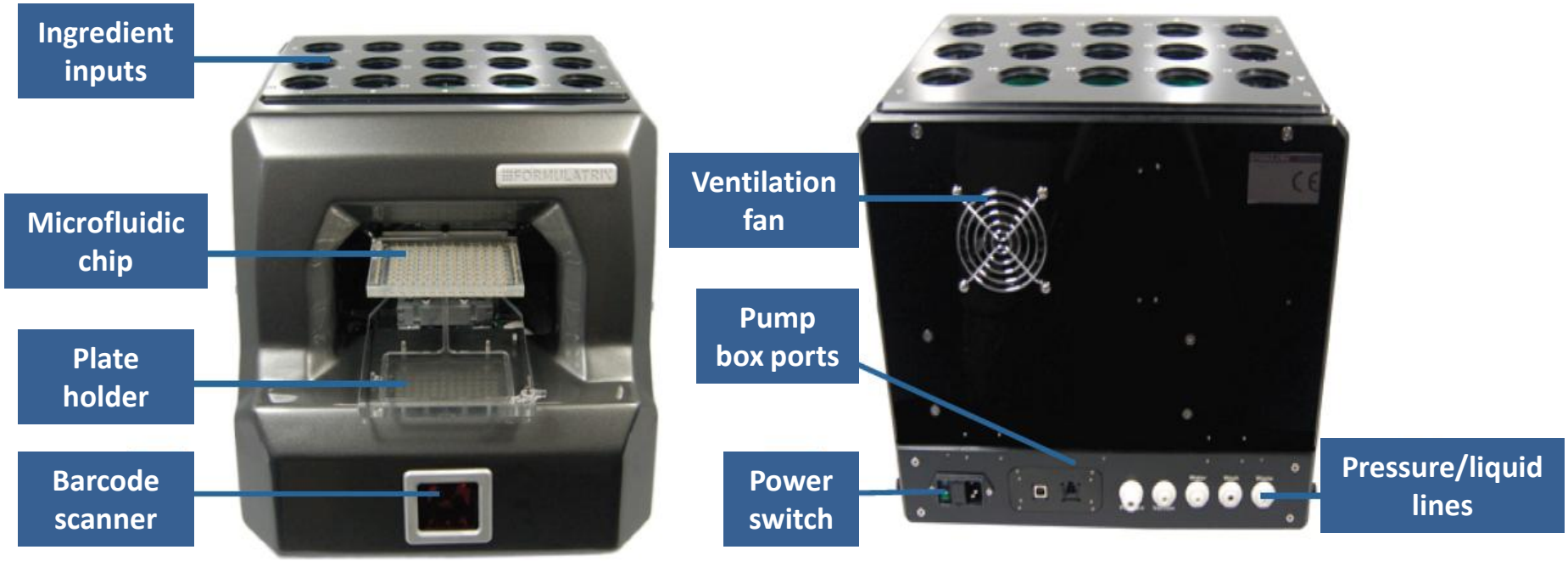
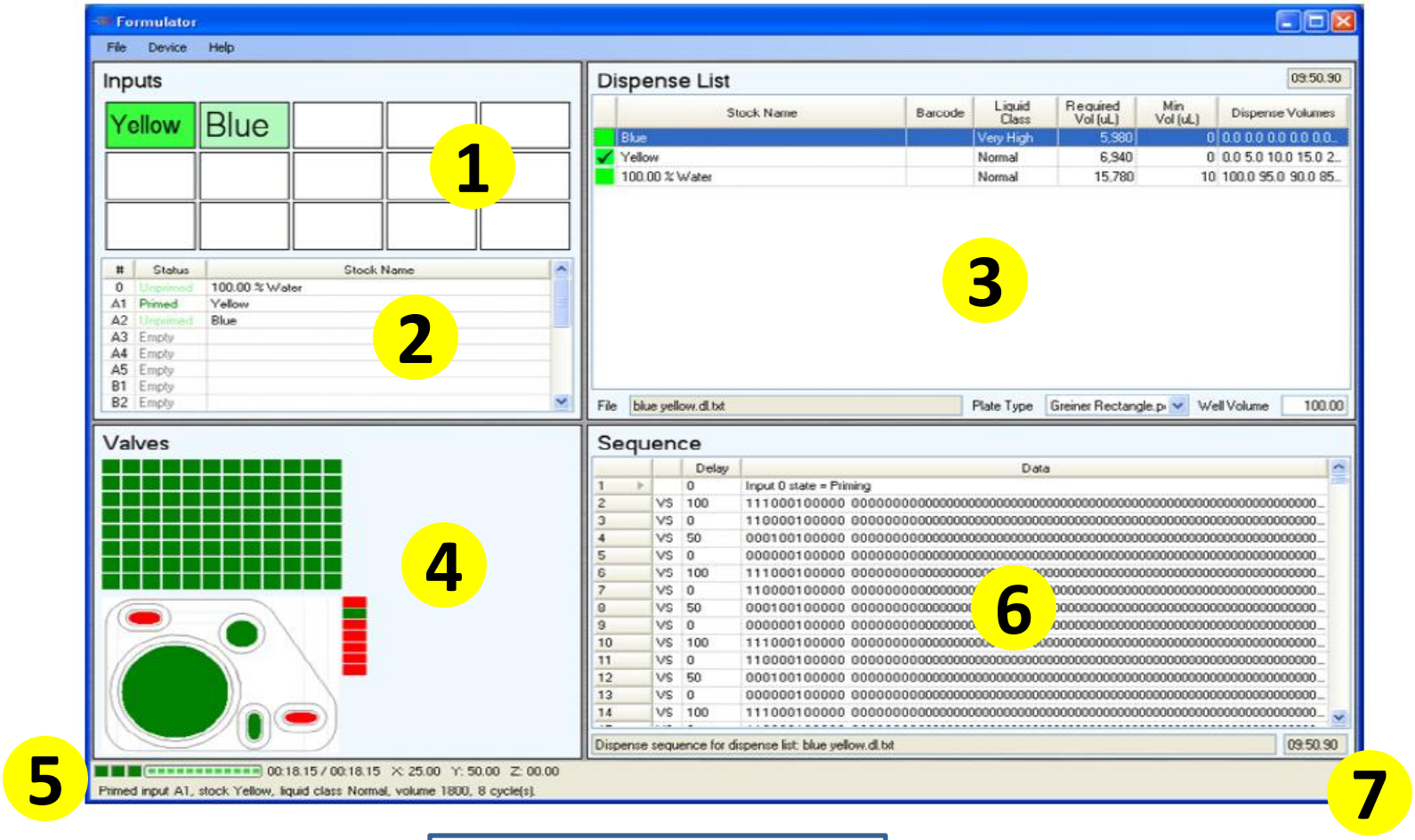
Formulator-16 Components



Liquid Class Guidelines

NORMAL - Almost all buffers, salt solutions, and other aqueous solutions
MEDIUM - Viscous solutions with viscosity at or below 50% PEG 4K
HIGH - Viscous solutions with viscosity at or below 50% PEG 10K
VERY HIGH - 100% Glycerol and 30% PEG 20K



Formulator Software

1 - Input Display
2 - Input Table
3 - Dispense List Panel
4 - Valves Panel
5 - Connection Indicators
6 - Sequence Panel
7 - Estimated Dispense Time

Inputs Colour Code

White	Empty input
Red	A bottle is present, but unrecognized
Light Green	Unprimed, but recognized
Green	Priming
Dark Green	Primed
Light Blue	Washing
Dark Blue	Washed, and ready to remove

Starting The Formulator

1. Machine check-up

Check the inputs are clean, water can is filled up and waste bin is empty

2. Turn on the Formulator

Flip the power switch located on the back-right side of the machine to the ON position

3. Start the software

Double-click on the Formulator icon on the desktop. It may take a few seconds for the Formulator to initialize and the software to load. The three connection indicators squares on the bottom-left corner of the software should be green when the Formulator is connected

Running a Dispense

1. Load a dispense list

If a dispense list is saved, go to File>Open>Dispense List. Otherwise, create a dispense list.

2. Place ingredient

Place in any open input (place your most viscous ingredient in and around the left corner). Drag the ingredient from the “Dispense List Table” to the corresponding input in the “Inputs Panel”.

3. Run dispense

Make sure the plate’s type matches the plate you are using in the dispense list. Place gently your plate on the hand, make sure it clicks into plate. Go to Device>Run (F5) to run dispense.

4. Remove bottles

Right-click on the corresponding input that you want to remove, then click on “wash selected” or “wash all”. Wait until the input turned dark blue before removing the bottles. Afterward, wipe the inputs.

Shutting Down The Formulator

1. Run the shut-down sequence

Go to File>Exit. Wait until shut-down sequence is Completed.

2. Close the software and turn off the Formulator

Close the software. Flip the power switch on the back of the machine to the OFF position.

3. Machine check-up

Make sure the inputs are cleaning, waste bin is empty and no liquid was spilled during the run.

TRAINING GIVEN BY THE HTX TEAM IS MANDATORY BEFORE FIRST USE

Tips and Tricks

1. Leakage

Check the caps are not leaking before placing them in the inputs. Check the inputs are not leaking while running a dispense.

2. Dispense list order

Sort the dispense list by viscosity (from very high to normal). Water should **always** be the last ingredient in the list.

3. Water for filling your plate

Place a bottle of water in the input in order to not use the water from the can for filling up your plate

Chemical Compatibility

DO NOT USE

- 2-ethoxyethanol
- Acetonitrile
- Acetone
- DMSO
- Dichloromethane
- Dioxane
- Non-polar liquids (oils and solvents like toluene, xylene, etc.)
- Phenol
- Tetrahydrofuran (THF)

Can use, but unsafe to leave in the microfluidic chip

- Alcohols (ethanol, isopropanol, etc.)

IF THERE IS ANY ISSUE WITH THE INSTRUMENT PLEASE CONTACT THE HTX TEAM IMMEDIATLY (CIBB 1st FLOOR OFFICE 118, PHONE -7853)

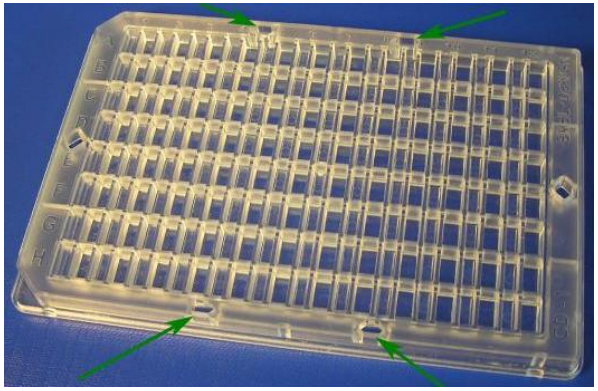
Plate Type

96-well Greiner CrystalQuickX

96-well IntelliPlate

24-well Linbro with grease hanging drops

96-well CrystalDirect EMBL



24-well Linbro sitting drops

96-well Greiner CrystalQuick