

## Logan Regional Hospital saves 90% in cooling costs

Logan Regional Hospital was looking for a more efficient way to cool and ventilate its surgical room, which required a constant change-over of fresh and filtered air. Coolerado helped the hospital meet its strict ventilation requirements ... and provide a return on investment that was a breath of fresh air.

Logan Regional Hospital, located in Logan, Utah, was looking for a more efficient way to cool its surgical room. Like all hospitals, Logan is required to change over the air in its surgical room at least 25 times an hour to help eliminate infection. And, while keeping the air clean and fresh is beneficial to patients, it can be tough on an organization's cooling bill. In terms of

efficiency, it can be a lot like running your air conditioner with the windows open.

So when Troy Jensen, Intermountain's Energy Efficiency Manager, heard about Coolerado's unique cooling technology—that uses 100% fresh air while reducing cooling energy consumption by up to 90%—he became an instant fan.



### Specifications

#### Customer

Logan Regional Hospital

#### Location

Logan, Utah

#### Property Type

Surgical room and  
Post-operating area

#### Square footage

1,000

#### Solution

8 Coolerado M50's

#### Results

- 90% reduction in energy use
- Improved IAQ
- 3-year payback
- Saves \$8,600 in cooling per year



The hospital installed eight M50s to precool and freshen the air that enters the surgical room and post operation area. The M50s house Coolerado's patented HMX (heat and mass exchanger) that uses a thermodynamic cycle to produce unprecedented air temperature reductions. The air conditioners are also uniquely designed to provide remarkable ventilation. Unlike conventional air conditioners that simply recycle stale inside air, our systems use 100% fresh outside air that's filtered before it's cooled. That means fewer germs and less dust, pollen, and allergens.

Today, Logan Regional Hospital is enjoying a comfortably cool and fresh surgical room and a 90% savings on energy costs. That translates to a return on investment in less than three years.

"Eight units equals 40 tons of cooling to our operating rooms and, under full load, the Coolerado is only using around 10kWh," said Troy Jensen. "Whereas with the previous pre-cooling DX, we required 140kWh under full load. That's 90+% less energy to run the Coolerado unit, if you're counting."

### Lab space ROI

LOCATION:	LOGAN, UT	
Equipment	Chiller/ Cooling Tower	Coolerado
Net Installed Equipment Cost	\$50,000	\$74,000
Energy Cost/Year	\$9,500	\$900
Energy Cost Savings/Year:		\$8,600
Savings %		90%
Payback Years		3

*"We've had these running now for two cooling seasons, and they don't take a lot of time to take care of. Out of eight units, we've only had one little issue and Coolerado took care of us. That's what really matters."*

**Brian Juber, Master Plumber  
Intermountain Healthcare**

### About Logan Regional Hospital

Logan Regional Hospital is part of Intermountain Healthcare, an internationally recognized, nonprofit, system of 22 hospitals, a Medical Group with more than 185 physician clinics, and an affiliated health insurance company, SelectHealth.

## About Coolerado

Based in Denver, Colorado, Coolerado has been designing, manufacturing and marketing super-energy-efficient air conditioning systems for light commercial use, based on its proprietary, patented and proven technology since 2004. Customer energy savings of over 80% have been recorded with this cost-effective technology. Coolerado products are highly reliable and virtually maintenance-free and are currently operating in many countries around the world. Coolerado is another quality product by Seeley International.

Another quality product by



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