CarestreamNDT

Technical Data / Reference

INDUSTREX M43ic

Film Processor

Non-Destructive Testing (NDT) Applications

Publication No. CHSP-9013
2021-09-10

Technical Specifications

Processing applications:	Rolls and cut sheets of all commonly used industrial X-ray films
Film thickness:	0.10–0.18 mm (4–7 mil)
Film width:	Min. 7.5 cm / max. 43 cm
Film length:	Min. 10 cm

Recommended Immersion Times/Developer Temps

Development Time (seconds)	Developer Temperature
100	26 ˚C (79 ˚F)
90	30 ˚C (86 ˚F)

For more information on development times, see the chart to the lower right.

Tank Capacity

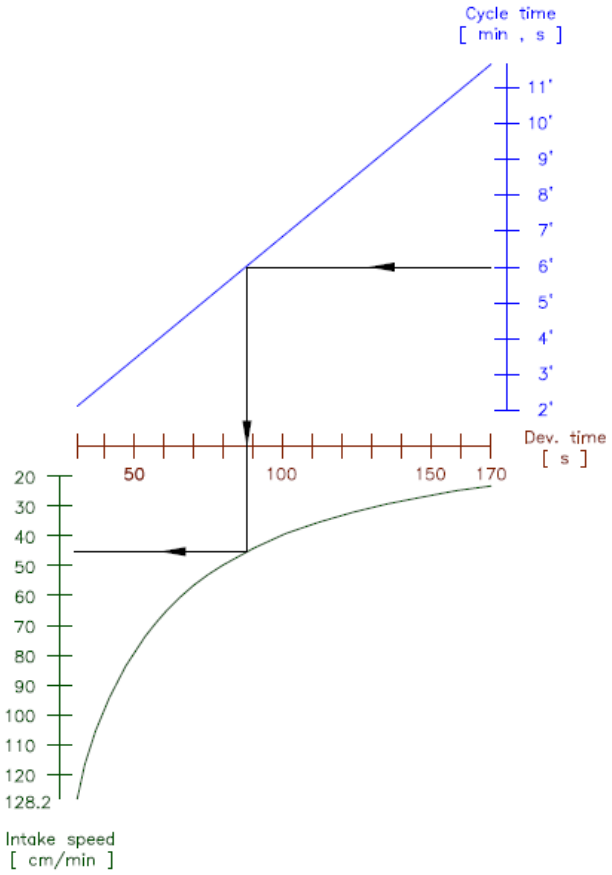
Developer	Fixer	Wash Water	Cooling Liquid
13.5 L	13.3 L	11.6 L	2.5 L

Solution heating (FIX and DEV):	Adjustable in a range of 18.0 to 43.0 ˚C (64.4 to 109.4 ˚F) (separate inline 350 W heaters)
Cooling system (FIX and DEV):	Integrated cooling system with chiller assembly and cooling pump
Dryer:	Warm air adjustable in a range of 18.0 to 60.0 ˚C (64.4 to 140.0 ˚F)
Replenishment:	Fully automatic replenishment is microprocessor-controlled and calculated from information received from sensors that measure the width and length of material entering the processor. Replenishment cycles are adjustable.
Wash water distribution:	Built-in 1-way magnetic valve
Wash water flow rate:	2.5 L per min when film is processed
Wash water supply pressure:	2–6 bar
Wash water supply:	Filtered at a temperature of 10 to 35 ˚C (50 to 95 ˚F) with ¾ in. hose connection
Wash water drain:	32 mm O.D. (5/4 in.) hose or tube

Weights

Empty:	177 kg (390 lb)
With solution :	215 kg (473 lb)

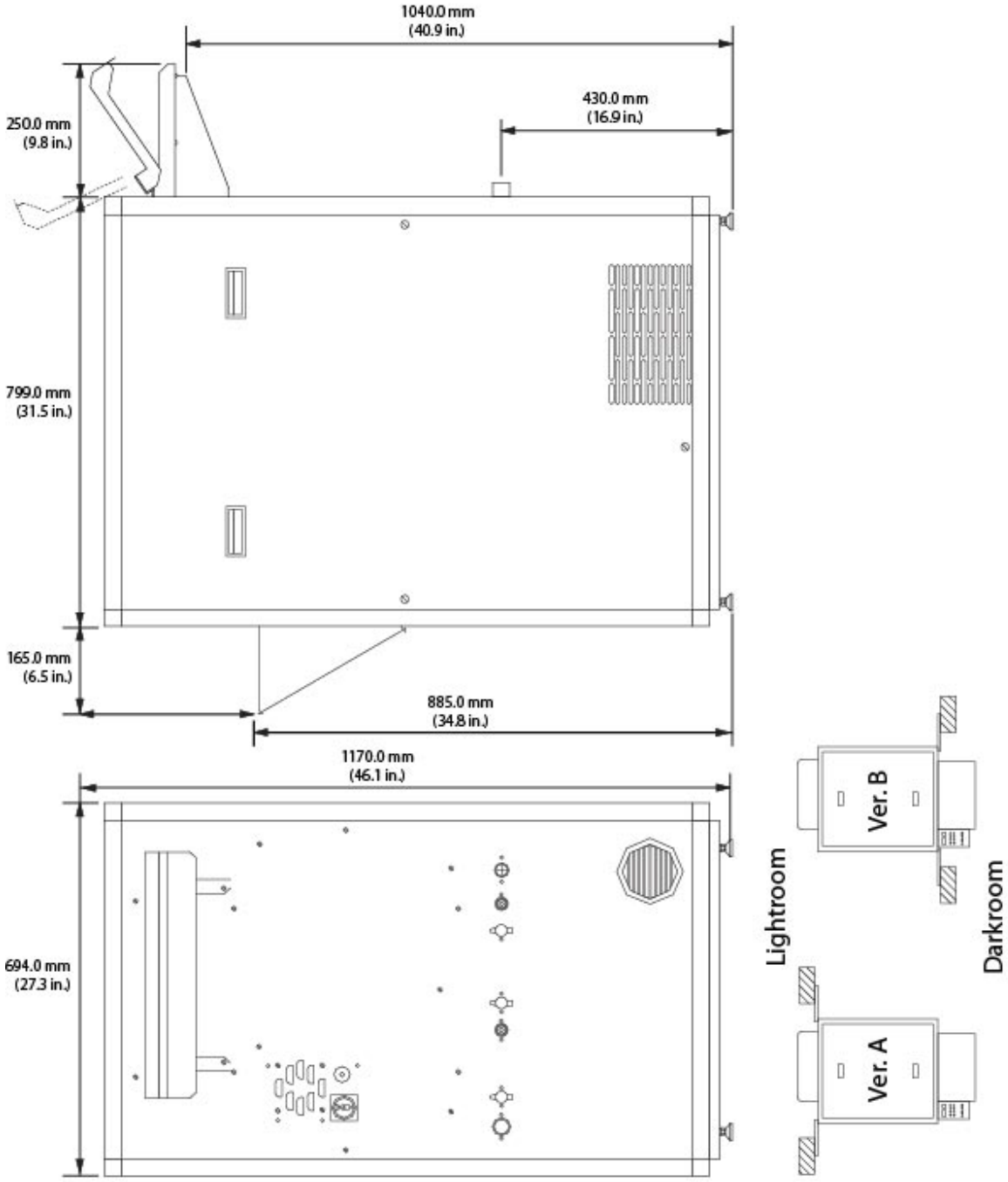
Input Speed, Development Time, and Cycle Time



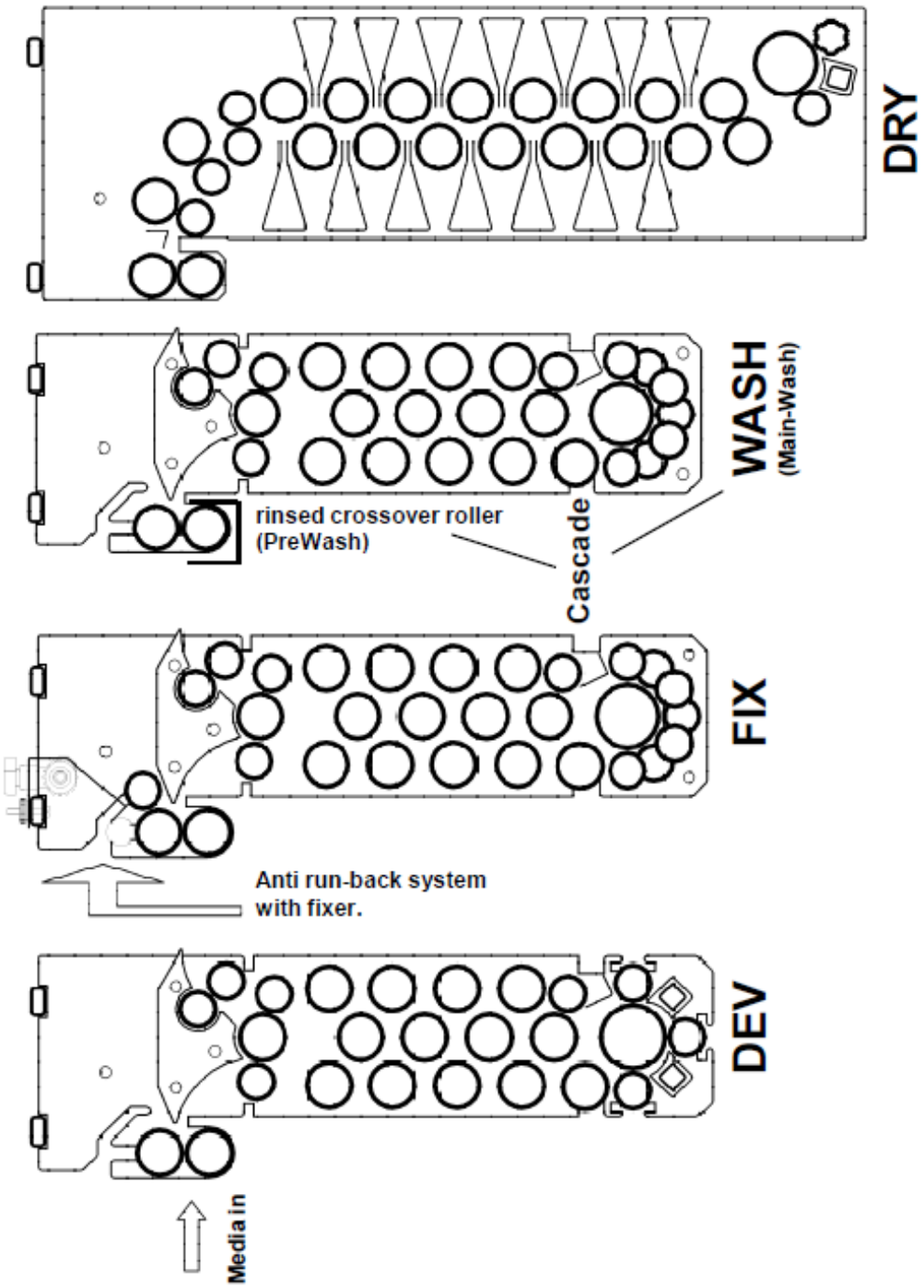
Development Time (seconds)	Intake Speed (cm/min)	Cycle Time (seconds)
31	128.2	127
44	90.7	180
58	68.0	240
73	54.4	300
88	45.3	360
102	38.9	420
117	34.0	480
131	30.2	540
146	27.2	600
161	24.7	660
170	23.3	700
184	21.6	756

Dimensions

The manufacturer recommends a minimum clearance space around the processor of 50 cm.



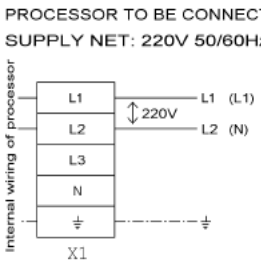
Transport System



Electrical Supply

- Single phase, 230 VAC
- 3.6 kW
- 16 A

Attention! Electrical Hazard:



If the above voltages are not available at the site, contact your local dealer or Colenta for assistance.

Important!

In countries where the electrical supply is 60 Hz, the replenishment pumps must be adjusted to ensure that they deliver the recommended replenisher amount. Contact a qualified service provider to check and make adjustments if needed.

Shipment Details

Packing dimensions:	1 wooden box on pallet: 120 x 100 x 175 cm (L x W x H)
Packing volume:	2.1 m^2
Weight with packing:	320 kg (705 lb)

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

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Carestream is a distributor of the INDUSTREX M43ic Film Processor.

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Rev. C

Publication History:

2013: Colenta version: P/N: N1-21_4.pdf

2021-05-05, Rev A: Carestream branding was applied. Removed graphic of Nuclear Transport System, as it is no longer available. Updated the wash water temperature range.

2021-08-06, Rev B: Updated the water pressure to 2–6 bar. Added table with developer immersion time/intake speed/cycle time. Added note about countries with 60 Hz electrical supply.

2021-09-10, Rev C: Added note to contact service provider to help with 60 Hz sites' replenishment pumps if needed. Updated the wash water flow rate to 2.5 L.