

## Laboratory Anodizing Mini-Plant (LAMP Plus)



### Description

The Laboratory Anodizing Mini-plant is a compact and complete manual anodizing line in a small footprint. The LAMP Plus adds additional rinsing, dye, and seal capabilities. This is a three-module system that allows for a variety of footprints. This system provides a full conventional and hard coat providing full anodizing with dye and sealing. The pre-finish module is used for cleaning and surface modification. The second module has an anodizing station with two rinses for thorough rinsing. The third module is for post-treatment dye and seal. Waste treatment is available with Moonstone by Kontek 50-gallon batch waste treatment system.

### Benefits

This entry-level system is designed for machine shops and OEM manufacturers interested in having internal prototype, R and D capabilities. Specific anodizing processes may be developed and optimized for application testing. This is a highly engineered, well-built compartmentalized tank system exhibiting quality workmanship for years of service.

### Application: Type II conventional and Type III hard anodizing applications

#### End Users

- Machine Shops
- Testing Laboratory
- OEM Manufacturer
- Anodize Process R&D
- Custom Finishers

#### Markets

- Decorative
- Prototype
- Protection
- Aesthetics
- Functional

**Module 1:** Pretreatment- 6 poly tanks 15" x 15" x 15", two heaters, and filtration. **Tank Set** - Alkaline Cleaner, Rinse, Etch, Rinse, Deox, Rinse

**Module 2:** Anodize and Rinses – 3 poly tanks, 15" x 15" x 15" deep. **Tank Set** - Anodize, Rinse, Rinse. Agitation is provided by eductors thru chiller return.

**Module 3:** Post-treatment dye and seal – 6 tanks (5 polypro, 1 SS) 15" x 15" x 15" deep, three heaters, filtration. **Tank Set** - Dye, Rinse, Dye, Rinse, Seal, Hot Rinse

### Technical Specifications

The Laboratory Anodizing Mini-plant comes fully assembled. All controls are mounted into the cabinet behind the process tanks. The rectifier is integrated into the console. The system-matched chiller is specified to maintain a constant anodizing temperature. Filtration is included. Each module has an integrated containment pan. The footprint for each module is 72" x 28" x 26". All tank dimensions are 15" x 15" x 15". Partwork window is 8 x 10"

#### Equipment

50 Amp 45 volts air cooled rectifier with adjustable ramp. Glycol chiller cooling with a pump to maintain 55-70 F anodize bath temperature. Ventilation boxes integrated into the console and ready for exhaust connection Filtration and agitation with Flo King Filters. Electric heaters with low-level safety

#### Upgrade Options

Moonstone by Kontek Waste Treatment, Stainless Steel Base Frame, Tank Covers, Enclosed Hood System, Base Frame Support, and Fluid Transfer Cart.