INSTALLATION FORM for the *INDUSTREX M43iC FILM PROCESSOR*

Check if present and Record Values (such as incoming voltage). Note any exceptions.

1. **Darkroom Layout:**

____ Clean area and darkroom with level floor, to place the processor.
_____

____ Through-the-Wall Installation requires the customer to prepare the opening and provide materials to adequately seal the opening for light-tightness.
Opening for Feed or Dryer End:
1140mm (44.9 inches) by 636mm (25 inches)
(See separate sheet for Through-Wall-Installation).

____ Service access of a minimum of 20 inches around the processor.
Actual Service Clearance: _____

____ Utilities (power, water, drain) including a sink and tempered water for cleaning: _____

____ Area for chemical replenishment containers and tempered water available for mixing: _____

____ Work surface for tools and maintenance/service

2. **Darkroom Environment and Ventilation Requirements:**
NOTE: *Verify and adhere to local codes and refer to theM43 Pre-Installation Manual*

_____ Room Temperature: (15°C - 30°C) 59°F - 86°F

_____ Relative Humidity: 40 - 76% RH

_____ Altitude: Maximum altitude 2424 m (8000 ft) above sea level.

_____ Ambient Light: Room lighting should not exceed 450 lux (150 ft-candles) at the processor. The room must be capable of going completely dark when loading film into the processor.

_____ Room Ventilation: The processing area should have 10 air changes per /hour, 24 hours per day, 7 days per week.

_____ Processor Exhaust: Dedicated exhaust that provides 0.01 – 0.02 inches of water (Negative Static Pressure), 24 hours per day, 7 days a week, connected to the processor with 4 inch dryer duct hose with adjustable air gap.

____ A supplemental Exhaust Installed:
Make/Model/Voltage/24 Hour Operation:

_____

Plumbing:

All plumbing requirements must comply with local and national codes. Do not use iron pipes. All drain material must be made of chemically resistant, non-corrosive material. Use PVC or the equivalent.

Water Supply (Fresh):

NOTE: *A mixing valve is recommended*

_____ Temperature between 50°F - 140°F

_____ Filtered, 50-micron water filter is recommended in the input water line.

_____ Flow Volume 0.66 gal/min

_____ Pressure of 29 – 145 psi

____ Location, accessible to both the processor and the replenishment tanks

____ Shut-off valve and high pressure washing machine hose of sufficient length and 3/4” connection (not supplied)

____ A separate tempered water supply is recommended for cleaning the processor and for mixing chemicals.

NOTE: *Recirculated/reused water is not allowed. Only fresh water.*

Drains and Chemical Effluent:

____ Use individual and separate developer, fixer and water drain lines

____ Size: 32 mm (1.26 in.) hose connection

_____ Minimum diameter: 7.6 cm (3 in.) with no obstructions

_____ Distance from the film processor: 1.5 m (60 in.)

____ Height from the floor: Top of the drain or drain containers must be lower than the bottom of the film processor.

____ The drain hoses should be free of bends and with a constant fall. The drain must be ventilated. A floor or wall drain may be used which should include an anti-siphon system. Do not use brass or copper drain lines.

_____ Capacity: 1/4 gal/min. during normal operation, 3/4 gal/min. for draining all three solutions together, 0.95 L/min (1/4 gal/min) if each solution is drained separately. The hose connections from the processor to the outlet (drain) are enclosed. The drain hoses should be free of bends and with a constant fall. The drain must be ventilated. A floor or wall drain may be used which should include an anti-siphon system.

NOTE: *Do not use brass or copper in the drain lines.*

Chemical Effluent:

____ The disposal of the effluent must comply with all local environmental safety codes and regulations. The fixer can be collected separately in a plastic container (storage tank) or directly connected to a silver recovery unit. The developer overflow can be collected in a plastic container.

____ Fixer needs to be collected separately if doing silver-recovery as the silver recovery process will not work if developer and water are included.

NOTE: *Recycled Fixer or In-Line Silver Recovery is not permitted.*

3. **Chemical Replenishment:**

____ Room for 2 x 8 gal (30L) replenishment containers (that are supplied with the processor).

4. **Electrical:**
   Consult the Processor Datasheet

   _____ 220 - 240 VAC, 50/60 Hz
   (Measure at power strip in processor)

   ____ Separate 16 Amp fused socket with earth leakage protection is required.

   ____ Appropriate plug for the power cord or wire directly, as per local code.

5. **Program Setup:**

Program No.:	_____	Program No.:	_____
Tank 1 Time:	_____	Tank 1 time:	_____
T1 Temp:	_____	T1 Temp:	_____
T2 Temp:	_____	T2 Temp:	_____
T3 Temp:	_____	T3 Temp:	_____
R1 Rate:	_____	R1 Rate:	_____
R2 Rate:	_____	R2 Rate:	_____

Program No.: _____

Tank 1 time: _____

T1 Temp: _____

T2 Temp: _____

T3 Temp: _____

R1 Rate: _____

R2 Rate: _____

For technical support or replacement parts:

Contact Quality Equipment Distributors, Inc. (QED):

1-855-2BUY-NDT

1. This allows the call to be documented with name, contact information and a brief description of the problem.

2. Need to have the following information:
    a. Equipment model and serial number
    b. Chemistry and film being used
    c. Replenishment rates
    d. Automixer type (if used)
    e. Detailed description of the issue and frequency of occurrence and any error codes displayed.
    f. Also provide any troubleshooting details that you have already performed. Include as much detail as possible, regarding any measurements taken (voltages, times, temperatures, replenishment rates, etc.)
    g. If the problem involves film image quality that you believe is the result of a processing error (wrong density or an artifact), we will need customer processed film samples showing the concern in order to investigate. Samples are typically sent either to Carestream Colorado or the finishing plant depending upon the issue.