

SPECIAL COVID-19 TEMPERATURE PROGRAM for frozen passive boxes transported in an Opticooler

DoKaSch has developed a solution which extends the limited runtime of passive frozen boxes massively and reduces the amount of dry ice needed.

- An additional temperature program (P4) can maintain a temperature of **max. 5°C** (tolerance +3°C).
- The Opticooler is **not heating** in this program, and does only actively cooling down when the inside temperature goes above 5°C.
- The inside temperature can fall to a low level depending on the temperature of the frozen boxes inside the Opticooler. The Opticooler cannot maintain a specific minimum temperature in this program. The temperature inside the Opticooler can range from approx. -40°C to +5°C (+3°C)
- This guarantees a constant low temperature environment of below 5°C for passive frozen boxes loaded in an Opticooler. The air circulation system works permanently and ensures an equal temperature distribution inside the Opticooler.
- P4 is not an actively controlled temperature program, cannot be set to specific minus temperatures and cannot actively freeze! P4 is only for frozen freight and guarantees a maximum internal temperature. A coolant is needed to keep the cargo frozen.

This program is only applicable for passive frozen boxes! The coolant for these boxes can be dry ice, PCM or any other cool pack.

From January 2021 on, a certain number of Opticoolers will be available with program P4.

Dry Ice in general:

There are no specific dry ice limits for an Opticooler. Dry ice can be loaded into an Opticooler up to the maximum gross weight.

Due to a built-in overpressure valve at the top of the side wall, the evaporating CO₂ will regularly be blown into the environment, A/C, truck, once the pressure exceeds 0,2 bar.

It has been technically verified that the sublimation of dry ice does not lead to an overpressure inside the Opticooler.