

ACP 302

The developing miracle



**maximum
processing width
30 cm**

With most modern CNC-controlled machine tools THERMAPHOT also manufactures most complicated production tools for the proper manufacturing.

The biggest small processor

The ACP 302 is the biggest of our three small 2-tank processors. In spite of its compact dimensions of only 48 x 54 x 41 cm, it can process paper sizes of up to 30 x 45 cm, which makes it an ideal machine not only for amateur but also for semi-professional applications.

With the ACP 302, THERMAPHOT's engineers concentrated on the basics. The ACP 302 can process colour and black-and-white prints without being connected to a water supply. After being transported through the developer and the bleach-fix bath (black-and-white processing: fix bath instead of bleach-fix bath), any residual chemicals are carefully squeezed from the prints which leave the machine through two rollers at the end of the bleach bath rack. The prints are subsequently washed in a separate washing unit or a water bowl. For drying, different procedures can be used (air, fan, automatic drying unit, etc.).

The baths are kept at the required temperature by a heat exchanger, which guarantees a long lifetime of the chemicals. A high-precision thermostat keeps the temperature at the programmed value with a tolerance of just $\pm 0.1^\circ\text{C}$. The baths are circulated by powerful pumps. The bath filters located in the tanks can be removed and rinsed in a few seconds. A special spray bar in the developer rack keeps processing quality absolutely consistent.

In the basic version, the drive shaft and thus the racks are driven by an adjustable motor with two differently sized toothed wheels. To switch between the transport speeds for RA-4 and black-and-white processing, it is sufficient to quickly shift the drive belt from one wheel to another.

The ACP 302V, with electronic speed variation, allows for adjustment of the processing time by a control dial.

Existing units without electronic speed variation can easily be upgraded with a control board offered by THERMAPHOT.

It is also possible to transform the ACP 302 into a full-blown professional machine by equipping it with a replenishment pump. This means that there is no need for the ACP 302 to be connected, via hoses and cables, to a separate unit. In spite of the space restrictions imposed by the compact size, the pump is easily accessible.

In order to meet the needs of users who only process small quantities of paper and wish to save chemicals, the ACP 302 is available with two different tank volumes: 2.4 l and 3.4 l.

For operation with 2.4 l, the racks are fitted with filling elements which reduce the tank volumes from 3.4 l to 2.4 l and, at the same time, serve as paper leads.

For operation with 3.4 l, the filling elements are replaced by thin and hollow plastic paper leads.

The basic version of the ACP 302 is shipped with 2.4 l tank volumes. However, an add-on kit containing 4 easy-to-fit plastic parts allows you to extend tank volumes to 3.4 l in a few minutes. Optionally, the unit can be shipped with 3.4 l tank volumes. An add-on kit is available for this version as well, allowing to reduce tank volumes to 2.4 l.

Further advantages:

- easy and comfortable operation
- two different transport speeds for RA 4, Fuji FA, B/W, etc., selected mechanically
- variable speed motor prepared for upgrade with speed control electronics
- possibility of manual replenishment (the tanks are equipped with overflows)
- can be shipped with automatic replenishment system (as an option)

ACP 302 - Technical data:

Length:	48 cm
Width:	54 cm
Height:	41 cm
Weight (empty):	approx. 29 kg
Entrance speed:	46 cm/min (RA-4)
Power supply:	230V/240V, 50 Hz 110V/115V, 60 Hz
Max. power consumption:	500 W

ACP 302 - Capacity (RA-4):

Format (cm)	Prints per hour
9 x 13	540
13 x 18	180
20 x 25	90
30 x 40	55

Tank volume: approx. 2,4 l (3.4 l as an option)

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 (BWDVR) 2608 (BSDVR)	2302 2304 (Vario) 2312 (Vario/ replenishment)	0202	0402	6102	6202
2603 (BWD) 2605 (BWDVR) 2607 (BSDVR)	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