

# eChiller45IC with InterCooler Technology

## Clean Cooling with Water (R718) as Refrigerant

**EN378**  
does not  
apply



F-gas free

100% Water

0% GWP

**Cooling capacity  
up to 40 kW**

**NEW ! cooling water inlet  
temperature up to 55°C**

**Blue<sup>zero</sup>® inside**

Dimensions and weight

**Dimensions:** 1.550 mm x  
800 mm x 1.950 mm  
**Operating weight:** 850 kg

## Key Benefits eChillerIC Series



### Future-proof

- 0 % direct CO<sub>2</sub> emissions
- Clean, safe, economical
- No refrigeration regulations

### Profitability

- Refrigerant at low cost
- Eligible for several State Funding Programs for natural refrigerants due to overachievement of efficiency requirements

### Energy Efficiency

- Additional energy-saving potential due to enhanced FreeCooling operation
- Stepless partial load control
- No starting currents
- Energy-optimized re-cooling system control

### Operational Safety

- Low maintenance effort
- Unrestricted, frost-free installation site
- Operating for cooling water inlet temperature up to 55°C

## eChiller45IC

### Features

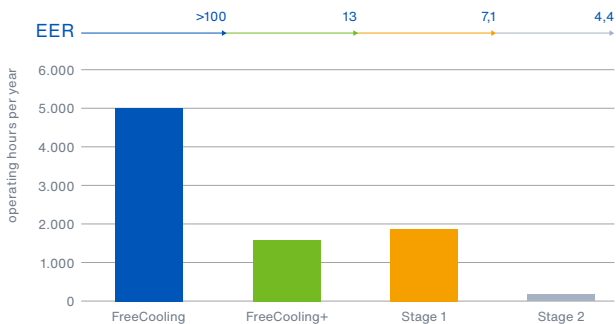
- Cooling capacity: 24 kW to 40 kW
- Water cooled chillers
- No-load regulation
- Main-/Assist-control up to 10 units
- Optional packages:
  - By-pass for partial loading
  - FreeCooling module
  - Condensation

### Areas of application

- Machine cooling
- Industrial processes
- IT / Data Centres
- Air conditioning in buildings

## Efficiency Values EER\*

eChiller45IC in the course of a year –  
Cooling water set point 18°C in Munich



\* preliminary data

Conditions: 8760 h/a 100% load, dry cooler gradeness 4 K, climate data DWD Munich 2017-2019, electrical power consumption without dry cooler and pumps.

## Operating Modes

Ambient Temperature*	Operating Mode	Chilled water production
24°C - 50°C	Stage 2	Operation with two compressors
17°C - 23°C	Stage 1	Operation with one compressor
13°C - 16°C	FreeCooling+	Operation with precooling and one compressor
12°C - <-20°C	FreeCooling	Pure free cooling mode

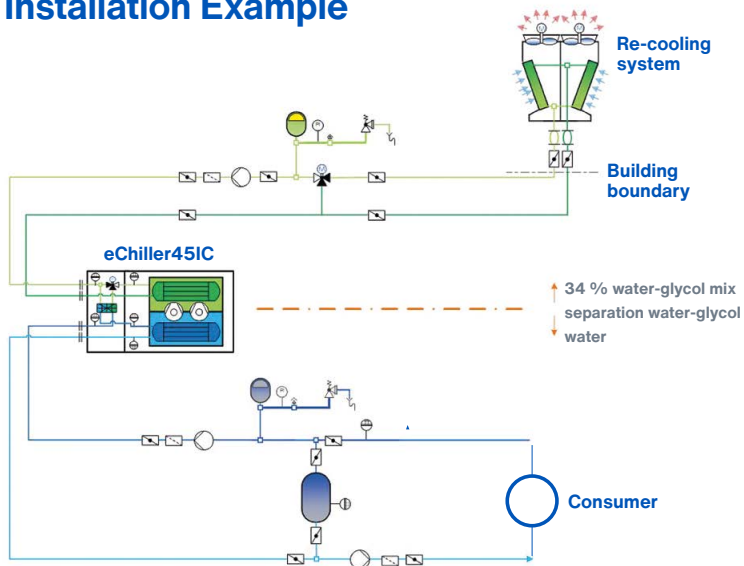
\* With a re-cooler gradeness of 5K.

The eChiller45IC has four operating modes. Depending on the chilled water inlet temperature, the machine works either with one or two compressors, in mixed free cooling mode or runs entirely in free cooling mode.

## Cooling Capacities

<b>Nominal capacity</b>	24 kW	31 kW	35kW	40 kW
<b>Chilled water outlet / inlet</b>	12 °C / 18 °C	16 °C / 22 °C	18 °C / 24 °C	20 °C / 26 °C
<b>Cold water inlet / outlet, max.</b>	51 °C / 56 °C	55 °C / 60 °C	55 °C / 60 °C	55 °C / 60 °C

## Installation Example



Find out more about the enhanced Blue-zero technology with InterCooler concept