

# Cryomatic MK II

**Keeler**  
— A world without vision loss —



# The Cryomatic MK II

Keeler Cryomatic MKII sistema ir zondai yra skirti naudoti oftalmologinėje chirurgijoje, tokioje kaip tinklainės atšokų kriopeksija, ciklo destrukcinės procedūros esant atspariai glaukoma, fragmentų ištraukimas stiklakūnio ertmėje, kataraktos ekstrakcija, blakstienų folikulų krio naikinimas dėl trichiazės ir neišnešiotų kūdikio retinopatijos gydymas

## Perfection evolved

1. The Keeler Cryomatic MKII System and probes are intended for use in ophthalmic surgery such as cryopexy for retinal detachment, cyclo destructive procedures in refractory glaucoma, extraction of fragments within the vitreous cavity, cataract extraction, cryo destruction of lash follicles for trichiasis and treatment of retinopathy of prematurity (ROP).

Building on the exceptional reliability of its' predecessor, the Cryomatic MK II delivers quality and versatility when using either disposable or reusable probes.

2. The Cryomatic MK II's new coupling system allows you to connect either a single use disposable or reusable probe without the need for an adaptor. The new integral software automatically detects the type of probe in use and adjusts the unit accordingly, meaning the unit is ready for use in a matter of minutes. Nauja integruota programinė įranga automatiškai nustato naudojamo zondo tipą ir atitinkamai sureguliuoja įrenginį



## Cryomatic MK II Probes

No Purge Cycle for Single Use Probes!

When using single use probes, the Cryomatic MK II will instantly allow the user to couple the probe to the console and it's ready to go - no more waiting for a purge cycle!

The Cryomatic MK II has all new reusable probes; designed for ease of connection and, with a classic tip form, are perfect for your needs. The integral software will automatically detect and optimise its' parameters for perfect performance, whichever type of probe you are using, and ensure a short purge cycle time after time.



- 1 2509-P-8020 – Standard retinal Probe
- 2 2509-P-8021 – Extended Retinal Probe
- 3 2509-P-8022 – Mid-Reach Retinal Probe
- 4 2509-P-8025 – Glaucoma Probe
- 5 2509-P-8024 – Curved Cataract Probe
- 6 2509-P-8023 – Intra-Vitreous Probe
- 7 2509-P-8026 – Collins Trichiasis Probe

## Cylinder adapters

Your Cryomatic can be used with either Carbon Dioxide (CO2) or Nitrous Oxide (N2O) gas from non-syphonic bottles via one of the Pin Index Yoke (PIY) or screw thread adapters or cylinder adapters below.

11. Yra galimybė pasirinkti atitinkamą reikalingą dujų baliono pajungimo adapterį užsakymo metu (1 vnt.):

13. 2508-P-7017 „Pin Index Yoke“ E dydžio azoto oksido dujų balionui  
Pin Index Yoke for E Size Nitrous Oxide Gas Cylinder  
2508-P-7015 „Pin Index Yoke“ E dydžio anglies dioksido dujų balionui  
Pin Index Yoke for E Size Carbon Dioxide Gas Cylinder

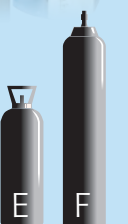


- 2508-P-7016 Adapteris F dydžio anglies dioksido dujų balionui  
Adapter for F Size Carbon Dioxide Gas Cylinder  
2508-P-7018 Adapteris F dydžio azoto oksido dujų balionui  
Adapter for F Size Nitrous Oxide Gas Cylinder



Size E Cylinder  
Dimensions (cm) 50x15  
Gr. Weight (kg) 7

Size F Cylinder  
Dimensions (cm) 86x14  
Gr. Weight (kg) 18



## Part numbers

6. 2509-P-1010 Cryomatic Console with footswitch

Cryomatic Standard Probe Range

- 2509-P-8020 2.5mm Standard Retinal Probe 12. - 1.
- 2509-P-8021 2.5mm Extended Retinal Probe

Single Use Cryosurgical Probes

- 2509-P-8033 Keeler Single Use Retinal Probes, Box of 10 12. - 3.

Cryomatic Special Order Probe Range

- 2509-P-8022 2.5mm Mid-Reach Retinal Probe
- 2509-P-8023 0.89 mm Intra-Vitreous Probe
- 2509-P-8024 1.5mm Curved Cataract Probe 12. - 2.
- 2509-P-8025 3mm Glaucoma Probe
- 2509-P-8026 4 x 10mm Collins Trichiasis Probe
- 2509-P-8030 Classic Retinal Probe

Accessories

- 2508-P-7016 Adapter for F Size Carbon Dioxide Gas Cylinder
- 2508-P-7015 Pin Index Yoke for E Size Carbon Dioxide Gas Cylinder
- 2508-P-7018 Adapter for F Size Nitrous Oxide Gas Cylinder
- 2508-P-7017 Pin Index Yoke for E Size Nitrous Oxide Gas Cylinder
- 2509-P-8015 Probe Sterilisation Boxes (for Cryomatic Probes Only)
- 2508-P-7005 Cryo Trolley

Cryomatic





## Cryomatic Key Features

- Integral software automatically detects the type of probe in use and adjusts the unit accordingly, meaning the unit is ready for use in a matter of minutes. This ensures a short purge cycle time after time.
- 4. • Back-flush facility – During purging and 20 seconds after footswitch is released, the gas reverses its flow at a lower pressure (removes debris and moisture – eliminates risk of problems during surgery). Išvalymo metu ir 20 sekundžių po kojinio jungiklio atleidimo, dujos keičia savo srautą esant mažesniai slėgiui (pašalina nešvarumus ir drėgmę – pašalina problemų riziką operacijos metu).
- Wide range of reusable probes (see more about these on the back).
- No purge cycle for single-use, disposable probes.
- Delivers quality and versatility when using either disposable or reusable probes.
- Rapid freeze and quick defrost.
- 10. • Ease of use with graphic display. Lengvas naudojimas su grafiniu displejumi.

## Unit Specifications

Cryo System	2509-P-1010	Medicininis azoto oksidas (N <sub>2</sub> O) ar medicininis anglies dioksidas (CO <sub>2</sub> ) nesifoniniuose balionuose
7. Dujų specifikacija	<b>GAS SPECIFICATION</b>	Medical grade nitrous oxide (N <sub>2</sub> O) or medical grade carbon dioxide (CO <sub>2</sub> ) in non-syphonic cylinders.
8. Darbinė sritis	<b>OPERATING RANGE</b>	3100–4480kPa (450–650PSI/31–45Bar).
9. Maksimalus cilindro slėgis	<b>MAXIMUM CYLINDER PRESSURE</b>	8275kPa (1200PSI/83Bar).
10. Displėjus	<b>DISPLAY</b>	LCD Display [95mm x 70mm]

Electrical Ratings		
11. Maitinimo įtampa	<b>INPUT VOLTAGE RANGE</b>	100–240Vac (50/60Hz).
	<b>POWER RATING</b>	15–30VA.
	<b>FUSES</b>	2 x T2AH 250V.

Dimensions		
	<b>WIDTH</b>	350mm (14").
	<b>DEPTH</b>	200mm (8").
	<b>HEIGHT</b>	190mm (7.5").
	<b>WEIGHT</b>	4.5kg (10lbs).

Classification and Safety Standards		
	<b>COMPLIES WITH</b>	EN60601-1, UL60601-1, and CAN/CSA-C22.2 No. 601-1.
	<b>EQUIPMENT CLASSIFICATION</b>	Class 1, type BF (Applied Part).
	<b>MODE OF OPERATION</b>	Continuous.
	<b>PROTECTION AGAINST INGRESS</b>	Console IPx0. Footswitch IPX7.



## What's in the box?


- Cryomatic MK II console.
- 6. • Footswitch. Pedalas
- Mains cord.
- High-pressure gas hose.
- Exhaust hose.
- Adjustable wrench.
- Instructions for use.
- 2x spare mains fuses.

## Unit Overview

3. The Cryomatic MKII console is a self-contained system. The console provides the connection point for the Cryo probe, footswitch, mains electricity, gas supply and scavenging system. Freeze cycles are controlled by the user operating the footswitch. When the footswitch is depressed the Cryo probe freezes and when the footswitch is released the Cryo probe defrosts. Routine functions, like purging the Cryo probe are performed automatically when the Cryo probe is connected to the system.

Įprastos funkcijos, pvz., Cryo zondo išvalymas, atliekamos automatiškai, kai Cryo zondas yra prijungtas prie sistemos.

## Manufacturing address:

 Keeler Ltd.  
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