

# ACP 505

*the top model in the ACP-range*



**maximum  
processing width  
50 cm**

*You experience the full range of colours with the ACP developing machines.*

## Outstanding technical performance

The ACP 505, at the top of the THERMAPHOT range, offers all features that can be expected from a modern, compact table-top processor with optimum cost effectiveness.

The ACP 505 is suitable for opaque material developed in RA-4 and compatible processes as well as B/W processes. In addition, it is possible to process transparent material in RA-4 with a width limit of 35 cm.

The ACP 505 is a dry-to-dry processor with exceptionally powerful circulation pumps. The developer rack is equipped with a special spray bar. When designing the unit, THERMAPHOT took special care to minimize the air distance between the developer bath and the fix bath.

Optimized construction and high-precision racks ensure excellent protection of the chemical baths against oxidation. Condensation is reduced by a special cover above the baths, providing for efficient utilisation of chemicals and increased cost efficiency.

The two heat exchangers of the ACP 505 ensure that the chemicals are not affected by the warming-up process, while chemical carry-over is minimized by efficient squeegeeing, avoiding pollution.

The accommodation of 5 tanks, 3 of which are water or stabilizer tanks, and an infrared dryer, on a length of 95 cm is a singular achievement in the construction of photo processing machines.

The compact, space-saving design, together with a small tank volume of 5.5 l per tank and a water consumption of only 1.4 l/min. makes the ACP 505 a class of its own, ensuring an unusually short warming-up time.

The narrow racks and the very efficient, electronically controlled infrared dryer help reduce the floor space required for the installation of the ACP 505 to 88 x 69 cm.

Easy maintenance and servicing is ensured by the quick removal of the chemical filters and perfect access from above to all components.

An optional heat exchanger allows the regulation of the water temperature by heat recovery from the water overflow. In this case, a cold water supply is sufficient for the operation of the ACP 505.

The large paper insertion lid can be closed immediately after inserting paper of up to 50 x 40 cm (rolled), making operation even more convenient.

### Range of use

The ACP 505 can be used in a wide range of applications: portrait photography, schools, companies, institutions, press/wedding photography and many more.

### Real genius must be simple!

Thanks to triple squeegeeing in the cross-over rack on the way to the dryer, about 95% of the residual liquids are gently removed from the photographic layer. The subsequent drying in the infrared dryer provides prints of inimitable brilliance.



ACP 505 with racks taken out



## THERMAPHOT offers two different solutions for the ACP 505 machine control

### Microprocessor control:

All events are controlled by state-of-the-art microprocessor technology. The operation of the processing machine does not require any special knowledge, as there is a choice of 19 different programmes, ten of which are pre-adjusted to the most common processes and can be activated by the push of a button. The remaining nine channels can be programmed freely to suit individual requirements.

In addition, the integrated timer clock allows automatic switch-on of the unit at a pre-set time.

### ◀ The digital control panel of the ACP 505:

*The buttons allow precise control and adjustment of all functions.*

### Analogue control:

Reliable operation of the ACP 505 can also be ensured by the well-tried conventional electronics system used in the ACP 305. Once the values have been adjusted, they remain absolutely constant; however, modifying them is only a matter of seconds.

### ◀ Perfect clarity

*The well-designed control panel of the ACP 505 Analogue allows quick and simple adjustment of all processing parameters.*

### ◀ The fully automatic replenishment system of the ACP 505

*An infrared measuring bar with 5 sensors detects the width and length of the inserted paper, adjusting automatically the replenishment intervals. It also controls the operation of the dryer infrared tube and the magnetic valve of the water bath (economy mode).*

### ◀ The pump compartment of the ACP 505 Analogue

*Pumps and heat exchangers are easily accessible once the 6 screws of the cover are removed.*

### Excellence through compactness

- compact design requiring a floor space of only 88 x 69 cm
- dry-to-dry processing thanks to an integrated, electronically controlled infrared dryer
- large paper insertion lid can be immediately closed even if large formats (up to 50 x 40 cm) are processed
- 5 tanks including infrared dryer, available as either wash or washless version (3-tank cascade)

### Ease of use and low pollution

- quick warming-up and low power consumption through small tank volumes
- all important components accessible from above, ensuring easy maintenance and servicing
- integrated water heating and heat recovery from the water overflow (optional), allowing connection to cold water supply
- economy mode for low water consumption (with electronic regulation)
- silent operation
- brilliant prints through gentle infrared drying
- optimum squeegeeing for reduced chemical carry-over
- extremely short air distance between developer and bleach/fix bath
- entrance speed (RA-4): 46 cm/min.
- temperature regulation: +/- 0.1°C precise

- filtration of developer and bleach/fix baths (washless version: also tanks 3 and 5)

### Cutting-edge technology

- continuous adjustment of all important parameters such as speed, temperature and replenishment quantities
- automatic replenishment controlled by a 5-sensor surface detector; manual replenishment by the push of a button
- optical insertion control with LEDs indicating the insertion space used
- central splash-proof control panel
- permanent ventilation to reduce condensation
- narrow racks to protect against oxidation
- maximum utilisation of chemicals, as no daily emptying and cleaning of baths is necessary
- powerful circulation pumps in the baths, with spray bar in the developer rack

### Protection of the environment

- THERMAPHOT offers the ACP 505 both in a wash and a washless version. The use of stabilizer baths makes the processor independent from the water supply. The print quality is the same as with the water bath version.

#### ACP 505 - Technical data:

Length:	95 cm
Width:	85 cm
Height:	45 cm
Weight (empty):	approx. 95 kg
Entrance speed:	46 cm/min (RA-4)
Power supply:	230V/240V, 50 Hz 110V/115V, 60 Hz
Max. power consumption:	2.2 kW

#### ACP 505 - Capacity (RA-4):

Format (cm)	Prints per hour
9 x 13	760
13 x 18	410
20 x 25	250
30 x 40	85
40 x 50	64
50 x 60	42
Tank volume: approx. 5,5 l	

# Overview of products

## Technical data at a glance: THERMAPHOT paper processors

Product range	ACP 505	ACP 502	HSD 502	ACP 404	ACP 404 BW
Maximum paper format (cm)	50 x 70	50 x 70	50 x 70	40 x 50	40 x 50
Minimum paper format (cm)	9 x 13	9 x 13	9 x 13	9 x 13	9 x 13
Number of tanks	5	2	1+1	4	4
Tank volume (liter/tank)	approx. 5,5	approx. 5,5	approx. 1+5,5	approx. 4,5	approx. 4,5
Dimensions (L x W x H in cm)	approx. 95 x 85 x 45	approx. 62 x 78 x 41	approx. 30 x 78 x 43	approx. 85 x 75 x 45	approx. 85 x 75 x 45
Floor space (L x W in cm)	approx. 88 x 69	approx. 52 x 66	approx. 22 x 66	approx. 78 x 59	approx. 78 x 59
Weight in Kg (empty)	approx. 95	approx. 46	approx. 28	approx. 69	approx. 69
Entrance speed (cm/min.)	10 - 70	10 - 70	same as ACP 502	10 - 70	10 - 70
Processing time range (sec.)	32 - 210	32 - 210	-	32 - 210	32 - 210
Processing temperature range (°C)	28 - 45	28 - 45	-	28 - 45	28 - 45
Total processing time (min:sec.)	4:15 with RA-4	1:35 with RA-4 3:05 with HSD	1:30 with RA-4	3:25 with RA-4	2:30 with BW
Replenishment	automatic	manual optional: automatic	-	manual optional: automatic	manual optional: automatic
Drying	yes infrared tube	no yes with HSD 502	yes infrared tube	yes infrared tube	yes infrared tube
Water consumption (l/min.)	1,4	-	3	1,9	1,9
Capacity in prints/hour format (cm)/approx. qty. (RA-4)	9 x 13 / 760 13 x 18 / 410 20 x 25 / 250 30 x 40 / 85 40 x 50 / 64 50 x 60 / 42	9 x 13 / 760 13 x 18 / 410 20 x 25 / 250 30 x 40 / 85 40 x 50 / 64 50 x 60 / 42	same as ACP 502	9 x 13 / 550 13 x 18 / 365 20 x 25 / 200 30 x 40 / 85 40 x 50 / 52	9 x 13 / 720 13 x 18 / 475 20 x 25 / 260 30 x 40 / 110 40 x 50 / 68
Suitable processes	BW; RA-4 and compatible processes	BW; RA-4 and compatible processes	same as ACP 502	BW; RA-4 and compatible processes	BW
Max power consumption (kW)	2,2	0,65	0,9	1,5	1,5
Order no. 230/240V, 50Hz	2502 (Micro/water) 2506 (Micro/Stabi) 2504 (Analog/water) 2508 (Analog/Stabi)	2512 2514 (replenishment)	2516	2404	2402
Order no. 110/115V, 60Hz	2501 (Micro/water) 2505 (Micro/Stabi) 2503 (Analog/water) 2507 (Analog/Stabi)	2511 2513 (replenishment)	2515	2403	2401
Accessories 230/240V, 50Hz		2412 (replenishment kit)		2412 (replenishment kit)	2412 (replenishment kit)
Accessories 110/115V, 60Hz		2411 (replenishment kit)		2411 (replenishment kit)	2411 (replenishment kit)

ACP 305	ACP 302	ACP 252	ACP 200	UCP 403	UWD 402
30 x 40	30 x 40	24 x 30	20 x 25	40 x 50	40 x 50
9 x 13	9 x 13	9 x 13	9 x 13	13 x 18	13 x 18
5	2	2	2	3	2
approx. 3,4 (optional 2,4)	approx. 2,4 (optional 3,4)	approx. 2	approx. 2,5	approx. 2	approx. 4
approx. 84 x 60 x 40	approx. 48 x 54 x 41	approx. 42 x 45 x 28	approx. 62 x 43 x 25	approx. 85 x 60 x 30	approx. 70 x 60 x 30
approx. 78 x 44	approx. 44 x 44	approx. 42 x 45	approx. 52 x 30	approx. 81 x 47	approx. 66 x 47
approx. 59	approx. 29	approx. 16	approx. 13	approx. 31	approx. 32
46 or 65 optional 10 - 70	46 or 65 optional 10 - 70	33 or 45	28, 11 or 6 optional: 42, 14, 8	6 - 53	same as UCP 403
32 or 45 optional 32 - 210	32 or 45 optional 32 - 210	32 or 45	45, 120 or 210 optional: 30, 90, 150	20 to 180	-
28 - 45	28 - 45	28 - 45	28 - 45	30 - 42	30 - 42
4:15 with RA-4	1:30 with RA-4	1:30 with RA-4	1:30 with RA-4	6:00 with P30P	3:00 with P30P
manual optional: automatic	manual optional: automatic	manual	manual	not required	not required
yes infrared tube	no	no	no	no yes with UWD 402	hot air
1,4	-	-	-	-	-
9 x 13 / 540 13 x 18 / 180 20 x 25 / 90 30 x 40 / 55	9 x 13 / 540 13 x 18 / 180 20 x 25 / 90 30 x 40 / 55	9 x 13 / 260 13 x 18 / 130 18 x 24 / 100 24 x 30 / 65	9 x 13 / 150 13 x 18 / 110 18 x 24 / 65 20 x 25 / 65		
BW; RA-4 and compatible processes	BW; RA-4 and compatible processes	BW; RA-4 and compatible processes	BW; RA-4 and compatible processes	P30P/XP30 P22/P222 P5 BW; RA-4 and compatible processes	same as UCP 403
1,4	0,5	0,55	0,3	0,5	1,7 (UCP+UWD)
2604 (BWD) 2606 (BWDVDR) 2608 (BSDVDR)	2302 2304 (Vario) 2312 (Vario/ replenishment)	0202	0402	6102	6202
2603 (BWD) 2605 (BWDVDR) 2607 (BSDVDR)	2301 2303 (Vario) 2311 (Vario/ replenishment)	0201	0401	6101	6201
2612 (Vario Kit) 2412 (replenishment kit)	2306 (Vario Kit) 2307 (Kit 3,4 l > 3,4 l)		04710 (High Speed Kit for BW)		
2611 (Vario Kit) 2411 (replenishment kit)	2305 (Vario Kit) 2308 (Kit 3,4 l > 2,4 l)		04710 (High Speed Kit for BW)		

*THERMAPHOT products are being constantly developed to the latest state of the art. They are therefore subject to modifications without notice. As of: September 1998*