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 HR 14 Cold | | | | | | |
|---|---|---|---|---|---|---|
| **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 | 11,8 | 2,52 | 11,6 | 2,00 | 11,5 | 1,52 |
| -15 | 13,3 | 2,70 | 13,2 | 2,11 | 12,8 | 1,75 |
| -10 | 13,7 | 2,79 | 13,7 | 2,44 | 13,5 | 1,91 |
| -7 | 14,0 | 2,85 | 14,0 | 2,51 | 14,0 | 2,01 |
| 2 | 14,0 | 3,78 | 14,0 | 3,08 | 14,0 | 2,49 |
| 7 | 14,3 | 4,44 | 14,0 | 3,75 | 14,0 | 2,78 |
| 12 | 14,55 | 5,30 | 14,0 | 4,32 | 14,0 | 3,32 |

| Heat Pump air/water KITA HR 14 Cold | | | | |
|---|---|---|---|---|
| **Correction Factor calculation** | **A** | **B** | **C** | **D** |
| Out temp. [°C] | -7 | 2 | 7 | 12 |
| PLR | 88% | 54% | 35% | 15% |
| Heat output [kW] | 14 | 14 | 14,3 | 14,55 |
| CR | 1,00 | 0,61 | 0,39 | 0,17 |
| COP (full load performance) | 2,85 | 3,78 | 4,44 | 5,3 |
| COP (partial load performance) | 2,85 | 4,54 | 5,47 | 5,94 |
| fcop | 1,00 | 1,20 | 1,23 | 1,12 |

$T_{design}$ = -10°C
$T_{H20,\ out}$ = 35°C
SCOP [Average_low temp] 4,79

via Pitagora, 20/A
35030 Rubano (PD) - Italy
Tel. +39 049 8597400
info@templari.com - www.templari.com

C.F e P.IVA 04128520287
Capitale Sociale i.v. €500.000,00
Reg. Imp. di Padova N. 04128520287
R.E.A. 363262