

EPSILON Zero



## EPSILON Zero

Reversible or only heating heat pumps with inverter compressor  
**14÷45 kW**

**BlueBox**   
by Swegon

# EPSILON Zero

Powering Comfort in shared and private spaces

## Ready for Multi-Family Housing

Allows easier  
**replacement of boilers**  
thanks to its envelope and  
flexibility on water side

**Minimized safety area**

**Compliant**  
to residential requirements  
for harmonic currents and EMC emission

## Optimized for Light Commercial applications

**Compact footprint**  
(1,35 m<sup>2</sup> for 45 kW size)

**Reduced sound pressure level**  
always lower than 50 dB(A)  
at 10 meters at maximum load

**Integrable with AHU systems**



# CLIMATE CHANGE FIGHT

# EUROPEAN CLIMATE STRATEGY IS GOING TO BE UPDATED AND REINFORCED

## TARGET

Reduction of **55%** Greenhouse Gas emission by **2030**

Increased **renewable energy** (above **32%**) by **2030**

**Net-zero** Greenhouse Gas Emission by **2050**

## HOW?

**F-gas** regulation Regulation

**Renewable** Energy Directive

European Performance of Buildings Directive (**EPBD**)

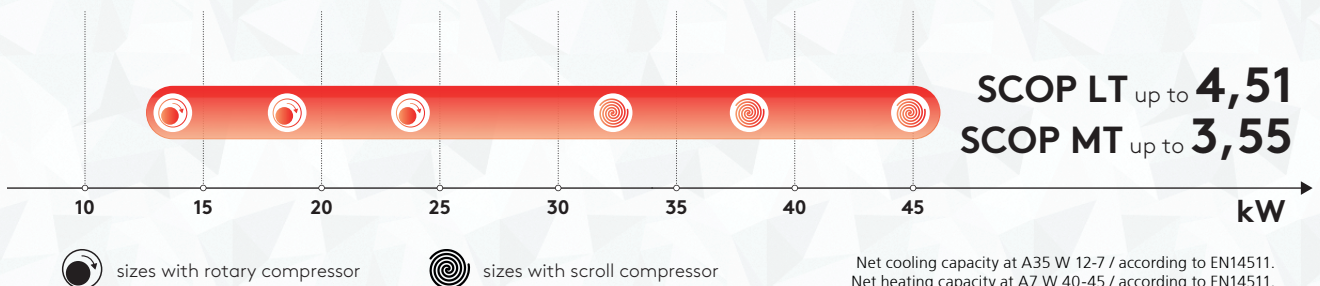
Ecodesign **ERP** Directive



Keep temperature increase below **1.5°C**

Become a climate neutral economy

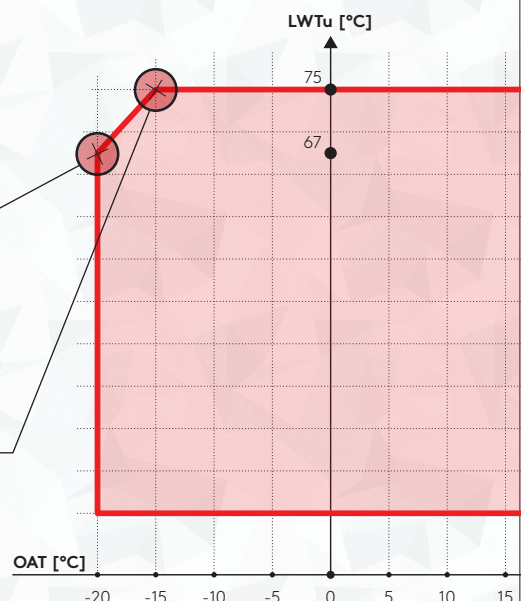
# CAPACITY/EFFICIENCY



# FIT FOR RETROFIT

suitable for any climate condition  
up to **67°C @ -20°C**

ideal for heating and hot water production  
up to **75°C @ -15°C**



SURFING THE  
**RENOVATION  
WAVE**

## R290 REFRIGERANT

Derived from nature  
Minimized charge  
(less than 60g/kW)

## FULL INVERTER

Compressors driven by inverter  
EC Fans

## WATER SIDE PROTECTION

Integrated air-refrigerant  
separator and water  
safety valve for  
conformity to  
EN60335-2-40

Integrated flow meter for  
continuous monitoring of  
flow rate

## INSTALLATION FLEXIBILITY

Only heating version  
available to  
support large user  $\Delta T$   
requirement

Multiple hydraulic kits  
(with standard  
or oversized pump  
and with or  
without tank)

# DERIVED FROM NATURE DESIGNED FOR HEATING



# CONTROL LOGIC MAIN FEATURES



Modulation of water temperature according to real time load to reduce energy consumption up to 15%



## MULTILOGIC

Ready for cascade system, no need of external hardware



## FLOWZER

Inverter-driven pumps control management for different system layouts



## DHW

## OPTIMIZATION

### DEDICATED NEW ALGORITHMS FOR DOMESTIC HOT WATER PRODUCTION

Multilogic DHW for production of domestic hot water with master-slave configuration

Dedicated water flow rate setting to optimize heat exchange on DHW coil

Anti legionella treatment through heat pump without external heater activation

EPSILON Zero  
(heat pump)

GOLD  
(air handling unit)

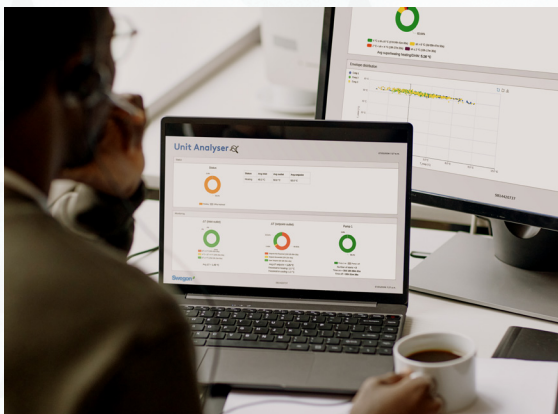


## SYSTEM INTEGRATION

### SMART Link+ FOR WATER COILS

# Swegon INSIDE

Our digital services are gathered under the name of Swegon INSIDE. These services allow different target groups to monitor, control and visualise compatible units in an HVAC solution, as well as the indoor climate inside a building.



## Unit Analyser

### ANALYSE YOUR HEAT PUMP AT A GLANCE

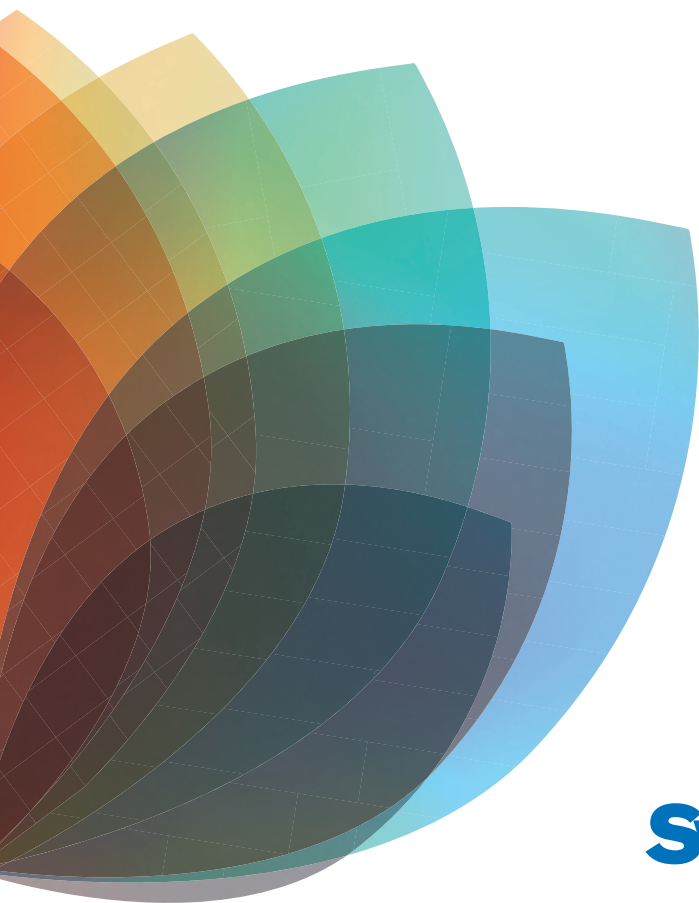
Simple and intuitive KPIs dashboards for in-depth data analysis of BlueBox units

Fine-tuning and optimization tools

Alarms log monitoring and history

Automated generation of recurrent reports about performance and energy consumption

Feel good **inside**



**Swegon** 