

Disinfection of Internal Water Systems in KaVo Treatment Units

Dental Treatment Units:
ESTETICA E80, E70, 1065 & Primus 1058



Background

Dental Treatment Units should only be provided with drinking water according to national legal requirements. Even if the incoming water quality complies with these standards the Internal Water System of a Dental Treatment Unit is often highly-contaminated with pathogenic micro-organisms.

Internal Water System

The Internal Water System comprises all of the water tubes, filters and valves of the Treatment Unit, which eventually conduct cleansing and cooling water to the patients' oral cavity. This includes all instruments of the dentist's and assistance's elements, plus the tumbler filler.

KaVo permanent disinfection function¹

In the standard operating mode of the Treatment Unit - the permanent disinfection function provides automatic, low-dosing of the disinfectant solution Oxygenal (hydrogen peroxide - concentration 0.02%), to ensure continuous, effective control over levels of microbial contamination in the water system.

KaVo rinsing programs²

During the shortened rinsing program (01) all instruments of the dentist's and assistance's elements are flushed for 20 seconds. The rinsing program (02) provides automatic flushing of all instruments including tumbler filler, each with 2 minutes Oxygenal-containing water-flow (hydrogen peroxide-concentration 0.02%). Thereby microbial colonies, caused by stagnation, can be reduced significantly.

¹ DVGW water block is required

² Intensive disinfection kit is required for Primus 1058, not available for 1065



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Usage of rinsing program is recommended:

- At the beginning of the working day (rinsing program 02)
- After each patient (shortened rinsing program³ 01)

KaVo intensive disinfection program⁴

The intensive disinfection program prevents colonial infestation of micro-organisms during periods of stagnation and guarantees a totally hygienic water supply for patients. During the intensive disinfection program the water conducting tubes are automatically dosed with a 12-fold increased concentration of Oxygenal. The entire intensive disinfection program lasts a minimum of 45 minutes, with an increased hydrogen peroxide concentration in the water system for at least 30 of these minutes (dwell-time⁵). KaVo recommends starting the intensive disinfection just before the week end and letting it work over the full downtime period. The Treatment Unit can be switched-off at the beginning of the dwell-time. At the next start-up of the Treatment Unit, the device will be flushed automatically with a standard, low-level concentration of Oxygenal until all the high-level concentration is diluted.

Usage of intensive disinfection program is recommended:

- At initial start-up
- After downtimes
- Over the weekend
- Over holidays
- Before treatment of known immunocompromised patients
- After treatment of known high-risk patients



Please refer to the Care Instructions of the individual Treatment Units, for further detailed information

³ Only selectable for ESTETICA E80 and E70

⁴ Intensive disinfection kit is required for Primus 1058

⁵ Dwell-time is announced by optical and acoustical signals