

## Detailed List of European ScreeningPort's ScreeningSystem Components

### Hotel Workstation (HW):

- Incubator: Cytomat 6000 (Kendro)
  - Can hold up to 189 plates at stable temperature RT +5°C. Can also be used with up to 20% CO<sub>2</sub>.
- Incubator: I30 (PerkinElmer)
  - Can hold up to 30 plates under controlled environmental conditions in terms of temperature, CO<sub>2</sub> and humidity
- Dispenser: Multidrop Combi (Thermo)
  - Dispenses 0.5µl up to 2,500µl with an accuracy of CV ≤ 5% (for 2µl) and needs only 5 seconds to fill a 384-well plate with 2µl.

### Compound Workstation (CW):

- Dry Storage: STX1000DC (Liconic)
  - Can hold up to 1000 plates at a temperature range from 4°C to 25°C and has an *active dehumidification, therefore the relative humidity can be adjusted to 4% to 50%.*
- Dry Storage: STX500DC (Liconic)
  - Can hold up to 500 plates at a temperature range from 4°C to 25°C and has an *active dehumidification, therefore the relative humidity can be adjusted to 4% to 50%.*
- *Touchless Liquid Transfer: Echo550 (Labcyte)*
  - *Dispenses 2.5nl up to 10,000nl with an accuracy of CV ≤ 8% (for 2.5nl) via ultrasonic and can transfer up to 640,000 single wells per day.*
- *Centrifuge: VSpin (Agilent/Velocity11)*
  - *Can spin plates with up to 3,000RPM and needs only 7.5 seconds to accelerate to maximal RPM*
- Incubator: I30 (PerkinElmer)
  - Can hold up to 30 plates under controlled environmental conditions in terms of temperature, CO<sub>2</sub> and humidity
- Dispenser: Multidrop Combi (Thermo)
  - Dispenses 0.5µl up to 2500µl with an accuracy of CV ≤ 5% (for 2µl) and needs only 5 seconds to fill a 384-Well plate with 2µl.

### **Opera Workstation (OW):**

- High Content Reader: Opera (PerkinElmer)
  - Takes confocal high content images in about 200ms and automatically analyses the pictures on the fly
- Dispenser: Janus MDT (PerkinElmer)
  - Will transfer as little as 2µl liquid from one 384-well plate to another in one single step.
- Dispenser: Janus Varispan (PerkinElmer)
  - Can transfer as little as 1µl liquid from plates or reservoirs with four tips at the same time. Also multi-dispensing after one aspirate is possible.

### **Reader Workstation (RW):**

- Plate Washer: ELx405 (BioTek)
  - Very gentle removing of cell medium from plates as well as washing adhered cells. Is also used for fully automated formaldehyde fixation of cells.
- Dispenser: FlexDrop (Perkin Elmer)
  - Accurate dispensing (CV ≤5% for 500nl) within the range of 200nl to 2ml. Can fill a 384-well plate with 10µl in as little as 30 seconds.
- Multi Function Reader: EnVision (PerkinElmer)
  - Will read Fluorescence Intensity, Fluorescence Polarization, Luminescence, Absorption, AlphaScreen.