



Installation and Operating Guide Document No. 1801-07

Solvent Spray Booth

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Safety Notice

A thorough familiarity with all operating guidelines is essential to safe operation of the product. Failure to observe safety precautions could result in poor performance, damage to the system, or serious bodily injury or death.

⚠ CAUTION

Cautions are used when failure to observe instructions could result in significant damage to equipment.

⚠ WARNING

Warnings are used when failure to observe instructions or precautions could result in injury or death.

1.0 Introduction

This manual provides installation and operating information for the Terra Universal Solvent Spray Booth (Part No. 1530-41-220). Keep this document in a safe place for future reference. Please read this manual in its entirety before operating the unit.

This guide covers connection requirements, operating pressures, solvent spray and nitrogen drying operation, and maintenance procedures.

2.0 Description

The Terra Universal Solvent Spray Booth (Part No. 1530-41-220) is a stainless steel wet cleaning station designed for chemical applications with flammable solvents. The unit is constructed of 304 or 316L stainless steel and features a built-in explosion-proof illuminator, sprinklers, and an exhaust duct connection for safe handling of flammable solvents. Portable chemical reservoirs are included to safely contain and drain solvents.

The spray booth accommodates two users with a split perforated sink surface. The center partition allows for separate operations and minimizes splashing or mixing of chemicals from the adjacent sink. Pneumatic foot pedals at the base of the unit allow users to safely control the flow of solvent and nitrogen gas at each sink. Downward-spraying nozzles above each sink deliver liquid solvents for rinsing and nitrogen for drying.

The unit ships fully prebuilt, including all internal plumbing.

Key Features

- Explosion-proof illuminator and fire sprinklers for safe handling of flammable solvents
- Pneumatic foot pedals for hands-free solvent and nitrogen flow control
- Top exhaust flange for safe fume venting
- Portable polypropylene carboy reservoirs to safely contain and drain solvents
- Available Certified ISO Grade Designs: ISO 6, ISO 7, ISO 8
- Tempered glass front and side viewing windows



3.0 Specifications

Specification	Value
Terra Part #	1530-41-220
Manufactured By	Terra Universal, Inc.
Electrical Specifications	240 V, 3 A, 720 W, 1 Ph, 50/60 Hz
Certified ISO Grade Design	ISO 6
Unit of Measure	EA
Material	304 or 316L Stainless Steel
Dimensions, Product	48" W x 38" D x 84" H
Weight, Product	465 lb
Dimensions, Shipping	54" W x 50" D x 88" H
Weight, Shipping	746 lb
Package Type	Palletized
Warranty	1 year parts, 90 days labor



4.0 Installation

The unit comes prebuilt for the customer, including all internal plumbing of the product. The following connections are required on-site.

4.1 Connection Requirements

- Power → Light Bulb
 - Explosion Proof Switch
 - 220 Volts, AC, 60 Hz Frequency
 - Requires NEMA 620 Receptacle
- Water → Sprinklers
- Solvent → Customer's Choice (Ex: Isopropyl Alcohol)
- Nitrogen → Evaporates Solvent for Quicker Drying
- Compressed Air → Pneumatic Pedals to Turn On/Off Nozzles

4.2 Min/Max Operating Pressures

- Solvent: 0 – 150 psi
 - Min determined by desired spray pattern of valve
- Nitrogen: 0.5 – 125 psi
- Compressed Air: 60 – 80 psi
 - Min operating pressure limited by foot pedal
 - Max operating pressure limited by valve

4.3 Plumbing

- Unit uses 2 sets of nozzles (Nitrogen and Solvent)
- Quick connect fittings are used to connect lines
 - Size: 1/4" Tube OD x 1/4" NPT Male
- Lines must be pressurized externally
- Separate line for compressed air (optional)
 - Size: 1/4" Tube OD x 3/8" NPT Female



5.0 Operation

- Turn on/off light using switch as needed
- Press down on foot pedal to activate corresponding nozzle (Nitrogen or Solvent)
- Remove foot from pedal to deactivate corresponding nozzle when not in use

6.0 Safety Precautions

- Handle Front Sash with care to avoid unnecessary injuries
- Do not exceed maximum operating pressures to prevent damage to lines
- Maintain a safe distance during operation

7.0 Maintenance

- Drain Carboy (Polypropylene Reservoir) upon reaching capacity
- Replace degraded valves as needed to maintain optimal performance
- Clean the inside of spray booth regularly to avoid contamination

8.0 Warranty



***Thank you for ordering from
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