

# Avici 1150w vs. Agnetix

The Agnetix A3 produces 22% more light but for 75% higher cost, has a shorter rated life, higher installation costs, and does not have a programmable spectrum.

## Avici

vs.

## Agnetix A3

**2300 uMole/s**

Similar output, realistic price.

PPF

**2850 uMole/s**

22% more output, but for 75% more money.

**52 cents / uMole**

\$1,199 / 2300 uMole = \$0.52 / uMole

Cost of Light

**74 cents / uMole**

42% higher cost per uMole.

**1150w**

Power

**1200w**

**Fully Programmable**

Avici has programmable spectra and a remote controller making it suitable for all phases of growth.

Spectrum

**Single Option**

The Agnetix has one spectrum option and can not keep up with new research.

**\$1,199 MSRP**

We offer state of the art lighting at market disruptive pricing.

Cost

**\$2,100**

The A3 costs 75% more money but only produces 22% more light.

**34 Years or 150,000 Hours**

Avici has parts rated for 34 years. LED life is typically 55,000 hours when run at "book" temperature. Avici runs cooler so lasts 3x as long.

Lifetime

**5-7 Years or 60,000 Hours**

The Agnetix is rated for 60,000 hours of life, which is significantly lower than the 150,000 rated life of the Avici.

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The Agnetix is liquid cooled which requires less air conditioning, but needs copper piping, specialized labor for installation, eight water connections and two valves per light, and a maintenance plan to prevent leaks.

Benefits

## Cooler

Less air conditioning is needed, but the money saved does not outweigh the additional equipment and maintenance costs.

## The Problem with Liquid Cooled LEDs

Why we decided against building a liquid cooled fixture.

Complications

## Water Leaks

*It's not water!* It's a mixture of water and anti-freeze that's not safe for plants and can cost you your organic label.

## Too Hot

If it's hotter outside than the facility, the cooling system brings heat into the room.

## Too Cold

If outside temperature drops, water cooled fixtures drip condensation on plants.

Added Costs

## Valves

Each light needs eight water connections and two valves, adding about \$50 per light.

## Water Chiller

Water needs to be pumped out of the facility to a water tank or chiller.

## Specialized Labor

Installation requires not just an electrician, but a plumber as well.

## Maintenance Plan

Water Cooled LEDs require a maintenance plan to prevent the inevitable leaks.

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