

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 Si 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	5,71	2,43	5,64	1,95	5,55	1,65
-15	6,60	2,64	6,40	2,26	6,31	1,85
-10	7,51	3,06	7,27	2,60	7,17	2,05
-7	8,05	3,31	7,80	2,67	7,68	2,16
2	10,10	4,00	9,54	3,02	9,06	2,39
7	12,48	4,29	10,59	3,30	10,13	2,58
12	12,57	5,05	11,57	3,69	11,02	2,88

Heat Pump air/water KITA Si Plus				
Correction Factor calculation	A	B	C	D
Out temp. [°C]	-7	2	7	12
PLR	88%	54%	35%	15%
Heat output [kW]	8,05	10,1	12,48	12,57
CR	1,00	0,49	0,26	0,11
COP (full load performance)	3,31	4,00	4,29	5,05
COP (partial load performance)	2,97	4,31	5,32	6,14
fcop	0,90	1,08	1,24	1,22

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

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

SCOP [Average\_low temp] 4,72