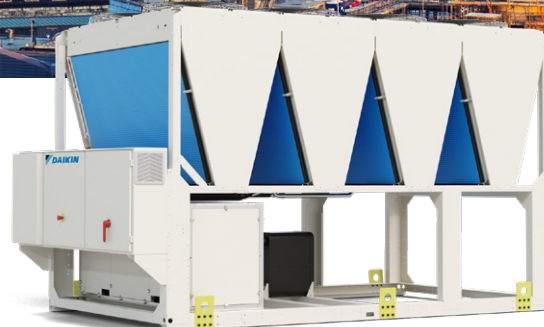


EWAT-B

Multi scroll chiller
with free cooling



Environmentally friendly
R-32 refrigerant with
675 GWP - A2L



R-32

BLUEVOLUTION

AHUs

CHILLERS

PROJECTS

SERVICE

Why choose EWAT-B- chiller series?

- ✓ Improve energy efficiency and reduce running costs with innovative free-cooling options
- ✓ SEER up to 4.7, overcoming 2021 Eco-design requirements
- ✓ Glycol free solution
- ✓ No refrigerant pump required
- ✓ No extra footprint vs standard unit*
- ✓ No extra pressure drops on water side

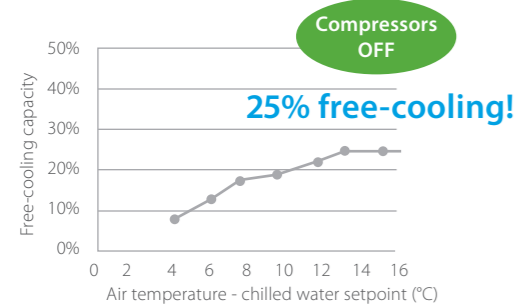


(* except 4 fans model)

Free cooling

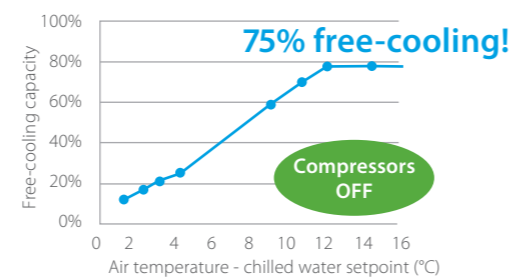
Free-cooling - Light

› Refrigerant migration system allowing to recover up to 25% of normal unit capacity



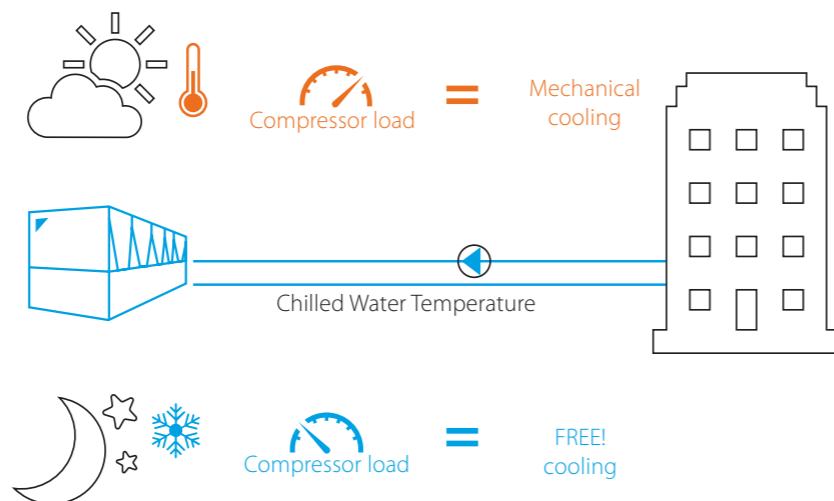
Free-cooling - Full

› 75% free-cooling due to additional "Shell & Tube" refrigerant to water exchanger (compared to Light version)



What is free cooling?

Free cooling operation will **reduce the power consumption** of the chiller by taking advantage of lower ambient temperatures to cool air or water (E.g. during colder or intermediate seasons or even during night time operation)



Why free-cooling?

All new buildings in the European Union shall be nZEB (**nearly Zero Energy Buildings**) from 31/12/2020 with public buildings leading the way to be nZEB compliant from 31/12/2018. From **2021** this will also apply to private buildings. [Energy Performance of Buildings Directive]

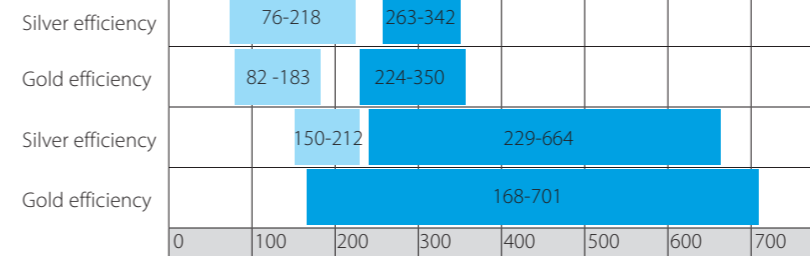
Range overview

EWAT-B is available with:

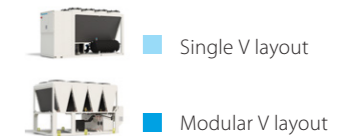
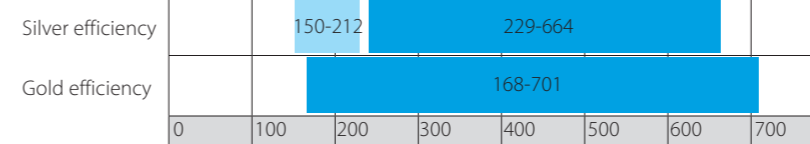
- › Two different layouts; single V coil and modular V coils
- › Two efficiency levels; Gold (high) and silver (standard)
- › One or two independent refrigerant circuits

Noise version / Source	Compressor enclosure	Fan speed	Avg sound power reduction	Compressor enclosure	Fan speed	Avg sound power reduction
Standard	Not insulated	Standard	-	-	Standard	-
Low	Insulated	Standard	-1.5 dB (A)	Insulated	Standard	-3.0 dB (A)
Reduced	Insulated	Reduced	-6.5 dB (A)	Insulated	Reduced	-8.5 dB (A)

Single circuit



Twin circuit

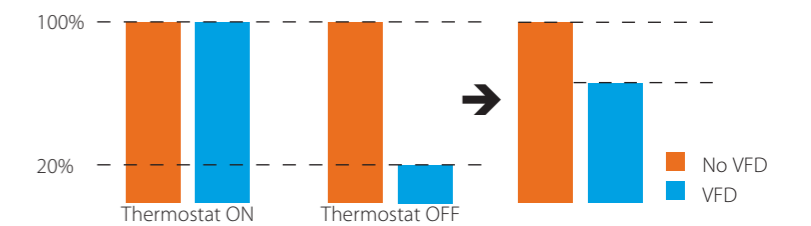


Options list

One / two centrifugal pump with buffer tank

- › Variable speed pump (for "thermostat on/off" pump speed function or to be controlled with external BMS) or variable primary flow management (via external 0-10 volt signal)
- › Unit mounted buffer tank available across the range for plug and play solution
- › Buffer tank with 500 ltr or 100 ltr capacity
- › All housed within the unit footprint

Pumping energy



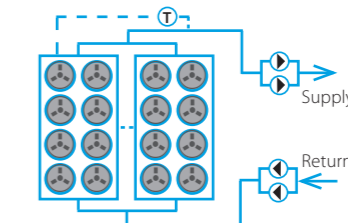
Partial heat recovery

Condensation control to maintain heat recovery capacity at lower ambient temperatures (at 100% operating capacity)

	HR @ 35°C ambient	HR @ 20°C ambient
Current	~ 15%	~ 3%
New	~ 15%	~ 15%

Master/Slave functionality supplied as standard

- › Manage up to 4 units on the same system
- › No need for external control devices



Fan Silent Mode

Both single V units and units with VFD option are equipped with Fan Silent Mode as standard. (By reducing fan velocity on scheduled time bands, this reduces unit noise emissions; enhancing comfort during night operation)

Service & Maintenance

with Daikin Applied Service

Daikin Applied Service offers maintenance, repairs and support on ALL brands of HVAC systems and applied system solutions; covering air handling units, chillers, split air conditioning, VRV and heat pumps.

Service capabilities

- › Flexible maintenance contracts tailored to your business needs
- › Maintenance of ALL brands of HVAC equipment
- › 24/7 emergency call out service
- › Up to four hour response time
- › Qualified site service engineers (F-Gas Registered)
- › Remote monitoring with Daikin On Site (DOS)
- › On site training for front-line personnel
- › Tailored Service Level Agreement (SLA)
- › Full chiller running logs taken on every service visit
- › Comprehensive spare parts availability & support on all brands
- › Retrofitting & refurbishment

Benefits of a maintained system

- › Lower operation costs and energy usage
- › Extended life-cycle of assets
- › Fast and reliable remote diagnostics with Daikin On Site
- › Reduced equipment downtime and costly repairs
- › Improved indoor air quality

Service Packages	BUSINESS Saver	BUSINESS Standard	BUSINESS Plus
Conforms to SFG20 maintenance standard	✓	✓	✓
F-Gas leak test	✓	✓	✓
Unit controller set points, safeties and running conditions logged	✓	✓	✓
Equipment condition report	✓	✓	✓
Four visits per annum (1 major / 3 minor)		✓	
Calibration of all sensors, probes and safety switches		✓	✓
System Diagnostics		✓	✓
Oil Analysis		●	✓
Thermography	✓	●	●
Multi-site visits & bespoke offering			●
Daikin on Site remote monitoring			●
1 point vibration analysis			●
System water analysis			●
Condenser coil cleaning			●

● Optional extras that can be tailored to your needs.

Daikin on Site

Standard on all new installations

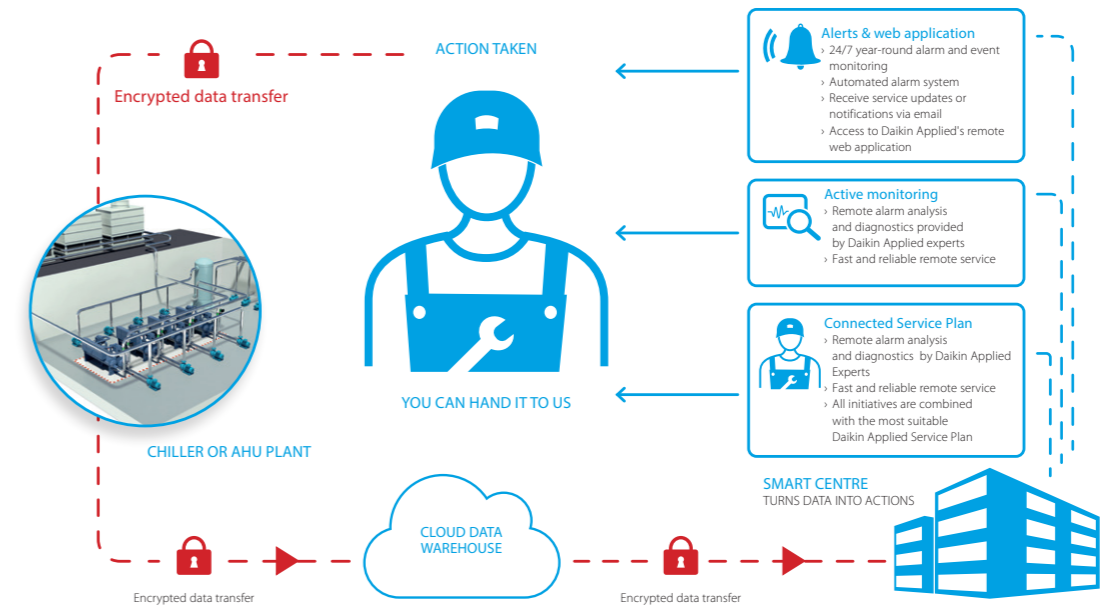
What is Daikin on Site?

Daikin on Site (DOS) is a web-based 24/7 remote monitoring system that collects complex operational data from the AHU or chiller control system.

Daikin's Smart Centre turns the operational data into useful information that allows the user to remotely monitor performance. It also allows Daikin professionals to remotely optimise and maintain the equipment.

Main benefits to DOS

- › Remote diagnostic support from Daikin experts
- › Enhanced reliability and reduced system downtime
- › Optimised energy efficiency and reduced operational costs over the systems lifetime
- › Insight into operational data to optimise the use of equipment via Trend Analysis



Cloud technology to hand

Remote maintenance allows your system to be accessed using any web-compatible devices any time and anywhere using cloud technology. Process data is collected automatically in real time and stored centrally.



Insight into operational data for enhanced control and reliability

Through enhanced operational data, Daikin engineers are able to remotely monitor system performance, run diagnostics and software upgrades. If an on-site visit is required, the service engineer will arrive already informed of the issue, reducing system downtime.



Simple, effective connection

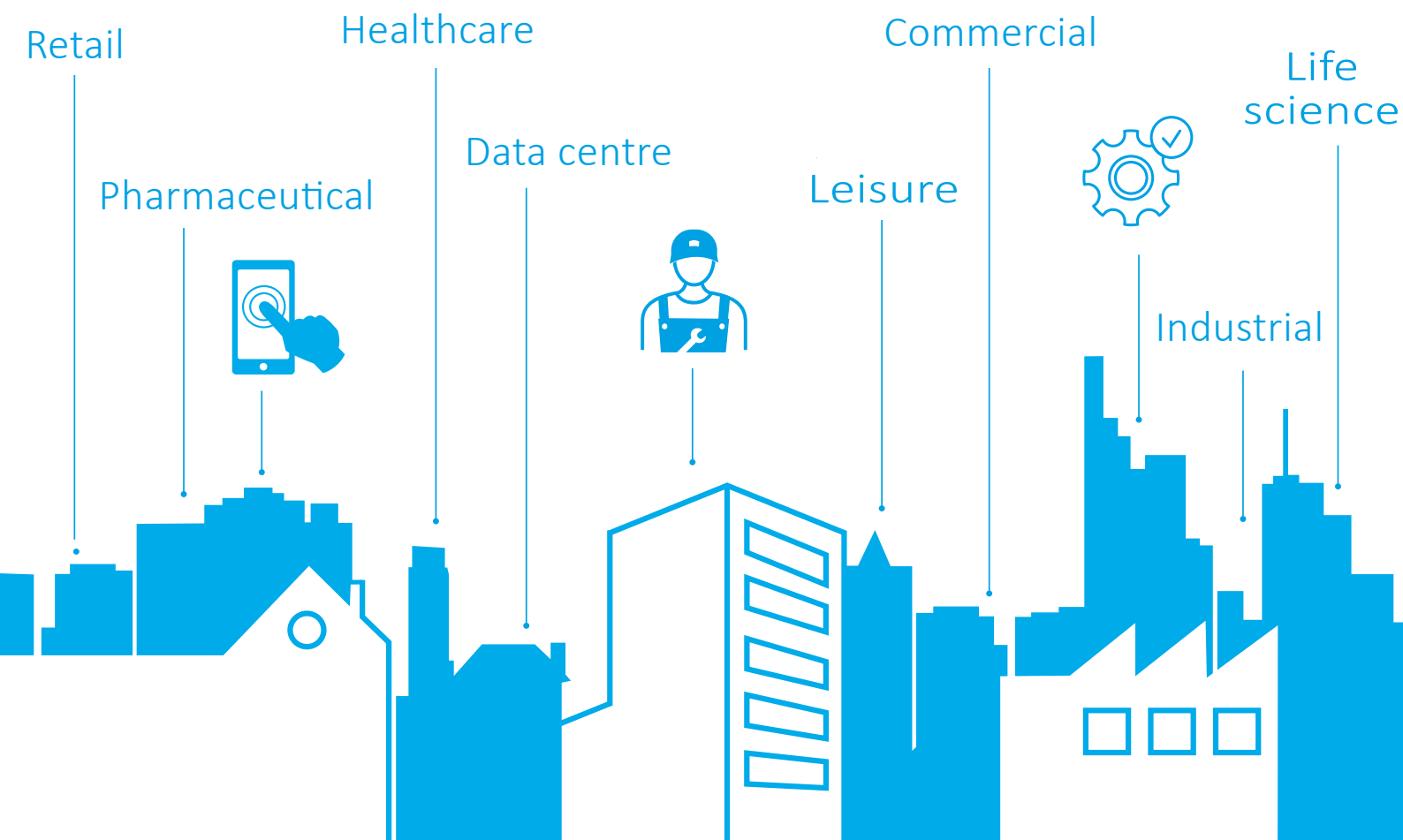
Most Daikin Applied Chiller and AHU controllers have a built-in IP interface. This allows connection for remote monitoring either through LAN or with wireless modem communication.



High security

Secure in all aspects such as data privacy, data storage security and data transport.

- › All connections are encrypted (HTTPS) to prevent wiretapping and man-in-the-middle (MITM) attacks
- › CSA security attestation
- › Data privacy conforming to EU data privacy regulations
- › Geo-redundant data storage in Northern Europe



For more information email info@daikinapplied.uk or visit www.daikinapplied.uk

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 Daikin Applied Service &
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0345 565 2700



Daikin Europe N.V. participates in the Eurovent Certified Performance programme for Liquid Chilling Packages and Hydronic Heat Pumps, Fan Coil Units and Variable Refrigerant Flow systems. Check ongoing validity of certificate: www.eurovent-certification.com

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