

# InVicto™ ventilator

Non-invasive mechanical ventilation system



## InVicto™



**The InVicto™ ventilator device**

## Introduction

JFD is a world leader in breathing apparatus and life support equipment for commercial and defence diving markets, with significant experience in the design and supply of medical equipment for hyperbaric environments. In response to the UK Government Rapidly Manufactured Ventilator System (RMVS) request for industry support of the COVID-19 outbreak, JFD has produced a multi-place patient ventilation system intended for pre-critical care and as surge capacity in intensive care clinical ward applications where breathing assistance is indicated. The InVicto™ ventilator can be manufactured and delivered in large quantities and in short time-scales.

JFD's solution is a pressure cycled automatic ventilator system. This is based on a modification of a mechanical ventilator previously used in clinical hyperbaric oxygen treatment of critically ill patients. InVicto™ is a small mechanical device with no moving parts that attaches to an oral-nasal breathing mask, worn by the patient.

The ventilation system can operate in both automatically cycled inspiration / exhalation cycles for sedated patients, or as a patient triggered breathing cycle.

The ventilator operates from the hospital gas supply and requires the following:



InVicto™ ventilator with mask assembly



Patient monitoring & alarm panel



Gas management panel kit

InVicto™ and the InVicto™ Device are trademarks of JFD Limited. Patent Pending for the InVicto™ Ventilator system.

**For more information contact:**  
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## Key advantages

- Commercial off the shelf (COTS) design based on previously qualified hyperbaric oxygen therapy ventilation aid.
- Gas powered, with no electrical or moving parts; no external power supply required.
- Portable and multi-location usage.
- Suitable for delivering  $FiO_2$  treatment gas from 21% to 100% oxygen.
- Can be used via oral-nasal mask
- Can be automatic or patient triggered.
- Mechanical device with no moving parts means reliable operation 24/7 over long periods of continuous operation with intubated patients in critical care.

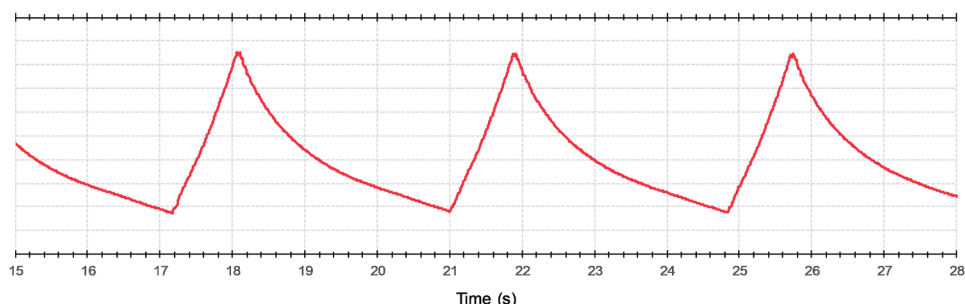


## Concept of operation and system deployment:

JFD's InVicto™ is designed for maximised flexibility of use and many devices can be interfaced with one regulated air/oxygen supply source to enable surge capacity. This will enable use in established hospitals, or field hospitals during the COVID-19 pandemic.



PATIENT INSPIRED PRESSURE



## Order codes

### InVicto™ ventilator system kit: H520AA

Contains:

- |   |                                       |
|---|---------------------------------------|
| 1 x Small ventilator block (black) H74280 | 1 x Non-invasive mask assembly H74300 |
| 1 x Medium ventilator block (blue) H74289 | 1 x Intubation connector H74302       |
| 1 x Large ventilator block (white) H74291 | 1 x Gas panel order code H74303       |

### InVicto™ ventilator block

- |                      |
|----------------------|
| Small : H74280 Black |
| Medium : H74289 Blue |
| Large : H74291 White |

Minimum order quantities are set at 1,000 InVicto™ systems.  
Enquiries to [InVicto@jfdglobal.com](mailto:InVicto@jfdglobal.com)

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