

Templari heat pumps full load and variable load performance data with external air temperature as in columns A, B, C and D in compliance with UNI/TS 11300-4 law

| Heat Pump air/water KITA Mi Plus | | | | | | |
|----------------------------------|------------------|------|------------------|------|------------------|------|
| Full load performance | | | | | | |
| T (C°) water temp. | 35 | | 45 | | 55 | |
| T (C°) out temp. | Heat output [kW] | COP | Heat output [kW] | COP | Heat output [kW] | COP |
| -20 | 11,3 | 2,27 | 11,1 | 2,00 | 11,0 | 1,68 |
| -15 | 12,4 | 2,42 | 12,2 | 2,18 | 12,1 | 1,90 |
| -10 | 13,8 | 2,75 | 13,6 | 2,48 | 13,4 | 2,04 |
| -7 | 14,6 | 2,85 | 14,5 | 2,55 | 14,2 | 2,12 |
| 2 | 17,5 | 3,60 | 17,4 | 3,00 | 17,1 | 2,30 |
| 7 | 20,2 | 4,05 | 18,0 | 3,02 | 18,0 | 2,70 |
| 12 | 20,5 | 4,87 | 18,2 | 3,81 | 18,2 | 2,93 |

| Heat Pump air/water KITA Mi Plus | | | | |
|----------------------------------|------|------|------|------|
| Correction Factor calculation | A | B | C | D |
| Out temp. [°C] | -7 | 2 | 7 | 12 |
| PLR | 88% | 54% | 35% | 15% |
| Heat output [kW] | 14,6 | 17,5 | 20,2 | 20,5 |
| CR | 1,00 | 0,51 | 0,29 | 0,12 |
| COP (full load performance) | 2,85 | 3,60 | 4,05 | 4,87 |
| COP (partial load performance) | 2,85 | 5,22 | 5,87 | 6,07 |
| fcop | 1,00 | 1,45 | 1,45 | 1,25 |

$T_{design} = -10^{\circ}C$

$T_{H2O, out} = 35^{\circ}C$

SCOP [Average_low temp] 4,71