



BEHRINGER

Medical gas devices



ECO/4 PLUS third source module

Product description

2-stage control module for medical gases, consisting of a High Pressure model 451 regulator and a Low Pressure model 451 regulator, both made of CW614N brass. As well as the two regulators, the module also has a High Pressure gauge, a High Pressure shut-off valve, two overpressure discharge valves integrated into the pressure regulators that can be connected with a \varnothing 16 mm weld-on pipe connector, and a Low Pressure shut-off valve for servicing. Low Pressure gauge on the outlet to measure line pressure. The inlet connection is specific for the gas used, the outlet is fitted with a \varnothing 22 mm weld-on pipe connector. Its maximum

nitrogen capacity at 7.5 bar outlet pressure is 70 Nm³/h, 1166 NI/min. The pressure regulator High Pressure gauge has electrical contacts, and is pre-calibrated with a 100 bar alarm threshold (30 for NO₂ and CO₂) and can be connected to an alarm control unit to signal manifold empty. The control module is protected against atmospheric agents by PLEXIGLAS. For easy wall mounting, all components are installed on a powder-coated metal plate.

Normatives

UNI EN ISO 10524-2:2006 | UNI EN ISO 9001:2008 | UNI CEI EN ISO 14971:2012 | UNI CEI EN ISO 13485:2004 | UNI EN ISO 15001:2012

Components

- N. One 451 High Pressure regulator made of CW614N brass and stainless steel pressure adjustment set screw.
- N. One 451 Low Pressure regulator made of CW614N brass and stainless steel pressure adjustment set screw.
- N. Two overpressure discharge valves, integrated into the pressure regulators, made of CW614N brass.
- N. One gas-specific inlet.
- N. One outlet with \varnothing 22 mm weld-on pipe connector.
- N. One CW614N brass High Pressure shut-off valve.
- N. One Low Pressure shut-off valve for servicing.
- N. One CW614N brass check valve.
- N. One pressure gauge on the High Pressure regulator with electrical contacts, range 0-315 bar, class 2.5.N.
- One Low Pressure gauge, range 0-16 bar, class 2.5.N.
- One sintered bronze inlet filter (filtration grade < 100 μ m).
- Stainless steel springs.
- VITON O-Ring for O₂, NBR O-ring for other gases.
- NYLON seal seat for O₂, TEFLON seal seat for other gases.
- VITON O-Ring for O₂, NBR O-ring for other gases.
- Nylon gaskets.
- PLEXIGLASS cover.

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Powder-coated fixing plate.

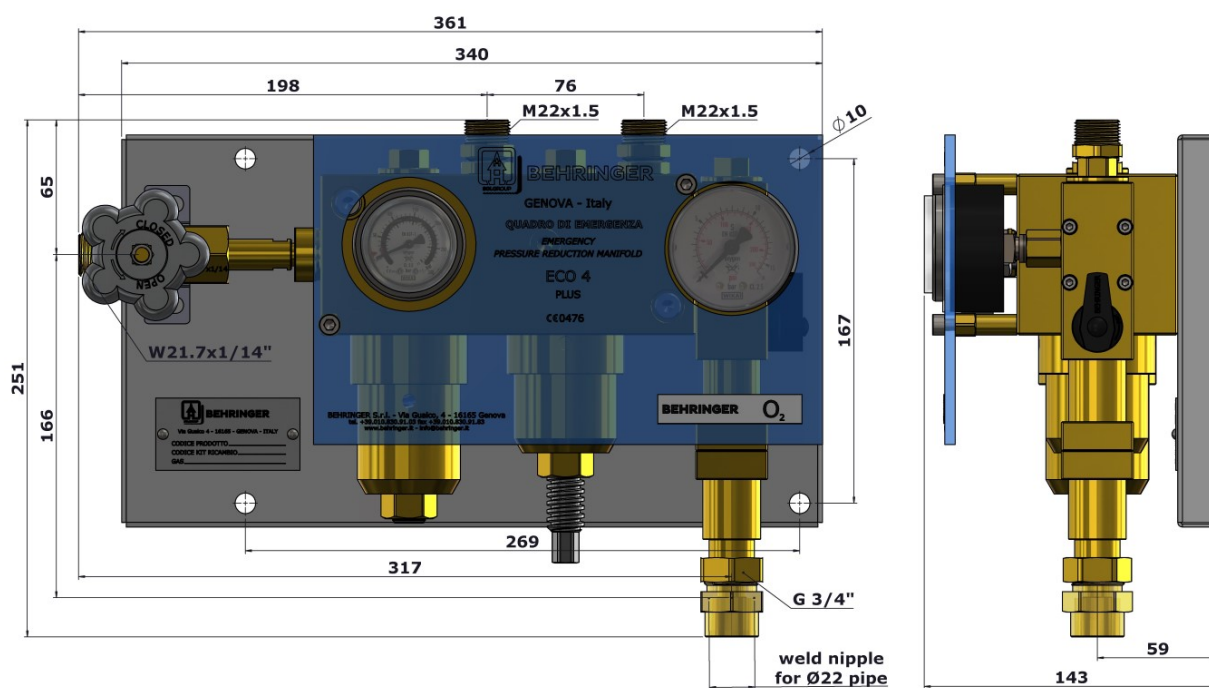
Product codes

GAS	CODE	CATALOGUE NO.
OXYGEN	HQ019AR1	162798/R
NITROUS OXIDE	HQ020AR1	162798/R
NITROGEN	HQ021AR1	162798/R
CARBON DIOXIDE	HQ022AR1	162798/R
AIR	HQ023AR1	162798/R

Technical data

CODE	Q max.	P ₁ max.	P ₂	CONNECTION	WEIGHT
HQ019AR1	70 Nm ³ /h	200 bar	7,5 bar	W21,7x1/14" 'A'	16,60 kg
HQ020AR1	70 Nm ³ /h	200 bar	7,5 bar	G3/8" 'A'	16,60 kg
HQ021AR1	70 Nm ³ /h	200 bar	7,5 bar	W21,7x1/14" 'B'	16,60 kg
HQ022AR1	70 Nm ³ /h	200 bar	7,5 bar	W27x2 'A'	16,60 kg
HQ023AR3	70 Nm ³ /h	200 bar	7,5 bar	W30x1/14" 'A'	16,60 kg

Technical Images



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