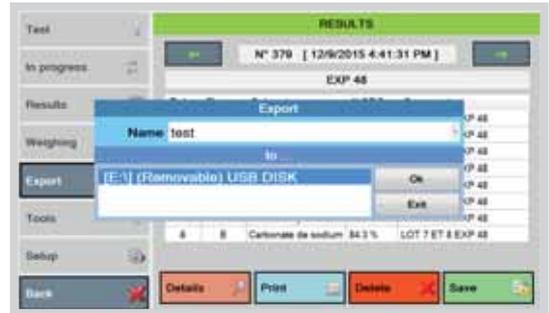
1. Go to the menu  and select a test.
2. Click on .
3. Name the file where the results are to be saved, then click on .



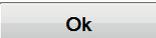
Exporting a test

1. Insert a USB stick.
2. Go to the  menu.
3. Select the test to be exported.
4. Give the file a name.
5. Select the USB stick, then click OK.

An "SRC csv" folder is automatically created and the results are exported as CSV file.



G. Printing the results

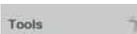
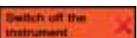
1. Press .
2. Select the printer to be used (a network printer if an Ethernet cable is connected; otherwise a local printer if connected to one of the USB ports on the unit).
3. Press .

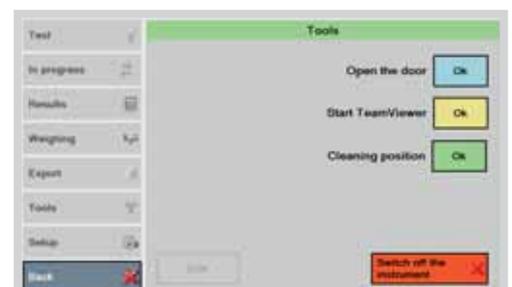
H. Cleaning process after each test

1. Separate the magnetic caps from the tubes.
2. Carefully clean the caps with a damp cloth (do not soak the cloth in water).
3. Dry them fully using a dry cloth.
4. Remove the syringes and rinse them in distilled water.
5. Clean the top of the drain ring using a damp cloth.
6. Consider blocking the drain ring inlet with the stopper provided for this purpose and don't forget to remove it once the task is complete.



SWITCHING THE DEVICE OFF

1. Go to the menu  press  and confirm.
2. Wait until the computer has shut down completely.
3. Press the start button located on the right hand side of the unit.
4. Press the I/O button located on the back of the unit.





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