

SheerKote™ UV62 Liquid Coater



Advantages of UV LED Curing Technology

Eco-Friendly Benefits

Energy Savings

The water-cooled UV LED curing system in the AGL SheerKote UV62 consumes **90% less power** than competitive UV Arc machines on the market. UV Arc lamps require time to heat up and cool down, thus requiring power and time which costs money. UV LED curing technology has **Instant On/Off** so it reduces power consumption and saves time in the coating process.

Cleaner Air

In addition to power savings, the AGL SheerKote UV62 **reduces Carbon Output by 90%** compared to UV Arc. Conventional UV Arc curing produces Ozone and other VOCs which require ventilation, introduce pollution into the air and pose a work hazard. **UV LED curing does not create ANY Ozone or VOCs**, thus eliminating the need for costly ventilation, reducing pollution and creating a safer working environment.

Lamp Disposal

UV Arc lamps have an operating life of 800-1,500 hours. This requires replacing UV Arc lamps several times over a 12 month period, resulting in the disposal of the used UV Arc (Mercury Vapor) lamps. **UV LED lamps will last in excess of 30,000 hours so it eliminates the regular introduction of toxic mercury into the waste stream.**

Reduction in Air Conditioning

UV Arc lamp housings operate at ~200F while UV LED lamp housings operate at ~100F. This 50% reduction in heat output from UV LED will result in less load on air conditioning equipment during cooling months. Air Conditioning is said to account for ~4% of global greenhouse gas emissions. Reduced usage of Air Conditioning is a benefit of UV LED curing.

Cost Savings

Reduced Energy Costs

The 90% reduction in energy consumption provided by UV LED results in significant annual savings when compared to UV Arc curing.

Ventilation Costs Eliminated

Being that UV LED curing does not produce any Ozone or VOCs, the need for costly ventilation is eliminated. The elimination of ventilation also removes the need for maintenance as well energy costs associated with ventilation.

UV Lamp Cost Savings

With UV LED lamp life being ~30x that of UV Arc lamps, this reduces the need for regular lamp and reflector replacement, disposal and machine down time.

Air Conditioning Savings

The considerably lower operating temperatures of UV LED (compared to UV Arc) will result in reduced energy costs as well as less wear and tear on A/C equipment. UV LED will also eliminate the need for larger A/C capacity.

Annual Operating Cost Comparison & Savings

	(1) 8 Hour Shift Per Day / (5) Days Per Week	
	UV Arc	UV LED
UV Arc Lamp Costs vs UV LED Filter	\$1,380	\$60
Ventilation System Parts/Maint	\$1,500	\$0
Curing System Power Consumption	\$7,271	\$743
Air Conditioning Power Consumption	\$1,692	\$0
Ventilation Power Consumption	\$1,487	\$0
Total	\$13,330	\$803
Savings		\$12,527