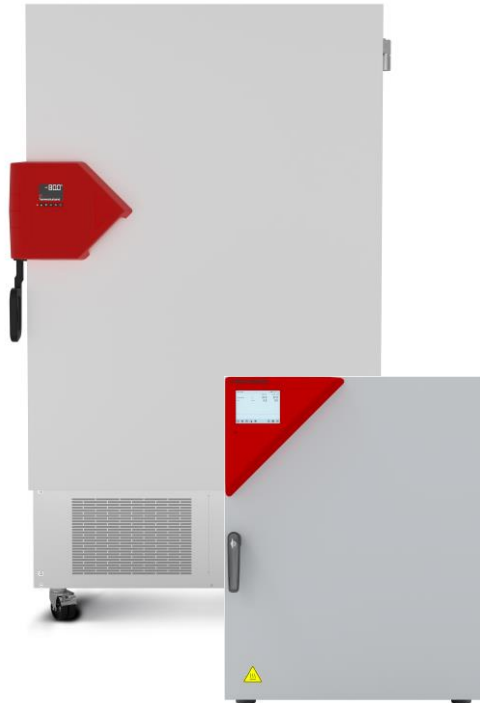# Supporting the research community worldwide

Applications for ULT freezers and CO_2 incubators in Corona virus research

**BINDER Academy
March 2020**

ULT Freezers and CO$_2$ incubators play a major roll in fighting COVID-19

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The novel Corona virus SARS-CoV-2 challenges researcher around the globe in their endeavor to find a cure against COVID-19. Reliable lab equipment is key and ULT freezers and CO$_2$ incubators are essential equipment in biosafety labs.

BINDER –86 °C ULT freezers with CO$_2$ back-up cooling for storage of virus isolates and CO$_2$ incubators with 180°C hot air sterilization routine for safely growing virus in cell culture are such units.

Recently Prof. Dr. Volker Thiel and his team from the Institute of Virology and Immunology in Switzerland created the first synthetic clone of SARS-CoV-2. BINDER UF V –86 °C freezers were used to store the isolates.

Source: https://www.facebook.com/srfnews/videos/207228617321381/?v=20722861732138

Relevant groups	**People to reach out to**	**Key words for ULT freezers**	**Key words for CO$_2$ incubators**
▪ Research Centers, institutes for genetics, virology & immunology	▪ Directors	▪ –90 °C to –40 °C	▪ 180 °C hot air sterilization routine
▪ Clinical research centers	▪ Senior researchers	▪ stainless steel interior	▪ stainless steel interior, fanless design
▪ Biotech companies	▪ Lab managers	▪ water cooled, reduces heat dissipation into biosafety lab	▪ 3 shelves with a usable area of approx. 0.9 m^2
▪ Universities	▪ Biosafety managers	▪ zero-voltage alarm for inhouse alarm system	▪ stackable
▪ Governmental facilities e.g. CDC, NIH	▪ Purchasing department	**Optional**	**Optional**
▪ Pharma companies	▪ Biosafety lab planners	▪ Electronic door lock	▪ gas tank changer
▪ NGOs		▪ CO$_2$ back-up cooling	▪ steam humidification
		▪ monitoring software in accordance to FDA 21 CFR Part 11	▪ Monitoring software in accordance to FDA 21 CFR Part 11

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