

data sheet

Colenta

New Generation

IL- PCB Film Processor
TYPE: 35 - 110 NG



Colenta

*To be used for all type of common used PCB Films
for roll- and or sheetfeed format.*

IL PCB NG -Typ: 82 cm/min at 30 sec dev time



Colenta 35 - 110 PCB NG

Technical Specifications

All Colenta IL PCB processors support 9 programmable processing channels, an intermediate rinse bath rack system, covered stand, daylight feed box, hose/tube connection (100 mm dia.) facility for ventilation of the processors wet-section to an external exhaust fan and supplied with 2 x 30 lt replenishment storage tanks

With level control in **DEV/FIX** processor tanks to automatically “top-up” chemistry when levels are low.

With additional filtration for **DEV, FIX and WASH** inc. square meter based software control

With level control in wash tanks: high/low level monitoring with alarm warning.

With automatic wash tank “fill” when processor is switched on.

Film thickness:	up to 0,3mm
Material width:	min. 7,5 cm max. 35/56/66/80/95/110 cm
Material length:	min. 10 cm
Time in Developer:	min. 20 sec - max. 110 sec
Input speed.	30sec/DEV-Time 82cm/min

		35NG	56NG	66NG	80NG	95NG	110NG
Tank capacity - (incl. Filter)	Developer:	13.5l	17.5l	19.5l	22.0l	28.5l	38.0l
	Fixer:	13.5l	17.5l	19.5l	22.0l	28.5l	38.0l
	Wash water:	12.5l	16.0l	18.0l	20.5l	26.0l	35.0l

Solution heating(Fix and DEV): adjustable in a range of 18°C - 43°C
(separate inline 350/550W heaters)

Dryer: warm air
variable in a range of 25°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.

Filter system: Integrated Filter system with filter cartridge for **DEV / FIX / WASH**

Water distribution: WASH / intermediate rinse: 2-way magnetic valve - 3/4" hose connection
Kühlung: 1-way magnetic valve - 3/4" hose connection

Wash water flow rate: 2,5 ltr/min when film is processed

Wash water supply pressure: 3 - 10 bar

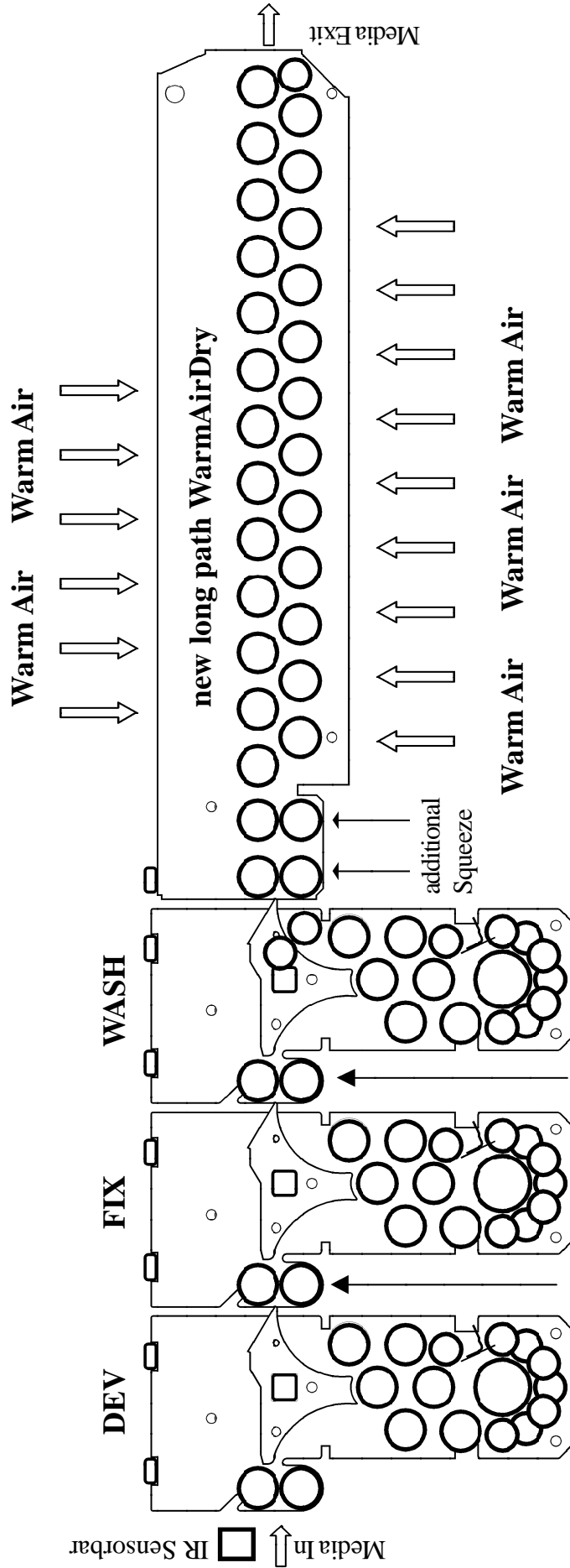
Wash water supply: filtered at a temperature of 8°C - 15°C
with 3/4" hose connection

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

<u>Weight:</u>		35NG	56NG	66NG	80NG	95NG	110NG
	Empty	190 kg	200 kg	220 kg	250 kg	290 kg	350 kg
	With solution	235 kg	260 kg	290 kg	320 kg	370 kg	460 kg

Process overview:

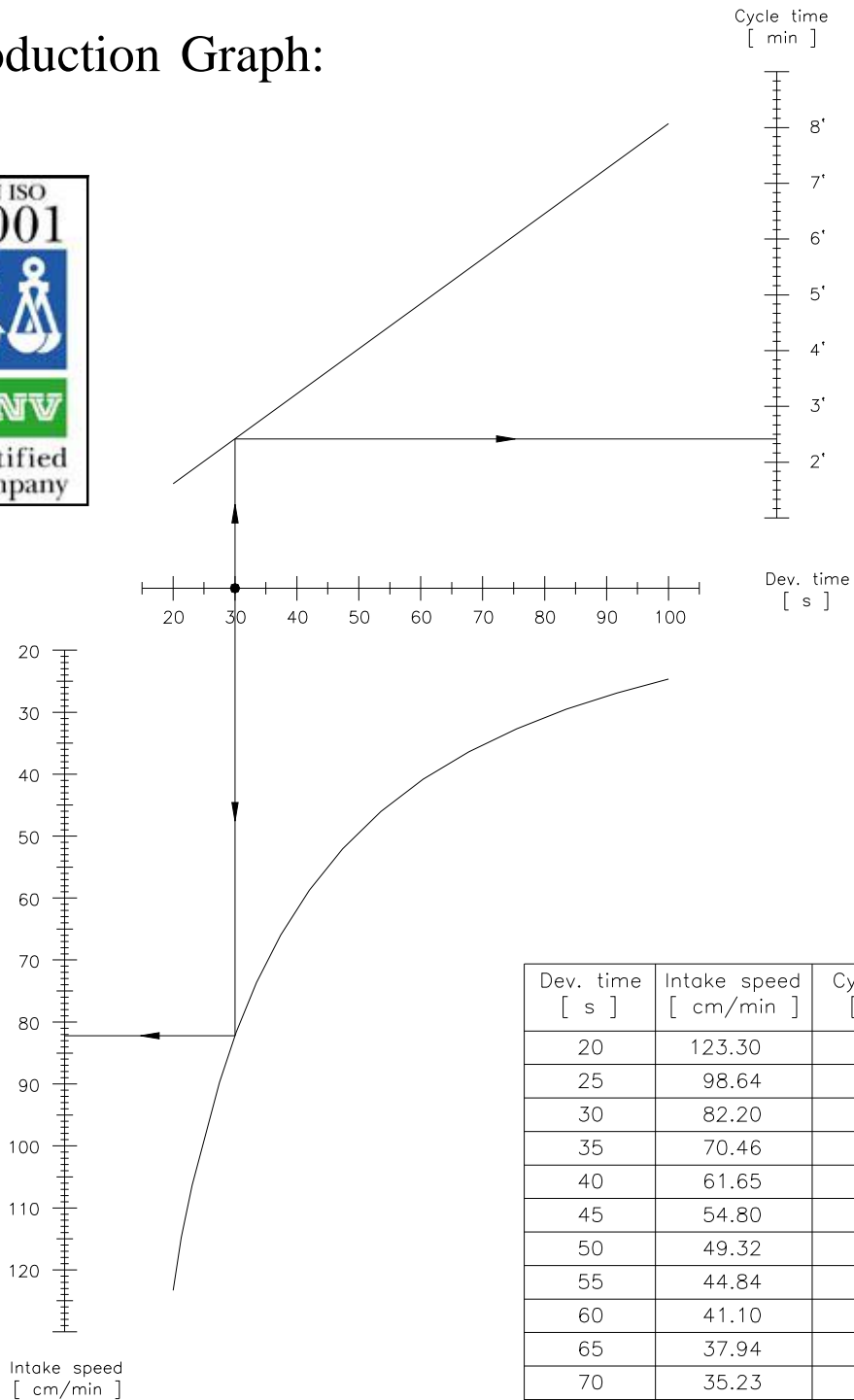
Capacity: 100cm/min at 30sec DEV time



Rinsed crossover rollers to minimize the carry over of chemistry from one section to the next

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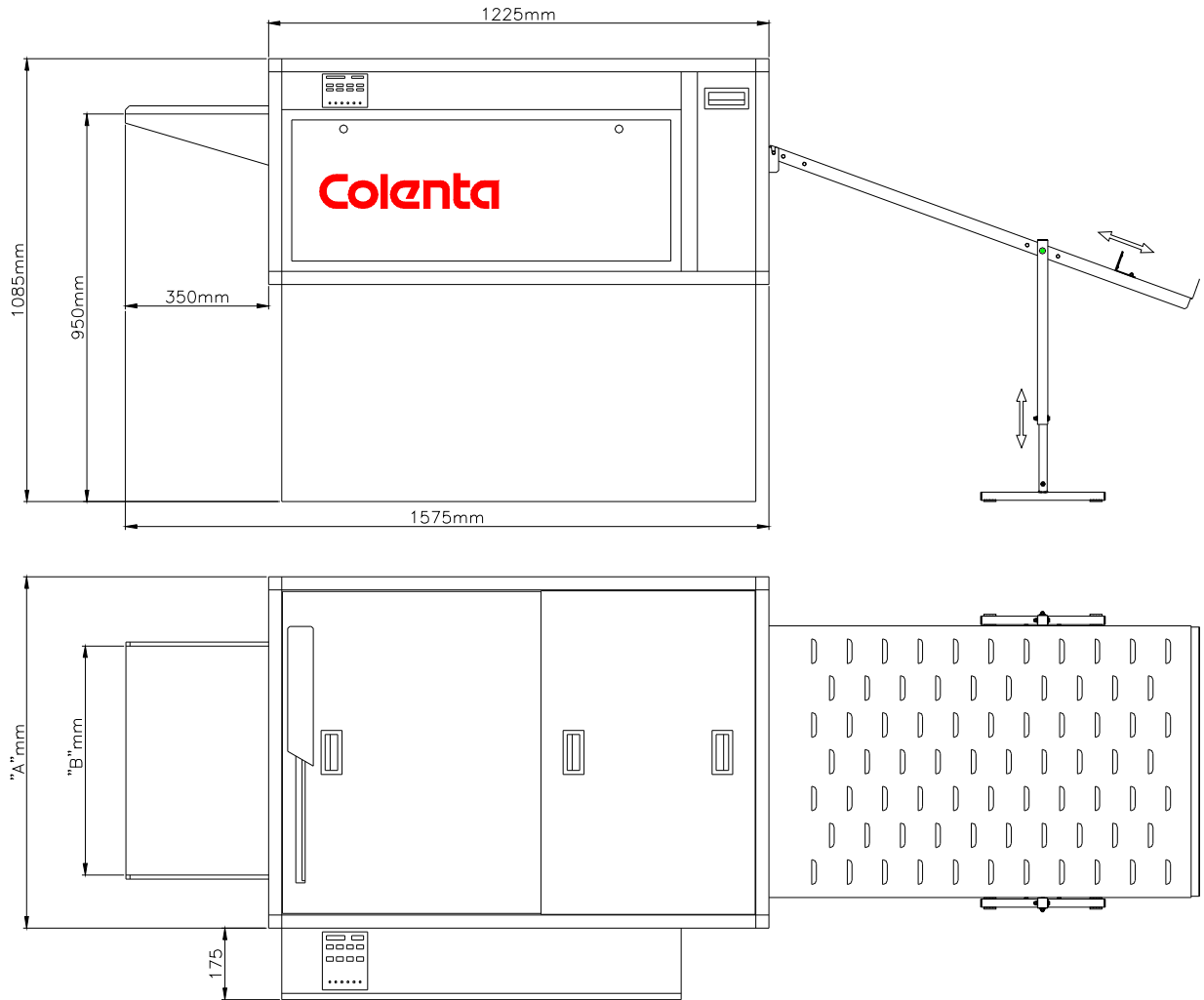
Production Graph:



Dev. time [s]	Intake speed [cm/min]	Cycle time [min]
20	123.30	1.61
25	98.64	2.02
30	82.20	2.42
35	70.46	2.83
40	61.65	3.23
45	54.80	3.63
50	49.32	4.04
55	44.84	4.44
60	41.10	4.84
65	37.94	5.25
70	35.23	5.65
75	32.88	6.06
80	30.83	6.46
85	29.01	6.86
90	27.40	7.27
95	25.96	7.67
100	24.66	8.07

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Dimensions:



	A	B
IL 35 PCB NG	650mm	350mm
IL 56 PCB NG	860mm	560mm
IL 66 PCB NG	960mm	660mm
IL 80 PCB NG	1100mm	800mm
IL 95 PCB NG	1250mm	950mm
IL 110 PCB NG	1400mm	1100mm



We recommend a minimum walking space around the processor of 50cm.

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Electrical Supply: (Standard, when 3N~400/230V, 50/60 Hz is supply available)

3N~400/230V 50/60Hz

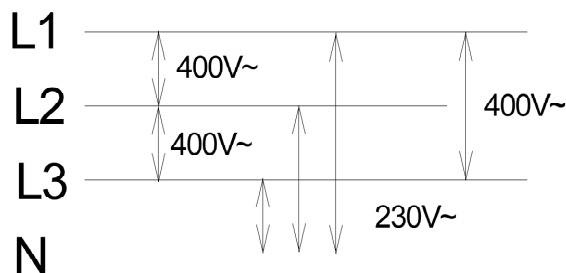
IL 37 NG
5,6 kW
13 A

IL 56 NG
6,5 kW
13 A

IL 66 NG
6,4 kW
13 A

IL 80 NG
6,4 kW
13 A

IL 95 NG
7,3 kW
16 A



PE

Attention:

Line voltage 400V in respect to other lines.
Line voltage 230V in respect to neutral.

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

3 ~ 230V 50/60Hz

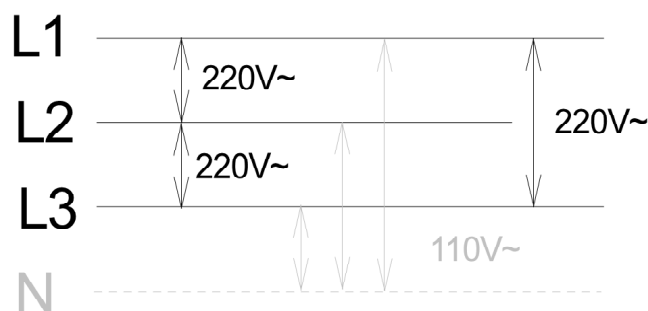
IL 37 NG
5,6 kW
16 A

IL 56 NG
6,5 kW
20 A

IL 66 NG
6,4 kW
20 A

IL 80 NG
6,4 kW
20 A

IL 95 NG
7,3 kW
20 A



PE

Attention:

Line voltage 220V in respect to other lines.
Line voltage 110V in respect to neutral.
Neutral is not used

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Electrical Supply: (alternatives, to be indicated when ordering)

~ 230V 50/60Hz

IL 37 NG

5,6 kW

25 A

IL 56 NG

6,5 kW

32 A

IL 66 NG

6,4 kW

32 A

IL 80 NG

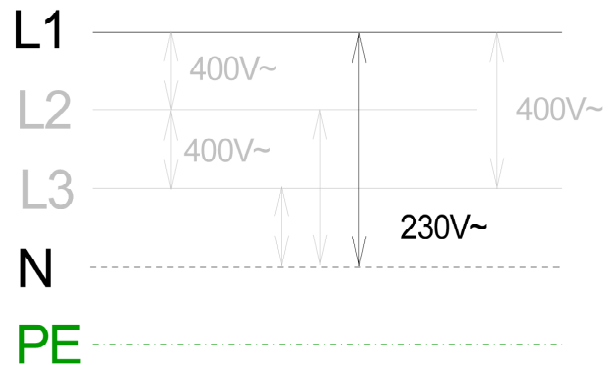
6,4 kW

32 A

IL 95 NG

7,3 kW

32 A



Attention:
Only L1-N = 1 x 230V is connected.

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Details for shipment:

35 NG	packing dimensions: 1 carton box on palette 170cm x 120cm x 140cm (L x W x H) packing volume: 2,856 m ³ weight with packing: 320 / 340 kg
56 NG	packing dimensions: 1 carton box on palette 170cm x 120cm x 140cm (L x W x H) packing volume: 2,856 m ³ weight with packing: 340 / 360 kg
66 NG	packing dimensions: 1 carton box on palette 170cm x 120cm x 140cm (L x W x H) packing volume: 2,856 m ³ weight with packing: 360 / 380 kg
80 NG	packing dimensions: 1 carton box on palette 180cm x 135cm x 140cm (L x W x H) packing volume: 3,524 m ³ weight with packing: 390 / 450 kg
95 NG	packing dimensions: 1 carton box on palette 180cm x 150cm x 140cm (L x W x H) packing volume: 3,780 m ³ weight with packing: 460 / 490 kg
110 NG	packing dimensions: 1 carton box on palette 180cm x 150cm x 140cm (L x W x H) packing volume: 3,780 m ³ weight with packing: 490 / 520 kg