

# SMARTD

INNOVATION ENGINEERED,  
ENERGY OPTIMISED

## AeroPure™ Air-Cooled Chiller



### Cooling Capacity

60 - 710\* TR  
(211 kW - 2500\* kW)

### Available Refrigerants

R134a, R513A,  
R515B, R1234ze

# About Smardt

**Global innovation in oil-free technology,  
products built for high-performance  
environments.**



Smardt is a global leader in oil-free centrifugal chillers, delivering energy-efficient solutions with ultra-low lifecycle costs. With over 12,000 units installed worldwide, we support some of the most demanding environments from hospitals and commercial buildings to manufacturing and mission-critical facilities.

Our chillers are powered by magnetic bearing technology and a Global Controls Platform, offering reliability, low maintenance, and future-ready performance.

As buildings evolve, we continue to reduce energy usage, support global compliance requirements, and help customers move towards more sustainable operations.





# AeroPure™

## Air-Cooled Chiller AF Series

**AeroPure™ AF series** continues Smardt's legacy of oil-free innovation, with over 12,000 installations worldwide powered by magnetic bearing compressors, **AeroPure™ AF series** is built to perform in high-demand, uptime-critical environments.

Whether for comfort or process cooling, **AeroPure™ AF series** is your go-to choice for performance, efficiency, and reliability.

Engineered to perform  
Designed for reliability

READY TO SHIP.  
READY TO PERFORM.

## Tailored for your environment

**AeroPure™ AF series** is engineered to meet the specific needs of various demanding operating conditions:

### Process Cooling / Data Centers

- Built to meet uptime, load variability, and redundancy needs
- Clean rooms, telecoms, light manufacturing, and high-density racks
- Delivers rapid system recovery, with compressor restart in as little as 30 seconds following short power interruptions

### Comfort Cooling

- Ideal for healthcare, government, hospitality, manufacturing, educational institutions, offices and retail
- Supports quiet operation and easy rooftop or yard installation
- Seamless design integrates into modern building architecture

Installation  
advantages



Quiet operation for noise-sensitive zones



Optimized unit height for space-limited rooftops and equipment yards



Designed for standard 20' or 40' high cube containers



Simplified rigging, handling, and freight logistics





## Key features



## Built-in advantages that make the difference

1

**Supports Low-GWP Refrigerants** future-aligned options including R513A, R515B, and R1234ze

2

**Up to 16 IPLV Efficiency** exceptional part-load performance across varying operating conditions

3

**Fast Restart\*** resumes compressor operation in as little as 30 seconds following brief power interruptions, without requiring manual reset

4

**Redundant Compressor Configuration** allows continued operation, even with only one compressor running

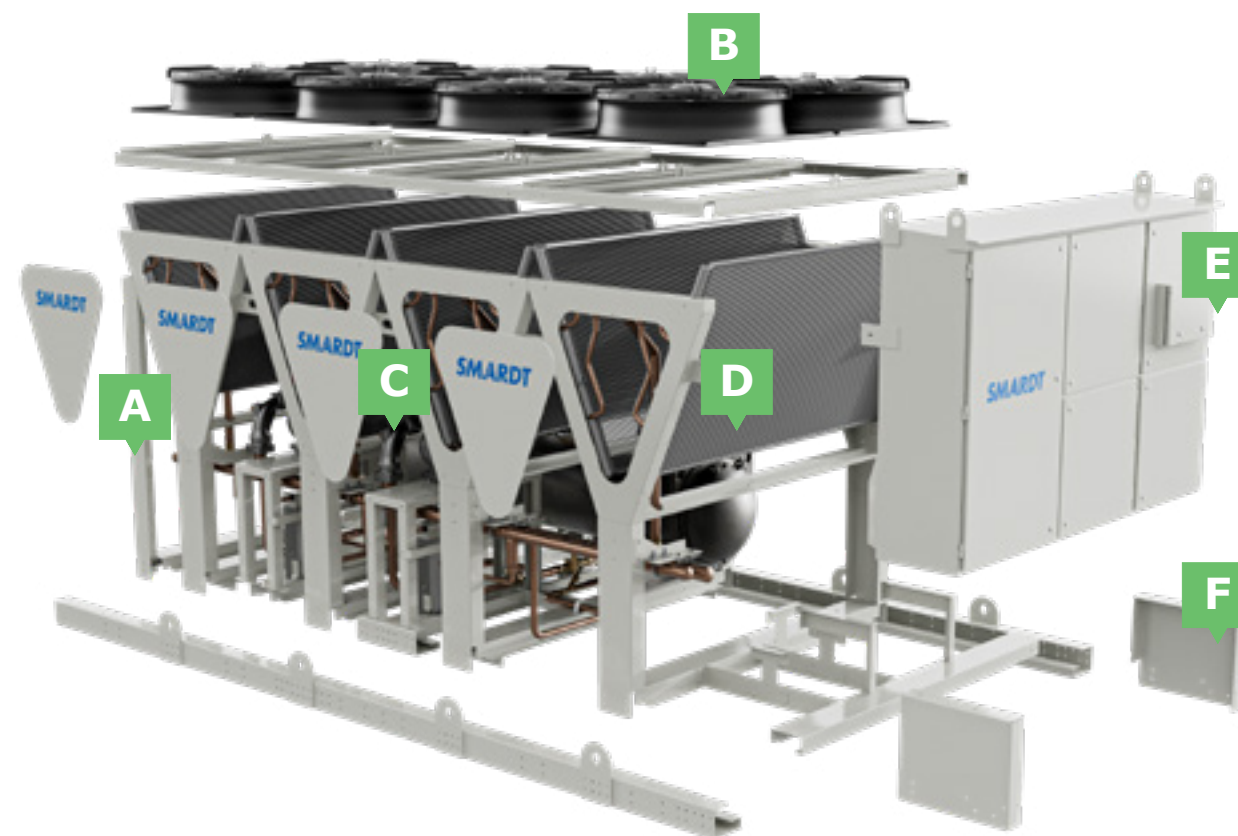
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**Operating Range** from -20°F to 130°F with extended options, meeting both low and high ambient requirements for mission-critical environments

6

**Global Certifications** meets AHRI, CE, ETL, ASHRAE 15, MEPS, and other international standards

\* By integrating the Smartd Fast Restart feature into water- or air-cooled chillers, operation resumption (compressor RPM > 1) can be achieved in as little as 30 seconds following brief power interruptions. In typical field conditions, compressor speed resumption (achieving 90% of the compressor's pre-outage RPM) can be achieved in as little as 110 seconds following brief power interruptions depending on load, operating conditions, outage duration in the plantroom, etc.



A

**Base frame** lightweight, durable, and built for flexible installation

B

**ECM fans** variable-speed, sound-optimized airflow

C

**Oil-free** magnetic bearing compressors

D

**Microchannel coils** efficient, compact thermal transfer (optional Tube-Fin coils available)

E

**12" Touchscreen controls** built-in diagnostics, trending, and BMS access

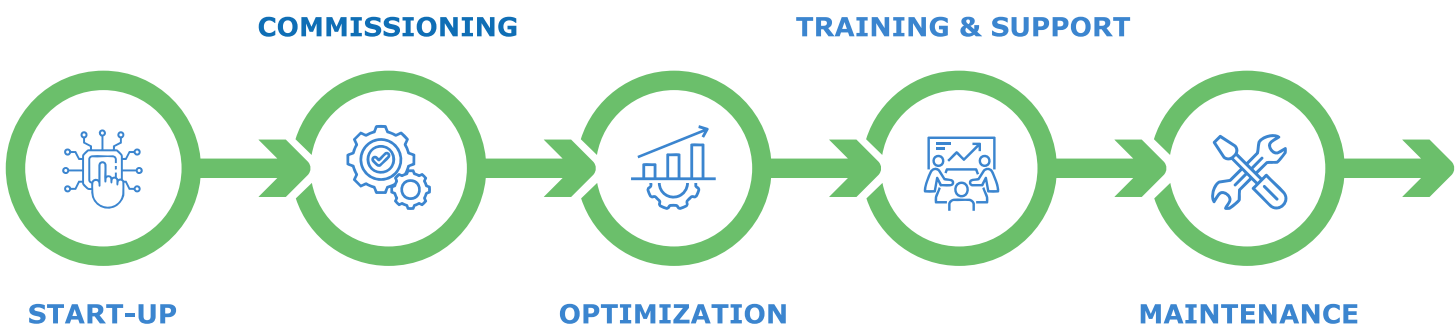
F

**Electrical box** designed for clean integration and simplified field servicing



# Driving lifecycle performance

Smardt delivers a comprehensive suite of services designed to maximize the performance, reliability, and longevity of your HVAC systems. With global experience across more than 12,000 chiller installations, we support customers throughout the entire equipment lifecycle from start-up to optimization and beyond.








# Process-driven optimization

We help you get the most from your central plant systems with a data-driven approach that cuts energy use, lowers costs, and boosts performance.

It starts with an energy audit to pinpoint inefficiencies, followed by tailored solutions built around your plant’s needs. Often this includes our **Central Plant Energy Conservation System** (CPECS) a smart platform that dynamically manages equipment for maximum efficiency.

From assessment to full integration, we deliver seamless projects backed by proven results in commercial, institutional, and mission-critical facilities. The outcome: measurable savings, stronger reliability, and greater visibility supporting your efficiency and sustainability goals.



 Improved system reliability	 Reduced operational risks & costs	 Optimized energy performance	 Enhanced system control & transparency
 Regulatory & sustainability compliance	 Enhanced energy efficiency	 Lower operating costs	 Improved reliability with seamless execution



**EFFICIENT, OIL-FREE COOLING  
BUILT FOR A GREENER TOMORROW.**





# AeroPure™

## Engineered to perform Designed for reliability

**With a suite of highly efficient and dependable  
HVAC solutions, we are your trusted partner  
wherever you may be.**

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**Subject to design conditions and select refrigerants.**

