data sheet

Colenta ®

INDX 43/55

NDT - Filmprocessor

QUALITY SYSTEM CERTIFICATION

DNV·GL

ISO 9001

NDT Film Processors type: Colenta® **INDX 43/55 processing capacity 55 cm/min @ 100 sec DevTime**

To be used to process all common used **NDT Films**.

Colenta® INDX 43 / 55
NDT - Filmprocessor

## Technical Specifications

Processing applications: Rolls/Cut sheets of industrial x-ray films
Film thickness: 0,10mm (4mil) - 0,18mm (7mil)
Material width: min. 7,5 cm max. **43**cm
Material length: min. 10 cm

Capacities for:	Time in Developer [sec]	Cycle Time (dry to dry) [min]	Intake speed [cm/min]
INDX 43/55	50	3.37	109
	250	16,87	21

additional, see the table on following page.

Microprocessor controlled Display

		INDX 43/55	
Tank capacity -	Developer:	20 L	(incl Filter)
	Fixer:	23 L	(incl Filter)
	Wash water:	20 L	

Solution heating (DEV and FIX): adjustable in a range of 18°C - 43°C via Microcontroller (separate inline 800W heaters)

Wash Water heating adjustable in a range of 18°C - 43°C via thermostat (separate inline 800W heaters)

Dryer: warm air - adjustable in a range of 18°C - 55°C

Replenishment: fully automatic - replenishment is microprocessor controlled and calculated from information received from sensors measuring the width and length of material entering the processor. Replenishment cycles are adjustable.

Water supply: **2** single magnet valves:
- 1 x single valve (warm or cold water supply) for Wash
- 1 x single valve (cold water) for cooling

required water pressure 3 - 10 bar

external filter for DEV and FIX

Wash water supply: filtered at a temperature of 8°C - 12°C with 3/4" hose connection

Wash water drain: 32mm (5/4inch) hose or tube

INDX 43/55

Weight:	Empty	xxx kg
	With solution	xxx kg

Technical specification subject to change without notice.

Transport System
Colenta® *INDX 43/55*

Anti run-back system with fixer.

Media in

Pre-Wash

Media exit

DEV

FIX

WASH
(Main-Wash)

DRY

Production Graph

Colenta ® *INDX 43/55*

Cycle time [s]

Cycle time [min]

i = 18:40

Dev. time [s]

Intake speed [mm/s]

Intake speed [cm/min]

Capacity [theor. m²/h]

Fix. time [s]

Wash time [s]

Dry time [s]
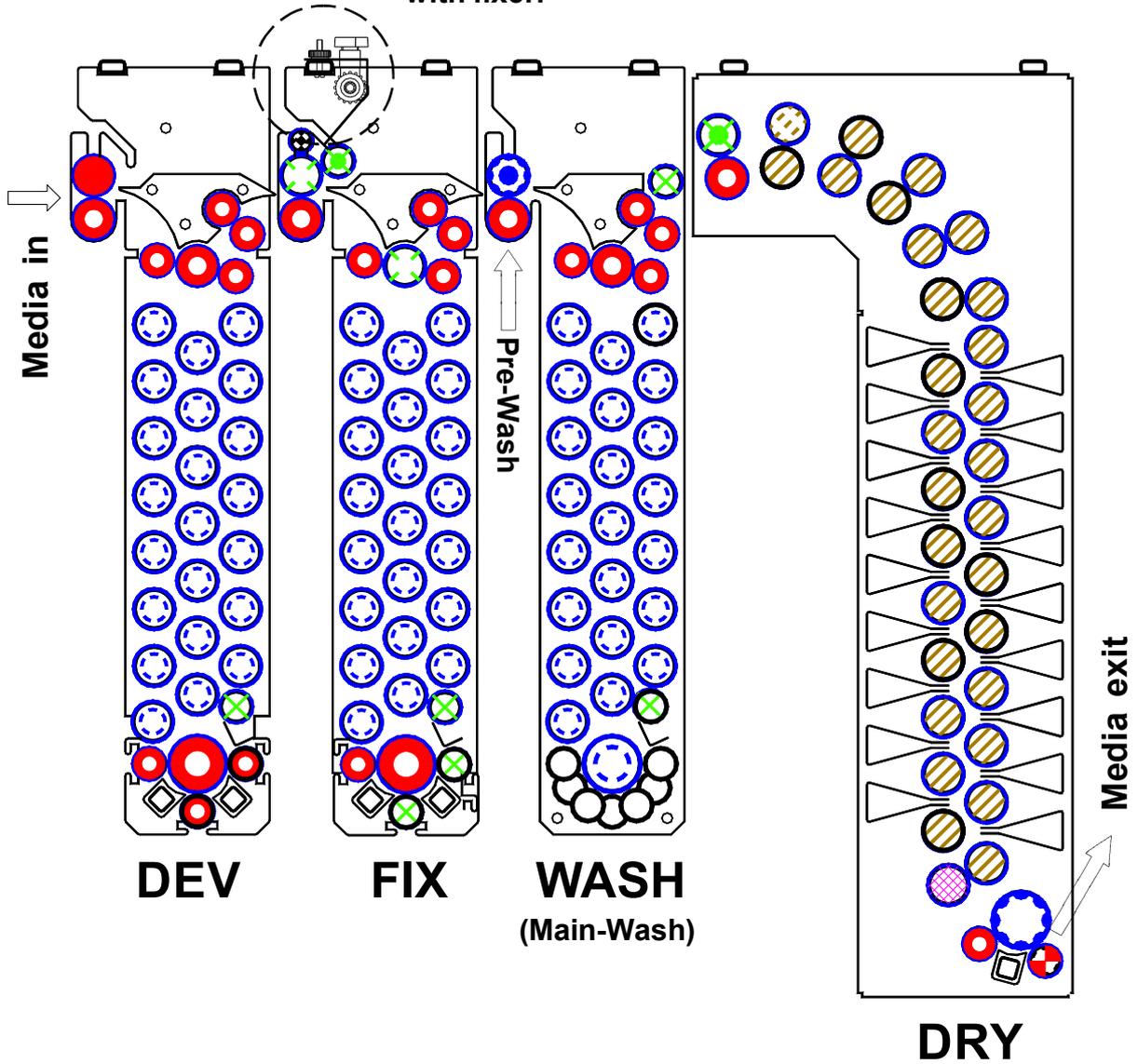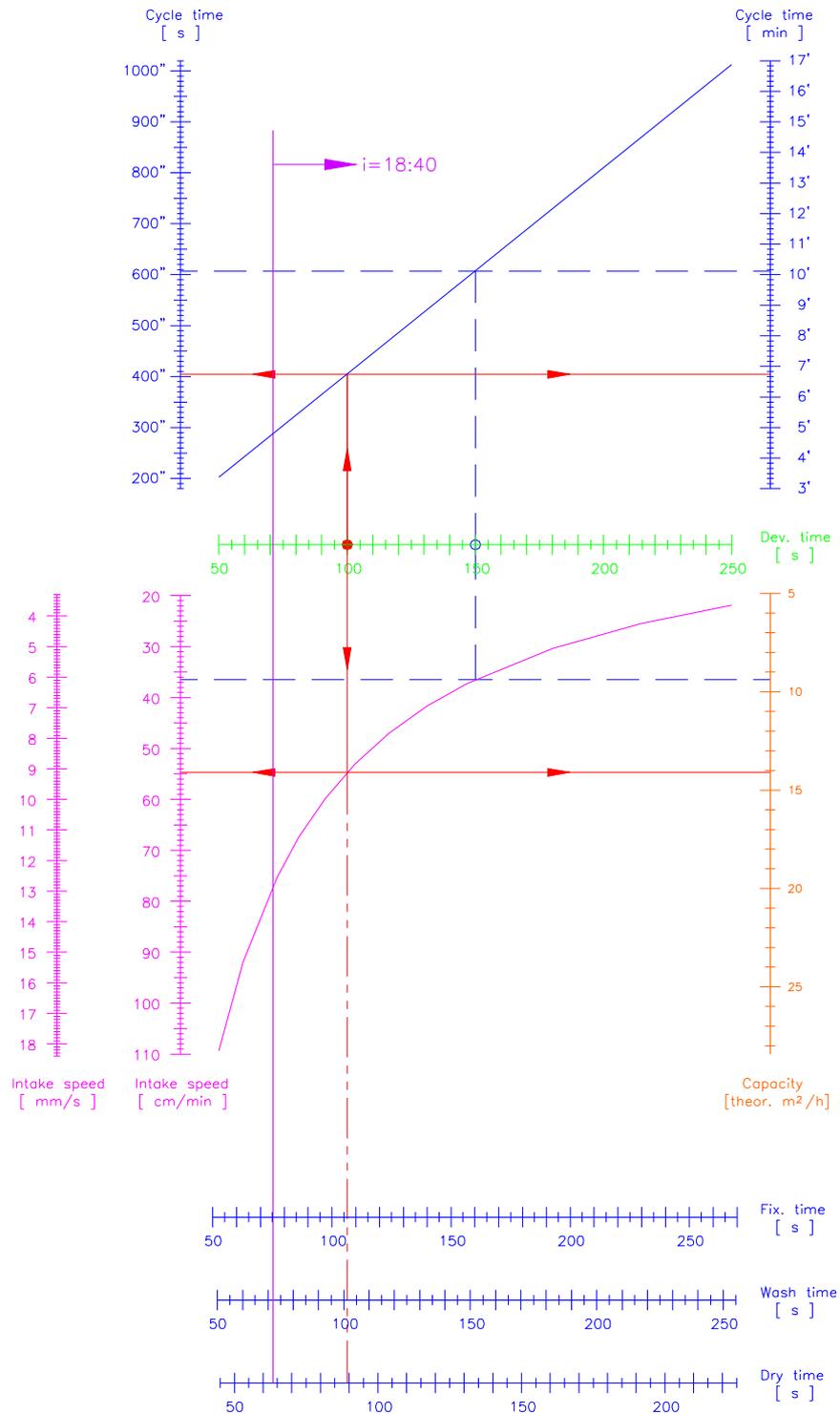
Production Graph

Colenta®

INDX 43/55

Dev. time [s]	Intake speed [cm/min]	Cycle time [min]
50	109.37	3.37
60	91.14	4.05
70	78.12	4.72
80	68.35	5.40
90	60.76	6.07
100	54.68	6.75
110	49.71	7.42
120	45.57	8.10
130	42.06	8.77
140	39.06	9.45
150	36.46	10.12
160	34.18	10.79
170	32.17	11.69
180	30.38	12.14
190	28.78	12.82
200	27.34	13.49
210	26.04	14.17
220	24.86	14.84
230	23.76	15.53
240	22.78	16.20
250	21.87	16.87

Automatic Cooling: The processor electronics will automatically detect over temperature developer / fixer conditions and then activate a cold water cooling system. The temperature of the incoming cold water supply should be between 8 - 12 C in order for the system to operate efficiently. If not available and in cases where the processor is required to operate in warm ambient conditions a chiller system should be used on the developer tank solution. A chiller unit is available as an optional accessory from Colenta for either self installation or factory fitted if ordered with the processor.

external chiller unit

other optional accessories:

optional **Colenta**® Water Supply Panel assy (see extra documentation)

optional **Colenta**® Silver recovery unit (see extra documentation)

level controll for replenisher tanks

optional **Colenta**®
- 2x40L chemical mixing console
- 2x80L chemical mixing console
(see extra documentation)

Dimensions:

Colenta® *INDX 43/55*
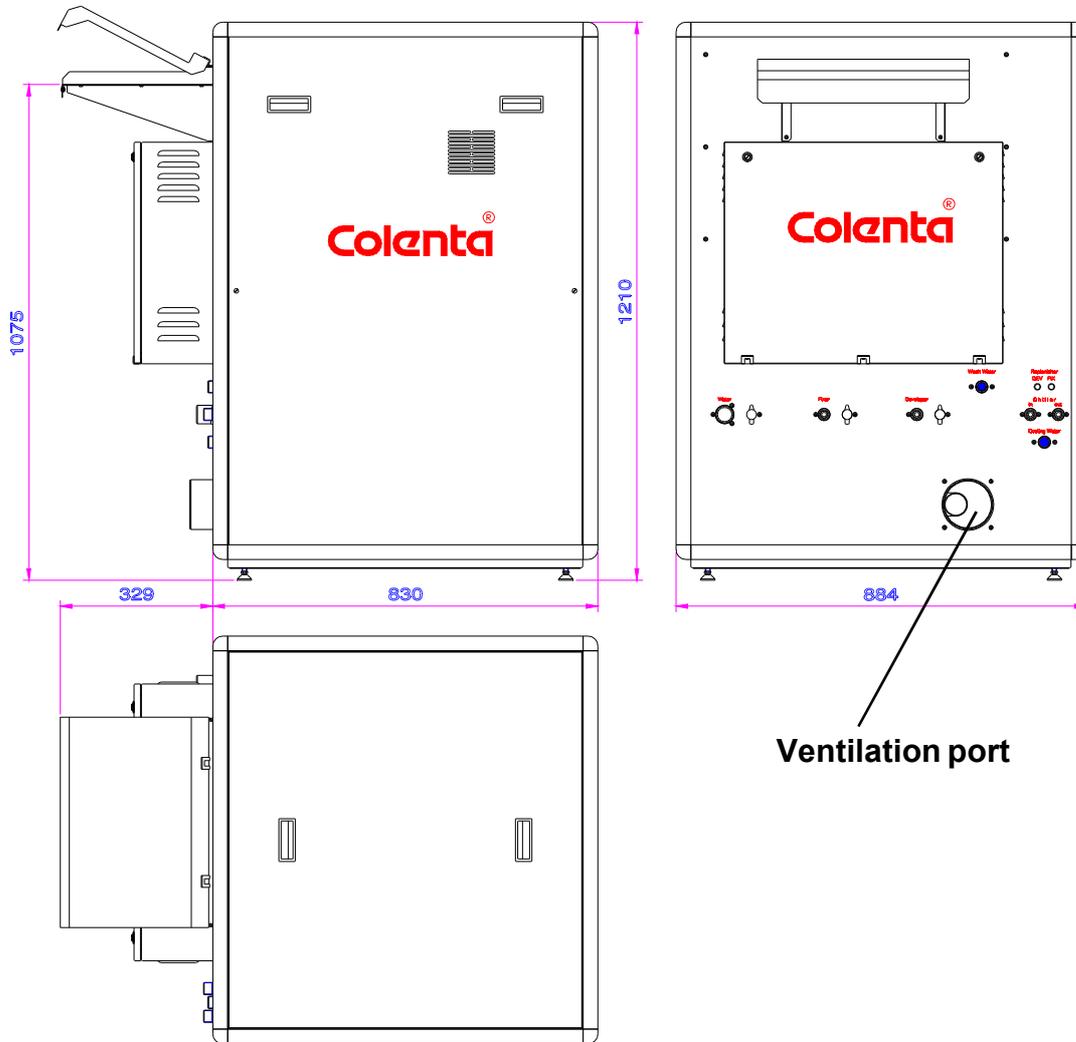
Ventilation port

- **#**   **All dimensoins are in mm.**

- **#**   **We recommend to keep a minimum walking space around the processor of 600mm.**

Processor ventilation: The 43/55 is supplied with an exhaust port located at the feed end of the processor. During installation this port must be connected to an external ventilation system provided at the installation site (sufficient power to ventilate the warm exhaust air away and out of the processing area).

Where the processor is installed in a „through wall" location whereby an auto feeder or feed table is positioned in a darkroom and the main body of the processor is in daylight, it is important that the darkroom is pressurised to ensure a positive airflow from feed to dryer thus avoiding condensation related problems.

Electrical supply:

INDX 43/55

total power consumption 6,9 kW

1) 230VAC+N 50/60Hz
   fuse to be used   32A

2) 3x230VAC 50/60Hz
   fues to be used   25A

3) 400/230VAC+N 50/60Hz
   fuse to be used   20A

1) 230VAC+N 50/60Hz

ATTENTION:
PROCESSOR TO BE CONNECTED TO
SUPPLY NET: 220V 50/60Hz
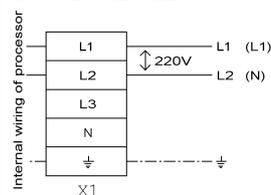
Internal wiring of processor

L1		L1 (L1)
L2	↕ 220V	L2 (N)
L3		
N		
⏚		⏚

X1

In case the above voltages are
not available at site, please
contact your local dealer or
the factory for rewiring advice.

2) 3x230VAC 50/60Hz

ATTENTION:
PROCESSOR TO BE CONNECTED TO
SUPPLY NET: 3~220V 50/60Hz
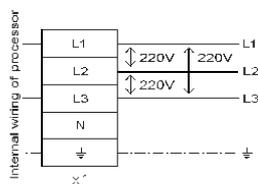
Internal wiring of processor

L1		L1
L2	↕ 220V ↕ 220V	L2
L3	↕ 220V	L3
N		
⏚		⏚

X1

In case the above voltages are
not available at site, please
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the factory for rewiring advice.

3) 400/230VAC+N 50/60Hz

ATTENTION:
PROCESSOR TO BE CONNECTED TO
SUPPLY NET: 3N~380/220V 50/60Hz
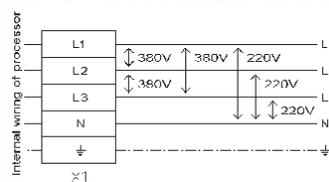
Internal wiring of processor

L1		L1
L2	↕ 380V ↕ 380V ↕ 220V	L2
L3	↕ 380V ↕ 220V	L3
N	↕ 220V	N
⏚		⏚

X1

In case the above voltages are
not available at site, please
contact your local dealer or
the factory for rewiring advice.

details for shipment:

INDX 43/55

packing dimensions: 1 wodden box on palette
                            132cm x 101cm x 139cm (L x W x H)
weight with packing: 280 kg

packing dimensions: 1 wodden box on palette
                            81cm x 65cm x 145cm (L x W x H)
weight with packing: 126 kg