Multicheck eco VX3

Article number *(core unit)*: 330-672

V 2.4

Automated test bench with a modular design

The core unit is suitable for static tests on full-face masks and lung-governed demand valves as well as static medium-pressure tests on SCBAs

Multicheck eco VX3 is a MODULAR TEST BENCH that can flexibly be configured (and retrofitted) to meet individual needs and requirements. While the core unit covers the essentials of equipment testing by allowing you to carry out all of the necessary static tests on full-face masks and lung-governed demand valves as well as static medium-pressure tests on SCBAs, the most advanced configurations make it possible to also perform all of the required dynamic tests.

The core unit is suitable for testing pieces of equipment with round-thread connectors/ports or Euro couplings. Thanks to a broad range of optional adapters (sold separately), you can also test a wide variety of equipment with other connector/port types from a large number of manufacturers.

Tests that can be carried out with the core unit

❖ full-face masks – leak test
❖ full-face masks – exhalation-valve opening pressure
❖ lung-governed demand valves – leak test
❖ lung-governed demand valves – opening pressure
❖ lung-governed demand valves – closing pressure
❖ static medium pressure
❖ chemical protective suits – leak test
❖ chemical protective suits – exhalation-valve leak test

Scope of delivery

❖ Multicheck eco VX3 in the configuration you ordered
❖ Equipment Management program
   (V 5, excl. cylinder filling functionality)
❖ silicone spray and protective hood for dummy head
❖ accessories for testing (vary depending on your order)
❖ operator's manual

Testing a lung-governed demand valve with a Multicheck eco VX3 that is quipped with a touch-screen PC (sold separately)

SCBA connected to a Multicheck eco VX3 for testing

Multicheck eco VX3 has a built-in pump for leak tests, opening-pressure tests and closing-pressure tests.

Moreover, it features electronic pressure transducers for computer-assisted data recording during equipment tests by means of the feature-packed Equipment Management program.

The inflatable dummy head, which is designed for testing masks with five-point head harnesses, ensures that the masks sit properly on a human-like face during testing.

Computer connection

In its default configuration, the core unit must be connected to a PC in order to be able to carry out equipment tests. The computer and peripherals are not included in the scope of delivery.

Expansion modules

At our factory, Multicheck eco VX3 can be (retro-)fitted with the following modules to expand its capabilities:

Module "HD-1" – default configuration....................**330-673**
   The high pressure needed for testing is supplied to the test bench from the cylinder of an SCBA connected to it. The Equipment Management program automatically adjusts the pressure to the levels required for equipment testing.

Module "HD-2" **330-674**
   The high pressure needed for testing is supplied to the test bench from an air receiver tank. The Equipment Management program controls a high-pressure shut-off valve to automatically adjust the pressure to the levels required for equipment testing.

Module "HD-3" **330-675**
   The high pressure needed for testing is supplied to the test bench from an air receiver tank. A built-in fully automatic high-pressure regulator controlled by the Equipment Management program adjusts the pressure to the levels required for equipment testing. This configuration makes it possible to carry out tests across the entire high-pressure range.

Module "KL-1"...**330-676**
   Artificial lung (40 × 2.5 l/min)

Module "KL-2"...**330-677**
   Artificial lung (40 × 2.5 l/min and 25 × 2 l/min)

Module "TPC" **330-678**
   Touchscreen PC (15.6") installed in the front panel

Tailor-made configurations can be developed upon request!

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Specifications

- ❖ dimensions (w × d × h) .... 750 × 550 × 290 mm
  (excl. dummy head)

- ❖ weight.. approx. 40 kg
- ❖ power supply .... 230 V, 50 Hz
- ❖ power consumption ....700 W
- ❖ low-pressure transducer ....±30 mbar (cl. 0.5)
- ❖ medium-pressure transducer..............................0 – 16 bar (cl. 0.5)
- ❖ round-thread connector of dummy head...........................EN 148-1
- ❖ medium-pressure connector...................................... Euro coupling

Optional extras and upgrades

- ❖ low-pressure transducer ±100 mbar......**70-055**
- ❖ manual medium-pressure adjustment 0 – 25 bar..........................**330-689**
- ❖ medium-pressure transducer 0 – 25 bar **70-059**
- ❖ second-load simulator with automatic activation **330-252**
- ❖ pneumatic mask tightener **330-206**
- ❖ keyboard tray......................................**330-204**

The Equipment Management program

Program features

With our program, which we develop in-house, you can, inter alia, do the following:

- ❖ manage program users and user permissions
- ❖ manage equipment owners
- ❖ manage individuals associated with equipment owners
- ❖ manage type-specific test preferences
- ❖ manage test procedures
- ❖ manage equipment types (incl. test intervals)
- ❖ manage equipment data (incl. dates when tests are due)
- ❖ manage equipment with a limited service life
- ❖ perform equipment tests and save the recorded data
- ❖ manage stored data on equipment tests
- ❖ print test reports
- ❖ search for equipment that is due for testing
- ❖ use comprehensive reporting and statistics features
- ❖ create tests that can be activated if needed
- ❖ manage turnouts and training sessions
- ❖ manage any kind of equipment *(option)*
- ❖ make and manage lists of equipment to be tested *(option)*
- ❖ use barcodes to tag and identify pieces of equipment
- ❖ create user reports
- ❖ export reports in a variety of formats
- ❖ export and import data (standardized CSV format)
- ❖ collate data *(requires a central point of testing)*
- ❖ make and manage lists of equipment given out *(option)*
- ❖ set up and manage central points of testing *(option)*
- ❖ download program updates via an FTP connection
- ❖ capture electronic signatures by means of a signature pad

- ❖ back up data to USB drives
- ❖ perform and manage external cylinder fillings
- ❖ perform and manage external equipment tests
- ❖ hire out equipment *(option)*
- ❖ fill and pressure test cylinders *(option)*
- ❖ manage stock and do invoicing *(option)*

Program options (non-exhaustive list)

- ❖ managing any kind of equipment
- ❖ performing/managing cylinder fillings
- ❖ hiring out equipment
- ❖ making/managing lists of equipment given out
- ❖ making/managing lists of equipment to be tested
- ❖ setting up/managing central points of testing
- ❖ managing stock and doing invoicing

Program options are sold separately!

Available UI languages

- ❖ English ❖ German ❖ Spanish ❖ Czech

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