# PRODUCT FICHE

## Heat Pump EcoAir 406 + EcoZenith

The energy efficiency of the package of products provided for in fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

| | | | |
|---|---|---|---|
| I | the value of the seasonal space heating energy efficiency of the preferential space heater | **106** | % |
| II | the factor for weighting the heat output of preferential and supplementary heaters of a package | **-** | |
| III | the value of the mathematical expression $294/(11 \cdot P_{rated})$ | **5,35** | |
| IV | the value of the mathematical expression $115/(11 \cdot P_{rated})$ | **2,09** | |
| V | the value of the difference between the seasonal space heating energy efficiencies under average and colder climate conditions | **11** | % |
| VI | the value of the difference between the seasonal space heating energy efficiencies under warmer and average climate conditions | **25** | % |

**Seasonal space heating energy efficiency of heat pump** I = 1 **106** %

**Temperature control**

(From fiche of temperature control)

Class I = 1 %, Class II = 2%, Class III = 1,5 %, Class IV = 2 %, Class V = 3%, Class VI = 4 %, Class VII = 3,5 %, Class VIII = 5%

\+ 2 **3,5** %

**Supplementary boiler**

(From fiche of boiler)

Seasonal space heating energy efficiency (in %)

( [ - ] - I) × II = - 3 **-** %

**Solar contribution**

(From fiche of solar device)

| Collector size (in $m^2$) | Tank volume (in $m^3$) | Collector efficiency (in %) | Tank rating $A^+$ = 0,95, A = 0,91, B = 0,86, C = 0,83, D-G = 0,81 |
|---|---|---|---|

( III × [ - ] + IV × [ - ] ) × 0,45 × ( [ - ] /100) × [ - ] = + 4 **-** %

**Seasonal space heating energy efficiency of package under average climate** 5 1**10** %

**Seasonal space heating energy efficiency class of package under average climate**

| G | F | E | D | C | B | A | $A^+$ | $A^{++}$ | $A^{+++}$ |
|---|---|---|---|---|---|---|---|---|---|
| ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☒ | ☐ | ☐ |
| < 30 % | ≥ 30 % | ≥ 34 % | ≥ 36 % | ≥ 75 % | ≥ 82 % | ≥ 90 % | ≥ 98 % | ≥ 125 % | ≥ 150 % |

**Seasonal space heating energy efficiency under colder and warmer climate conditions**

**Colder:** 5 **110** - V = **99** %

**Warmer:** 5 **110** + VI = **135** %

REGULUS spol. s r.o., Czech Republic
Do Koutů 1897/3, 143 00 Praha 4
Tel.: +420 241 765 191
Fax: +420 241 763 976
E-mail: sales@regulus.eu
Web: www.regulus.eu

Regulus

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## Heat Pump **EcoAir 406 + EcoZenith**

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| | | | |
|---|---|---|---|
| I | Water heating energy efficiency of combination heater | **59** | % |
| II | the value of the mathematical expression $(220 \times Q_{ref})/Q_{nonsol}$ | - | |
| III | the value of the mathematical expression $(Q_{aux} \times 2,5)/(220 \times Q_{ref})$ | - | % |

**Water heating energy efficiency of combination heater** I = 1 **59** %

**Declared load profile** L

Solar contribution
(From fiche of solar device)

Auxiliary electricity

( 1,1 × I - 10 % ) × II - III - I = + 2 - %

**Water heating energy efficiency of package under average climate** 3 **59** %

**Water heating energy efficiency class of package under average climate**

| | G | F | E | D | C | B | A | A+ | A++ | A+++ |
|---|---|---|---|---|---|---|---|---|---|---|
| ☐ | M | < 27 % | ≥ 27 % | ≥ 30 % | ≥ 33 % | ≥ 36 % | ≥ 39 % | ≥ 65 % | ≥ 100 % | ≥ 130 % | ≥ 163 % |
| ☒ | L | < 27 % | ≥ 27 % | ≥ 30 % | ≥ 34 % | ≥ 37 % | ≥ 50 % | ≥ 75 % | ≥ 115 % | ≥ 150 % | ≥ 188 % |
| ☐ | XL | < 27 % | ≥ 27 % | ≥ 30 % | ≥ 35 % | ≥ 38 % | ≥ 55 % | ≥ 80 % | ≥ 123 % | ≥ 160 % | ≥ 200 % |
| ☐ | XXL | < 28 % | ≥ 28 % | ≥ 32 % | ≥ 36 % | ≥ 40 % | ≥ 60 % | ≥ 85 % | ≥ 131 % | ≥ 170 % | ≥ 213 % |

**Water heating energy efficiency of package under colder and warmer climate conditions**

**Colder:** 3 **59** - 0,2 × 2 - = - %

**Warmer:** 3 **59** + 0,4 × 2 - = - %

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