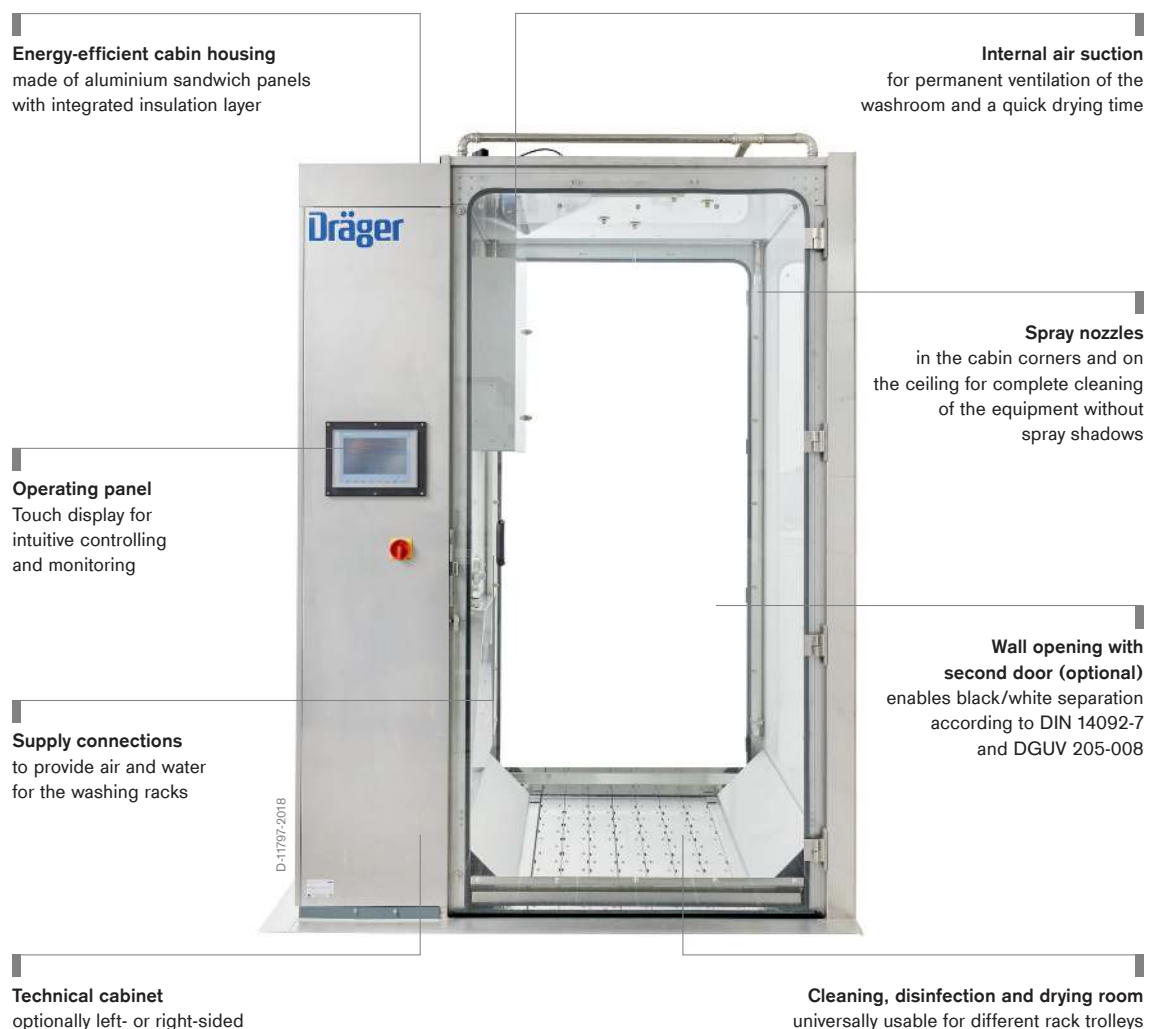


Dräger MFC 7000 Cleaning, Disinfecting and Drying Equipment

The Dräger MFC 7000 is the fully automatic solution for preparation respiratory protective equipment and chemical protective suits after use. In a single operation, used equipment is safely cleaned, disinfected and dried in the multi-function cabin, protecting the material. Thus, the personal protective equipment (PPE) is ready for use again within a very short time.



Benefits

Fully automatic preparation in one operation

In conventional preparation processes for personal protective equipment (PPE), cleaning and disinfection take place separately from drying. In the MFC 7000, these steps are carried out fully automatically. Once the unit has been equipped, no further intervention by the operator is required. The completely dried equipment is ready for testing immediately after removal.

Reliable result and safe process

The preparation process in the MFC 7000 takes place fully automatically according to a tested procedure and thus delivers consistent, hygienic results. The spray nozzles mounted on all sides achieve an even cleaning result. An integrated door lock and the permanent monitoring of relevant process parameters ensure safe preparation. At the same time, the contact of the operating personnel with cleaning and disinfecting agents is reliably avoided.

Simple operation and high throughput for optimum workflows

The MFC 7000 can be loaded quickly and without tools. From loading to removal of the cleaned and dried equipment, the complete preparation process in the multifunction cabin is completed in less than two hours. These short program runtimes enable continuous work without peak times and idle times. The processes in the respiratory protection workshop can thus be significantly optimised and the deployment of personnel reduced.

Black and white principle for a clean respiratory protection workshop

The MFC 7000 allows black-white-separation by an optional second door to protect against contamination in the building and for the safety of workshop personnel. Set up in a wall opening, the multi-function cabin functions as a lock to meet the requirements of DIN 14092-7 and DGUV 205-008.

Flexible use

A major advantage of the MFC 7000 is its flexibility. No cost-intensive or difficult to install rigid ceiling rails are required for the loading of the wash items. Instead, the multifunction cabin is loaded via various racks that can be moved freely in the respiratory protection workshop. The MFC 7000 is available in a number of different versions. The machine can either be recessed into the floor or installed on top. The setup, embedded in a pit, allows the machine to be entered at ground level with a rack trolley. If the MFC 7000 is installed on the floor, an entry ramp is required. The technical cabinet of the MFC 7000 can be installed either on the left or right side. In front of the technical cabinet, 610 mm of space must be kept free as a maintenance aisle.

Benefits

Rack trolley for fully automatic cleaning, disinfection and drying of PPE

The height-adjustable CPS rack allows you to hang different types and sizes of chemical protective suits (CPS) in an ergonomically optimal way. The mask rack can hold up to 30 masks of different types and sizes without adapters or tools. In individually assigned small parts baskets, e.g. inhalation valves and diaphragms can be prepared separately. The rack can be rotated and is motor-driven. This way, the items to be washed are cleaned from all sides, disinfected and dried quickly. With the combination rack, in addition to 20 masks, 20 lung demand valves can also be washed in the MFC 7000. These are picked up with quick-release fasteners. The compressed air breathing apparatus and helmet rack offers you the possibility to prepare up to twelve fire brigade helmets (HPS 4X00, HPS 7000) in addition to six compressed air breathing apparatus (SCBA). In addition, other PPE (depending on the product release) can also be reprocessed. Cleaning under pressure (with bottles or mini-bottles) prevents washing solution from entering the pneumatics of the compressed air breathing apparatus. Three rotating nozzle arms ensure optimal cleaning and minimise spray shadows. All rack trolleys are made of edged stainless steel and are flexibly manoeuvrable by means of swivel castors.

Energy-efficient and cost-effective in operation

The cabin construction of aluminium sandwich panels with integrated insulation layer ensures that the operating temperature of the system is reached very quickly. For drying, air is sucked in from inside the cabin and circulated according to the circulation principle, which results in a very low heat outlet to the outside. The optional hot water connection for the MFC 7000 allows temperature-controlled filling of the tub and thus shorter program run times, as the washing water does not have to be heated up in the machine first.

Free water outlet

Thanks to a softener and system separator as well as the existing free water outlet, the MFC 7000 ensures fresh water conformity for category 5 liquids in accordance with the current German Drinking Water Ordinance (TrinkwV) and DIN EN 1717.

Optional additions

The optionally integrated water softener produces soft water and can be used up to 65 °C water inlet temperature. The softening system improves the cleaning result with hard water and prevents limescales. An additional dosing pump can be installed in the MFC 7000 for dosing an additional cleaning agent or disinfectant. The chemical protection suit (CPS) can be attached with the boots to the holder of the optional height-adjustable loading aid and pulled up. This makes it easier to insert the inner rack and the loading of the CPS rack trolley is considerably simplified.

System Components



D-14737-2017

CPS Rack - Rack Trolley for Chemical Protective Suits (CPS)

For the fully automatic cleaning, disinfection and drying of chemical protective suits (CPS) in the MFC 7000, a wide variety of suit types and sizes can be optimally applied ergonomically via this height-adjustable universal frame. Castor wheels allow flexible manoeuvring.



D-4361-2019

Combination rack - rack for 20 masks and 20 lung demand valves

For fully automatic cleaning, disinfection and drying of 20 masks and 20 lung demand valves in the MFC 7000. A tool- and adapterless holder allows cleaning, disinfection and drying of different mask types and sizes. Holder for lung demand valves and lung demand valve holder with quick-release fastener. Individually assigned small parts baskets for each mask and each lung demand valve allow separate preparation of small parts such as inhalation valve, exhalation valve, spring bridge, diaphragm and sliding ring. The frame is rotatable and motor-driven.



D-4362-2019

Mask rack - rack trolley for 30 masks

For fully automatic cleaning, disinfection and drying of 30 masks in the MFC 7000. A tool- and adapterless holder allows cleaning, disinfection and drying of different mask types and sizes. Individually assigned small parts baskets for each mask enable separate preparation of small parts such as inhalation valve, exhalation valve, spring bridge, diaphragm and sliding ring. The frame is rotatable and motor-driven. This enables cleaning and disinfection on all sides and fast drying of the wash ware. Castor wheels allow flexible manoeuvring.



D-23054-2020

SCBA and helmet rack

For fully automatic cleaning, disinfection and drying of up to six compressed air breathing apparatus (SCBA)(with or without bottle) or up to twelve fire brigade helmets (HPS 4X00, HPS 7000) in the MFC 7000. Cleaning the SCBA under pressure prevents wash solution from entering the pneumatics. The necessary accessories for reprocessing SCBA each consist of six vent valves, mini compressed air bottles and blanking kits.

Technical Data

Dräger MFC 7000 single cabin

Dimensions for installation in a pit	approx. 1,300 x 1,750 x 2,610 mm (L x W x H) A floor pit of approx. 1,330 x 1,800 x 150 mm (L x W x D) must be provided.
Dimensions for installation on the floor	approx. 1,300 x 1,750 x 2,760 mm (L x W x H) An optionally available entry ramp must be provided (see below).
Power supply	Device connection box 5-wire TN-S, 400 V three-phase current, 50 Hz, 32 A, without RCD
Water supply	Cold water: device connection valve 1/2", minimum flow pressure 2.5 bar to max. 7 bar Hot water: Device connection valve 1/2" up to max. 65 °C (optional)
Wastewater connection	DN 50
Outlet air connection	DN 80, outlet air volume approx. 120m ³ /h, outlet air temperature max. 65 °C, max. static back pressure approx. 500 Pa, moist air up to 100 %, condensing
Number of rack spaces	One rack trolley per MFC 7000
Pump capacity/flow rate	2.2 kW / 10.5 m ³ /h
Heating capacity water	12 kW
Nozzle system	4 nozzle blocks each with 5 full-cone nozzles in the cabin corners, additionally 4 full-cone nozzles integrated in the cabin ceiling
Breathing air plug connection	6 – 8 bar
Ventilation output	2.5 kW
Heating output air	6 kW
Control	PLC control with 9" touch display, 8 function keys, resolution 800 x 480 pixels
Ambient temperature	+5 °C to +35 °C
Weight	approx. 500 kg
Tub capacity	approx. 50 litres
Water and electricity consumption	approx. 200 litres water with washing/disinfection chemistry and 10 kWh electricity. These values are approximate and may vary depending on the selected program, water inlet temperature, ambient temperature and other factors.

Options

Flow rate softening system	max. 28 litres/min
Dimensions of entry ramp	approx. 1,000 x 1,300 x 150 mm (L x W x H)
Dimensions of the wall opening for black-and-white separation	approx. 1,290 x 2,600 mm (W x H) If the multifunction cabin is installed in a pit, the wall opening must be 150 mm lower.
Dimensions CPS rack	approx. 1,150 x 850 x 2,450 mm (L x W x H)
Dimensions combination rack	approx. 1,150 x 950 x 1,660 mm (L x W x H)
Dimensions mask rack	approx. 1,150 x 950 x 1,660 mm (L x W x H)
Dimensions SCBA and helm rack	approx. 970 x 580 x 2,005 mm (L x W x H)

Ordering Information

Dräger MFC 7000 single cabin	On request
Hot water inlet (optional)	On request
Softening system (optional)	On request
Entry ramp (optional)	On request
Second door for black-and-white separation (optional)	On request
Additional dosing pump (optional)	On request
CPS rack	On request
Combi rack	On request
Mask rack	On request
SCBA and helmet rack	On request

Ordering Information

Vent valve	On request
Mini compressed air cylinder	On request
Blanking kit	On request
Boot holder, height adjustable (optional)	On request
neodisher® Dekonta AF 5 l, liquid cleaning and disinfection agent	37 06 165
neodisher® PolyKlar 5 l, Neutralizer	37 06 169
Suma® Jade Pur-Eco L8 Concentrate 10 l (1 x 10 l canister), liquid cleaning agent	37 06 149
Suma® Med Neutral Concentrate 10 l (2 x 5 l canister), liquid neutralizer	37 06 139
Regenerating salt for softening system	69 20 603
neodisher® is a registered trademark of Dr. Weigert.	
Suma® is a registered trademark of Diversey.	

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CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

REGION DACH

Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
info@draeger.com

REGION EUROPE

Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
info@draeger.com

REGION MIDDLE EAST, AFRICA

Dräger Safety AG & Co. KGaA
Branch Office
P.O. Box 505108
Dubai, United Arab Emirates
Tel +971 4 4294 600
Fax +971 4 4294 699
contactuae@draeger.com

REGION ASIA PACIFIC

Draeger Singapore Pte. Ltd.
61 Science Park Road
The Galen #04-01
Singapore 117525
Tel: +65 6872 9288
Fax: +65 6259 0398
asia.pacific@draeger.com

REGION CENTRAL AND SOUTH AMERICA

Dräger Indústria e Comércio Ltda.
Al. Pucurui - 51 - Tamboré
06406-100 - Barueri - SP
Tel. +55 (11) 4689-4900
relacionamento@draeger.com

Locate your Regional Sales
Representative at:
www.draeger.com/contact

