

<b>PART 4</b>	<b>SECTION I</b>	<b>SYSTEM COMPONENTS</b>
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The *LifeLast* Spray System consists of the following equipment:

- 1.....49:1 Air Motor with Metering Pump
- 1.....8:1 Resin Feed pump with “Y” Filter
- 1.....8:1 Activator Feed pump with “Y” Filter
- 1.....30:1 Purge pump
- 1.....Valving manifold
- 1.....¼ Inch 3,000 PSI Spray line (50 ft.)
- 1.....¼ Inch 3,000 PSI Spray line (25 ft.)
- 1.....¼ Inch 3,000 PSI Spray line (6 ft.)
- 1.....¼ Inch 3,000 PSI Spray line (3 ft.)
- 1.....Static mixer Holder
- 12.....Helical Static mixer Inserts
- 1.....Airless Spray gun with tip
- 4.....Extra tips for Spray gun
- 1.....Air Tree
- 2.....55 Gallon Drum Heaters
- 2.....¾ Inch Product Lines
- 2.....3/8 Inch Re-circulating Lines
- 3.....3/8 Inch Air Lines
- 1.....Industrial Dispersion Blade and Shaft
- 1.....Drum Measuring Stick
- 5.....Purge Bags
- 1.....125 CFM Air Compressor\*

\* Purchase of the above equipment does not include the air compressor.

\*\* Spare parts and repair kits are available upon request. They are not included in the basic setup.

<b>PART 4</b>	<b>SECTION II</b>	<b>REQUIRED MATERIALS</b>
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Materials necessary for operating the *LifeLast* Spray System include:

- *LifeLast* Resin
- *LifeLast* Activator 9000
- Complete Spray System (previous page)
- Palatinol 711P (Purge Material)
- Temperature thermometer with a range of 40°F to 200°F.
- Disposable purge bucket (will collect waste product and excess purge fluid when starting-up and flushing the machine).
- Methyl Ethyl Ketone, Toluene, Lacquer Thinner or Acetone.\*

\* A small amount of solvent is required to **clean** gun parts.

<b>PART 4</b>	<b>SECTION III</b>	<b>COMPONENT OPERATING DESCRIPTIONS</b>
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The *LifeLast* Spray system supplies *LifeLast* resin and activator separately from the feed pumps through the metering pump system to the valving manifold in balanced proportions (3:1) at pressures between 1,500 and 3,000 PSI. It also supplies purging fluid (Palatinol 711P) to the valving manifold from the purge pump.

**Metering pump (also known as the lower fluid section)**

A 3-cylinder reciprocating pump consisting of two resin cylinders and one activator cylinder that takes the resin and the activator from the discharge pressure of the feed pumps and increases the pressure until it reaches 1,500 to 3,000 PSI. It then forces the product through the valving manifold and the spray line until it is discharged from the gun.

**Feed pump**

The 8:1 feed pump delivers *LifeLast* materials from the drums to the intake side (bottom of the lower fluid section) of the metering pump.

**Purge pump**

The 30:1 purge pump delivers purge material directly to the valving manifold.

**Valving manifold**

The valving manifold is a series of hand-operated ball valves and check valves that control and regulate the flow of product or purge material. The valving manifold combines the *LifeLast* resin and activator before entering the spray line. The valving manifold also controls the purging of the manifold, spray line, whip hose, static mixer, spray gun, and spray tips.

### **Spray line and Whip Hose**

The 3,000 PSI spray line (25 ft. to 50 ft.) is attached to the valving manifold and the static mixer. The 3 ft. whip hose is then attached to the static mixer and the spray gun. (see PART 11).

### **Static mixer**

The static mixer consists of a stainless steel tube with helical interior elements which thoroughly blend the resin and activator into the proper mix.

**NOTE:** Read directions under Before Starting the Machine for proper installation of static mixer.

### **Spray gun**

The airless spray gun should have a working pressure of 5,000 PSI. The gun packing should be separated from the fluid passage. All fluid passages should be accessible for **cleaning**. A Graco flex gun is our basic recommendation, however, a Binks 1M gun is also available. The 1M gun is a high performance gun that does not come standard with the complete spray system. It is available at an additional cost and requires a conversion tip so it can be used with Graco tips.

### **Spray gun Tips**

Graco Reverse-A-Clean Tips are recommended. They are designed to permit a rotation of 180° and use line pressure to **clean** the orifice. It is advisable to have several orifice sizes available for all jobs.

Tips are numbered 221-321, 221-425, 221-535, and so on. The first three numbers (i.e., 221) indicate the type of tip. The next number in the sequence identifies the width of the spray pattern, and the last two numbers designate the orifice size. For example:

- 221-321 indicates: type of tip/3 inch fan/.021 inch orifice
- The average fan widths used are between 4 and 6, with orifice sizes of 27, 29, 31, and 35 thousandths of an inch.