



Air-Cooled Chillers

# FREE COOLING WITH MAXCAP ADVANTAGE



**MaxCap**  
ADVANTAGE



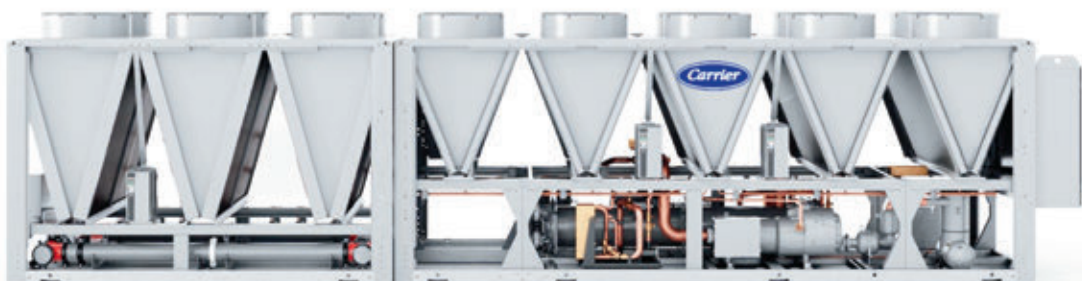
## Introducing Carrier's Free-Cooling Option with Industry Exclusive **MaxCap Advantage**

Carrier's free-cooling design provides industry leading performance and does so across its entire operating range. That's where **MaxCap Advantage** comes in.

The goal of adding free cooling to any system is to maximize free-cooling tons, thus lowering the energy consumed. Traditional systems need to throttle back free cooling when operating in hybrid mode, the most important mode of operation. This is required to make sure the chiller can stay online to meet the building's set point. As most applications spend a large number of hours in this range, the owner is giving up free-cooling tons. In other words, free money.

Conversely, our modular design was developed from the ground up to maximize free-cooling savings and environmental benefits, all with ease of service in mind. Our free-cooling module was made to integrate directly with Carrier's award-winning 30XV air-cooled screw chillers, but at the same time, be decoupled from the chiller. This allows the free-cooling section to squeeze out all the free cooling possible, giving you MaxCap Advantage during all operating conditions.

Patent pending

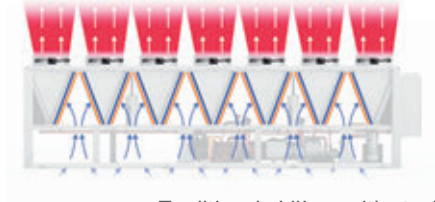




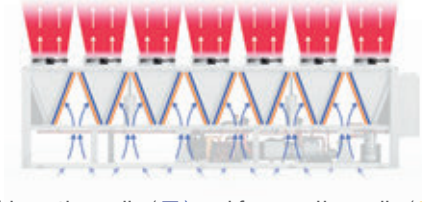
# Integrated + Decoupled

The free-cooling module is integrated with Carrier's award-winning 30XV air-cooled chiller, which means everything from the looks to the controls performs as one unit. At the same time, the unit is decoupled from the chiller to ensure optimal operation when the chiller is running alone, free cooling is running alone, and most importantly, when both systems are running together.

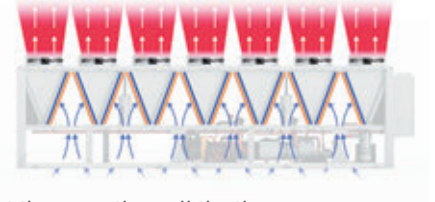
## Mechanical Cooling operation



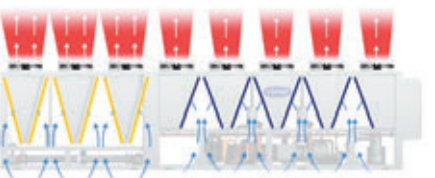
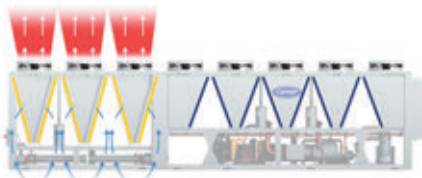
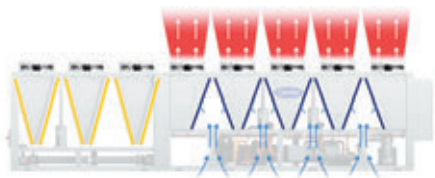
## Free-Cooling operation



## Hybrid Cooling operation



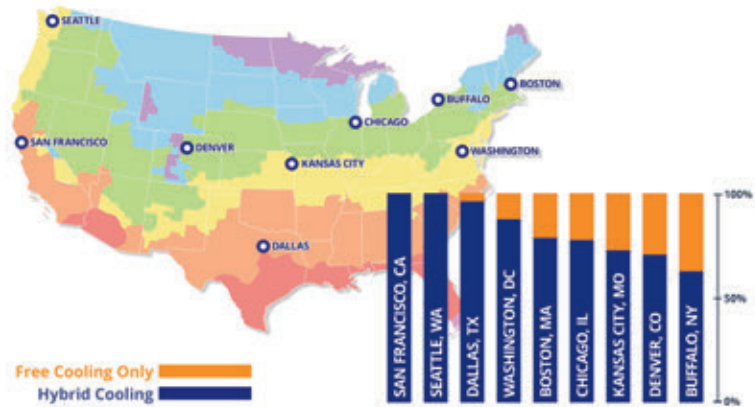
Traditional chillers with stacked refrigeration coils (■) and free cooling coils (■), run at the same time, all the time.



Carrier's modular system with separate refrigeration coils (■) and free cooling coils (■), can run independent of each other.

# Hybrid Operation

The majority of operating time will be spent in hybrid mode, regardless of the application. Hybrid mode is where mechanical cooling and free cooling occur simultaneously. Carrier MaxCap Advantage allows for maximum efficiency when operating in this mode.



# Unmatched Flexibility

Don't settle for a one-size-fits-all solution when you need versatility. Carrier's free-cooling option with MaxCap Advantage allows for customized solutions with as few (or as many) modules as are needed.



Customize your needs with 2, 3, 4 or more free-cooling modules.

## A Service-Oriented Design

Traditional “stacked” designs make servicing the coils a challenge. There’s no easy way to remove dirt trapped within the coils. Carrier’s free-cooling design not only eliminates the “sandwich effect” which can trap dirt, but it also comes with an industry-exclusive service door.



Traditional stacked design traps dirt.



Carrier's free-cooling design is easier to clean.

## A Foundation of Trust

Carrier is a world leader in HVAC, Refrigeration, Fire & Security solutions. For over a century, we have been developing innovative products and services that have changed the way people live and work. That drive for innovation continues today with a renewed focus on creating solutions that will change the world for the better.

At Carrier, we see possibilities in everything.  
[www.corporate.carrier.com](http://www.corporate.carrier.com)



## The Proof? It's in the Results.



### Lower Operating Costs.

#### Reliably efficient and easy to service.

Carrier's industry-leading efficiencies keep your energy costs under control. And all Carrier hardware is designed to streamline operations by making maintenance fast and easy.



### Maximize Energy.

#### We call it “all seasons efficiency.”

Day or night, winter or summer, Carrier chillers and free-cooling systems deliver optimum energy efficiency at every load point.



### Scale It.

**Your systems grow with you.** Carrier's experts are ready to deliver a modular solution so you can quickly and cost-effectively expand your cooling capacity as your business grows—helping to control and manage capital and operating expenses now and in the future.



Turn to the experts

[carrier.com/commercial](http://carrier.com/commercial)