

DIAGNOSTIC EQUIPMENT Immunoassay Test

An immunoassay test relies on biochemistry to measure the presence and/or concentration of an analyte. Scientists recently developed a blood test to detect COVID-19 as well as tests to determine antibodies. A variety of pumps are used in automated test environments to dose reagents, dispense bodily fluids, clean needles, and remove residues.

DIAGNOSIS

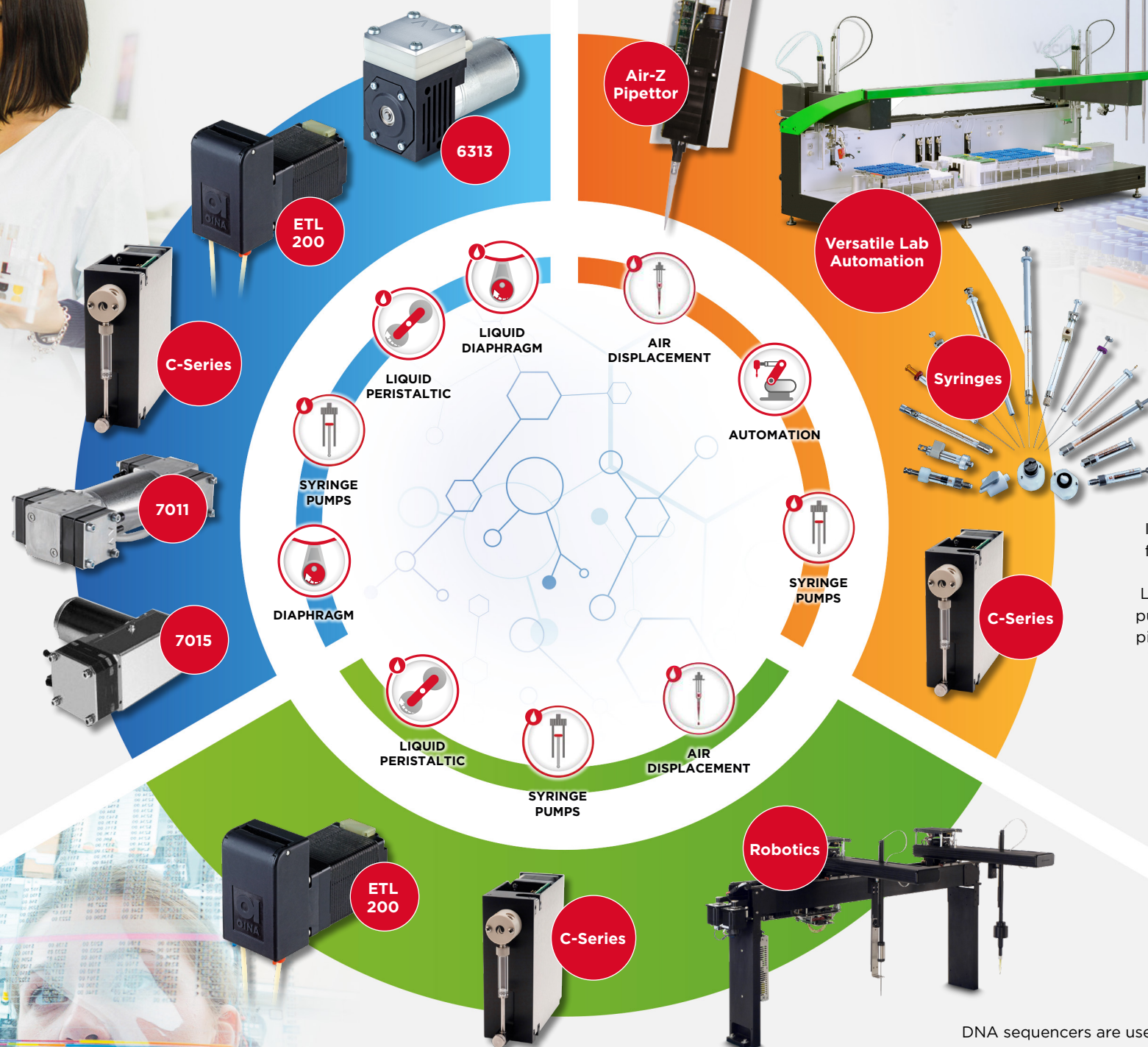
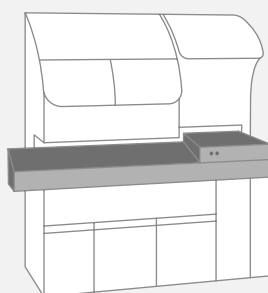
COVID-19 infection?

- Molecular lab test

PROGNOSIS

How severe is it?

- Immuno-chemistry lab tests
- Hematology Hemostasis lab tests
- Blood gas lab tests
- X-ray
- CT
- Ultrasound



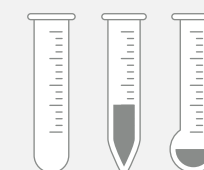
DNA SEQUENCERS Fluid Handling and Robotics

DNA sequencers are used for the genetic sequencing of a virus and its mutations which ultimately helps scientists to develop a vaccine. In addition, they are also used by microbiologists and virologists for epidemiological studies. For these applications, DNA sequencers require high-precision liquid handling pumps and robotics to provide higher throughput, reproducibility, and efficiency.

DIAGNOSTIC EQUIPMENT PCR Test Sample Preparation

In most cases when testing for a virus, a sample needs to be taken from a patient's nose or throat. After this procedure, the specimen (swab for example) is sent to a laboratory for further analysis. Liquid handling platforms with air displacement pumps and syringe pumps are used to prepare samples for the analysis by dispensing or pipetting the samples, reagents and solvents into racks. This process is required before a PCR (Polymerase Chain Reaction) test can be conducted to detect a virus.

SARS-COV-2 (CORONAVIRUS) DETECTION WORKFLOW



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