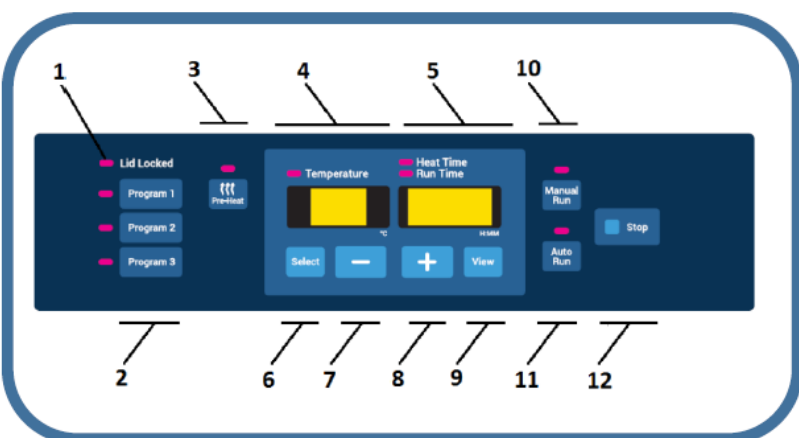


SpeedVac™ DNA130

Vacuum Concentrator



SpeedVac™DNA130
The Thermo Scientific Savant DNA130 is a dedicated centrifugal vacuum concentration system for drying low volume **ethanol or isopropanol** of DNA and RNA. DNA130 SpeedVac™ combines centrifugal force with vacuum for efficient sample drying. The vacuum is supplied by an integrated **oil-free** vacuum pump with an automatic bleeder valve.

1. **Lid locked** - The indicator will be illuminated when locked.

2. **Program buttons** - Loading a program (three modifiable) is achieved by pressing the corresponding **Program** button. The following parameters are automatically loaded onto the screen:

- Temperature set point
- Heat time
- Run time

3. **Pre-Heat** - Use to pre-heat the chamber to 45°C prior to beginning a run or between runs. Once a run is initiated, the pre-heat automatically stops.

4. **Temperature display** - Indicates the set temperature or the actual temperature during a run in °C. The temperature set point can be set from 35°C to 65°C at a 5°C interval. In addition, it is possible to set the temperature to “no”, which means that heating will not be applied during the run. The “no” selection is available right after the 65°C selection (or just before the 35°C selection).

5. **Time display** - Indicates the heat timer or the run timer set points. During a run, it indicates the elapsed or remaining run time or the remaining heat time left. The range for these timers is from 0.01 [1 min.] to 9.59h at a 1-minute interval. In addition, it is possible to set the heat time to “CCC”, which represents a continuous heating throughout the execution of a run. The “CCC” selection is available right after the 9.59 selection or just before the 0.01

6. **Select** - Press this button to select the parameters to be modified.

Minus (“-”) - Decrements the value of the selected parameter.

Plus (“+”) - Increments the value of the selected parameter.

9. **View** - During a run, pressing **View** button shows the set run parameters. When no run is ongoing, pressing **View** displays the actual live parameters. The time display shows either “0.00” or the end status of the last executed run (e.g. “End”, “Err”).

Preset	Settings
Program 1	Temperature: “no” Heat time: 0.00 Run time: 0.25
Program 2	Temperature: “no” Heat time: 0.00 Run time: 0.45
Program 3	Temperature: “no” Heat time: 0.00 Run time: 1.00

- Manual run** - Starts a “Manual” run based on the parameters loaded on the screen. When executing a “Manual” run, the run parameters are used but the user is responsible to terminate the run by pressing the **Stop** button.
11. **Auto run** - Starts an “Automated” run based on the parameters loaded on the screen. When executing a “Automated” run, the run parameters are used and the unit will automatically terminate the run, without user interaction, as soon as the run time has expired.
12. **Stop** - Terminates a “Manual” or “Auto” run. Terminating a “Manual” or “Auto” run is achieved by pressing and releasing immediately the **Stop** button

Manual Run

1. Turn the power switch located on the front of the UNIT, to the **ON** position, (light on switch indicates **ON**). The cover lock disengages, allowing the top cover to be opened. The display lights up and shows the following in sequence:
- Name of the concentrator
 - Software revision number
 - Default values:
2. Select a run configuration using one of the following method:
- Load a program
 - Directly modify values that are loaded on the screen, using the **Select** button and the “+”/ “-” buttons.
3. Set the temperature set point between 35°C and 65°C, or “no”, for no heat.
4. Using the **Select** button and the “+”/ “-” buttons select and modify “
6. Select Run Time: Since this is a manual run no time adjustment is needed”.
7. Place sample tubes in rotor so load is balanced. Secure rotor with the supplied knob (hand tight). Close cover
8. Pre-heat may be selected at this time, to apply a 45°C heat to the chamber.
9. Press the Manual Run button. The cover locks. The rotor starts spinning. The temperature rises to the set temperature. The “Heat Time” will count down if set point is not set to “CCC” and if the temperature set point is not “no” The vacuum will be applied to the chamber and the level begins falling.
10. To end the manual run, press **Stop** button. The unit will sound three audible beeps. The display will show End, the valve will click.
11. After the rotor stops spinning, the cover lock disengages.
12. Open the cover and remove samples.
- GENERAL: To check set parameters, press the View button and the Select button. The display will revert temporarily to the set points for approximately 5 seconds.

Table 1. Audible Notifications

Event	Sound Description
Start-up	5 beeps
Starting a run (manual or automatic)	1 single beep
Manually stopping a manual or automatic run	3 beeps
Automatically stopping an automatic run	1 beep that is repeated until the user pushes the Stop button or opens the cover of the concentrator
Program saved	3 beeps
User input error	1 long beep that lasts for 1 second
System error	1 long beep that lasts for 1 second and that is repeated until the user pushes the Stop button or opens the cover of the concentrator



CAUTION:
List of Solvent and Solvent Combinations:

Solvent & Solvent Combination
Water
Ethanol and Water
PCR buffers (aqueous)
Isopropanol
Ammonium Hydroxide (NH4OH)

In the event that your choice of solvents and applications are unique and not listed above, please contact Thermo Scientific Customer Support for advice.

Auto Run

1. To execute an AUTOMATIC RUN, use the Select button and the “+”/ “-” buttons to select and modify the Temperature, “Heat Time and “Run Time” parameters.

The Run and Heat Time can be set from 0.01 to 9.59 hours (“CCC” for continuous use).

3. Place the sample tubes in the rotor (balanced). Secure the rotor with the supplied knob (hand tight).

Close the cover.

a. Press the Auto Run button to start the run. The cover locks. The rotor starts spinning. The run time display is counting down in 1 minute Intervals. The heat time is counting down if the set point is not set to “CCC” and if the temperature set point is not “no” (use the select button to view “Heat Time”). The temperature rises in 1°C increments to set temperature.

The vacuum is applied to the chamber .

Approximate Drying Times					
Solvent	Volume /Tubes	Number of tubes	Time to dryness at drying rate (minutes)		
			~35°C	~50°C	~65°C
Ethanol	0.5 ml	12 to 60	60 ±5	35 ±5	25 ±5