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# MAGNETOM Aera

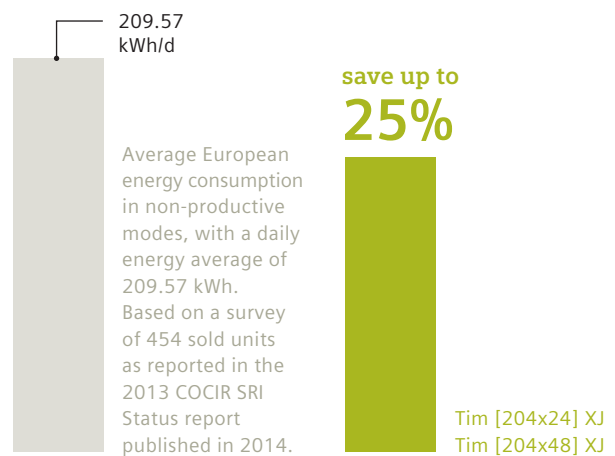
## Minimize lifecycle costs with Life Design

Today's healthcare is facing the difficult task of reconciling two opposing demands: delivering better outcomes while lowering costs.

Technological innovation can, and should, play a vital role in improving the cost-efficiency of healthcare across the board. MAGNETOM Aera and its Life Design not only provide the highest level of patient satisfaction, but also help optimize lifecycle costs.

**Optimize lifecycle costs and stay environmentally friendly – with MAGNETOM Aera 1.5T.**

### Daily energy consumption<sup>1</sup>



COCIR average

MAGNETOM Aera

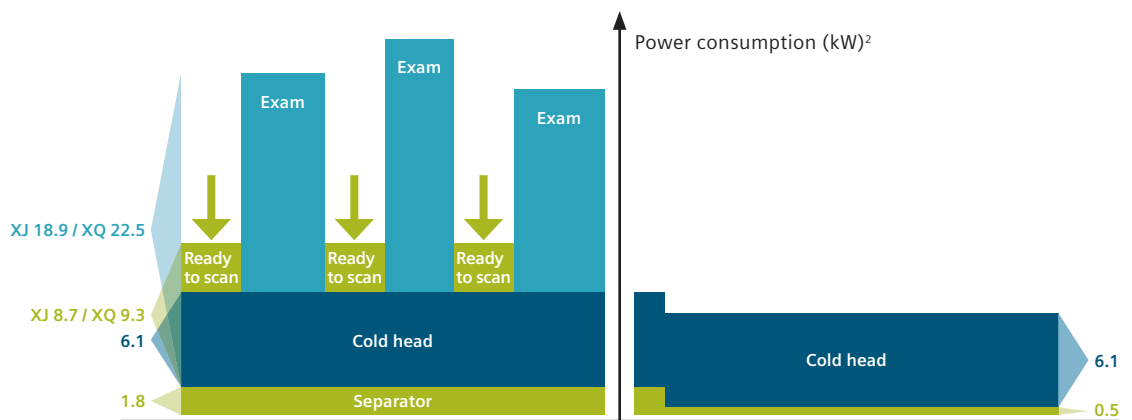
# Save up to 25% in energy costs<sup>1</sup>

## Setting the standard in energy efficiency

Founded in 1959, COCIR is a non-profit organization that represents among others the medical imaging industry. COCIR has identified energy consumption during product lifecycle use phase as the key environmental factor for medical imaging devices. The COCIR SRI methodology provides a common framework to measure and compare the energy consumption of MRI systems. Siemens MRI systems, such as MAGNETOM Aera, integrate a number of innovative, power-saving, and resource-conserving technologies to reduce energy consumption.



## Optimize your total cost of ownership (TCO)



### Intelligent power management in different modes

**Operational mode (ready to scan/exam):**  
Fast switch off of components after exam (similar to start/stop mode of cars).

**System off mode:** 16% lower power consumption due to fast adaptation to cooling demands.



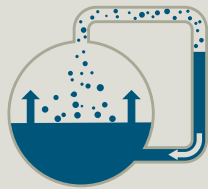
## Short installation time

Thanks to its compact system design, MAGNETOM Aera has a typical installation time of less than 7 working days, helping reduce costs from the very start.



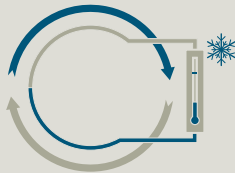
## Small footprint

Minimum total space requirement: less than 30m<sup>2</sup> for magnet, electronics, and console room. The system complies with the standard ceiling height of 240 cm. An integrated water cooling cabinet eliminates the need for dedicated cooling of the entire equipment room.



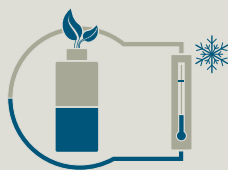
## Zero Helium boil-off<sup>3</sup>

According to the US Geological Survey, the estimated price paid by private buyers for helium has risen by 48% from 4.15 US dollars per cubic meter in 2008. In 1995, it was 1.80 US dollars.<sup>4</sup> With its Zero Helium boil-off technology, Siemens Healthcare is eliminating one of the fastest rising costs in MRI operations.



## Eco-Chiller / Optimized Separator

Lower power consumption due to automatic adaptation to the required cooling demands, e.g., dedicated night and day modes.



## GREEN Cooling Option

Chiller energy consumption further reduced by up to 50% with this passive extension module of the Eco-Chiller. Depending on the surrounding temperature, cooling takes place exclusively via the Free Cooling unit (not displayed in figure on the left).



## Power-saving technology

Intelligent technology for higher energy efficiency: optimized sequences for less gradient switching, and self-adapting components, that switch off automatically when not needed.

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<sup>1</sup> COCIR Status Report: Self-Regulatory Initiative for Medical Imaging Equipment, p.12, 2013, published in 2014; COCIR is a non-profit industry association for the radiological, electro-medical and healthcare IT sectors; Average European energy consumption in non-productive modes, with a daily energy average of 209.57 kWh. Based on a survey of 454 sold units.

<sup>2</sup> The power consumption described herein is based on results that were achieved in a setting according to the COCIR methodology MRI - Measurement of the energy consumption (<http://www.cocir.org/index.php?id=46>). Since many variables impact power consumption (e.g. sequences used for scanning and sequence parameters, scan time), there can be no guarantee that each customer will achieve the same values. All values are typical values, applicable for 400V/50Hz. Consumption for optional separator pump and other options not included.

<sup>3</sup> For typical clinical use, depending on sequences and operating time with running helium compressor. The system needs to be serviced at regular intervals. Undisturbed magnet cooling for 24 hours and 7 days a week.

<sup>4</sup> Source: <http://www.bloomberg.com/news/2013-01-31/helium-rises-to-highest-since-1995-in-fallout-from-shale-boom.html>



#### **Siemens Healthcare Headquarters**

Siemens Healthcare GmbH  
Henkestraße 127  
91052 Erlangen  
Germany  
Phone: +49 9131 84-0  
[siemens.com/healthcare](http://siemens.com/healthcare)