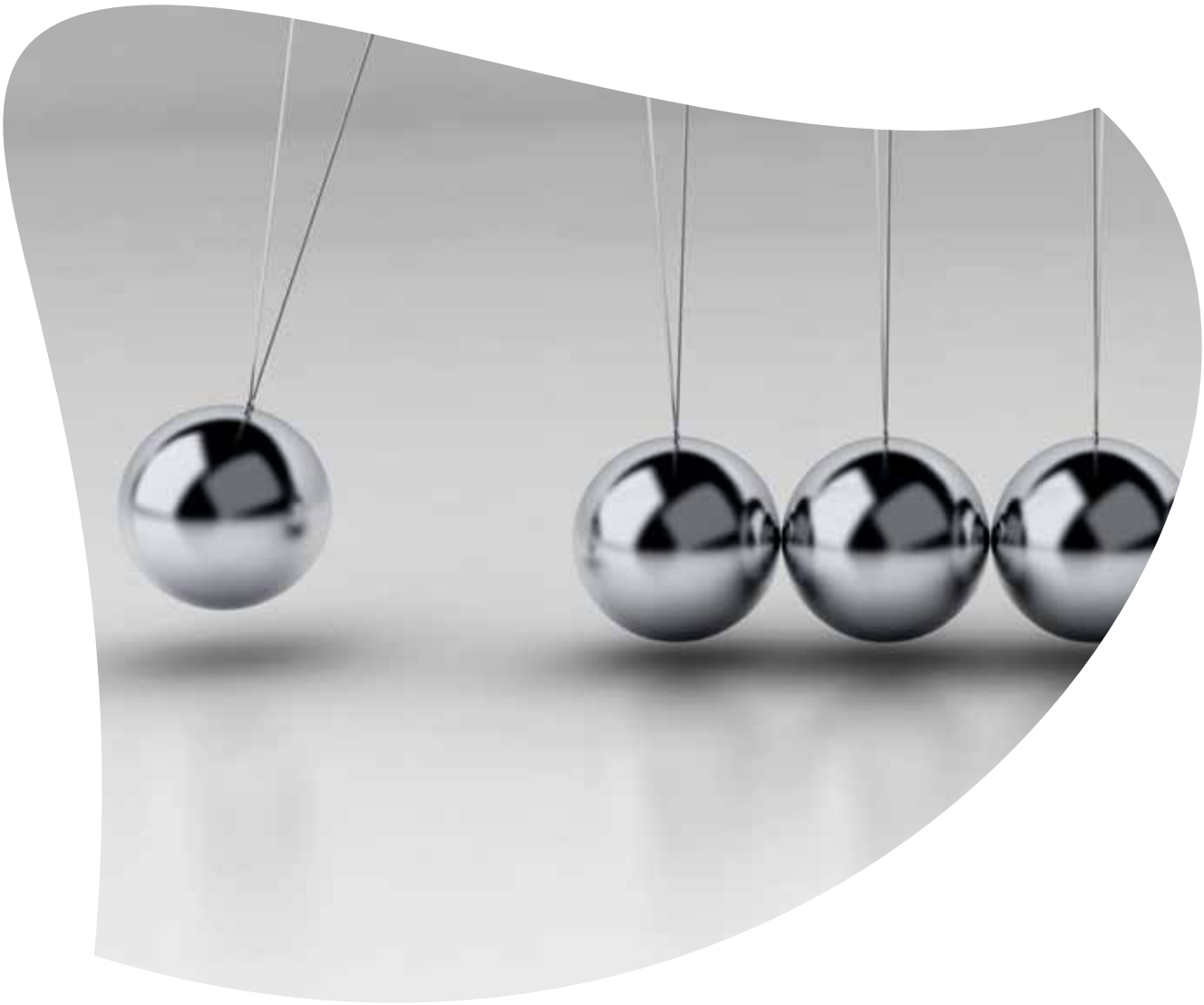
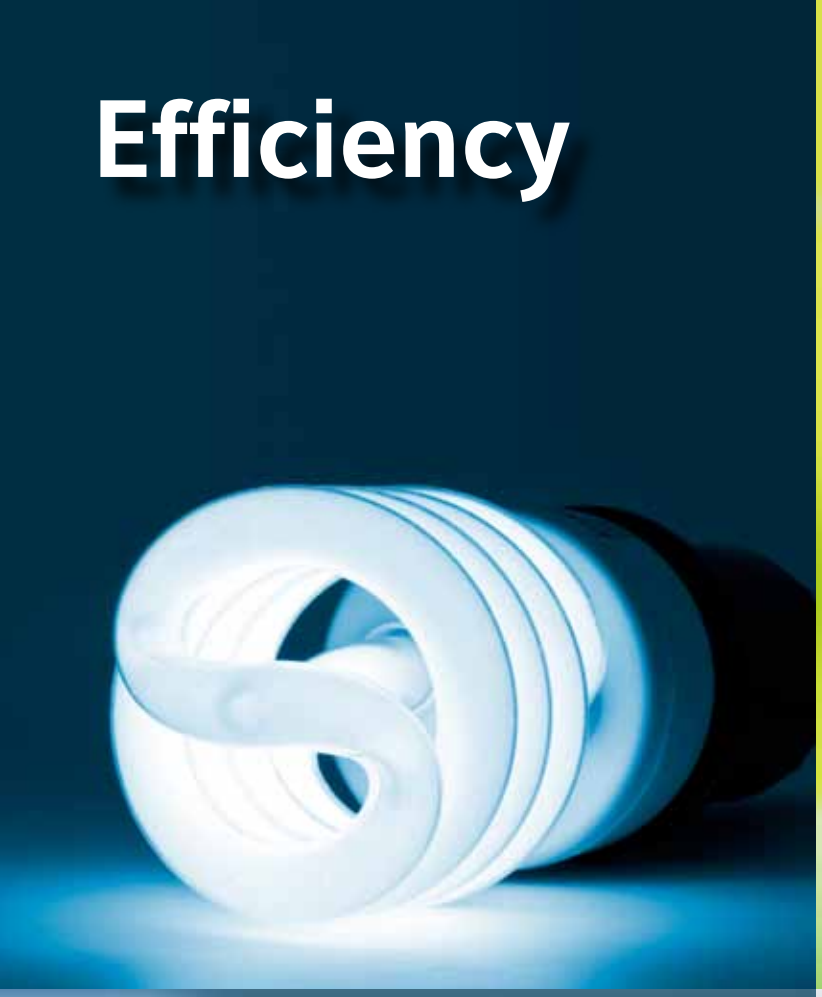
YORK® YLAA AIR-COOLED
SCROLL CHILLERS

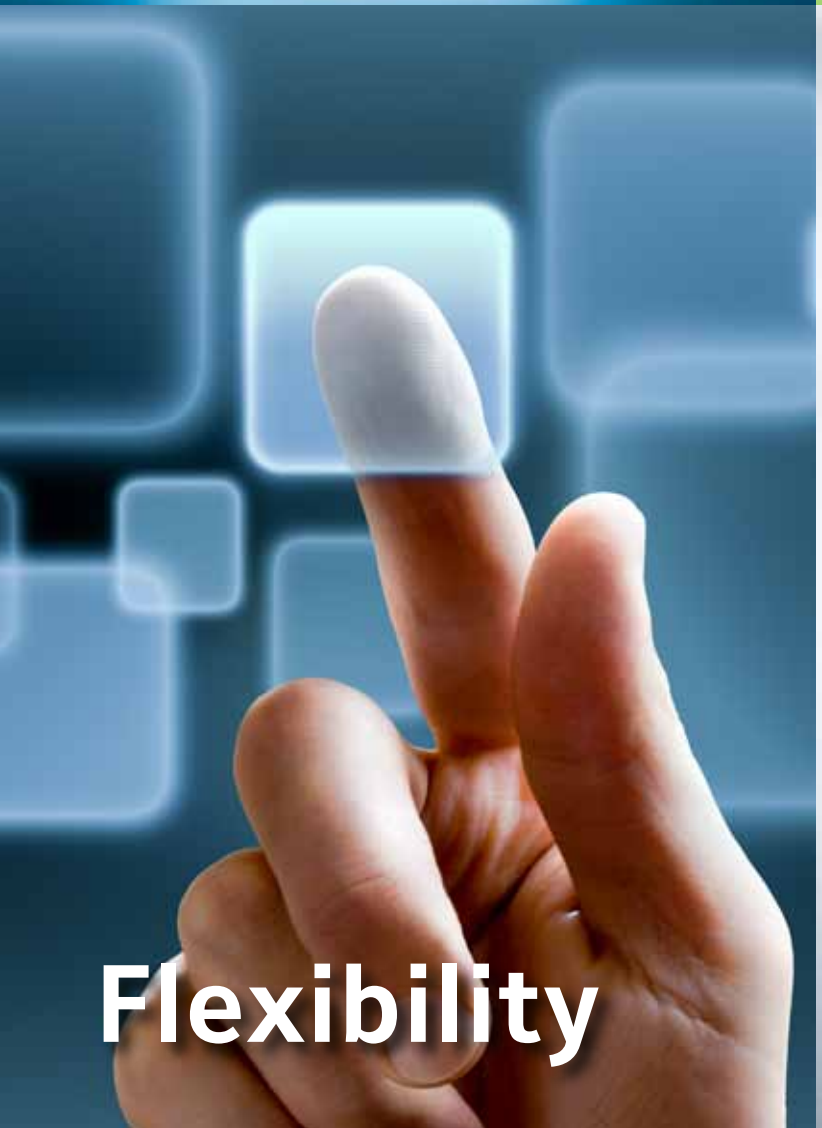
Finding the right balance for improved performance



YORK®
BY JOHNSON CONTROLS


Efficiency


Sustainability


Flexibility


Life Cycle

YORK® YLAA Air-Cooled Scroll Chillers

Efficient, sustainable, flexible... with a low life-cycle cost

- Operating cost savings
- Environmental responsibility
- Flexibility to meet your needs
- Reduced total cost of ownership

Operating cost savings

High energy performance. Proven in the real world.

By engineering chillers built to perform best across a wide range of operating conditions Johnson Controls is well positioned to meet our customers' evolving demands well into the future.

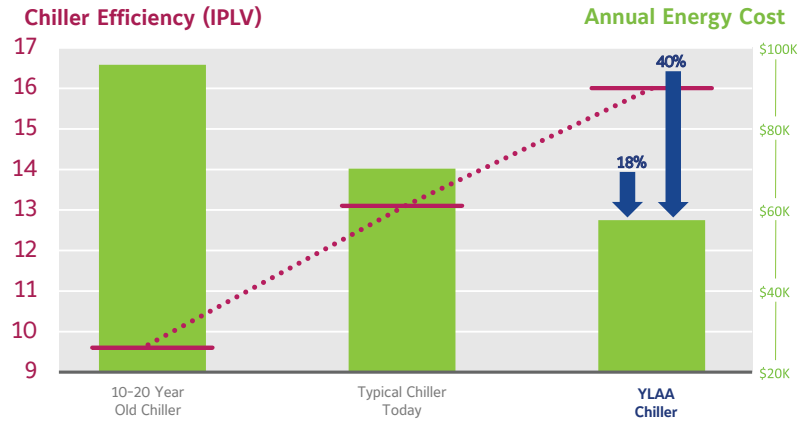
Our new YORK® YLAA air-cooled scroll chillers deliver top-of-the-line, full-load efficiency for assurance of performance in the most demanding conditions. But you can also count on excellent performance during 99% of the time when chillers operate at off-design conditions.

As a result, during the months when outdoor ambient temperatures are below the design point, the YLAA chiller lets you **substantially reduce your electricity consumption**. For new projects, YLAA energy savings surpass typical chillers – and on replacement projects, you'll save more electricity than ever before.

Remarkable real-world performance is the result of using advanced technology. **Brazed-plate evaporators** and **microchannel condensers** enable more efficient heat transfer. And the low pressure drop and easy-to-clean microchannel design promotes air flow to reduce fan energy consumption. Optional dual-speed or variable-speed fans can be selected for additional energy savings. Plus, our advanced controls intelligently sequence multiple compressors to save energy during mornings, evenings, and weekends.

And we offer more customizable options to meet your real operating needs every day. That's why you can count on YORK YLAA chillers to make a practical difference in your application.

YLAA Efficiency & Annual Energy Cost



Note: 5000 operating hours, Energy rate 0.0102/kWh, 150 tons

Environmental responsibility

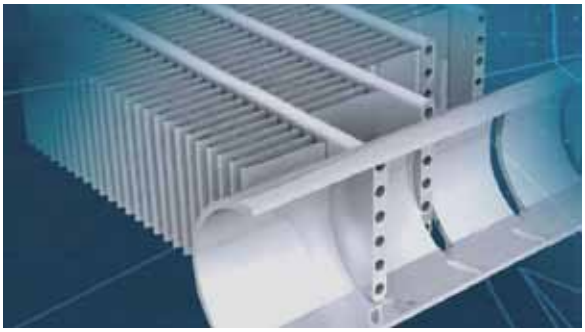
More friendly to the environment. And to your neighbors.

To be truly sustainable, your facility must be environmentally friendly in more ways than one. That's why the YLAA chiller responds to the environmental issue in two ways: directly, by limiting the amount of refrigerant emitted into the atmosphere, and indirectly, by minimizing power plant CO_2 emissions – which are responsible for 98% of the Global Warming Potential associated with chillers.

To reduce the direct effect, the YLAA chiller uses **HFC-410A refrigerant**, which has zero ozone-depletion potential and no phase-out date. Furthermore, our microchannel condensers and brazed-plate heat texchangers enable the refrigerant charge to be substantially reduced. Less refrigerant inside means less environmental impact outside.

To minimize the indirect effect, the YLAA chiller **reduces utility CO_2 emissions** with intelligent controls that turn off unnecessary compressors, and cycle the condenser fans, for maximum energy efficiency. Plus, an optional heat-recovery heat exchanger can be employed to capture waste heat to generate hot water instead of utilizing a natural gas boiler.

The YLAA chiller also reduces noise pollution. To address property line restrictions, YLAA sound attenuation options provide quiet operation to meet your needs. A variety of options – including variable-speed fans and acoustic enclosures – make it easy to operate quietly at off-design conditions to please neighbors during nights and weekends.



All-aluminum microchannel condenser technology is one reason for the premium efficiencies the YLAA chiller delivers.

Ultra quiet operation can be obtained through optional ultra-quiet fans and compressor sound blankets.


Flexibility to handle your needs

Wider operating range. Better fit.

It's a big world. That's why it's good to know the YLAA chiller **covers a broad range of operating conditions**.

The YLAA chiller can operate with ambient temperatures up to 125°F – the kind of temperatures encountered in deserts and areas exposed to intense sun. And there is no problem handling ambient temperatures down to 0°F. For process applications, the YLAA chiller can be configured for glycol production as low as 10°F. And for even more flexibility, the YLAA chiller can use a heat-recovery option to generate water as hot as 140°F.

To **save space**, optional pumps on the YLAA are integrated onboard the chassis below the condenser. This compact, factory-installed configuration not only puts the pumps out of your way to create a smaller footprint, it also **saves on installation costs**.

No matter where you place a YLAA chiller, it can run quietly – which is ideal for sound-sensitive areas where people are concerned.

Reduced total cost of ownership

Full life cycle. Lower total cost.

Intelligent budget management dictates that only the **total cost of ownership**, which combines first cost and operating cost, should be considered.

The YLAA chiller is an attractive value right from the start because it can be specifically configured so that **you only pay for the chiller you need**. You save by specifying the efficiency level and the customizable options that make the most sense for your application.

You also **save on installation costs**. The YLAA design is ideal for new construction or retrofit projects. Optional onboard pumps are mounted and wired in the factory within the unit footprint to eliminate field installation. Plus, a lower unit weight makes it easier to rig into place. You also avoid the expense of structural building expansions or modifications thanks to a compact configuration that lets you put more capacity in less space.

To minimize energy costs throughout the year, you can take advantage of outstanding real-world energy performance. You **stay in perfect control** with continuous monitoring via standard Metasys™ communications, as well as native BACnet, Modbus, N2 or optional Lonworks communications for virtually any BMS.

And to keep operating costs low, you can take advantage of Johnson Controls service organization. With **over 15,000 technicians in over 150 countries**, we're the world's largest HVAC and building service provider, bringing decades of scroll chiller experience to your door.

To learn more about how the YLAA can make a practical difference for you, visit johnsoncontrols.com/chillers – or contact your nearest Johnson Controls branch office.

Stay in perfect control with continuous monitoring via standard Metasys™ communication.

Our 15,000+ service technicians in 150 countries provide chiller expertise to keep your facility running smoothly.

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