
Protec *ECOMAX*

World's Simplest Automatic X-Ray Film Processor
Simple, Reliable and Affordable



The ECOMAX is the world's simplest automatic x-ray film processor. Designed with the end-user in mind, the ECOMAX is simple to install, operate and maintain. Plug & process is all you have to do!

The revolutionary design of the ECOMAX reduces energy, water and chemical use, saving the ECOMAX owner money while delivering outstanding quality images.

The ECOMAX is manufactured by Protec in Germany in compliance with DIN ISO 9001:2000, IEC, TUV, CE, CSA, and UL quality standards.

The ECOMAX sets the standard today for simple, reliable and affordable automatic x-ray film processors.

Features & Benefits

- Lightweight, tabletop processor
- 100 second processing speed, leading edge to leading edge
- Energy and water saving design limits run time to when film is actually being processed
- Anti-oxidation and anti-crystallization programs result in chemical savings and outstanding image quality
- All components are easily accessible for service
- Simple microprocessor control about the size of a credit card
- Ingenious shallow tank design reduces chemical oxidation and results in cost and environmental savings
- Top film feed and top return for convenience
- New film transport rack design minimizes cleaning through reduced part count and ensures a smooth film path
- Quality polyurethane & rubber rollers for outstanding image quality and no artifacts
- 2 year warranty
- Meets ISO, IEC, CE, TUV, CSA & UL quality standards
- Made in Germany

Standard Equipment

- Comes complete and ready with all components for tabletop processing
- Levelling legs for uneven surfaces
- Spare parts kit
- 6.6 gallon (25 liter) replenishment tanks with filtering replenishment straws
- Floating lid for developer tank
- Water supply hose
- Tubing and hardware
- Installation, Operating and Parts Manual



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Protec ECOMAX

Simple X-Ray Film Processor

Minimum Darkroom Requirements

Electrical

- 115V, 50/60Hz, 15A Service (Operating Range 100-130V)
- 230V, 50/60Hz, 10A Service (Operating Range 200-250V)
- Energy use of 1.2 kWh during processing and 0.12 kWh in standby mode.
- Dedicated line strongly recommended.
- Use of a multi-outlet adapter or extension cord will void the warranty.

Water

- Cold water only with recommended temperature between 41-86°F (5-30°C).
- Water connection of 3/4" with 29 - 145 psi (2 - 10 bar).
- Minimum drain diameter of 2 inches (5 cm) at a maximum of 12 inches (30.5 cm) above the floor.
- Water consumption of 0.26 gal/min (1.0 liter/min) during processing.
- Water consumption of 0.0 gal/min (0.0 l/min) in standby mode.
- In-line water filter strongly recommended when water supply contains contaminants or particulate materials.
- Do not use copper drain pipe or fittings. Use cast iron or PVC.

Space

- Actual dimensions 34.7" (88 cm) long by 26.4" (66 cm) wide by 17" (42 cm) tall.
- Please allow adequate clearance on sides, back and top of processor for ease of use, maintenance and service.



Film Processing Capacity Measured at
100 Second Processing Speed

10" X 12" (24 X 30 cm), 74 films per hour

14" X 17" (35 X 43 cm), 45 films per hour

ECOMAX's simple film transport rack design is easy to clean and maintain

Your Authorized FI Sales, LLC Dealer



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PRODUCT SPECIFICATIONS

Film Size

4" x 4" (10 cm x 10 cm) min. to 17" (43 cm) X any length max. Will accept roll film

Processing Time

100 seconds (factory set), leading edge to leading edge

Developer Temp

89.6 °F (32°C), adjustable

Replenishment

Rates adjustable either 460 ml per 10 sq. ft. (ml/m²) or 600 ml per 10 sq. ft. (ml/m²) Anti-crystallization replenishment is selectable off or on at 20 minute intervals

Net Weight (Empty/Filled)

58.4/75 lbs (26.5/34 kg)

Tank Capacity (D/F/W)

0.6/0.6/0.55 gallons (2.3/2.3/2.1 liters) in each section: developer, fixer, water

Film Drying

Warm circulated air, factory set to 140°F (60°C)

Chemical Storage

6.6 gallon (25 L) tanks
10 gallon (38 L) tanks optional

Film & Chemistry

Use standard medical x-ray film and chemistry formulated for automatic medical x-ray film processors.

FI Sales is pleased to offer other x-ray film processors should the ECOMAX not meet your needs.

- OPTI MAX 90 second model for low to moderate film volume processing with a capacity of 75 films per hour
- OPTI MAX 2010-NDT 90 second variable speed model for industrial NDT film processing