

# AQUAFORCE 30KAV

AIR-COOLED CHILLER WITH  
GREENSPEED INTELLIGENCE



AQUAFORCE greenspeed



click for more

## KEEP PACE WITH GREEN BUILDING TRENDS

Starting from 2008, in less than 10 years, LEED certified building space in China has grown from **a half million** square meters to **8.9 million** square meters, that is a substantial achievement.

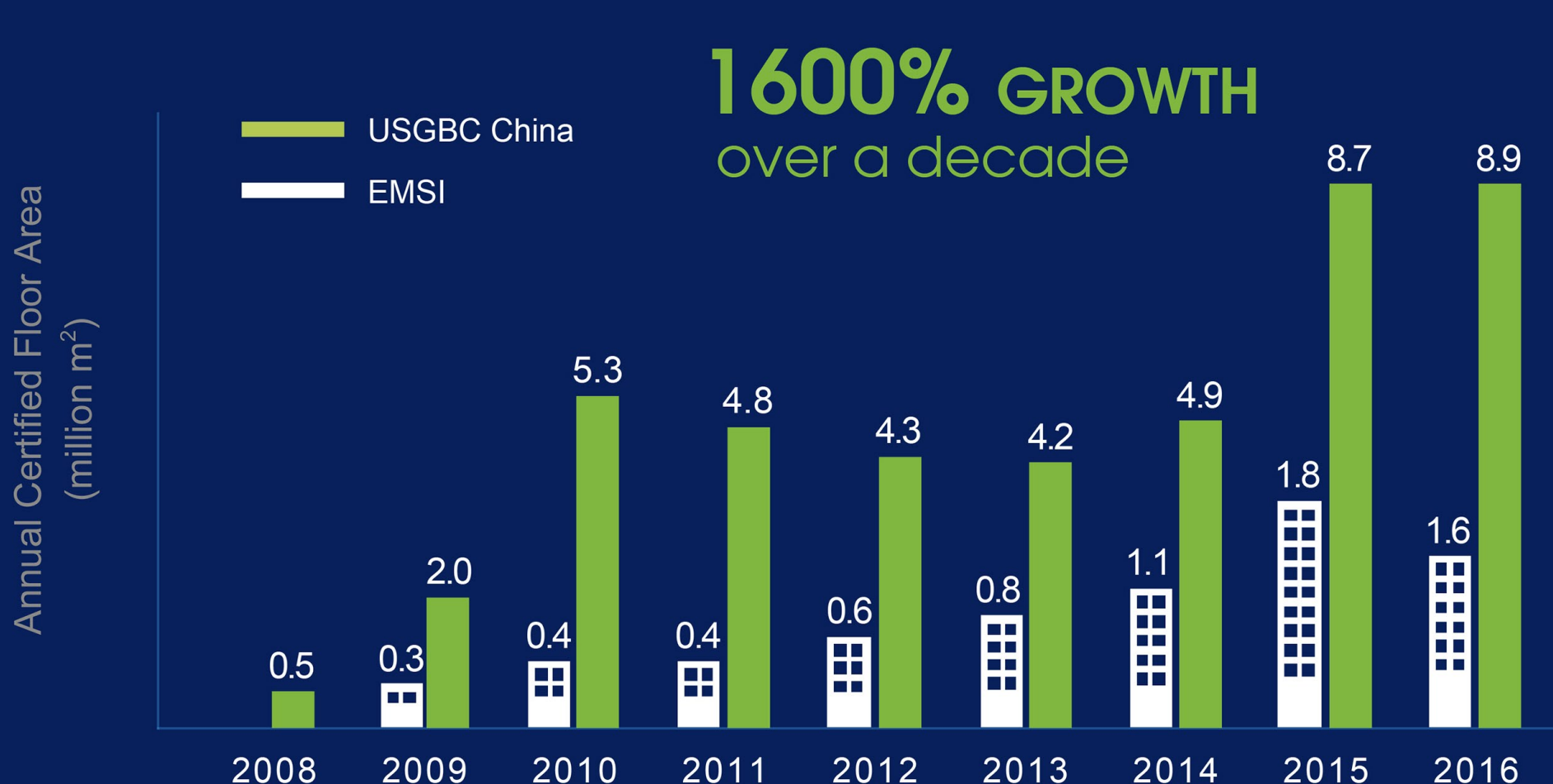


Figure 1. Annual LEED certified floor area growth in China from 2008 to 2016

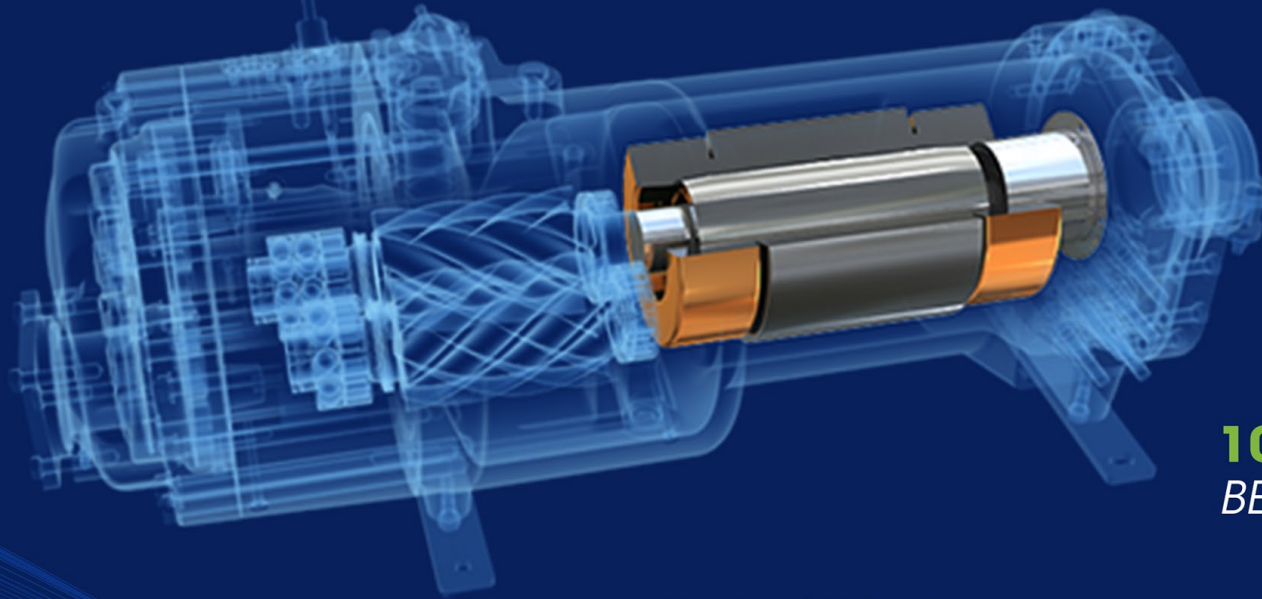
Data courtesy of EMSI

## FEATURED TECHNOLOGIES

### NEW GENERATION COMPRESSOR

delivers higher efficiency and lower sound level

The perfect integration of new rotors, Vi valves, IRA (Integrated Resonator Array) and optimized system design improves the **efficiency by up to 11%<sup>1</sup>** and reduces the sound by up to **-6dB(A)<sup>1</sup>**.



**100,000 HOURS**  
BEARING LIFE

**NEW ROTORS**  
DELIVER HIGHER  
CAPACITY<sup>2</sup>

### NEWLY DESIGNED CONDENSER

improves heat transfer efficiency in a smaller and lighter machine



**15%**

higher heat  
transfer efficiency<sup>3</sup>



**16%**

shorter than  
comparable tonnage unit<sup>3</sup>

The fans with rotating shroud technology and back-swept blades with unique wave-serration trailing edge delivers maximum efficiency and super low noise. W-shaped coils enhance the efficiency and shorten the unit length to minimizes the cost and efforts of installation in newly built as well as retrofit projects.

## CUSTOMER BENEFITS

### HOW DOES AQUAFORCE™ 30KAV CHILLER ENABLE THE SPLENDID USER EXPERIENCE?



**HIGH**  
efficiency

Super energy performance  
with IPLV up to 5.69 certified  
by AHRI



**RANGE**  
of operating  
condition met

Wide outdoor air temperature  
ranged from  
-20°C to 50 °C<sup>4</sup>

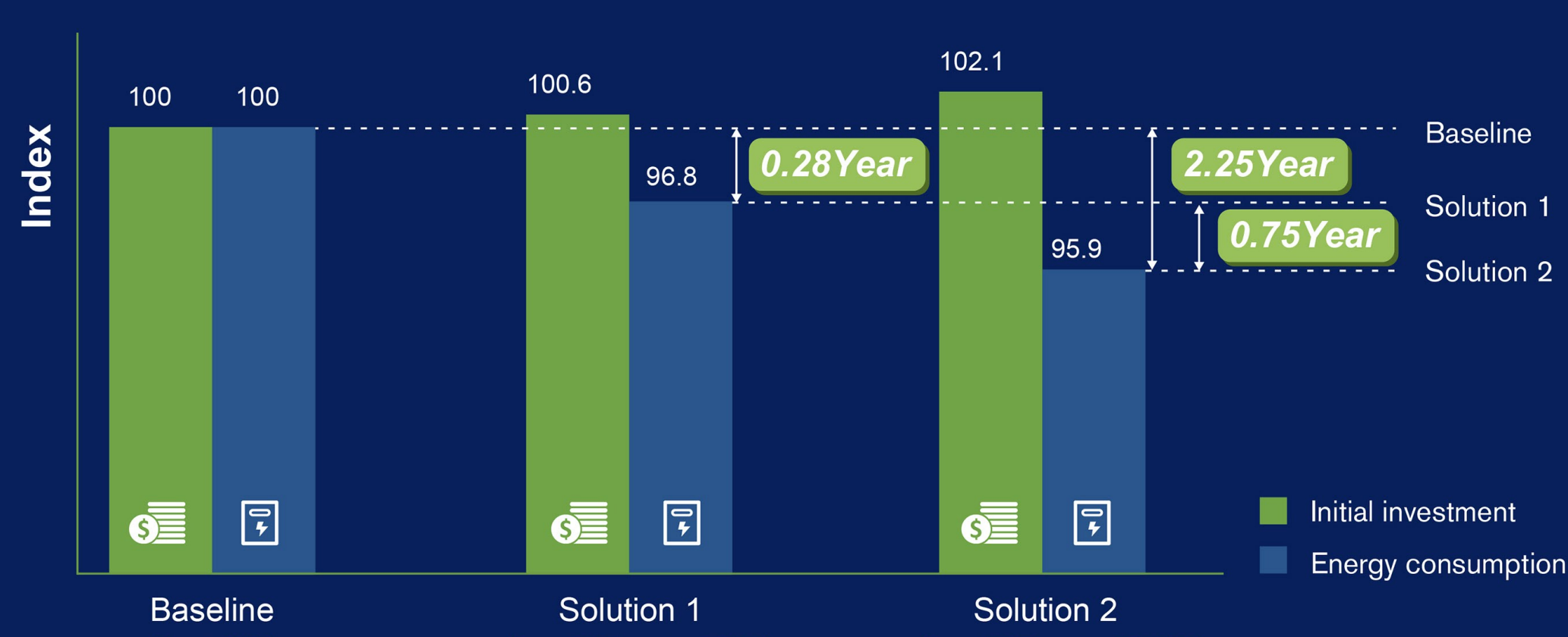


**QUIET**  
performance

3dB(A) reduction at full load  
and up to 10dB(A) reduction  
at 25% load vs full load at  
AHRI conditions<sup>5</sup>

## CASE SIMULATION

**SYSTEM CAPACITY: 1500RT**  
**CONDITIONS: 12/7 °C , 30/35 °C**  
**LOCATION: SHANGHAI**



<sup>1</sup> compared to old 06T compressor ; <sup>2</sup> compared to at equivalent speed ;

<sup>3</sup> compared to old 30XAV chiller series ; <sup>4</sup> realized by Greenspeed inverter control at part load ;

<sup>5</sup> the payback period is subject to specific assumption of the simulated conditions by Carrier