

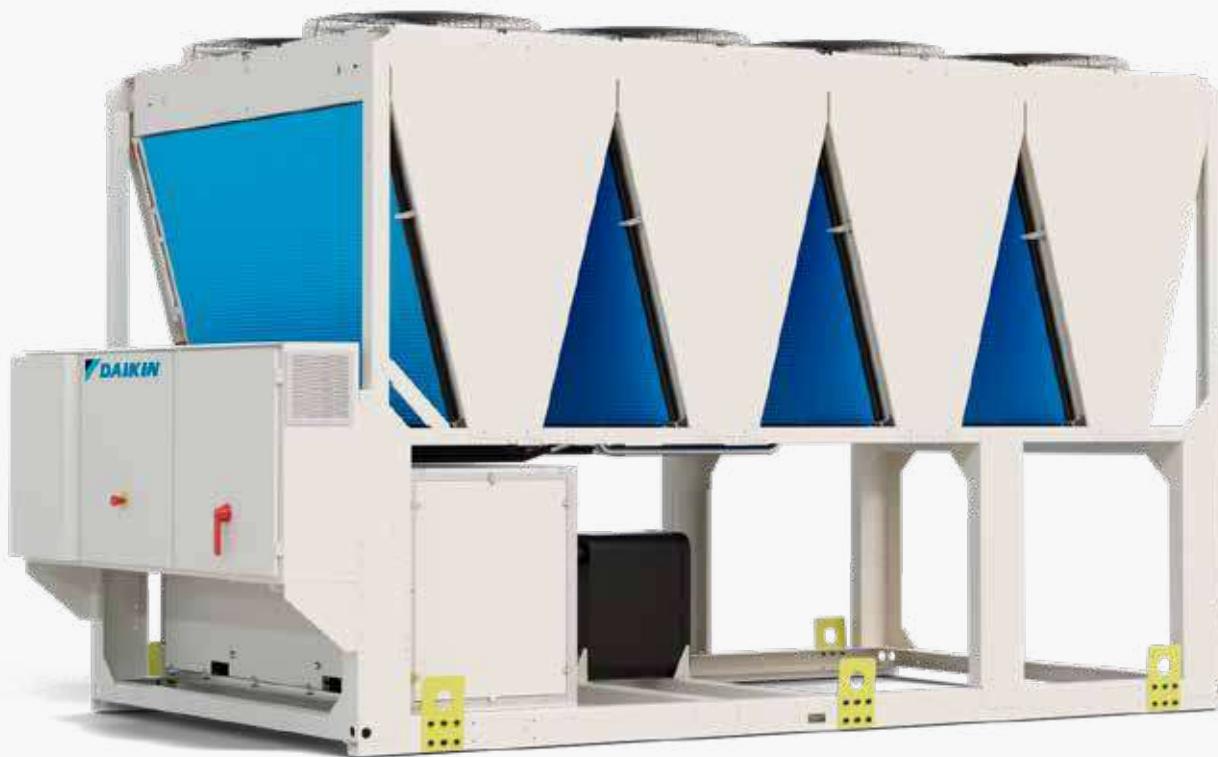


BLUEVOLUTION

R-32

# EWAT-B

Multi scroll chiller  
with R-32 refrigerant



First air cooled chiller with environmental friendly R-32 refrigerant



Daikin, world's first company introducing  
a new generation of air cooled scroll  
chiller series with refrigerant R-32.



# Why choose Daikin?

**Daikin is continuously leading in chiller technology, striving again for innovation with the new generation of air cooled chillers with R-32 refrigerant, expanding its Bluevolution range to larger capacities.**

With the highest efficiency at both partial and full load, installers and building owners can give end users better results all year round comfort – with lower noise levels and higher energy efficiency than ever before.

Thousands of sites around the world have relied on Daikin high efficiency products to reduce their running costs without compromising on climate comfort or performance.

With the R-32 Scroll-chiller, Daikin has once again improved the chiller performances, increasing the Seasonal efficiency ratio (SEER) by 10% in comparison to the version with R-410A refrigerant.





# Why has Daikin introduced R-32 models?

A core element of Daikin's corporate philosophy is that the company strives to be a leader in applying environmentally friendly practices, with energy efficiency and refrigerant choice as key factors.

Daikin, involved in both HVAC and refrigerant business, was the world first company to introduce R-32 in split air conditioners in 2012, and has expanded the range in the past years including commercial air conditioners and heat pumps. The global warming potential of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410. Thanks to the lower flammability classification (R-32 refrigerant falls into category class A2L in ISO817), it can be safely used in many applications including chilled water systems. As a single component refrigerant, R-32 is also easier to recycle and reuse another environmental plus in its favour.

## What is GWP?

Global Warming Potential (GWP) is a number which expresses the potential impact that a particular refrigerant would have on global warming if it were released into the atmosphere. It is a relative value which compares the impact of 1kg of refrigerant to 1kg of CO<sub>2</sub> over a period of 100 years.

Although this impact can be avoided by preventing leaks and ensuring proper end of life recovery, choosing a refrigerant with a lower GWP and minimizing the volume of refrigerant will reduce the risk to the environment if a leak were to occur accidentally.



# Why choose EWAT-B chiller series?

## R-32

- Top class efficiency, SEER up to 4.84.  
Overcoming 2021 Eco-design requirements!
- Environmental friendly refrigerant  
→ First in the market
- R-32 optimized scroll compressors  
and heat exchangers
- The Global Warming Potential (GWP) of R-32 refrigerant is 675, which is only one third compared to commonly used refrigerant R-410
- The low GWP R-32 refrigerant falls into category class A2L in ISO817 and it can be safely used in many applications including chilled water systems
- As a single component refrigerant, R-32 is also easier to recycle and reuse another environmental plus in its favour
- Wide capacity range: 80 – 700 kW
- Microchannel condensing coil,  
for reduced refrigerant charge



Silver and Gold efficiency versions

Extensive option lists

3 sound configurations

Fan speed modulation option (VFD)

Full compatibility with Daikin on Site

Hydronic Kit configurations (single and twin pump, inertial tank, VFD)

Single and dual circuit version overlapping between 150 kW and 350 kW

- > Single circuit units fits 2 or 3 compressors
- > Dual circuit units fits 4 or 5 or 6 compressors



# Two different layouts



## Single-V Layout

- › Slim layout
- › Higher flexibility: three intermediate sound configuration for both Silver and Gold versions



## Modular-V Layout:

- › Better part load efficiency (SEER) vs previous generation:
  - › +4% with standard arrangement
  - › +7% with VFD fan option



# Extensive option lists

## Including options:

### Partial heat recovery

Introduction of condensation control allowing to maintain heat recovery capacity at lower ambient temperatures with unit operating at full capacity.

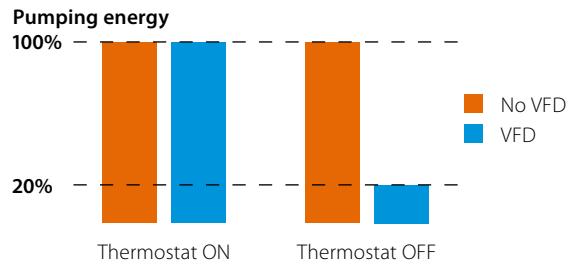
|         | HR @ 35°C ambient | HR @ 20°C ambient |
|---------|-------------------|-------------------|
| Current | ~ 15%             | ~ 3%              |
| New     | ~ 15%             | ~ 15%             |

### Buffer tank

Unit mounted buffer tank available all across the range for plug and play solution.

### VFD pumps and variable flow control

- › Variable pump speed control via external 0-10 volt signal
- › "Thermostat on" and "thermostat off" pump speed management
- › Variable primary flow control



### Master/Slave supplied as standard

Master/Slave functionality allowing to manage up to 4 units on the same system without the need of external control devices.

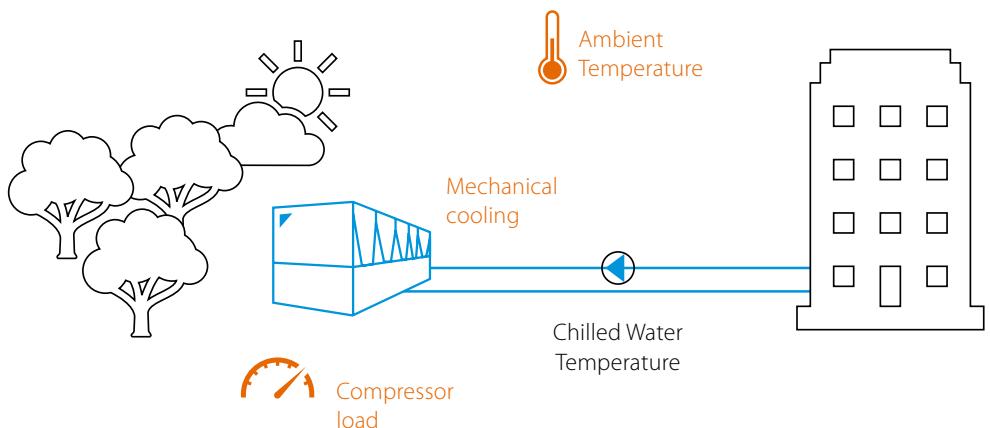
### Fan Silent Mode

The single V units and units with VFD option are standardly equipped with Fan Silent Mode, which reduces fan velocity and therefore unit sound emission on scheduled time bands, enhancing comfort during night operation.

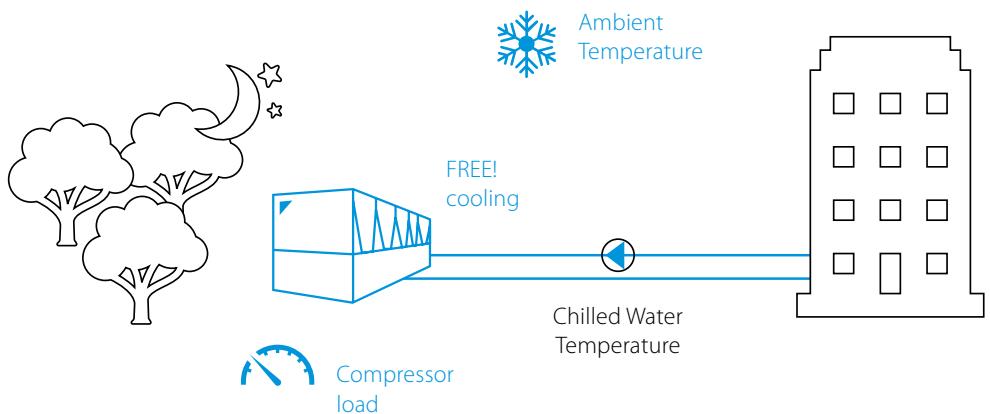
# Free-cooling options

## What is free cooling?

It's the capability of a system/equipment to cool air or water by taking advantage of the **favorable outdoor conditions** when ambient temperature is reducing, for example during winter or intermediate season or even during night time operation.



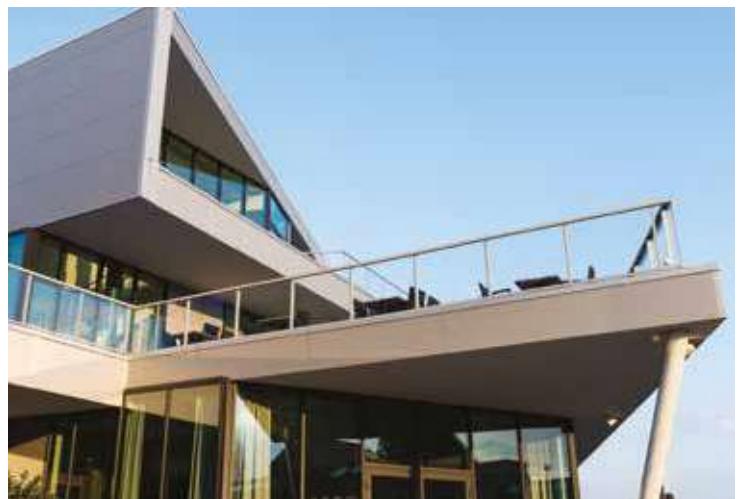
Free cooling operation allows to **reduce the power consumption** generated by traditional mechanical cooling (e.g. Compressors).



## Why free-cooling?

The use of the outdoor ambient as a source for cooling is the perfect way to answer to the "**EPBD Directive**" (Energy Performance of Buildings Directive):

All new buildings in the European Union shall be nZEB (**nearly Zero Energy Buildings**) from 31/12/2020 and public buildings shall lead the way and be nZEB compliant **from 31/12/2018**. From **2021** this will apply also to private buildings.



# BLUEVOLUTION +



The Daikin R-32 chiller series can be offered with innovative free-cooling options to further improve energy efficiency and reduce running costs

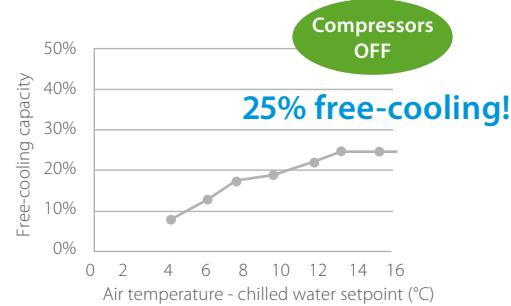


## Free-cooling - Light

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

### Benefits

- › Glycol free solution
- › No refrigerant pump required
- › No extra footprint vs standard unit
- › No extra pressure drops on water side



## Free-cooling - Full

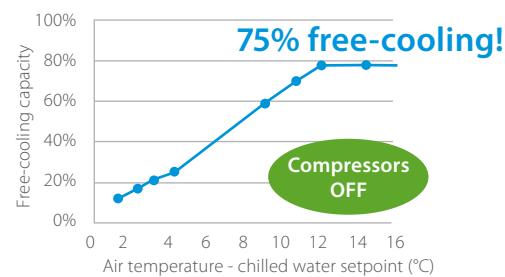


Refrigerant migration system allowing to recover up to 75% of normal unit capacity

### Benefits

- › 75% free-cooling due to additional "Shell & Tube" refrigerant to water erchanger (compared to Light version)
- › Glycol free solution
- › No refrigerant pump required
- › No extra footprint vs standard unit\*
- › No extra pressure drops on water side

(\* except 4 fans model)



# Connectivity

## mAP

- › Android app
- › Replicate the controller of the unit
- › Operate on the unit by remote smart device (tablet, smartphone, PC)
- › Soon available on PlayStore



## Daikin on Site

Fully compatible with Daikin on Site cloud based platform that allows a number of advanced functionalities including:

- › Remote monitoring,
- › System optimization
- › Preventive maintenance

Remote access with one click via LAN or GSM modem



## Connection to Intelligent Chiller Manager



In case of more complex installations Daikin can offer the Intelligent Chiller Manager option, allowing energy optimisation of the system and, when necessary, full customization of the control solutions to the specific installation's needs

- › High number of units
- › Peripheral controls



# Technical details

Extensive list of options and accessories can be provided on request, such as fully integrated hydronic kit for fixed flow or variable flow operation, partial or total heat recovery for sanitary hot water production and many other solutions.

**R-32**

| Cooling Only               |                                    |          | EWAT-B-SSB/SLB | 085   | 115    | 135    | 155    | 175    | 195    | 205    | 215    | 240    | 260    | 290    | 310    | 330    | 340               | 350    | 420    | 460    | 510    | 570    | 610    | 670    |      |
|----------------------------|------------------------------------|----------|----------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|------|
| Space cooling              | A Condition 35°C                   | Pdc      | kW             | 80.92 | 108.97 | 131.42 | 158.15 | 174.93 | 191.39 | 210.53 | 217.08 | 241.41 | 260.58 | 282.93 | 306.42 | 329.59 | 343.51            | 350.1  | 416.28 | 467.54 | 513.41 | 566.53 | 611.64 | 667.91 |      |
|                            | $\eta_{s,c}$                       | %        | %              | 161   | 173    | 161    | -      | 176.2  | 170.6  | 173    | 161    | -      | -      | -      | -      | -      | -                 | -      | -      | -      | -      | -      | -      |        |      |
|                            | $\eta_{s,c} + VFDFAN$              | %        | -              | -     | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -                 | -      | -      | -      | -      | -      | -      |        |      |
| SEER                       |                                    |          |                | 4.1   | 4.4    | 4.1    | 4.48   | 4.34   | 4.4    | 4.1    | 4.37   | 4.14   | 4.42   | 4.52   | 4.33   | 4.44   | 4.24              | -      | 4.56   | -      | -      | 4.55   | -      |        |      |
| SEER + VFDFAN              |                                    |          |                | -     | -      | -      | -      | -      | -      | -      | 4.46   | 4.21   | 4.52   | 4.64   | 4.41   | 4.66   | 4.31              | 4.57   | 4.63   | 4.62   | 4.56   | 4.58   | 4.67   |        |      |
| Cooling capacity           | Nom.                               |          | kW             | 81    | 109    | 131    | 158    | 175    | 191    | 211    | 217    | 241    | 261    | 283    | 306    | 330    | 344               | 350    | 416    | 468    | 513    | 567    | 612    | 668    |      |
| Power input                | Cooling                            | Nom.     | kW             | 31.8  | 38.5   | 49.8   | 61.9   | 67.8   | 69.5   | 80     | 85.8   | 85.2   | 95.6   | 108    | 113    | 122    | 117               | 132    | 147    | 171    | 186    | 216    | 230    | 238    |      |
| Capacity control           | Method                             |          |                | -     | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -                 | Step   | -      | -      | -      | -      | -      |        |      |
|                            | Minimum capacity                   | %        |                | 50    | 38     | 50     | 25     | 38     | 21     | 19     | 50     | 17     | 25     | 24     | 14     | 13     | 33                | 19     | 17     | 15     | 14     | 12     | 11     | 17     |      |
| EER                        |                                    |          |                | 2.55  | 2.83   | 2.64   | 2.55   | 2.58   | 2.75   | 2.63   | 2.53   | 2.83   | 2.73   | 2.62   | 2.72   | 2.71   | 2.94              | 2.65   | 2.84   | 2.73   | 2.76   | 2.63   | 2.66   | 2.8    |      |
| IPLV                       |                                    |          |                | 4.65  | 4.92   | 4.46   | 4.68   | 4.78   | 4.84   | 4.86   | 4.7    | 4.67   | 4.44   | 4.74   | 4.86   | 4.63   | 4.8               | 4.56   | 4.87   | 4.84   | 4.81   | 4.89   | 4.9    | 4.86   |      |
| EER + VFDFAN               |                                    |          |                | -     | -      | -      | -      | -      | -      | -      | 2.83   | 2.73   | 2.62   | 2.72   | 2.7    | 2.93   | 2.65              | 2.83   | 2.73   | 2.76   | 2.62   | 2.66   | 2.8    |        |      |
| IPLV + VFDFAN              |                                    |          |                | -     | -      | -      | -      | -      | -      | -      | 4.81   | 4.27   | 4.55   | 5.02   | 4.75   | 5      | 4.7               | 4.91   | 4.89   | 4.9    | 4.93   | 4.89   | 5      |        |      |
| Dimensions                 | Unit                               | Height   | mm             | 1,801 | 1,822  | 1,801  | 1,822  | 1,822  | 1,822  | 1,822  | 1,822  | 1,822  | 1,822  | 1,822  | 1,822  | 1,822  | 1,822             | 1,822  | 1,822  | 1,822  | 1,822  | 1,822  | 1,822  |        |      |
|                            |                                    | Width    | mm             | -     | -      | 1,204  | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -                 | -      | 2,236  | -      | -      | -      | -      |        |      |
|                            |                                    | Depth    | mm             | 2,120 | 2,660  | 3,570  | 3,180  | 4,170  | 3,780  | 3,780  | 3,780  | 3,780  | 3,780  | 3,780  | 3,780  | 3,780  | 3,780             | 3,780  | 3,780  | 3,780  | 3,780  | 3,780  | 3,780  |        |      |
| Weight (SSB)               | Unit                               | kg       | 681            | 767   | 811    | 1,007  | 984    | 1,166  | 1,158  | 1,184  | 1,712  | 1,739  | 1,912  | 2,186  | 2,214  | 2,343  | 2,242             | 2,721  | 2,881  | 3,037  | 3,278  | 3,712  | 4,073  |        |      |
|                            | Operation weight                   | kg       | 686            | 773   | 820    | 1,014  | 996    | 1,177  | 1,169  | 1,200  | 1,723  | 1,750  | 1,928  | 2,205  | 2,233  | 2,363  | 2,261             | 2,749  | 2,909  | 3,065  | 3,320  | 3,754  | 4,115  |        |      |
| Weight (SLB)               | Unit                               | kg       | 691            | 777   | 821    | 1,028  | 994    | 1,187  | 1,179  | 1,194  | 1,815  | 1,842  | 2,004  | 2,289  | 2,317  | 2,434  | 2,345             | 2,824  | 3,066  | 3,223  | 3,484  | 3,918  | 4,279  |        |      |
|                            | Operation weight                   | kg       | 696            | 783   | 830    | 1,035  | 1,006  | 1,198  | 1,190  | 1,210  | 1,826  | 1,853  | 2,020  | 2,308  | 2,336  | 2,454  | 2,364             | 2,852  | 3,094  | 3,251  | 3,526  | 3,960  | 4,321  |        |      |
| Water heat exchanger       | Type                               |          |                |       |        |        |        |        |        |        |        |        |        |        |        |        | Brazed plate      |        |        |        |        |        |        |        |      |
|                            | Water volume                       | l        | 5              | 6     | 9      | 7      | 12     | 11     | 16     | 11     | 16     | 11     | 16     | 19     | 20     | 19     | 28                | 42     |        |        |        |        |        |        |      |
|                            | Water flow rate                    | Cooling  | Nom.           | l/s   | 3.9    | 5.2    | 6.3    | 7.6    | 8.4    | 9.1    | 10.1   | 10.4   | 11.5   | 12.4   | 13.5   | 14.6   | 15.7              | 16.4   | 16.7   | 19.9   | 22.3   | 24.5   | 27     | 29.2   | 31.9 |
|                            | Water pressure drop                | Cooling  | Nom.           | kPa   | 27.3   | 34.4   | 26.5   | 64.2   | 41.7   | 45.9   | 54.4   | 41.4   | 69.7   | 80     | 66.7   | 46.4   | 52.9              | 77.2   | 59     | 54.5   | 67.2   | 79.6   | 65.4   | 75.1   | 88   |
| Air heat exchanger         | Type                               |          |                |       |        |        |        |        |        |        |        |        |        |        |        |        | Microchannel      |        |        |        |        |        |        |        |      |
| Compressor                 | Type                               |          |                |       |        |        |        |        |        |        |        |        |        |        |        |        | Scroll compressor |        |        |        |        |        |        |        |      |
|                            | Quantity                           |          |                |       |        |        |        | 2      | 4      | 2      | 4      | 2      | 4      | 3      | 4      | 3      | 4                 | 5      | 6      |        |        |        |        |        |      |
| Fan                        | Type                               |          |                |       |        |        |        |        |        |        |        |        |        |        |        |        | Direct propeller  |        |        |        |        |        |        |        |      |
|                            | Quantity                           |          |                |       |        |        |        | 4      | 6      | 8      | 10     |        | 4      | 5      | 6      | 5      | 7                 | 8      | 9      | 11     |        |        |        |        |      |
|                            | Air flow rate Nom.                 |          |                | l/s   | 6,022  | 9,036  | 13,354 | 12,023 | 16,710 | 15,057 |        | 20,306 |        | 25,382 | 30,459 | 25,382 | 35,535            | 40,612 | 45,688 | 55,841 |        |        |        |        |      |
|                            | Speed                              |          |                | rpm   |        |        |        |        |        |        | 1,360  |        |        |        |        |        |                   | 900    |        |        |        |        |        |        |      |
| Sound power level (SSB)    | Cooling                            | Nom.     | dBA            | 84.8  | 88.2   | 89.7   | 87.8   | 91.8   | 89.9   | 90.9   | 93.2   | 93.3   | 93.8   | 94.8   | 94.9   | 95.3   | 96.1              | 95.6   | 96.7   | 97     | 97.6   | 97.8   | 98.3   | 99     |      |
| Sound power level (SLB)    | Cooling                            | Nom.     | dBA            | 83.7  | 86.2   | 87     | 86.7   | 88.8   | 88.1   | 88.7   | 90     | 90.8   | 91     | 91.8   | 91.9   | 92.7   | 91.9              | 93.3   | 93.4   | 93.9   | 94     | 94.5   | 95.3   |        |      |
| Sound pressure level (SSB) | Cooling                            | Nom.     | dBA            | 67.4  | 70.5   | 72     | 69.5   | 73.8   | 71.3   | 72.3   | 74.8   | 74.3   | 74.8   | 75.8   | 75.4   | 75.8   | 76.6              | 76.1   | 76.7   | 77     | 77.6   | 77.9   | 78.2   |        |      |
| Sound pressure level (SLB) | Cooling                            | Nom.     | dBA            | 66.3  | 68.5   | 69.3   | 68.4   | 70.7   | 69.5   | 70.1   | 71.6   | 71.8   | 72     | 72.3   | 72.4   | 73.2   | 72.4              | 73.3   | 73.4   | 74     | 74.1   | 74.6   |        |        |      |
| Refrigerant                | Type/GWP                           |          |                |       |        |        |        |        |        |        |        |        |        |        |        |        | R-32/675          |        |        |        |        |        |        |        |      |
|                            | Charge                             | kg       | 7.5            | 8.5   | 13     | 11     | 14.5   | 13     | 19     | 25.5   | 25     | 26     | 24     | 34.5   | 36     | 41     | 42                | 46.5   | 52.5   |        |        |        |        |        |      |
|                            | Circuits                           | Quantity |                | 1     | 2      | 1      | 2      | 1      | 2      | 1      | 2      | 1      | 2      | 1      | 2      | 1      | 2                 | 1      | 2      |        |        |        |        |        |      |
| Piping connections         | Evaporator water inlet/outlet (OD) |          |                | 76.1  | 88.9   | 76.1   | 88.9   | 76.1   | 88.9   | 76.1   | 88.9   | 76.1   | 88.9   | 88.9   | 88.9   | 88.9   | 88.9              | 88.9   | 88.9   | 114.3  |        |        |        |        |      |
| Unit                       | Starting current                   | A        | 213            | 313   | 324    | 284    | 462    | 384    | 395    | 498    | 410    | 420    | 546    | 573    | 583    | 588    | 594               | 636    | 681    | 719    | 763    | 801    | 843    |        |      |
|                            | Running current                    | A        | 59             | 69    | 83     | 108    | 113    | 117    | 131    | 142    | 147    | 160    | 179    | 194    | 206    | 196    | 219               | 238    | 285    | 310    | 358    | 381    | 398    |        |      |
|                            | Max                                | A        | 73             | 86    | 96     | 143    | 132    | 156    | 167    | 168    | 182    | 193    | 216    | 243    | 254    | 258    | 265               | 307    | 351    | 389    | 433    | 471    | 513    |        |      |
| Power supply               | Phase/Frequency                    | Hz       |                |       |        |        |        |        |        |        |        |        |        |        |        |        | 3~/50             |        |        |        |        |        |        |        |      |

**R-32**

| Cooling Only         |                                    | EWAT-B-SRB | 085  | 115   | 135   | 155    | 175    | 195    | 205    | 215    | 240    | 260    | 290    | 310    | 330    | 340    | 350    | 420    | 460    | 510    | 570    | 610    | 670    |        |       |
|----------------------|------------------------------------|------------|------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Space cooling        | A Condition 35°C                   | Pdc        | kW   | 76.49 | 105   | 123.88 | 150.13 | 164.87 | 181.31 | 200.51 | 203.5  | 231.19 | 248.68 | 266.45 | 290.26 | 311.62 | 329.53 | 330.8  | 398.49 | 443.51 | 488.06 | 534.23 | 578.74 | 637.95 |       |
|                      | ηs,c                               |            | %    | 161   | 173   | 161    |        | 166.2  | 162.2  | 167.8  | 161    | 179.8  | 164.2  | 174.2  | 172.2  | 173.8  | 179    | 165    | 179    | 179.8  | 179.4  |        | 179    |        |       |
| SEER                 |                                    |            |      | 4.1   | 4.4   | 4.1    |        | 4.23   | 4.13   | 4.27   | 4.1    | 4.57   | 4.18   | 4.43   | 4.38   | 4.42   | 4.55   | 4.2    | 4.55   | 5.57   | 4.56   |        | 4.55   |        |       |
| Cooling capacity     | Nom.                               |            | kW   | 76    | 105   | 124    | 150    | 165    | 181    | 201    | 204    | 231    | 249    | 266    | 290    | 312    | 330    | 331    | 398    | 444    | 488    | 534    | 579    | 638    |       |
| Power input          | Cooling                            | Nom.       | kW   | 33.7  | 40.3  | 53     | 65.9   | 73     | 73.2   | 84.6   | 91.9   | 89     | 99.9   | 115    | 119    | 129    | 122    | 140    | 147    | 181    | 197    | 230    | 244    | 251    |       |
| Capacity control     | Method                             |            |      |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|                      | Minimum capacity                   |            | %    | 50    | 38    | 50     | 25     | 38     | 21     | 19     | 50     | 17     | 25     | 24     | 14     | 13     | 33     | 19     | 17     | 15     | 14     | 12     | 11     | 17     |       |
| EER                  |                                    |            |      | 2.27  | 2.61  | 2.34   | 2.28   | 2.26   | 2.48   | 2.37   | 2.21   | 2.6    | 2.49   | 2.31   | 2.44   | 2.41   | 2.7    | 2.35   | 2.71   | 2.45   | 2.48   | 2.32   | 2.37   | 2.55   |       |
| IPLV                 |                                    |            |      | 4.67  | 4.97  | 4.5    | 4.63   | 4.74   | 4.64   | 4.91   | 4.66   | 4.93   | 4.27   | 4.51   | 4.82   | 4.7    | 5      | 4.72   | 4.81   | 4.92   | 4.93   | 5.04   | 5.03   | 5.01   |       |
| Dimensions           | Unit                               | Height     | mm   |       |       | 1,801  |        | 1,822  |        |        |        |        |        |        |        |        |        |        |        |        | 2,540  |        |        |        |       |
|                      |                                    | Width      | mm   |       |       |        |        | 1,204  |        |        |        |        |        |        |        |        |        |        |        |        |        | 2,236  |        |        |       |
|                      |                                    | Depth      | mm   | 2,120 | 2,660 | 3,570  | 3,180  |        | 4,170  |        | 3,780  |        |        | 2,326  |        |        | 3,226  |        |        |        | 4,126  |        |        | 5,025  | 5,874 |
| Weight               | Unit                               |            | kg   | 691   | 777   | 821    | 1,028  | 994    | 1,187  | 1,179  | 1,194  | 1,815  | 1,842  | 2,004  | 2,289  | 2,317  | 2,434  | 2,345  | 2,824  | 3,066  | 3,223  | 3,484  | 3,918  | 4,279  |       |
|                      | Operation weight                   |            | kg   | 696   | 783   | 830    | 1,035  | 1,006  | 1,198  | 1,190  | 1,210  | 1,826  | 1,853  | 2,020  | 2,308  | 2,336  | 2,454  | 2,364  | 2,852  | 3,094  | 3,251  | 3,526  | 3,960  | 4,321  |       |
| Water heat exchanger | Type                               |            |      |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|                      | Water volume                       |            | l    | 5     | 6     | 9      | 7      | 12     | 11     | 16     | 11     | 16     | 19     | 20     | 19     |        | 28     |        |        |        | 42     |        |        |        |       |
|                      | Water flow rate                    | Cooling    | Nom. | l/s   | 3.7   | 5      | 5.9    | 7.2    | 7.9    | 8.7    | 9.6    | 9.7    | 11     | 11.9   | 12.7   | 13.9   | 14.9   | 15.7   | 15.8   | 19     | 21.2   | 23.3   | 25.5   | 27.6   | 30.4  |
|                      | Water pressure drop                | Cooling    | Nom. | kPa   | 24.6  | 32.2   | 23.8   | 58.5   | 37.5   | 41.6   | 49.9   | 36.8   | 64.5   | 73.5   | 59.9   | 42.1   | 47.8   | 71.7   | 53.2   | 50.4   | 61.1   | 72.7   | 58.9   | 68     | 81    |
| Air heat exchanger   | Type                               |            |      |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
| Compressor           | Type                               |            |      |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|                      | Quantity                           |            |      |       | 2     |        | 4      | 2      | 4      |        | 2      | 4      |        | 4      | 3      | 4      | 3      | 4      |        | 5      |        | 6      |        |        |       |
| Fan                  | Type                               |            |      |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|                      | Quantity                           |            |      |       | 4     |        | 6      |        | 8      |        |        | 10     |        | 4      |        | 5      | 6      | 5      | 7      |        | 8      | 9      | 11     |        |       |
|                      | Air flow rate Nom.                 |            | l/s  | 4,929 | 7,396 | 11,352 | 9,838  |        | 14,202 |        | 12,325 |        |        | 17,064 |        | 21,330 | 25,596 | 21,330 | 29,862 |        | 34,128 | 38,394 | 46,926 |        |       |
|                      | Speed                              |            | rpm  |       |       |        |        | 1,200  |        |        |        |        |        |        |        |        |        |        |        | 780    |        |        |        |        |       |
| Sound power level    | Cooling                            | Nom.       | dBA  | 78.6  | 82.5  | 84.1   | 81.6   | 86.3   | 83.9   | 85.2   | 87.8   | 87     | 87.2   | 87.5   | 88.2   | 88.3   | 89.1   | 88.4   | 89.8   | 90.4   | 90.5   | 91     | 91.8   |        |       |
| Sound pressure level | Cooling                            | Nom.       | dBA  | 61.2  | 64.7  | 66.4   | 63.3   | 68.3   | 65.3   | 66.6   | 69.4   | 68.1   | 68.2   | 68.5   | 68.7   | 68.8   | 69.6   | 68.9   | 69.8   | 69.9   | 70.5   | 70.6   | 71.1   |        |       |
| Refrigerant          | Type/GWP                           |            |      |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|                      | Charge                             |            | kg   | 7.5   | 8.5   | 13     | 11     |        | 14.5   |        | 13     |        | 19     |        | 25.5   | 25     | 26     | 24     | 34.5   | 36     | 41     | 42     | 46.5   | 52.5   |       |
|                      | Circuits                           | Quantity   |      |       | 1     |        | 2      | 1      |        | 2      |        | 1      | 2      | 1      | 2      | 1      |        |        | 2      |        |        |        |        |        |       |
| Piping connections   | Evaporator water inlet/outlet (OD) |            |      |       |       | 76.1   |        | 88.9   | 76.1   |        | 88.9   |        | 76.1   |        | 88.9   | 76.1   |        |        | 88.9   |        |        |        | 114.3  |        |       |
| Unit                 | Starting current                   | Max        | A    | 213   | 313   | 324    | 284    | 462    | 384    | 395    | 498    | 410    | 420    | 546    | 573    | 583    | 588    | 594    | 636    | 681    | 719    | 763    | 801    | 843    |       |
|                      | Running current                    | Cooling    | Nom. | A     | 62    | 71     | 87     | 115    | 119    | 123    | 139    | 151    | 165    | 189    | 202    | 216    | 202    | 231    | 245    | 298    | 324    | 378    | 402    | 414    |       |
|                      |                                    | Max        | A    | 73    | 86    | 96     | 143    | 132    | 156    | 167    | 168    | 182    | 193    | 216    | 243    | 254    | 258    | 265    | 307    | 351    | 389    | 433    | 471    | 513    |       |
| Power supply         | Phase/Frequency                    |            | Hz   |       |       |        |        |        |        |        |        |        |        |        |        |        |        | 3~/50  |        |        |        |        |        |        |       |

# Technical details

Extensive list of options and accessories can be provided on request, such as fully integrated hydronic kit for fixed flow or variable flow operation, partial or total heat recovery for sanitary hot water production and many other solutions.

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| Cooling Only               |                                    | EWAT-B-XSB/XLB | 085      | 115    | 145             | 180    | 185    | 200    | 220    | 230    | 250    | 280    | 300    | 310    | 320    | 360    | 370    | 430    | 470    | 540   | 600    | 660    | 700    |      |
|----------------------------|------------------------------------|----------------|----------|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|------|
| Space cooling              | A Condition 35°C Pdc               | kW             | 87.9     | 113.89 | 143.48          | 179.01 | 182.67 | 200.92 | 226.26 | 238.95 | 254.88 | 281.64 | 304.64 | 305.17 | 326.28 | 351.74 | 371.72 | 424.99 | 472.32 | 538.3 | 609.11 | 662.39 | 704.37 |      |
|                            | $\eta_{s,c}$                       | %              | 167      | 183    | 175             | -      | 175.8  |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            | $\eta_{s,c} + VFDFAN$              | %              |          |        |                 | 181.8  |        | 176.2  | 184.2  | 174.6  | 184.2  | 188.6  | 190.2  | 184.6  | 178.2  | 181    | 179.8  | 182.6  | 179.8  | 187   |        |        | 190.6  |      |
| SEER                       |                                    |                | 4.25     | 4.65   | 4.45            | 4.38   | 4.47   | 4.4    | 4.5    | 4.31   | 4.47   | 4.59   | 4.6    |        | 4.5    | 4.34   | 4.48   | 4.56   | 4.55   | 4.56  | 4.61   | 4.64   | 4.58   |      |
| SEER + VFDFAN              |                                    |                |          |        |                 | 4.62   | -      | 4.48   | 4.68   | 4.44   | 4.68   | 4.79   | 4.83   | 4.69   | 4.53   | 4.6    | 4.57   | 6.64   | 4.57   | 4.75  |        |        | 4.84   |      |
| Cooling capacity           | Nom.                               | kW             | 88       | 114    | 143             | 179    | 183    | 201    | 226    | 239    | 255    | 282    |        | 305    |        | 326    | 352    | 372    | 425    | 472   | 538    | 609    | 662    | 704  |
| Power input                | Cooling Nom.                       | kW             | 28.8     | 36.6   | 44.4            | 57     | 63.6   | 65.7   | 74.7   | 74.6   | 81.7   | 87.9   |        | 97.3   | 97.4   | 106.8  | 113    | 121    | 137    | 153   | 175    | 195    | 211    | 227  |
| Capacity control           | Method                             |                |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            | Minimum capacity                   | %              | 50       | 38     | 50              | 25     | 38     | 21     | 19     | 19     | 17     | 16     | 24     | 14     | 22     | 33     | 19     | 17     | 25     | 14    | 12     | 11     | 17     |      |
| EER                        |                                    |                | 3.05     | 3.12   | 3.23            | 3.14   | 2.87   | 3.06   | 3.03   | 3.21   | 3.12   | 3.2    | 3.13   | 3.313  | 3.06   | 3.11   | 3.06   | 3.11   | 3.09   | 3.07  | 3.12   | 3.14   | 3.1    |      |
| IPLV                       |                                    |                | 4.83     | 5      | 4.82            | 4.65   | 4.74   | 4.67   | 4.72   | 4.6    | 4.69   | 4.78   | 4.86   | 4.77   | 4.79   | 4.38   | 4.7    | 4.8    | 4.9    | 4.8   | 4.79   | 4.82   | 4.77   |      |
| EER + VFDFAN               |                                    |                |          |        |                 | -      | 3.13   | -      | 3.05   | 3.02   | 3.19   | 3.11   | 3.19   | 3.12   | 3.05   | 3.11   | 3.05   | 3.1    | 3.08   | 3.07  | 3.11   | 3.13   | 3.09   |      |
| IPLV + VFDFAN              |                                    |                |          |        |                 | -      | 5.11   | -      | 4.87   | 4.97   | 5      | 5.02   | 5.14   | 4.95   | 4.93   | 4.97   | 4.96   | 4.95   | 4.92   | 4.71  | 5.05   | 5.08   | 5.12   | 5.1  |
| Dimensions                 | Unit                               | Height         | mm       | 1,801  | 1,822           | 1,822  |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            |                                    | Width          | mm       | 1,204  | 2,236           | 1,204  |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            |                                    | Depth          | mm       | 2,660  | 3,180           | 3,780  | 2,326  | 3,780  | 2,326  |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
| Weight (XSB)               | Unit                               | kg             | 737      | 830    | 949             | 1,633  | 1,066  | 1,663  | 1,699  | 2,082  | 1,987  | 2,128  | 2,226  | 2,159  | 2,196  | 2,639  | 2,698  | 2,785  | 3,228  | 3,448 | 3,900  | 4,294  | 4,436  |      |
|                            | Operation weight                   | kg             | 742      | 836    | 958             | 1,644  | 1,078  | 1,674  | 1,710  | 2,098  | 2,001  | 2,147  | 2,246  | 2,178  | 2,215  | 2,659  | 2,718  | 2,813  | 3,256  | 3,490 | 3,942  | 4,344  | 4,486  |      |
| Weight (XLB)               | Unit                               | kg             | 747      | 840    | 959             | 1,736  | 1,076  | 1,766  | 1,802  | 2,082  | 2,090  | 2,231  | 2,318  | 2,262  | 2,299  | 2,731  | 2,801  | 2,888  | 3,393  | 4,106 | 4,500  | 4,642  |        |      |
|                            | Operation weight                   | kg             | 752      | 846    | 968             | 1,747  | 1,088  | 1,777  | 1,813  | 2,098  | 2,104  | 2,250  | 2,338  | 2,281  | 2,318  | 2,751  | 2,821  | 2,916  | 3,421  | 4,148 | 4,550  | 4,692  |        |      |
| Water heat exchanger       | Type                               |                |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            | Water volume                       | l              | 5        | 6      | 9               | 11     | 12     | 11     | 16     | 14     | 19     | 20     | 19     |        |        |        |        |        |        |       |        |        |        |      |
|                            | Water flow rate                    | Cooling Nom.   | l/s      | 4.2    | 5.4             | 6.9    | 8.6    | 8.7    | 9.6    | 10.8   | 11.4   | 12.2   | 13.4   | 14.5   | 14.6   | 15.6   | 16.8   | 17.7   | 20.3   | 22.5  | 25.7   | 29.1   | 31.6   | 33.6 |
|                            | Water pressure drop                | Cooling Nom.   | kPa      | 31.6   | 37.3            | 31     | 40.7   | 45.1   | 50.1   | 43.7   | 49.2   | 54.2   | 39.8   | 62.2   | 46.1   | 51.9   | 80.6   | 65.7   | 56.6   | 68.5  | 59.7   | 74.6   | 70.2   | 78.5 |
| Air heat exchanger         | Type                               |                |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
| Compressor                 | Type                               |                |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
| Fan                        | Type                               |                |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            | Quantity                           |                | 6        | 8      | 10              | 4      | 10     | 4      | 4      | 5      |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            | Air flow rate Nom.                 | l/s            | 9,036    | 12,023 | 15,057          | 20,306 | 15,057 | 20,306 | 25,382 |        |        | 30,459 |        |        |        |        |        |        |        |       |        |        |        |      |
|                            | Speed                              | rpm            | 1,360    | 900    | 1,360           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
| Sound power level (XSB)    | Cooling Nom.                       | dBA            | 86       | 88.8   | 90.5            | 91.2   | 92.1   | 92     | 92.7   | 94.8   | 93.8   | 94.6   | 95.6   | 95     | 95.4   | 96.4   | 96.2   | 96.9   | 97.6   | 98    | 98.6   | 99     | 99.4   |      |
| Sound power level (XLB)    | Cooling Nom.                       | dBA            | 85.2     | 87.1   | 88.5            | 90.6   | 89.3   | 90.6   | 90.7   | 91.8   | 91.7   | 92.5   | 92.6   | 92.5   | 92.6   | 93.3   | 93.2   | 93.8   | 94.4   |       | 95.6   | 95.9   | 96.3   |      |
| Sound pressure level (XSB) | Cooling Nom.                       | dBA            | 68.3     | 70.8   | 72.2            | 72.3   | 73.7   | 73.1   | 73.7   | 75.3   | 74.3   | 75.1   | 76.1   | 75.5   | 75.9   | 76.4   | 76.3   | 77     | 77.2   | 77.6  | 77.8   | 77.9   | 78.3   |      |
| Sound pressure level (XLB) | Cooling Nom.                       | dBA            | 67.5     | 69.1   | 70.1            | 71.6   | 70.9   | 71.7   | 72.3   | 72.2   | 73     | 73.1   | 73     | 73.1   | 73     | 73.3   | 73.9   | 74     |        | 74.8  |        |        | 75.2   |      |
| Refrigerant                | Type/GWP                           |                |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            |                                    |                | R-32/675 |        | R-32/- R-32/675 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            | Charge                             | kg             | 9        | 10     | 11              | 20     | 12     | 20     | 23.5   | 24     | 27.5   | 28     | 27.5   | 32     | 31     | 36     | 43.5   | 49     | 55     | 60    | 66     |        |        |      |
|                            | Circuits                           | Quantity       |          | 1      | 2               | 1      | 2      | 1      | 2      | 1      | 2      | 1      | 2      | 1      |        |        |        |        |        |       |        |        | 2      |      |
| Piping connections         | Evaporator water inlet/outlet (OD) |                |          | 76.1   | 88.9            | 76.1   | 88.9   | 76.1   | 88.9   | 76.1   | 88.9   | 76.1   | 88.9   | 76.1   | 88.9   |        |        |        |        |       |        |        | 114.3  |      |
| Unit                       | Starting current                   | Max            | A        | 215    | 315             | 328    | 290    | 464    | 388    | 399    | 506    | 414    | 543    | 554    | 564    | 592    | 602    | 640    | 678    | 727   | 779    | 817    | 855    |      |
|                            | Running current                    | Cooling Nom.   | A        | 56     | 67              | 78     | 110    | 108    | 122    | 135    | 128    | 145    | 158    | 168    | 170    | 183    | 192    | 208    | 234    | 259   | 298    | 334    | 360    | 387  |
|                            | Max                                | A              | 75       | 87     | 100             | 149    | 134    | 160    | 171    | 176    | 186    | 213    | 224    | 235    | 262    | 273    | 311    | 348    | 397    | 449   | 487    | 525    |        |      |
| Power supply               | Phase/Frequency                    | Hz             |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            |                                    |                |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            |                                    |                |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |
|                            |                                    |                |          |        |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |      |

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| Cooling Only         |                                    |          | EWAT-B-XRB | 085   | 115    | 145    | 180    | 185    | 200    | 220    | 230    | 250    | 280    | 300    | 310    | 320    | 360               | 370          | 430    | 470    | 540    | 600    | 660    | 700    |        |
|----------------------|------------------------------------|----------|------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------------|--------|--------|--------|--------|--------|--------|--------|
| Space cooling        | A Condition 35°C                   | Pdc      |            | kW    | 81.86  | 108.59 | 135.62 | 168.03 | 166.16 | 187.56 | 208.44 | 224.52 | 238.22 | 264.73 | 284.94 | 284.65 | 301.84            | 328.88       | 346.48 | 394.41 | 439.5  | 501.51 | 571.63 | 621.1  | 659.28 |
|                      | ηs,c                               |          | %          |       | 213.28 | 179.4  | 166.6  | 177    | 164.6  | 186.6  | 179    | 169    | 177    | 186.6  | 185.8  | 183    | 173.8             | 180.6        | 176.2  | 181.8  | 179    | 183    | 187.4  | 185.4  |        |
| SEER                 |                                    |          |            |       | 4.13   | 4.56   | 4.24   | 4.5    | 4.19   | 4.74   | 4.55   | 4.3    | 4.5    | 4.74   | 4.72   | 4.65   | 4.42              | 4.59         | 4.48   | 4.62   | 4.55   | 4.65   | 4.76   | 4.71   |        |
| Cooling capacity     | Nom.                               |          | kW         | 82    | 109    | 136    | 168    | 166    | 188    | 208    | 225    | 238    | 265    | 285    | 302    | 329    | 346               | 394          | 440    | 502    | 572    | 621    | 659    |        |        |
| Power input          | Cooling                            | Nom.     | kW         | 30.8  | 38.9   | 46.9   | 59.1   | 70.5   | 69.8   | 80.7   | 79.2   | 87.3   | 92.2   | 105    | 103    | 115    | 121               | 130          | 147    | 163    | 190    | 207    | 224    | 242    |        |
| Capacity control     | Method                             |          |            |       |        |        |        |        |        |        |        |        |        |        |        |        |                   |              |        |        |        |        |        |        |        |
|                      | Minimum capacity                   |          | %          |       | 50     | 38     | 50     | 25     | 38     | 21     | 19     | 50     | 17     | 16     | 24     | 14     | 22                | 33           | 19     | 17     | 25     | 14     | 12     | 11     | 17     |
| EER                  |                                    |          |            |       | 2.66   | 2.79   | 2.89   | 2.84   | 2.36   | 2.69   | 2.58   | 2.84   | 2.73   | 2.87   | 2.72   | 2.76   | 2.63              | 2.71         | 2.67   | 2.69   | 2.64   | 2.76   | 2.77   | 2.72   |        |
| IPLV                 |                                    |          |            |       | 4.74   | 5.1    | 4.76   | 5.04   | 4.72   | 5.05   | 4.97   | 4.86   | 4.91   | 5.08   | 4.78   | 4.94   | 4.62              | 5.04         | 4.95   | 4.88   | 4.72   | 4.96   | 5.04   | 5.07   | 5.08   |
| Dimensions           | Unit                               | Height   | mm         |       | 1,801  | 1,822  | 2,540  | 1,822  |        |        |        |        |        |        |        |        |                   | 2,540        |        |        |        |        |        |        |        |
|                      | Width                              | mm       |            |       | 1,204  |        | 2,236  | 1,204  |        |        |        |        |        |        |        |        |                   |              | 2,236  |        |        |        |        |        |        |
|                      | Depth                              | mm       |            |       | 2,660  | 3,180  | 3,780  | 2,326  | 3,780  | 2,326  |        |        |        |        |        |        |                   |              |        | 4,126  |        | 5,025  | 5,874  | 6,774  |        |
| Weight               | Unit                               | kg       |            |       | 747    | 840    | 959    | 1,736  | 1,076  | 1,766  | 1,802  | 2,082  | 2,090  | 2,231  | 2,318  | 2,262  | 2,299             | 2,731        | 2,801  | 2,888  | 3,393  | 3,633  | 4,106  | 4,500  | 4,642  |
|                      | Operation weight                   | kg       |            |       | 752    | 846    | 968    | 1,747  | 1,088  | 1,777  | 1,813  | 2,098  | 2,104  | 2,250  | 2,338  | 2,281  | 2,318             | 2,751        | 2,821  | 2,916  | 3,421  | 3,675  | 4,148  | 4,550  | 4,692  |
| Water heat exchanger | Type                               |          |            |       |        |        |        |        |        |        |        |        |        |        |        |        |                   | Brazed plate |        |        |        |        |        |        |        |
|                      | Water volume                       | l        | 5          | 6     | 9      | 11     | 12     | 11     | 16     | 14     | 19     | 20     | 19     | 20     | 20     | 28     | 42                | 50           |        |        |        |        |        |        |        |
|                      | Water flow rate                    | Cooling  | Nom.       | l/s   | 3.9    | 5.2    | 6.5    | 8      | 7.9    | 9      | 10     | 10.7   | 11.4   | 12.6   | 13.6   | 14.4   | 15.7              | 16.5         | 18.8   | 21     | 23.9   | 27.3   | 29.6   | 31.5   |        |
|                      | Water pressure drop                | Cooling  | Nom.       | kPa   | 27.8   | 34.2   | 28     | 36.3   | 38     | 44.2   | 37.7   | 44     | 48.2   | 35.6   | 55.1   | 40.6   | 45.1              | 71.4         | 57.9   | 49.5   | 60.2   | 52.5   | 66.5   | 62.6   | 69.7   |
| Air heat exchanger   | Type                               |          |            |       |        |        |        |        |        |        |        |        |        |        |        |        | Microchannel      |              |        |        |        |        |        |        |        |
| Compressor           | Type                               |          |            |       |        |        |        |        |        |        |        |        |        |        |        |        | Scroll compressor |              |        |        |        |        |        |        |        |
|                      | Quantity                           |          |            |       |        |        |        |        | 2      | 4      | 2      | 4      | 2      | 4      | 3      | 4      | 3                 | 4            | 5      | 6      |        |        |        |        |        |
| Fan                  | Type                               |          |            |       |        |        |        |        |        |        |        |        |        |        |        |        | Direct propeller  |              |        |        |        |        |        |        |        |
|                      | Quantity                           |          |            |       |        |        |        |        | 6      | 8      | 10     | 4      | 10     | 4      | 5      | 6      | 7                 | 8            | 9      | 10     | 12     | 13     | 14     |        |        |
|                      | Air flow rate Nom.                 | l/s      | 6,673      | 8,896 | 11,122 | 15,054 | 11,122 | 15,054 | 18,819 | 18,818 |        |        |        |        |        |        |                   | 26,346       | 30,110 | 33,874 | 37,637 | 45,164 | 48,928 | 52,692 |        |
|                      | Speed                              | rpm      |            | 1,108 |        | 700    | 1,108  |        |        |        |        |        |        |        |        |        | 700               |              |        |        |        |        |        |        |        |
| Sound power level    | Cooling                            | Nom.     | dBA        | 77.9  | 81.9   | 84     | 84.2   | 86     | 84.5   | 84.8   | 86.2   | 85.8   | 86.6   | 87     | 86.7   | 86.9   | 87.7              | 87.6         | 88.3   | 88.9   | 89.3   | 90     | 90.4   | 90.7   |        |
| Sound pressure level | Cooling                            | Nom.     | dBA        | 60.2  | 63.9   | 65.6   | 65.3   | 67.7   | 65.5   | 65.8   | 66.7   | 66.3   | 67.1   | 67.5   | 67.2   | 67.4   | 67.8              | 67.7         | 68.3   | 68.5   | 68.9   | 69.2   | 69.3   | 69.6   |        |
| Refrigerant          | Type/GWP                           |          |            |       |        |        |        |        |        |        |        |        |        |        |        |        | R-32/675          |              |        |        |        |        |        |        |        |
|                      | Charge                             | kg       | 9          | 10    | 11     | 12     | 20     |        | 23.5   | 24     | 27.5   | 28     | 27.5   | 32     | 31     | 36     | 43.5              | 49           | 55     | 60     | 66     |        |        |        |        |
|                      | Circuits                           | Quantity |            |       |        |        | 1      | 2      | 1      | 2      | 1      | 2      | 1      | 2      | 1      | 2      | 1                 | 2            |        |        |        |        |        |        |        |
| Piping connections   | Evaporator water inlet/outlet (OD) |          |            |       |        |        | 76.1   |        | 88.9   | 76.1   | 88.9   | 76.1   | 88.9   | 76.1   | 88.9   | 76.1   | 88.9              | 114.3        |        |        |        |        |        |        |        |
| Unit                 | Starting current                   | Max      | A          | 215   | 315    | 328    | 290    | 464    | 388    | 399    | 506    | 414    | 543    | 554    | 564    | 592    | 602               | 640          | 678    | 727    | 779    | 817    | 855    |        |        |
|                      | Running current                    | Cooling  | Nom.       | A     | 59     | 71     | 83     | 113    | 118    | 128    | 143    | 134    | 151    | 164    | 177    | 179    | 194               | 204          | 221    | 250    | 276    | 319    | 352    | 381    | 410    |
|                      |                                    | Max      | A          | 75    | 87     | 100    | 149    | 134    | 160    | 171    | 176    | 186    | 213    | 224    | 235    | 262    | 273               | 311          | 348    | 397    | 449    | 487    | 525    |        |        |
| Power supply         | Phase/Frequency                    | Hz       |            |       |        |        |        |        |        |        |        |        |        |        |        |        | 3~/50             |              |        |        |        |        |        |        |        |



EWAT-B installation at CERN - European Organization for Nuclear Research

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