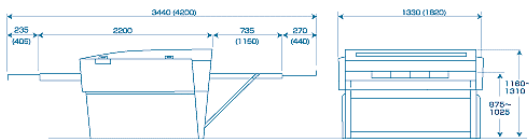


DIAMONDPLATE THERMAL PLATE PROCESSOR

Model	DiamondPlate 85 Thermal	DiamondPlate 135 Thermal
Maximum Plate Size	33.5" (850mm)	53" (1350mm)
Minimum Plate Size	13.5" (340mm)	13.5" (340mm)
Developer Tank Capacity	10.5 gal (40L)	16 gal (60L)
Power*	230V, 1 or 3 Phase, 50/60HZ, 2x30 A main fuse with single phase without neutral 3x30 A main fuse with 3 phase without neutral	230V, 1 or 3 Phase, 50/60 HZ, 2x40 A main fuse with single phase without neutral 3x40 A main fuse with 3 phase without neutral
Water Supply/Water Pressure	3/4" male connection 15-87 psi or 1-6 bar	3/4" male connection 15-87 psi or 1-6 bar
Dimensions:		
Width	52.5" (1330mm)	71.5" (1820mm)
Length		
With Entry Table	96" (2435mm)	103" (2605mm)
With Entry Table & Catch Tray	135" (3440mm)	165" (4200mm)
Without Entry Table & Catch Tray	68" (1730mm)	68" (1730mm)
Height	45.7" (1160mm)	51.6" (1310mm)
Weight	716lbs (325kg)	1157lbs (525kg)

3 Phase is standard – Single Phase Available – must be specified at order entry



DIAMONDPLATE LT-2 FEATURES

- **Excellent Dot Resolution of 1/2% - 99-1/2% dot**
- **Positive Working - Requires no pre-bake or post bake**
- **Small Foot Print**
- **Less Energy needed than Negative Working Plates**
- **Excellent ink/water balance**
- **Runs lengths of 250,000 without baking – 1M with baking**
- **Excellent chemical yield- very low replenishment rate**
- **Fast imaging rate**
- **Low Maintenance Plate Processor**
- **High Image Contrast After Imaging for Improved Plate Proofing**
- **Very Stable System**



DIAMONDPLATE LT-2 VS COMPETITIVE THERMAL PLATES



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Features and Benefits – DiamondPlate LT-2 vs Competition

Features and Benefits

LT-2 vs KPG 830

- LT-2 is a Positive working plate - No Pre-heat requirements
 - Saves \$.25 per sq ft of processed plates on energy costs for account size of 100,000 sq ft annually
 - New Compact Thermal Processing System not performing and commercialization has been delayed. Thermal pre-heat oven plus post bake oven is required. Compare floor space requirement of KPG of 37.5 feet to LT-2 space requirement of 11 feet.
- DiamondPlate LT-2 is same imaging speed as the negative working KPG 830. Thus plate output from the platesetter is the same as Kodak. Then consider pre-heating and post baking requirements of KPG plate – productivity is higher on LT-2 than on KPG 830 plate
- KPG has sensitivity issues if plate is not post baked, therefore, even short run accounts require post baking.
- Dot resolution on KPG 830 is inferior to LT-2
- Plate cracking occurs on some presses

Features and Benefits

LT-2 vs Electra

- Run lengths are 1/4 those of LT-2
- Scratching due to handling is very severe
- Not compatible with many pressroom chemicals
- Exposure speeds are 1 full step slower than LT-2
- Very inconsistent manufacturing quality

Features and Benefits

LT-2 vs Sword

- Sword is not qualified on 20W lasers of Creo
- Sword only holds 25 micron dot
- Sword has a slow image speed
- Chemistry usage on Sword is very high, published yields are 3500 sq ft.

Features and Benefits

LT-2 vs LH-N (Fuji)

- Fuji has both a negative and positive working plate.
 - Our benefits over the negative working plate (LH-N) are similar to those of the KPG 830 plate
 - Processing chemicals require close regulation of conductivity in processor for proper plate development

Features and Benefits

LT-2 vs LH-P (Fuji)

- The exposure speed on the LH-P is very long, which requires a higher laser setting and in many instances, ablation results, requiring more service calls and cleaning of the optics. LT-2 requires 20% less laser power
- The processor requires very laborious maintenance. Finisher gets concentrated and sticky – does not coat finisher evenly and is difficult to clean
- Replenishment rate is 3 to 4 times higher than LT-2
- Plate exhibits inconsistent highlight reproduction and requires critical calibration control – maximum dot reproduction is 2.5% dot at 50% screen compared to 1/2% dot on LT-2
- Poor after exposure image contrast, making proofing difficult

- Baking has no effect on run lengths – cannot achieve higher run length by baking
- The ink water balance of the LH-P is very narrow. Ink density fluctuates on those dampening systems with molten rollers.
- In many instances the LH-P required gumming on press during shut down
- Scratches and fingerprints easily

Features and Benefits

LT-2 vs P970 (AGFA)

- The run lengths on P970 is 40% less than LT-2 as published (150,000 vs 250,000)
- Availability is very limited and capacity issues remain a problem today
- Dot resolution of the LT-2 is far superior than that of P970
- The processor requires very laborious maintenance.

Features and Benefits

LT-2 vs Spectratech

- Requires pre-heat and post-baking similar to the Kodak 830 plate.
- Customers have complained of a very offensive odor when plate is post baked. Requires extra ventilation due to odor.