NDT U

Universal Film Processor

With the NDT U film processor, you have at your disposal the most universal processor from our film processor product line. The NDT U combines simplicity, reliability and universal use in one processor.

It is specially designed for customers who use medium-sized quantities of film. The NDT U is very versatile and processes sheet film as well as roll film of any length. The ease of use, the ease of maintenance and its use for every application are the main advantages of the NDT U film processor.

Universal use

The NDT U integrates all the know-how from the extremes of the off-shore environment to the ultra high quality of on-shore nuclear installations and in combination with its capability to process any length of roll film.

The off-shore requirement for 90 sec. processing has resulted in an off-shore version next to the standard version. It's easy to switch from one type to the other by changing the developer rack.

Reliable processing

The NDT U is an electro-mechanical processor which is, no matter where it is installed, extremely dependable.

The solid construction and the careful selection of the materials used make the NDT U a highly reliable processor.

User-friendly

Thanks to the functional design with switches on the feed table, the processor can be operated easily. The temperature of both the developer and the dryer can simply be set, step by step. In addition, the NDT U is also exceptionally quiet.

Precise replenishment

The film area is measured on entry by 5 detection rollers. This measurement means that replenishment is controlled much more precisely than when the film is measured in length only. It also keeps the replenishment quantity to a minimum.

Minimal processing costs

During film processing only a small volume of water is used, with consequent benefits for the environment. Moreover the machine uses less energy, thanks among other things to the infrared drying system.

Low heat generation

The infrared drying system not only guarantees the uniform drying of your films, it also ensures that very little heat is generated in the darkroom. As a result, the darkroom remains at a comfortable working temperature.

Unique daylight system

The NDT FEEDER can be connected to the NDT U in a simple manner. Just remove the feed tray and fit the NDT FEEDER in its place. When combined with the NDT FEEDER, the NDT U becomes a very practical daylight film system. In case the NDT U is used without the NDT FEEDER, a light tight cover can be ordered optionally. Once the films are positioned on the film feed table the light tight cover can be closed. From then on the darkroom can be illuminated.

Features

- Mainly electro-mechanical components
- Processing cycle time:
  adjustable between 1.5/2/2.5 min for off-shore applications,
  choice between 5/6/7/8/9/10/11/12 min for standard applications
- Lower liquid level in the processor tanks
- Double liquid overflow (on both sides of each processing tank)
- Extra bottom plate and air filter

Advantages

- High functional reliability
- Not sensitive to voltage fluctuations
- Prevents the liquids to overflow
- Sufficient drainage on large ship movement
- Optimal protection against dust intrusion

Technical specifications - NDT U

Film processing	**Type**	**Power supply connection**
NDT U Standard	8196/148	200, 208, 230-240 Volt/ 50, 60 Hz
NDT U Offshore	9196/149	200, 208, 230-240 Volt/ 50, 60 Hz

Characteristics		
Dimensions	Length (max)	125 cm (incl. tray)
	Width	68 cm
	Height (max)	106 cm
	Footprint	73 x 68 cm
Weight	Empty	175 kg
With tanks	full	250 kg
Fixed electrical connection		16 A
Power supply	Voltage	200-240 V
	Frequency	50/60 Hz
Power consumption	max	3.300 W
	stand-by	1155 W
Dryer	No. of dryer settings	4
	Standard setting	3
Tank volume	Developer	24 l
	Fixer	20 l
	Final washing	20 l

The following data apply to film processing with the standard cycle of 8 minutes

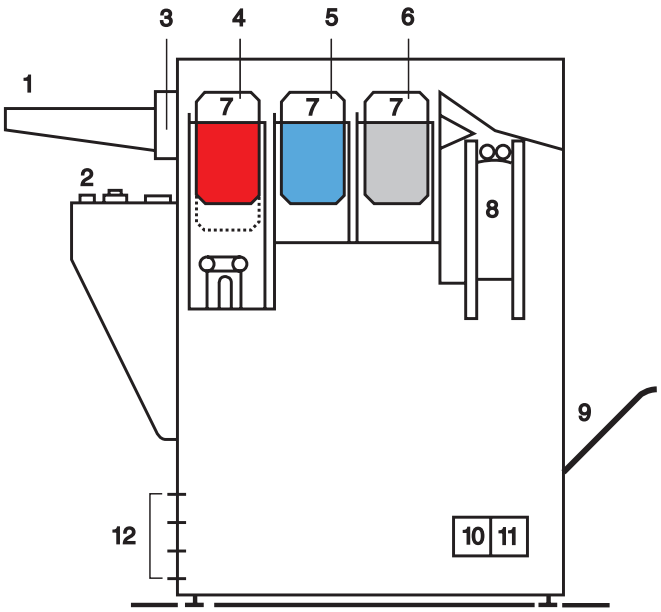
Film		
Processing time	Standard	8 min/28°C
	Limits	1.5 to 12 minutes
Processing speed	Standard	23 cm/min
	Limits	128 to 15.4 cm/min
Film	Types	AGFA NDT and all industrial X-ray films suitable for automatic processing
	Width (max.)	43.2 cm
	Length (max.)	any length
	Smallest size	6 x 12 cm
Film capacity	9 x 12 cm	375 films/hour
	35 x 43 cm	40 films/hour

Fluids		
Water	Connection	Fixed 3/4" connection
	Standard consumption	6 l/m^2
	Consumption limits	6 - 20 l/m^2
	Pressure (min/max)	1-8 bar
	T° (min)	5° C
	pH value	6.5 to 8

Chemistry		
Auto dev.	Dev.	G 135 + G 135 S starter
	Fix.	G 335
Standard replen.	Dev.	900 ml/ m^2
	Fix.	1200ml / m^2
Replen. limits	Dev/Fix.	200-1500 ml/m^2
Standard T°	Dev/Fix.	28° C
Temp. limits	Dev/Fix.	25-40° C
Warm-up time	from 20 to 28° C	8 min.

Operating diagram

1	Film feed tray
2	Control panel
3	Film surface detection rollers
4	Developer tank
5	Fixer tank
6	Water tank
7	Removable upper racks
8	Infra-red dryer
9	Film collection tray
10	Developer replenishment pump
11	Fixer replenishment pump
12	Drain



Accessories

• Darkroom panel	39X91
• Water filter with filter cartridge	EM3YK
• Two replenishment tanks of 30 l	3779N
• Two replenishment tanks of 80 l	3778L
• Light tight cover	38KTB

Peripheral equipment

• NDT MIXER 50 Hz	3U66F
• NDT FEEDER 50/60 Hz	3677A
- UNIVERSAL magazine	368AJ
- FLIPTOP magazine	3679E

Cleaning material

• AGFA NDT FIXCLEAN	37S2J
• AGFA NDT DEVCLEAN	EBMBU