



QUANTUM LUBRICATOR

**INSTALLATION AND
OPERATING INSTRUCTIONS**

QUANTUM OPERATING INSTRUCTIONS

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1.0 LUBRICANT SPECIFICATIONS

Mineral base or synthetic lubricants may be used in the UNIWAVE system. The lubricant should be a light weight oil (approximately a 10 weight lubricant) with a low to medium tension.

Viscosity Range	70-500 SUS at 100° F
Viscosity Index	greater than 90
Surface Tension	20 to 40 dynes per centimeter
Temperature Range	50° F and above

Acceptable additives: Oxidation, corrosion and rust inhibitors, emulsifiers, foam suppressants and certain anti-wear and anti weld additives.

Additives must be compatible with the base stock and must be properly blended. No solids in suspension or additives such as pro-oxidants or soap fillers should be used.

2.0 ADJUSTMENT OF LUBRICATORS

2.1 LOCATION OF PRESSURE REGULATOR AND OIL FLOW ADJUSTMENT SCREW

Refer to fig. 1 for the location of the regulator and the oil flow adjustment screw.

2.2 COLOR CODED PRESSURE GAUGE

It is important that the needle on the gauge is adjusted to the proper color field. To determine the proper setting , the following factors must be considered:

2.2.1 First Red Field

The lubricator will not operate properly when the indicator points to any part of this red field.

2.2.2 Green Field

This field is used when the lubricant being used has a viscosity between 70 and 150 SUS at 100° F (9-CST at 50° C). The arrow in the green field indicates the optimum setting when UNIWAVE 509 Lubricant is used as well as most other lubricants having a viscosity up to 100 SUS at 100° F (13 CST at 50° C).

2.2.3 Blue Field

This field is used when the lubricant being used has a viscosity of more than 150 SUS at 100° F (20 CST AT 50 °C). The arrow in the blue field indicates the optimum setting when a lubricant with a viscosity up to 500 SUS AT 100° F (110 CST at 50° C) is used.

2.2.4 Second Red Field

Operation in this field should be avoided. The right edge of this field indicates the maximum permissible pressure setting and may not be exceeded.

2.3 PRESSURE REGULATOR ADJUSTMENT

To adjust the pressure settings, pull up lock ring and turn knob clockwise to increase pressure setting and counter clockwise to lower the pressure.

With the machine operating, unlock the regulator and turn the knurled knob clockwise until the needle on the gauge moves up to the proper position in the colored field previously determined. When properly positioned, lock the regulator to maintain the setting.

2.4 OIL FLOW ADJUSTMENT

With the machine operating, insert screwdriver into the Oil Flow Adjustment Screw and turn counter clockwise to decrease the amount of oil. Refer to Fig. 2 for an approximate oil drip rate setting.

2.5 SYSTEM CHECK

Recheck all settings after the lubricator has been in operation for one hour or more.

3.0 CHECK POINTS TO INSURE PROPER OPERATION

To insure proper operation of the lubricator, several conditions must be met:

1. The available air pressure at the input side of the filter must be at least 60 PSIG(4 bar) with the lubricator operating.
2. The lubricator must not be overfilled. Oil must be visible in the sight gauge at all times. This level should be checked frequently.
3. The pressure gauge should indicate a reading in the green or blue area.
4. An oil drip rate should be visible in the oil sight dome.
5. After one minute of operation , oil should be visible moving up the plastic tubing. A non-glassy, white piece of paper held about 1/2 inch (12mm) from a nozzle should show a small oil mark after being exposed for one minute. This mark will get bigger as time increases.

It should be emphasized that mist lubrication does not soak the machine in oil, but rather coats the metal surface with a fine, even film of oil, which is consistently replaced as it is dissipated.

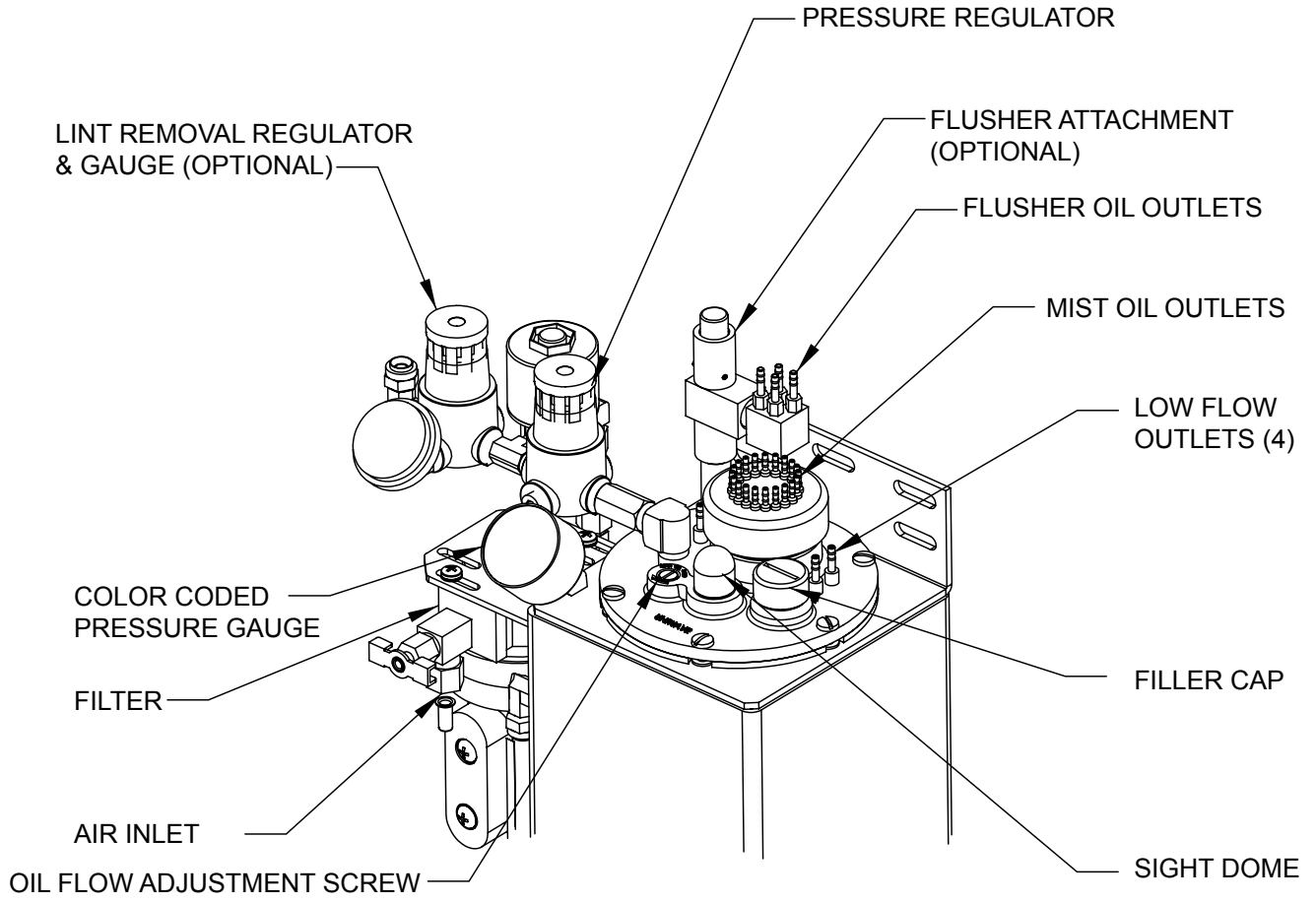
If any of these conditions are not met, please refer to the **QUANTUM LUBRICATION SYSTEM TROUBLE SHOOTING CHART** attached.

4.0 FLUSHER CLEANING ATTACHMENT (OPTIONAL)

This attachment is used to deliver a solid stream of oil, under pressure. The oil output for each outlet is approximately 1/10 of a fluid ounce (2.9 ml) per second.

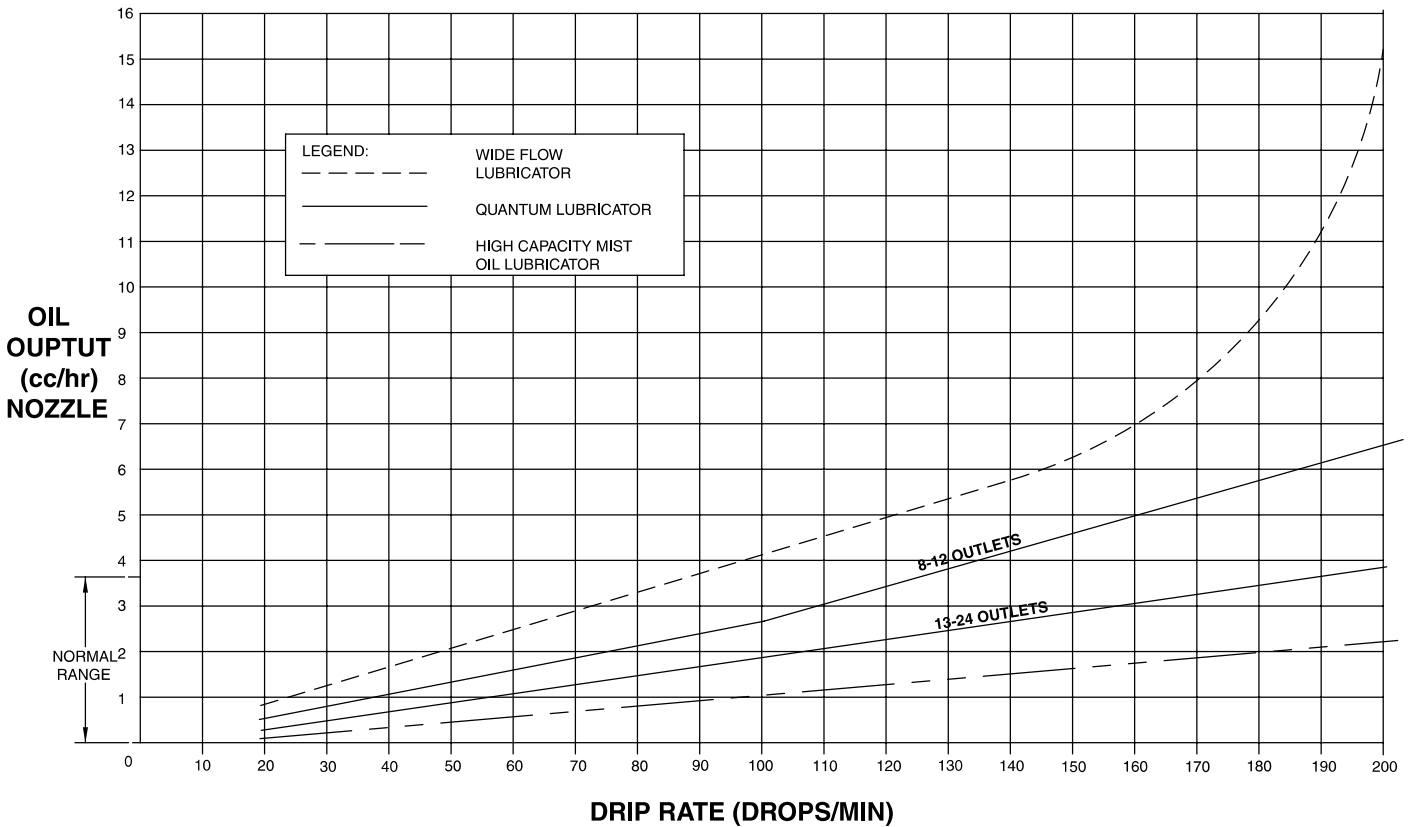
COMPONENT LOCATIONS

FIGURE 1



UNIWAVE OIL OUTPUT CHART FOR USE WITH ANTI-FOG NOZZLES

FIGURE 2





is a product of

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