Advanced Technology Hanger Processors

The Advanced Technology Hanger Processors are designed and constructed in the U.S.A. They incorporate the mating of computer control technology with proven mechanical concepts. Colex has selected from among the best components manufactured in the United States.

One of the most significant feature of the Advanced Technology Hanger Processor is the Graphical Interface, an advanced user interface based on long familiar standard used in Personal Computing. Colex has designed an interface that provides seamless operation and increased productivity over systems which employ conventional control schemes. Aided by the new interface, technicians with now have instant access to simple step-by-step routines which will help establish tighter process control, and maximized work flow.

An all-new process control center offers complete interactive control between the operator and the processor. A new level of control will be quickly realized because customized process parameters for individual hangers can now be efficiently "Queued" into the system with a single stroke simplicity of a "Smart Key". Included as standard is a keyboard for entering pertinent data such as customer name, film type, quantity of film per hanger, hanger number, first development time, and additional remarks.

Two on-board monitors give technicians a real-time display of all processing activity. It is displayed on an easy to read color monitor where you will find all hanger data entered by the operator. In addition, hanger progression with first development times, exit times, process temperatures, dryer temperature, wash, air, nitrogen and recirculation are continuously displayed. It's easy to follow each hanger as it advances through the processor, because all automatic functions are displayed in real time. This display gives the operator confirmation of all processing conditions. Control functions can be operated manually from the keyboard.

Additionally, a second monitor displays a live infrared video image of the Mechanical and burst agitation activity taking place in the dark section. Smooth operation is guaranteed thanks to an alarm system which will audibly and visually alert the operator.

At the heart of the control center is a standard PC Computer. Accessible at the control center is a standard 3.5" floppy drive, provided for software updating, and backup. Hard copy confirmation of proper processing diskette, giving you the film size, quantity, development time, customer name, and chronological record of production for management purposes. Colex can offer you continued enhancements and support for your future production requirements.

Mechanical Stability

The Advanced Technology Hanger Processors have to be designed for a demanding life cycle. The modular design tank section is constructed of high impact PVC, then mounted to a one-piece drip tray. The tanks are fitted with side mounted recirculation pumps and filters for easy access and removal. The main frame, cover panels and other metal components are constructed of stainless steel, the material of choice for a solid foundation. To ensure the safest possible transport a double sided, four-point lift mechanism is used that features a special tow-speed drive system to meet all film manufactures' "*Air Time*" processing specifications. For dependable tank-to-tank transport the high speed lift incorporates a reduced speed transfer mode, which eliminates "hanger swing" during tank transition. Accurate replenishment is based on the exact surface area of film sizes and quantities as entered into the system, no "averaging" is employed.

A Battery Backup System provides uninterrupted

Model ranges are available for different production capacities for E6, E6-PH, C41, Black & White, and T-Max film processing. Full push and hold capability is possible with a separate first developer transport system, available on the E6-PH models. The new advanced Technology Hanger Processors are available now to help you cover the gamut of the photographic industries' demands, right into the 21st century.

Available options:

Chemical Management Center or In-Line System to simplify your chemical mixing and replenishment needs.

power for continued processing in the event of a power failure.

Standard models have limited push & hold processing. For high capacity E6 production the PH models are designed to permit full push & hold processing independent of the secondary chemical process times. The PH models give you no loss of production capacity up to one stop push. No further operator attention is required after initial data entry.

Advanced User Interface Technology

F2 - System Setup

Program the Seven Day Timer for independent start and stop times for each day of the week.

F1 - Program New Hanger

Enter film size, quantity, first development time, hanger number, customer name and remarks. Queue the hanger when ready for processing.

F3 - Burst

User can program the burst cycle time. Both the "ON" and the "OFF" times are user programmable. The NItrogen saver permits bursting only setup window.
Normal features of replenishment, bursting and wash can only begin when the main transport has completely lowered to its bottommost position. This is indicated by returning the "transport" button back to its normal "grey" color.

F7 - Replenish

The replenishment rates for the first developer in terms of ml/ft² are entered in this window. Since the processor knows the quantity of each film size being processed, it calculates the correct amount of replenishment to the exact square inch. For E6 processing, a two zone system is used which staggers the color developer replenishment to coincide with the arrival of the film which initiated the replenishment cycle.

F11 - Temperature

when material is in a particular tank (First Dev. and/or Color Dev.)
To indicate each time the burst solenoid is active the color of the burst indicator button on the main screen will change to green. A Smart-Key combination will activate the burst solenoid(s) in the "manual" mode. Any subsequent key press returns the function to automatic operation.
Pre-bursting is selectable for E6, this allows the N_2 to start "before" sheet films enter the color developer tank. The system will automatically revert to normal burst patterns whenever it senses a "roll" film hanger being processed. It will change over to either early and/or fast bursting should it encounter another sheet film, providing the selections were made in the "burst"

The computer allows the programming of temperature setpoint for developer 1, developer 2, fixer and bleach. The allowable temperature range extends up to 45ºC. It also allows programming of deadband from 0.1ºC to 0.5ºC and alarm limits of 0.1ºC to 1.0ºC from deadband.

Operation

Seamless production is assured because the operator can easily monitor the progress of each hanger through the entire system.

Hanger System features for B&W, T-Max, C41 & E6

Standard Features:

PC controlled user friendly interface.
Safe Four Point Transport System.
Stainless Steel Frame.
High Quality PVC Chemical Tanks.
Seven Day Timer.
Rack Position Indicator.
Integral Air Agitation Pumps, for secondaries.
Nitrogen Humidification.
Automatic Surface Area Calculator.
Temperature Control for chemical tanks.
± 0.1°C Temperature Tolerance.

Model	Item Number	Process	Hangers Per Hour	35mm Per Hanger	4x5" Per Hanger
DD30-80	HF3005	E6	20	4	7
DD30-72	HF3001	C41	18	4	7
DD30-80	HF3003	B&W	20*	4	7
DD30-80	HF3007	T-Max	20*	4	7
DD30-80	HF3009	E6PH	20	4	7
DD40-120	HF4005	E6	20	6	10
DD40-108	HF4001	C41	18	6	10
DD40-120	HF4003	B&W	20*	6	10
DD40-120	HF4004	T-Max	20*	6	10
DD40-120	HF4006	E6PH	20	6	10
DD40-180	HF4008	E6PH	30	6	10

Temperature Alarm Circuits for all chemicals.
Infrared Transport Safety System
Level Alarm for all chemicals.
Push-process capability.
Selectable Pre Burst (E6).
Start-up Recirculation System for Reversal Bath (E6).
Water Saver System.
Small Tank Volumes.
Battery Backup.
3.5" Floppy Disk Drive.
Object Removal Baskets.
Low, 8' ceiling requirement.

DD67-200	HF5005	E6	20	10	14
DD67-180	HF5001	C41	18	10	14
DD67-200	HF5003	B&W	20*	10	14
DD67-200	HF5007	T-Max	20*	10	14
DD67-300	HF5011	E6PH	30	10	14

*Based on a cycle time of 3 minutes and nominal development time of 6 minutes.
Specifications are subject to change without notification.

Note:
For DD67 specifications contact Colex or your authorized dealer.
* Except for DD40-180 E6PH (HF4008), for specifications contact Colex or your authorized dealer.

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