Building on its years of experience, Agfa now introduces the Structurix S-i film processor. The NDT S-i film processor forms the basis of a NEW Structurix High Capacity Film System that boasts a revolutionary design and takes X-ray film processing to the next level.

Ecology and Economy
Go Hand in Hand

The Structurix S-i is a leading-edge processor that brings speed, operational flexibility, money-saving innovations, and environmentally friendly design together in a single package.

Agfa is an industry leader in processors. A true leading edge “Concave Fixing” system. Featuring a double fixing tank, the Structurix S-i generates improved results, yet requires few resources to achieve these results.

Comprised of Optimized Film, industrial Chemistry, and a New Processor, the High Capacity Film System extracts the maximum in economic and ecological benefits by delivering:

• Higher processing “throughput” (on the order of 20 percent) when compared to its predecessor, the NDT3
• A reduction of four replenishment is possible. Check with your local legislation requirements.
• Improved archiving results
• Substantially lower costs for energy and water usage
• Lower warehousing and handling costs and less packaging waste due to the need for fewer chemicals
• Fewer chemical wastes, and thus a considerably lower cost to dispose of that waste.
• Dramatically lower silver level in the waste water, at the same time, the Structurix High Capacity Film System is certified to the following Industrial Film Systems Classification Standards (100 sec developer immersion time, G 135, 82.4°F)

• ISO 11699-1
• ASTM E-1815
• EN 584-1

The Structurix S-i film processor is certified to the following Industrial Film Systems Classification Standards (100 sec developer immersion time, G 135, 82.4°F)

• EN 584-1
• ASME 5-1995
• ISO 11699-1
• JIS K7627

AgfaND.com

Go Hand in Hand

• STRUCTURIX FEEDER with: 3677A
• Two replenishment tanks of 30 litres
• Water filter with filter cartridge 2G2YV
• Darkroom panel 39X91
• Light tight cover 38KTB
• Accessories
• with a level sensor 3779N
• or a FLIPTOP magazine 3679E
• More...
The operating method of the Cascade Fixing System is simple but effective.

The film is 100 percent fixed in the first fixer tank and rinsed in the second fixer tank. With film replenishment being exercised in the second fixer tank, the concentration of silver in that tank stays low. As the silver carperrier into the water tank is minimal, waste water from the Structurix NDT 5 processor readily complies with stringent standards for silver content.

Silver recovery is also optimized by the Structurix NDT 5's design. The first fixer tank being replenished by overflow from the second fixer tank, nearly all of the silver released in the fiing stage ends up in the overflow from the first tank. Providing optimum silver recovery. This simple but effective process ensures that the amount of silver in the water tank is considerably lower than found in conventional processing systems.

Structurix Films

Structurix films can be used with this system.

Structurix Chemicals

Structurix G 335

A standard three part developer bath for universal use, providing film developing and high image-quality capabilities.

Structurix G 335

A two part bath that provides the lowest possible replenishment rate thanks to the Cascase Fixing System. G 335 also delivers optimum archiving results.

Structurix processor

High Capacity

The throughput or processing rate of the Structurix NDT 5 is designed to meet the needs of a wide-range of users, including those with large film processing demands and comparatively high production peaks. Set to an eight-minute cycle, the NDT 5 boosts the processing speed to 20 inches of film per minute or 78 ft/min. Set to a seven-minute cycle, it processes even 35 mm film in 12.6 ft/min.

A New Revolutionary Technology 'Cascade Fixing'

The Cascade Fixing System delivers consistently high-quality images. What makes the system special is that it delivers these images at a higher throughput rate, while reducing the adverse-environmental impact. Thanks to a design that features two countercurrent fixing tanks that are replenished on the countercurrent principle, the Structurix NDT 5's significantly reduces the silver runoff into the waste water.

The exposed film is first developed in the developer tank and then rinsed in the intermediate washing tank. Intermediate washing ensures that little of the developer solution carries into the fixing tanks, this keeping the fourth bath in optimum condition. At the same time, the intermediate wash-up begins the process of protecting the film by removing any free developing agents from the film.

As a result of the following processing steps:

1. Developer tank
2. Interim wash tank
3. Fixer tank 1
4. Final wash tank
5. Overflow FI
6. Transfer of interim wash
7. Replacement link between FI and EZ in the direction of FI

Processing Systems

Processing time settings depend on film system characteristics, please contact your Agfa representative.

Structurix processor

Clear Operating Panel

The operating panel provides clear display of all processing parameters. Incremental controls are available for the temperatures of both the dryer and developer. Multifunction output trays may be displayed in 12 languages.

Adjustable Film Receiving Tray

The film tray of the Structurix NDT 5 may be easily adjusted to any film film size, width, format, and roll film of up to 16 ft in length. Processed films are always collected in the correct order in the multifunctional output tray.

Unique Darkroom System

When combined with the Structurix feeder, the NDT 5 turns a conventional darkroom illuminated. The Structurix NDT S-i's high-performance microprocessor is protected by a password.

Messages may be displayed in 12 languages. The NDT S-i's microprocessor also features two successive fixing tanks that are replenished on the countercurrent principle, the Structurix NDT S-i's significantly reduces the silver runoff into the waste water.

When an NDT S-i is used without a darkroom illuminated, the rollers can be readily removed for separate cleaning, the Structurix NDT S-i's microprocessor is protected by a password.

Replenishment and processing costs are significantly lower than found in conventional processing systems.

The Structurix NDT S-i precisely means the film surface area by using 11 detection rollers, assures accurate minimum replenishment usage.

Superior Image Quality

The Structurix NDT S-i's design was to satisfy applications that demand the highest image quality. Agfa's innovative tank construction and roll configurations contribute significantly to the way the film is treated. The treatment performed by the Structurix NDT S-i's microprocessor embedded in the NDT S-i's control all processing functions and ensures superior film drying at an even rate under all ambient conditions. The Structurix NDT S-i offers maximum flexibility with respect to drying rates and film sizes, so that no matter which option is selected it delivers the same high-quality output.

Precise Replenishment

The design of the Structurix NDT S-i minimizes replenishment demands thanks to a unique scanning feature. Instead of relying only on a measurement of film length, the Structurix NDT S-i precisely means the film surface area by using 11 detection rollers, assures accurate minimum replenishment usage.

Minimum Processing Costs

The more precise that control of the replenishment process is, the lower the consumption of processing chemicals is, and thus the lower the costs are. One of the key ways the Structurix NDT S-i witnesses this low cost profile is by automatically adjusting the processing direction of the films have left the processor. Thus electricity is saved and water consumption limited, the less waste water used for processing (13 l/m2) the greater the environmental benefits. The design of the Structurix NDT S-i's microprocessor incorporates a low-energy refined drying technology. Additionally, when an NDT S-i's drive cycle activates its roller transport mechanism specifically for short periods. This means that any silver consumption is minimized and the life of the processor maximized.

Processing Cycles

The NDT S-i's microprocessor also features six pre-programmed processing cycles that NDT S-i from 2.5 to 12 minutes. As with all Agfa processors, standard cycles are easily set. Once the desired cycle time has been selected, the other processing parameters – namely temperature, dryer level, fixing temperature, and replenishment rate – are adjusted automatically by the Structurix NDT S-i's microprocessor.

Variable speed mode is another feature of the Structurix NDT S-i. Along with the standard cycle settings, the NDT S-i's processing speed can also be manually adjusted in 30-second steps (2.5 - 12 mins.). In addition, these settings can be locked and protected by a password.

Reliable Electronics

The Structurix NDT S-i's high-performance microprocessor is durable, featuring the reliability and security and some of operation for which Agfa products are famous.

User Comfort

Three-way drainage valves are a new feature of the Structurix NDT S-i that makes it simple and easy for photographers and cleaning chemicals to be diverted to the correct collection tank.

Ease of Maintenance

From the Structurix NDT S-i was designed as the ultimate in ease of maintenance systems. The top sections of the NDT S-i's cover is easily removed for separate cleaning, eliminating the need to remove an entire tank from a tank. While the film sensor rollers on the feed tray require regular cleaning, the Structurix NDT S-i's design makes even this task a breeze. The rollers can be easily reached by removing the feed tray. And to prevent growth of algae, the wash-water automatically drains when the NDT S-i is switched off.
Structurix Films

Structurix G335 is a standard three part developer bath for universal use, providing film developers and high image quality capabilities.

Structurix G 335 also delivers optimum results to the Cascase Fixing System. Thanks to a unique scanning feature, instead of relying only on one measurement of film length, the Structurix NDT S-i precisely means the film surface and by using 13 detection rollers, assures accurate minimum replenishment usage. The silver recovery is also optimized by the Structurix NDT S-i’s design. The first fixer tank being replenished by overflow from the second fixer tank, nearly all of the silver released in the fixer stage ends up in the overflow from the first fixer. Providing optimum silver recovery. This simple and efficient process ensures that the amount of silver in the second fixer is nearly the same as in the first fixer tank with high production peaks. Set to an eight-minute cycle, the NDT S-i’s processing cycles vary from 2.5 to 12 minutes. As with all Agfa processors, standard cycles are easily set. Once the desired cycle time has been selected, the other processing parameters — namely temperature, dryer level, fixing time, and replenishment rate — are adjusted automatically by the Structurix NDT S-i’s microprocessor. Variable speed mode is another important feature of the Structurix NDT S-i. Along with the standard cycle settings, the Structurix NDT S-i’s processing speed can also be manually adjusted in 10 steps (2.5 - 12 min.). In addition these settings can be locked and protected by a password. The NDT S-i's microprocessor also features six pre-programmed processing cycles that NDT S-i varies from 2.5 to 12 minutes. As with all Agfa processors, standard cycles are easily set. Once the desired cycle time has been selected, the other processing parameters — namely temperature, dryer level, fixing time, and replenishment rate — are adjusted automatically by the Structurix NDT S-i’s microprocessor. Variable speed mode is another important feature of the Structurix NDT S-i. Along with the standard cycle settings, the Structurix NDT S-i’s processing speed can also be manually adjusted in 10 steps (2.5 - 12 min.). The NDT S-i's microprocessor also features six pre-programmed processing cycles that NDT S-i varies from 2.5 to 12 minutes. As with all Agfa processors, standard cycles are easily set. Once the desired cycle time has been selected, the other processing parameters — namely temperature, dryer level, fixing time, and replenishment rate — are adjusted automatically by the Structurix NDT S-i’s microprocessor. Variable speed mode is another important feature of the Structurix NDT S-i. Along with the standard cycle settings, the Structurix NDT S-i’s processing speed can also be manually adjusted in 10 steps (2.5 - 12 min.). In addition these settings can be locked and protected by a password. The NDT S-i's microprocessor also features six pre-programmed processing cycles that NDT S-i varies from 2.5 to 12 minutes. As with all Agfa processors, standard cycles are easily set. Once the desired cycle time has been selected, the other processing parameters — namely temperature, dryer level, fixing time, and replenishment rate — are adjusted automatically by the Structurix NDT S-i’s microprocessor. Variable speed mode is another important feature of the Structurix NDT S-i. Along with the standard cycle settings, the Structurix NDT S-i’s processing speed can also be manually adjusted in 10 steps (2.5 - 12 min.). In addition these settings can be locked and protected by a password. The NDT S-i's microprocessor also features six pre-programmed processing cycles that NDT S-i varies from 2.5 to 12 minutes. As with all Agfa processors, standard cycles are easily set. Once the desired cycle time has been selected, the other processing parameters — namely temperature, dryer level, fixing time, and replenishment rate — are adjusted automatically by the Structurix NDT S-i’s microprocessor. Variable speed mode is another important feature of the Structurix NDT S-i. Along with the standard cycle settings, the Structurix NDT S-i’s processing speed can also be manually adjusted in 10 steps (2.5 - 12 min.). In addition these settings can be locked and protected by a password.
A two part fixer that provides the capabilities of developing and high image quality for universal use, providing film Structurix G135 All Structurix films can be used with Structurix Films

The Structurix NDT S-i is designed to meet the needs of a wide range of users, including those with large film processing demands and companies with high production peaks. Set to an eight-minute cycle, the NDT S-i boosts the processing speed to 20 inches of film per minute, or 78 film frames per hour. High Capacity The throughput or processing rate, of the Structurix NDT S-i is designed to deliver consistently high-quality images. What makes the system special is that it delivers these images at a higher throughput rate, while reducing the anaerobic mental impact. Thanks to a design that features two suctioning fixer tanks that are replenished on the countercurrent principle, the Structurix NDT S-i significantly reduces the silver removal time in the waste water. The exposed film is first developed in the developer tank and then rinsed in the intermediate washing tank. Intermediate washing ensures that little of the developer solution carries into the fixer tanks, thus keeping the “four bath” in optimum condition. At the same time, the intermediate washing process helps to prevent chemicals from coming onto the film being developed.

The operating method of the Cascade Fixing System is simple but effective. The film is 100 percent fixed in the first fixer tank and rinsed in the second fixer tank. With film replenishment being exercised in the second fixer tank, the concentration of silver in that tank stays low. As the silver carrier into the waste water tank is minimal, waste water from the Structurix NDT S-i properly contains little with stringent standards for silver content. Silver recovery is also optimized by the Structurix NDT S-i’s design. The first fixer tank being replenished by overflow from the second fixer tank, nearly all of the silver released in the fixer stage ends up in the overflow from the first fixer. Providing optimum silver recovery. This simple and effective fixation process ensures that the amount of silver in the waste water is minimized at nearly 100 times lower than found in conventional processing systems.

Innovative racks and roller configurations contribute significantly to the top-of-the-line image performance delivered by the NDT S-i. A smart microprocessor embedded in the NDT S-i controls all processing functions and ensures superior film drying at an even rate under all ambient conditions. The Structurix NDT S-i offers maximum flexibility with respect to drying rates and film sizes, so that no matter which option is selected, it delivers the same high-quality output.

Precise Replenishment The design of the Structurix NDT S-i minimizes replenishment demands thanks to a unique scanning feature. Instead of relying only on a measurement of film length, the Structurix NDT S-i precisely monitors the film surface area and uses 12 detection rollers, ensuring accurate minimum replenishment usage.

Minimum Processing Costs The more precise that control of the replenishment process is, the lower the consumption of processing chemicals is, and thus the lower the costs are. One of the key ways the Structurix NDT S-i witnesses this low cost profile is by automatically adjusting the replenishment demand films have left the processor. Thus, just as the electric dryer and water consumption is not wasted, the less waste used for processing (13 l/m2) the greater the environmental benefits. The design of the Structurix NDT S-i incorporates a low-energy infrared drying technology. Additionally, when the Structurix NDT S-i’s drive cycle activates, its roller transport mechanism speed is reduced. This means that film drying is reduced and the life of the preheating rollers is maximized. Processing Cycles The Structurix NDT S-i’s microprocessor also features six pre-programmed processing cycles that NDT S-i vary from 2.5 to 12 minutes. As with all Agfa processors, standard cycles are easily selectable. Once the desired cycle time has been selected, the other processing parameters – namely temperature, dryer level, fixing temperature, and replenishment rate – are adjusted automatically by the Structurix NDT S-i’s microprocessor. Variable speed mode is another important feature of the Structurix NDT S-i, which provides high energy savings. Variable speed processing can also be manually adjusted in 30 second steps (2.5 - 12 min.). In addition these settings can be locked and protected by a password.

Reliable Electronics The Structurix NDT S-i’s high-performance microprocessor is durable, featuring the reliability and security and some of operation of which Agfa products are famous. User Comfort Three-way drainage valves are a new feature of all the Structurix NDT S-i’s that makes it simple and easy for photochemists and cleaning chemicals to be diverted to the correct collection tank.

Clear Operating Panel The operating panel provides clear display of all processing parameters. Incremental controls are available for the temperature of both the dryer and developer. Message display may be displayed in 12 languages.

Adjustable Film Receiving Tray The film tray of the Structurix NDT S-i may be easily adjusted to any film film size, winding format, and roll film of up to 16 ft. long. Processed films are always collected in the correct order in the multifunctional output tray.

Unique Daylight System When combined with the Structurix Feeder, the NDT S-i becomes a very practical daylight processing system. The Feeder will automatically follow the processing speed of the NDT S-i, even after the processor is turned off. And when the NDT S-i is used without a loader, an optional light-tight cover is available from Agfa. In this configuration, both film are positioned on the film feed table which is covered to a darkroom illuminated.

Ease of Maintenance The Structurix NDT S-i was designed as the ultimate in ease-of-maintenance systems. The top sections of the NDT S-i’s sections can be easily removed for separate cleaning, eliminating the need to remove an entire tank from a tank. While the film sensor rollers on the feed tray require regular cleaning, the Structurix NDT S-i’s design makes even this task a breeze. The rollers can be easily reached by removing the feed tray. And to prevent growth of algae, the wash water is automatically drained when the NDT S-i is switched off.
**Technical specifications**

The following tables show the standard values (the right to make modifications is reserved)

### Dimensions

- **Length (max)**: 63.8 in (including basket 82.3 in)
- **Width**: 28 in
- **Height**: 43 in

### Chemistry

- **Standard usage**: 13 l/m² (0.53 gal/sheet 14x17)
- **Warm-up time from 64 to 82˚F**: 22 min.
- **Default setting temp Dev/Fix**: 82.4˚F
- **Replen. limits**: Dev/Fix 0.200 -1.500 ml/m²
- **Usage limits**: 10-30 l/m² (0.44 to 1.01 gal/sheet 14x17)
- **Minimum film transport speed**: 7.9 to 31.5 in/min.
- **Limits**: 2.5 to 12 minutes
- **Temp min**: 41˚F
- **F-50354 Huerth (Efferen)
  Robert-Bosch-Str 3
  Germany
  Fax : +33-478-475698
  Tel : +33-472-179220
  France
  69760, Limonest
  68, Chemin des Ormeaux
  Agfa NDT SA
- **ISO 11699-1**
- **ASTM E-1815**
- **Immersion time, G 135, 82.4°F**
- **System is certified to the following Industrial Film Systems Classification Standards (100 sec developer immersion time, G 135, 82.4°F)**

### Product Information

Building on its years of experience, Agfa now introduces the Structurix NDT S-i film processor. The NDT S-i film processor forms the basis of a NEW Structurix High Capacity Film System that boasts a revolutionary design and takes X-ray film processing to the next level.

**Ecology and Economy**

Go Hand in Hand

The Structurix NDT S-i is a leading-edge processor that brings speed, operational flexibility, money-saving innovations, and environmentally friendly design together in a single package.

Agfa is an industry leader in processors. It uses a leading edge “Concise Fixing” system. Featuring a double fixing tank, the Structurix NDT S-i generates impressive results, yet requires few resources to achieve these results.

Composed of Optimized Film, industrial Chemistry, and a New Processor, the High Capacity Film System extracts the maximum in economic and ecological benefits by delivering:

- Higher processing (“throughput” (on the order of 20 percent) when compared to its predecessor, the NDT3
- A reduction of four replenishment is possible. Check with your local legislation requirements.
- Optimized archiving results.
- Less handling of the products.
- Dramatically lower chemical waste in the water, representing a reduction of 90 to 95 percent.
- Fewer chemicals, while also being a considerably lower cost to dispose of that waste.
- Lower wasting and handling costs and less packaging waste due to the need for fewer chemicals.
- Substantial lower costs for energy and water usage.

- At the same time, the Structurix High Capacity Film System is certified to the following Industrial Film Systems Classification Standards (100 sec developer immersion time, G 135, 82.4°F)
  - EN 584-1
  - ISO 11699-1
  - JIS K7627
Building on its years of experience, Agfa now introduces the Structurix S-i film processor. The NDT S-i film processor forms the basis of a NEW Structurix High Capacity Film System that beats a revolutionary design and takes X-ray film processing to the next level.

Ecology and Economy
Go Hand in Hand

The Structurix S-i is a leading-edge processor that brings speed, operational flexibility, money-saving innovations, and environmentally friendly design together in a single package.

Agfa is an industry leader in processors. Enjoy a leading-edge "Cascade-Fixing" system. Featuring a double-fixing tank, the Structurix S-i generates improved results, yet requires few resources to achieve these results.

Composed of Optimized Film, industrial Chemistry, and a New Processor, the High Capacity Film System extracts the benefits by delivering:

• Higher processing "throughput" (on the order of 20 percent) when compared to it predecessor, the NDT3
• A reduction of four replenishment is possible. Check with your local legislation requirements.
• Optimized archiving results
• Lower handling of the products
• Dramatically lower flow level in the waste water, representing a reduction of 90 to 95 percent
• Fewer chemical wastes, and thus a considerably lower cost to dispose of that waste.
• Lower warehousing and handling costs and less packaging waste due to the need for fewer chemicals
• Substantially lower costs for energy and water usage
• Higher "throughput" (on the order of 20 percent) when compared to it predecessor, the NDT3
• Substantially lower costs for energy and water usage
• Lower warehousing and handling costs and less packaging waste due to the need for fewer chemicals

• JIS-K7627
• ISO 11699-1
• ASTM E-1815
• EN 584-1
• AUSM 5.185
• ISO 11699-1
• JAS 4762/77

AgfaND.com

NATUREL

NDT S-i

Ecology and Economy
Go Hand in Hand

• STRUCTURIX FEEDER with: 3677A
• Two replenishment tanks of 80 litres
• Two replenishment tanks of 30 litres
• Darkroom panel 39X91
• Light tight cover 38KTB

• with a level sensor 3778L
• with a level sensor 3779N
• or a FLIPTOP magazine 3679E
• a UNIVERSAL magazine 368AJ