

COVID-19: Usage of HI-Flow Star for treatment of Covid-19 Patients

Dear customers, dear health care professionals,

The World Health Organization (WHO) declared COVID-19 a pandemic on March 11th, 2020. The necessary treatment of COVID-19 patients creates a high demand for respiratory support and mechanical ventilation which sometimes exceeds the number of available equipment in hospitals ICU's.

In the last few days, many customers and health care professionals approached us regarding the possible treatment of COVID-19 patients with our HI-Flow Star.

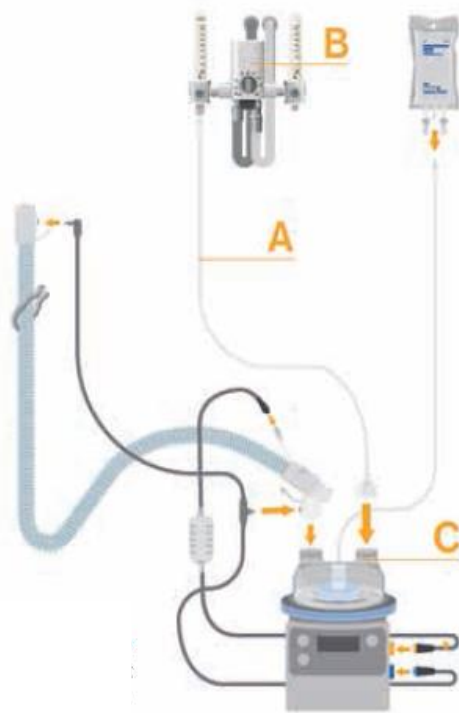
The WHO has indicated high-flow nasal oxygen (HFNO) therapy as treatment of selected patients with hypoxemic respiratory failure of COVID-19 Patients (see interim guidance: "Clinical management of severe acute respiratory infection (SARI) when COVID-19 disease is suspected" from 13 March 2020)

Also other new publications consider High-Flow-Therapy for the treatment of these patients:

- NCBI: Features, Evaluation and Treatment Coronavirus (COVID-19), Marco Cascella (<https://www.ncbi.nlm.nih.gov/books/NBK554776/>)
- AIPO - Associazione Italiana Pneumologi Ospedalieri: Managing the Respiratory care of patients with COVID-19 - English version (<http://www.aiponet.it/news/speciale-covid-19/2426-managing-the-respiratory-care-of-patients-with-covid-19-english-version.html>)
- Society of Critical Care Medicine: Guidelines on the Management of Critically Ill Adults with Coronavirus Disease 2019 (COVID-19) (<https://www.sccm.org/getattachment/Disaster/SSC-COVID19-Critical-Care-Guidelines.pdf?lang=en-US>)

WARNING: However, there is still an uncertainty around the potential for aerosolization of SARS-CoV-2 during high-flow therapy. Consequently, the therapy should be used with precautions until further evaluation of safety has been completed. Potential safety measures in this case could be to the use of a surgical mask above the nasal cannula which may reduce the transmission of aerosols. But it is unclear how valid this is.

We expect that with increasing cases of Covid-19, availability of mechanical ventilators will be a problem to treat all patients in need. In that case, high-flow nasal oxygen therapy can be applied in a simple setup of Blender, Humidifier and High-Flow Accessories.



Dräger is offering the following products for treatment:

Nasal Cannula:

- MP05511 HI-Flow Star Nasal Cannula Adult Size S
- MP05512 HI-Flow Star Nasal Cannula Adult Size M
- MP05513 HI-Flow Star Nasal Cannula Adult Size L

Heated Breathing Circuit:

- MP05601 HI-Flow Star System
 - for Humidifier MR850
 - for Blender and Ventilator
- MP05507 HI-Flow Star Valve kit
 - Safety valve 26 mbar

Blender:

- MP04200 Dräger High-Flow Oxy mixer (Bleed, O₂-Monitoring and Flow tubes configurable)
- MP04201 Dräger High-Flow without O₂-Monitor
- MP04202 Dräger High-Flow with O₂-Monitor

Please note, that these products might not be available worldwide.

These products may be operated in combination, the combination has been tested and assessed by Dräger. Combination of the listed products is done according to the instructions for use of the respective devices in the therein indicated configurations only.

With these products the following setup for High-Flow Therapy is possible:



Alternative the blender and the humidifier can be fixed on a standard DIN rail or pole. If you have any questions or remarks to this topic, please do not hesitate to contact your local Dräger representative.

Best regards,

Handwritten signature of Michael Caspari in black ink.

Michael Caspari

Product Manager

BU Hospital Consumables & Accessories

Drägerwerk AG & Co. KGaA

Handwritten signature of Selim Celik in blue ink.

Selim Celik

Director Business Management

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