

## Stencil Processing & Screen Cleaning Equipment

Natgraph manufacture a complete range of Stencil Processing Units and Washout Booths in 7 standard sizes to accept screen frames from small through to large print formats.

This equipment is designed to meet the operational needs of fine quality stencil processing and manual screen cleaning, as well as environmental and safety requirements.

The Stencil Processing Units are brightly illuminated to aid in 'image washout' and are equipped with an in-line water heater and hand held spray head.

The Washout Booth is available in 2 versions, for stencil removal with water and screen cleaning (ink removal) using solvents. The ink removal version has an in-built ducting system for the extraction of solvent laden air. An optional fan is available, this complies with the ATEX directive 94/9/EC required by European legislation.

Natgraph manufacture an optional Solvent Recirculation Unit to be used when screen cleaning by hand, this unit saves on solvent usage as well as preventing solvents from entering the mains drainage system. This unit also complies with the ATEX directive.

The Angled Light Box is designed to aid in 'touching in' photo stencils, available in 4 standard sizes these units allow convenient access to even the largest of screens.

## Angled Light Boxes

The Natgraph Angled Light Boxes are available in 4 standard sizes and are designed for checking and re-touching photo stencils with ease. A bright illuminated toughened glass panel, (fan cooled), is diffused with a gold acrylic sheet, which is restful to the eye and has a reduced UV output. Thus allowing unexposed stencils to be 'blue filled' without fogging.

An adjustable frame support bar is fitted to the front to accept different sized frames.

### Angled Light Box Features

- Toughened glass
- Box section stand
- Cooling fans
- 4 standard sizes
- Adjustable frame support bar
- Gold diffuser
- Easy tube change



## Stencil Processing Units

The Natgraph range of Stencil Processing Units is available in 7 standard sizes to accept screen frames to print from small through to large format sizes. They are manufactured from stainless steel with 4 steel legs with adjustable feet.

These units have a brightly illuminated acrylic rear panel which assists in the washing out of fine detail stencils to aid in the complete removal of the image area. Illumination is provided by a high efficiency set of fluorescent tubes operated by a safety switch, these tubes can be easily changed via a rear access door.

An instant water heater is located on the outside of the unit, which supplies temperature controlled water to a hand held spray head. The temperature of the water coming from the spray head is indicated by an in-line temperature gauge. (A 15mm, high pressure cold mains water supply is required.)

### SPU Features

- Large, illuminated acrylic panel
- Stainless steel construction
- Easy tube change
- Electric water heater
- Water temperature gauge
- Adjustable frame height
- 7 standard sizes

## Washout Booths & Extraction Fan

The Natgraph range of Washout Booths is available in 7 standard sizes and 2 different versions, to accept screen frames to print from small through to large format sizes. They are manufactured from stainless steel with 4 steel legs with adjustable feet.

The standard versions of these booths are intended for cleaning with water and can be used in conjunction with a separate High Pressure Washer unit, to re-use screen frames by 'blasting off' the used stencil. This booth is ideal for this process, as a deep construction and fold in lip around the extremes are designed to minimise splash-back. The 1.1/2" waste outlet can be connected to mains drainage for this process as long as the chemicals used are 'bio-degradable'.

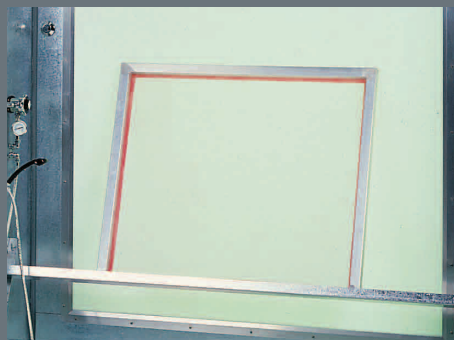
The vented versions are intended for screen cleaning with solvents for the removal of waste inks and therefore have an integral ducting system through which solvent laden air is drawn down into the base of the booth, away from the operator. This air then passes up through the double back wall of the booth to the standard ducting connection flange on the top of the unit, from where the air can be vented to atmosphere via a stainless steel extraction fan. (These fans comply with the ATEX Directive 94/9/EC, required by European legislation for electrical and mechanical equipment used in potentially explosive atmospheres.)

### WOB Features

- Stainless steel construction
- Adjustable frame height
- Swivel feet
- 7 standard sizes
- Optional ATEX approved, flameproof extraction fan

## High Pressure Washers

Natgraph supply 2 types of Karcher High Pressure Washers to wash off used stencils. These are industrial models, not to be confused with domestic units. The smaller HD 5/11 C (240V) has a maximum pressure of 110 psi, this is an upright unit and ideal for small to medium frame sizes, whilst the larger HD 6/13 C Plus has a bar of 130, and is suitable for all frame sizes with intensive use.



SPU - Large, illuminated acrylic panel



ATEX Approved extraction fan



ATEX Approved recirculation unit



KARCHER High pressure washers

## Solvent Recirculation Units

The Natgraph Solvent Recirculation Unit is made of stainless steel, consisting of a 30 litre, freestanding holding tank that contains a filter basket, and flameproof solvent pump which complies with the ATEX directive 94/9/EC, required by European legislation for electrical and mechanical equipment used in potentially explosive atmospheres.

The removable filter basket has a weir system incorporated in it, with progressively finer filtering to remove large debris and smaller pieces of dried ink etc. The residue of solids from within the dirty cleaning solvent settles to the bottom of the basket, leaving the cleaner solvent to be pumped back for re-use. The filter basket can be lifted out of the unit to enable convenient and safe disposal of the waste materials, fresh solvent can be added whilst the lid is removed.

A control valve regulates the solvent flow through the solvent resistant hose to the specially designed, hand held brush for screen cleaning. A large, flexible return pipe connects between the Washout Booth and the Solvent Recirculation Unit.

This unit requires a three phase power supply as standard, but can be supplied single phase as an option.

## Specifications: Solvent Recirculation Units

|         |                                |
|---------|--------------------------------|
| Height  | 60cm (24")                     |
| Width   | 38cm (15") including pipe work |
| Depth   | 53cm (21")                     |
| Weight  | 38kgs. (84lbs.)                |
| Voltage | Three Phase 400V 50Hz.AC       |
| Power   | 0.26kW                         |
| Current | 1 Amp                          |

## Specifications: Stencil Processing Units

| Model No.        | 0                         | 1                          | 2                          | 3                          | 4                          | 5                           | 6                           |
|------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| Max. Frame Size  | 76 x 91cm<br>(30" x 36")  | 107 x 132cm<br>(42" x 52") | 155 x 132cm<br>(61" x 52") | 183 x 152cm<br>(72" x 60") | 229 x 183cm<br>(90" x 72") | 270 x 221cm<br>(106" x 87") | 320 x 221cm<br>(125" x 87") |
| Illuminated Area | 56 x 71cm<br>(22" x 28")  | 91 x 102cm<br>(36" x 40")  | 122 x 112cm<br>(48" x 44") | 152 x 132cm<br>(60" x 52") | 191 x 168cm<br>(75" x 66") | tbc                         | tbc                         |
| Height           | 168cm (66")               | 180cm (71")                | 191cm (75")                | 209cm (82")                | 246cm (97")                | tbc                         | tbc                         |
| Width            | 102cm (40")               | 132cm (52")                | 178cm (70")                | 208cm (82")                | 254cm (100")               | tbc                         | tbc                         |
| Depth            | 84cm (33")                |                            |                            |                            |                            |                             |                             |
| Weight           | 86kgs. (190lbs.)          | 109kgs. (240lbs.)          | 124kgs. (273lbs.)          | 148kgs. (326lbs.)          | 199kgs. (439lbs.)          | 225kgs. (495lbs.)           | 255kgs. (560lbs.)           |
| Voltage          | Single Phase 230V 50Hz.AC |                            |                            |                            |                            |                             |                             |
| Power            | 8.5kW                     |                            |                            |                            |                            |                             |                             |
| Current          | 40 Amps                   |                            |                            |                            |                            |                             |                             |

## Specifications: Washout Booths

| Model No.          | 0                        | 1                          | 2                          | 3                          | 4                          | 5                           | 6                           |
|--------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| Maximum Frame Size | 76 x 91cm<br>(30" x 36") | 107 x 132cm<br>(42" x 52") | 155 x 132cm<br>(61" x 52") | 183 x 152cm<br>(72" x 60") | 229 x 183cm<br>(90" x 72") | 270 x 221cm<br>(107" x 87") | 320 x 221cm<br>(125" x 87") |
| Height             | 168cm (66")              | 180cm (71")                | 191cm (75")                | 209cm (82")                | 246cm (97")                | 290cm (115")                | 290cm (115")                |
| Width              | 86cm (34")               | 117cm (46")                | 163cm (64")                | 193cm (76")                | 239cm (94")                | 310cm (122")                | 360cm (142")                |
| Depth              | 73.6cm (29")             |                            |                            |                            |                            |                             |                             |
| Weight             | 65kgs. (143lbs.)         | 70kgs. (154lbs.)           | 92kgs. (203lbs.)           | 110kgs. (243lbs.)          | 170kgs. (418lbs.)          | 190kgs. (418lbs.)           | 230kgs. (506lbs.)           |

## Specifications: Angled Light Boxes

| Model No.       | 2                          | 3                          | 4                          | 5                          |
|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Max. Frame Size | 107 x 132cm<br>(42" x 52") | 155 x 132cm<br>(61" x 52") | 186 x 150cm<br>(73" x 59") | 223 x 179cm<br>(88" x 70") |
| Height          | 168cm (66")                | 182cm (72")                | 182cm (72")                | 226cm (89")                |
| Width           | 147cm (57")                | 177cm (70")                | 208cm (82")                | 245cm (97")                |
| Depth           | 66cm (26")                 | 72cm (28")                 | 72cm (28")                 | 72cm (28")                 |
| Weight          | 109kgs. (240lbs.)          | 124kgs. (273lbs.)          | 148kgs. (326lbs.)          | 199kgs. (439lbs.)          |
| Voltage         | Single Phase 230V 50Hz.AC  |                            |                            |                            |
| Power           | 0.6kW                      | 0.8kW                      | 1kW                        | 1.8kW                      |
| Current         | 2.5 Amps                   | 3.3 Amps                   | 4.2 Amps                   | 7.5 Amps                   |

The manufacturer's policy is one of continuous improvement and the manufacturer therefore reserves the right to change or modify the design without prior notice. The technical specifications given are therefore for information only.

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