ADELCO

MODEL DESIGNATION

PC : PRO-CURE
G : Gas E : Electric

PC-150G-5

150 : belt width (CM)
5 : oven length (M)

ADELCO ALSO MANUFACTURE

Matrix Printing Press

Hybrid Digital Printers and Flash cure Units

Dual Dryer

Digi-Cure Dryer

PRO-CURE ADELCO

★ High Performance   ★ High Production   ★ Low Running Costs   ★ Low Emissions

CE UL CSA AGA

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PRO-CURE ADELCO
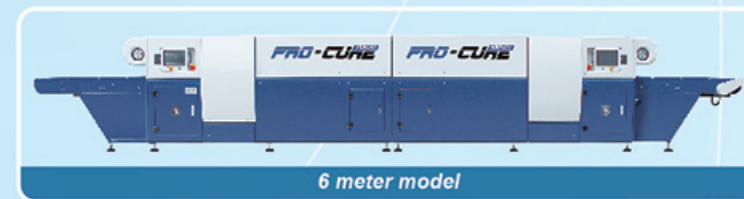
THE MOST TECHNICALLY ADVANCED TEXTILE CURING SYSTEM AVAILABLE
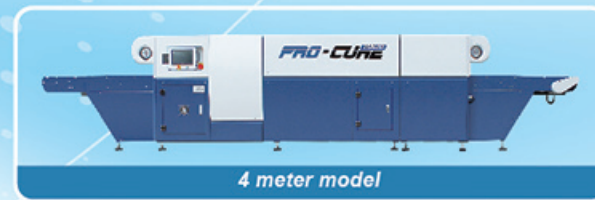
- The most Efficient and consistent dryers in the world
- Reduce your costs and your carbon footprint by investing in proven drying technology
- Save money and improve your curing ability

3 meter model

6 meter model

4 meter model

5 meter model

ADELCO

INTRODUCTION:

Adelco Have specialised in manufacturing and supplying quality equipment to the printing industry since 1972.

We have built a reputation for producing equipment with the latest technology and highest specification through a worldwide distribution and support network.

With Headquarters in the UK and Hong Kong and our own Advanced Manufacturing and Production Facility in China with In House Design, Software, CNC Machining, Fabrication, Electrics, R&D, Packing and Stringent Quality Control Departments, Allowing us a Vertical Operation to produce the highest quality and most Technically advanced equipment.
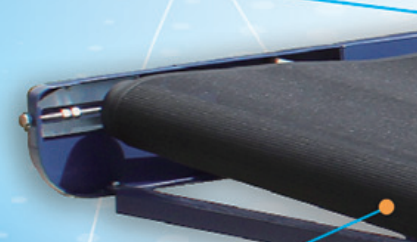
We realise our customers have a choice in their equipment suppliers which is, why Adelco have an extensive development programme to ensure our products provide unique and unmatched specifications.

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PRO-CURE ADELCO

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New Features

- Features new Vacuum pull-down that provides exceptional stability of delicate fabrics preventing lifting/flipping of fabrics or transfer paper whilst under high velocity Jet Air curing technology.
- Even higher airflow through the garment for increased airflow penetration leading to faster curing times, and unmatched wash fastness.
- Features new "Eco Extractor + technology" which utilizes more clean filtered air whilst extracting 100% more contaminated air and fumes and still maintaining superior energy efficiency levels.
- New touchscreen interface design, easier to navigate and reacts faster.
- Unique built in hood extraction helps prevent fumes from escaping in to your factory as products enter and exit the oven for a cleaner, more pleasant working environment.
- Fast & easy to clean fine filtration system that can be cleaned even whilst the dryer is running, no replacement filters required.
- Reduced energy consumption for the lowest running costs.
- Integral exhaust connected from top of dryer with easily adjustable exhaust outlet valve
- Lint filter removable from either side of dryer (No replacement filters required)
- Removable end panels for easy cleaning access

Callouts

- Integral feed and outfeed exhausts remove chemicalsand contaminated air from the workplace
- Integral exhaust adjustment
- Optional VOC (Volatile Organic Compounds) Exhaust Filtration system
- Optional integrated digitally controlled quartz pre-heat for temperature boost at oven entry
- Air curtain cooling maintains a cool outer skin
- Strongest jet airflow on the market with integrated vacum hold down intergrates new technology in curing and ink penetration
- The Worlds easiest maintainable Curing System allows pitstop speed service in minutes
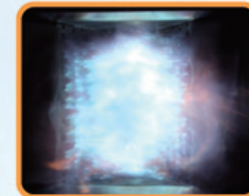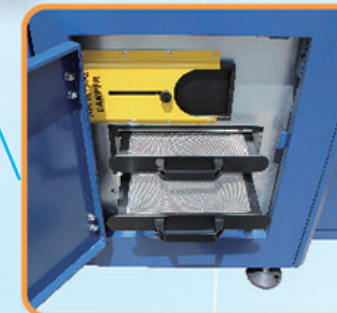- The strongest, toughest and longest lasting conveyor belts on the Market
- Auto Tension, Self-Tracking rollers
- Highly Efficient, Direct Ultra Violet Controlled Burner System.
- Quick release panels for ultra fast serviceability and maintenance
- Sophisticated fold away control panel interface
- Recycles clean filtered air and extracts contaminated air
- Small quick release fine filters for simple/fast maintenance, even whilst dryer is running, no replacement filters required.

Standard Features

- Five belt widths available
- Ovens are fully modular enabling the exact dryer length to be chosen to suit all curing requirements and be expanded at a later date.
- Unique digital automatic belt speed control. Enter the time in minutes and seconds for automatic belt speed adjustment that is precise and repeatable every time.
- Triple insulation with air curtain for the coolest exterior skin ever
- Air intake from both sides of oven giving unrivalled heat distribution.

Production Capacities (Based on 3 meter oven length)

Model	PC 75	PC 100	PC 120	PC 150	PC 180
1 minute (Plastisol Ink)	360/hour	360/hour	720/hour	720/hour	1080/hour
2 mins (Waterbased/Discharge Ink)	180/hour	180/hour	360/hour	360/hour	540/hour
3 mins (Kornit Digital no white ink/light coloured fabrics)	120/hour	120/hour	240/hour	240/hour	360/hour
7 mins (Kornit Digital with white ink/dark coloured fabrics)	52/hour	52/hour	104/hour	104/hour	156/hour

Based on a 3 M oven length. Production increases 30% for a 4 M oven, 60% for a 5 M oven and 100% for a 6 M oven and decreases by 30% for a 2 M oven. Allowing for one size of garments to be placed every 50cm. One line of products on 75cm and 100cm belts, two lines on 120cm and 150cm and three lines on 180cm. Production rates will alter depending on the product placement and the time/temperature settings chosen for the individual curing requirements. Wash tests should be undertaken to ensure the correct time and temperature combination for specific ink types.

Gas Dryer Specifications

Description	PC75G-3	PC100G-3	PC120G-3	PC150G-3	PC180G-3
Electrical Supply (Voltages confirmed at time of ordering. Other voltages available on request)	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V
Natural Gas Pressure	10" W. G/ 25mbar	10" W. G/ 25mbar	10" W. G/ 25mbar	10" W. G/ 25mbar	10" W. G/ 25mbar
Natural Gas Connection	3/4" BSP	3/4" BSP	3/4" BSP	3/4" BSP	3/4" BSP
Propane Gas Pressure	Line Pressure Reduced to 37mb	Line Pressure Reduced to 37mb	Line Pressure Reduced to 37mb	Line Pressure Reduced to 37mb	Line Pressure Reduced to 37mb
Propane Gas Connection	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
BTU REQUIRED	125,000	150,000	175,000	200,000	225,000
Time From ambient temp no 160°C	Approximately 8 mins	Approximately 8 mins	Approximately 10 mins	Approximately 12 mins	Approximately 15 mins
Maximum Electrical Consumption	2.75Kw	4Kw	4Kw	4.5Kw	4.5Kw
Exhaust Dia	150mm (6 Inch)	200mm (8 Inch)	200mm (8 Inch)	250mm (10 Inch)	250mm (10 Inch)

Electric Dryer Specifications

Description	PC75E-2	PC75E-3	PC100E-2	PC100E-3	PC120E-3	PC150E-3	PC180E-3
Electrical Supply (Voltages confirmed at time of ordering. Other voltages available on request)	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V	3Phase, 50/60HZ 200/220V & 380/415V
Maximum Electrical Consumption	20Kw/h	26Kw/h	28Kw/h	40Kw/h	40Kw/h	49Kw/h	49Kw/h
Average Electrical Consumption at 180°C	14Kw/h	18Kw/h	20Kw/h	28Kw/h	30Kw/h	32Kw/h	38Kw/h
No & KW of Elements	9x2Kw (18KW)	12x2Kw (24KW)	12x2Kw (24KW)	12x3Kw (36KW)	12x3Kw (36KW)	15x3Kw (45KW)	15x3Kw (45KW)
Exhaust Dia	150mm (6 Inch)	150mm (6 Inch)	200mm (8 Inch)	200mm (8 Inch)	200mm (8 Inch)	250mm (10 Inch)	250mm (10 Inch)

PRO-CURE gas dryer operating costs chart

Belt Width	Oven Length	Average Gas Consumption kg/hr	Average Gas Consumption kwh	Average Electric Consumption kwh
180cm	3 Meter	2.8	24.5	3.3
	4 Meter	3.3	29	3.5
	5 Meter	3.5	31	3.7
	6 Meter	5.5	48.5	6.5
150cm	3 Meter	2.6	23	3.2
	4 Meter	3	26.5	3.4
	5 Meter	3.2	28	3.6
	6 Meter	5	44	5.8
120cm	3 Meter	2.4	21	2.8
	4 Meter	2.7	24	3
	5 Meter	2.9	25.5	3.2
	6 Meter	4.6	40.5	5.0
100cm	2 Meter	2	18	2
	3 Meter	2.2	19.5	2.2
	4 Meter	2.4	21	2.3
	5 Meter	2.5	22	2.4
	6 Meter	4.2	37	4.0
75cm	2 Meter	1.8	16	1.2
	3 Meter	2	18	1.4

TOUCH SCREEN CONTROL PANEL

ADELCO

Curing Time	Actual Temperature	Set Point
2 : 0	0	160

Flame Signal

Set LB: 50

PRO-CURE

Touch Panel control Screen features include

- Belt speed adjustment. Enter the time required in the oven in mins and watch the belt speed change automatically
- Digital temperature control
- Alarm history shows any safety or temperature fluctuation alarms with date and time record
- On screen flame signal

Adelco figures taken from consumption tests, averaged per hour at 160 degrees, with exhaust closed. Consumption figures can change according to local environment, production throughput, ink and product types. Adelco reserve the right to revise or review these figures as required.

150 split belt model
4 meter model
5 meter model
6 meter model