

Exposure Unit

Plate Etching Exposure Unit

Operation Manual



Trusted Partner for Your Product Decorating Needs

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1. **General Information**

1.1. **Supplier Address**

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475 N Gary Ave
Carol Stream, IL 60188
PH: 630-752-4000
e-mail: sales@itwtranstech.com
Web: www.itwtranstech.com

Germany

ITW Morlock
Lise-Meitner-StraBe 9
D-72280 Dornstetten
Tel: +49 (7443) 285-0
www.morlock.de

1.2. **Classification**

Exposure Unit – Type: 9503, Month: 08, Year: 2013

1.3. **Electrical Connection**

ATTENTION: Please check if machine matches the voltage of your power supply.

1.4. **Application Range**

The Exposure Unit is designed for photopolymer printing plates with a max size of 560 mm x 370 mm.

1.5. **Safety Instructions**

Please disconnect the Exposure Unit from the power supply before any maintenance or cleaning work is done.

All repairs must be done by a qualified electrician. The Exposure Unit must be operated by a well trained person.

No part of the product must be modified or converted.

1.6. **Noise and Emission**

Noise: <70 dB (A)

Ozone Emissions :

In order to ensure proper Ozone emissions, special bulbs must be used.

If equipped with original bulbs, the Ozone emissions are under 1ppm.

1.7. **Warranty**

The Exposure Unit has a 12 month guarantee against material and technical defects.

2. **Transport and Set-Up**

Overall Dimensions:

Exposing unit: 730 mm x 800 mm x 260 mm (W x D x H)

Vacuum unit: 550 mm x 300 mm x 250 mm (W x D x H)

2.1. **Loading**

The unit can be lifted with palette. Please obey all safety regulations.

2.2. **Transport**

If transported in a motor vehicle, please check all traffic regulations.

2.3. **Set-Up**

Operation is permitted under unfavorable ambient conditions.

Unfavorable conditions include:

Wetness/ excessive humidity

Dust or combustible gases, vapors, or solvents

Strong vibrations or magnetic fields

Recommended ambient conditions include:

Temperature: 5-30OC (-30 – 70OC during storage)

Humidity: 10-80 %

The units must be leveled

Access from all sides must be enabled

Power supply must be within 3m of the vacuum unit

3. Installation

3.1. Safety Instructions

ATTENTION: All work on the electrical parts of the machine must be done by an approved electrician.

3.2. Power Supply

Main connection: 110V / 50Hz / 60Hz 1NPE; 16A

3.3. Connection of Vacuum Unit

Put the vacuum hose on the hose mounting. Plug the electrical connector (after connecting please rotate the safety lock on the connector)



3.4. Required Space for Operations and Maintenance

The unit must be accessible from the front side while the machine is running. For maintenance or repairs the unit can easily be moved to gain access to all four sides.

4. **Startup and Shutdown**

4.1. **Operator**

The Exposure Unit must be operated by a trained person

4.2. **Precautions**

The unit is equipped with a protection against UV light.

This protection must not be removed.

If used with this protection the acceptable irradiation per workday is under the limits mandated by ACGIH 1986 and BGR 107, App. 107

4.3. **Acceptable Environmental Conditions**

Refer to point 2.3 in this manual.

4.4. **Performance Test**

After a long shutdown a complete check of the unit is necessary.

5. **Controls**

5.1. **Unit Controls**



5.2. **Programming of Count Down Timer**

Press “Main Switch” position to I (ON)

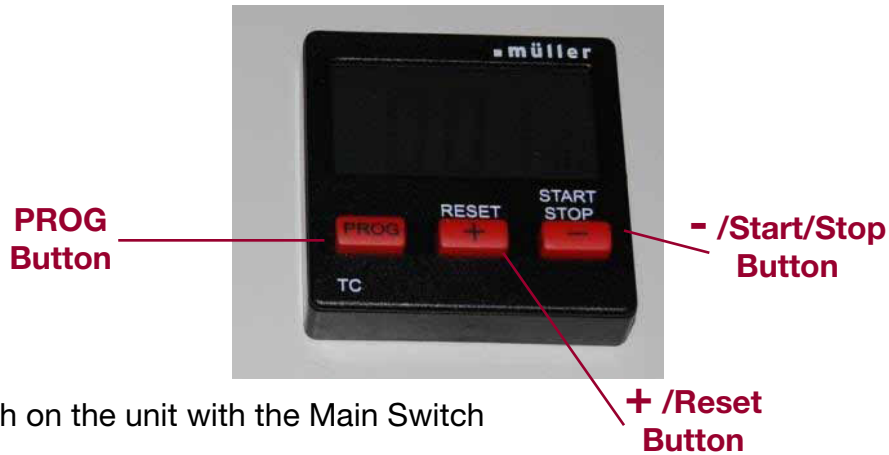
Press “Prog” on the “Count Down Timer” to select time.

To vary the hours, press “+” or “-“ buttons

To select minutes rather than hours, press “Prog” again, and vary the minutes by pressing “+” or “-“ buttons

To select seconds rather than minutes, press “Prog” again, and vary the seconds by pressing “+” or “-“ buttons

Then press the “Start/Stop” button. Press the “Start/Stop” button again to stop time



5.3. Operation

Switch on the unit with the Main Switch

Open top cover with handle

Lift vacuum frame on front side

Put your plate in Exposure Unit

Close vacuum frame, start vacuum pump, and press vacuum frame slightly on the red dots.



Check vacuum with eyes

Input exposure time (refer to point 5.2 in this manual)

Close top cover and press start button on count down timer.

Once exposure is complete you will hear two beeps.

Now your exposed plate can be taken out by opening the top cover and vacuum frame.

6. Environment Protection

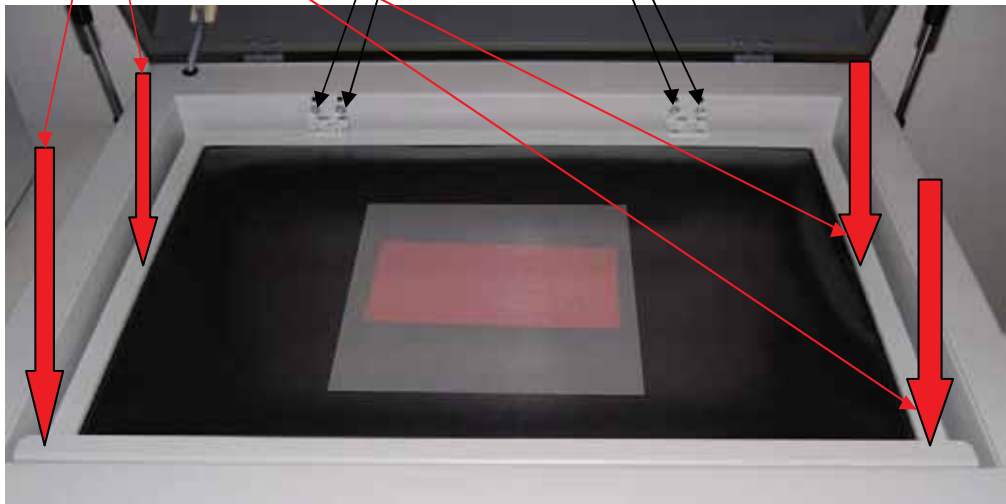
6.1. Recycle the waste

The bulbs in the Exposure Unit contain mercury to achieve a perfect spectral distribution, therefore it is very important to dispose exhausted bulbs properly.

Please check local regulations.

6.2. Adjusting the vacuum frame

1. Loosen screws. *Do not remove screws.
2. Start the vacuum pump.
3. Press the vacuum frame down with your fingers.



4. Once the vacuum is obtained, tighten the screws.
5. Stop the vacuum pump.
6. Adjust periodically if needed.

Please contact ITW Trans Tech or ITW Morlock with any questions about the Exposure Unit.



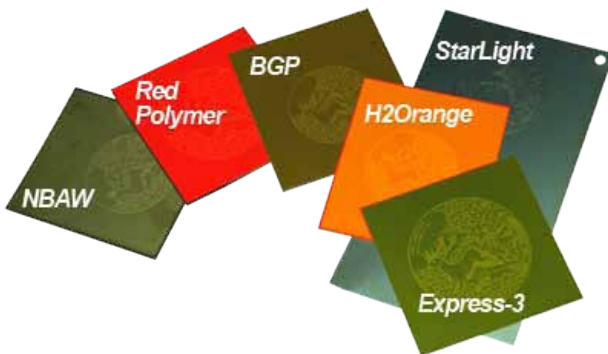
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