

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 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	8,2	2,20	7,93	1,85	7,62	1,57
-15	9,3	2,38	9,20	2,00	9,10	1,77
-10	9,7	2,70	9,68	2,37	9,66	1,88
-7	10,0	2,98	9,95	2,45	9,90	1,95
2	10,0	4,03	10,0	2,97	10,0	2,35
7	10,0	4,49	10,0	3,51	10,0	2,68
12	10,0	5,49	10,0	3,89	10,0	2,96

Heat Pump air/water KITA Si Cold				
Correction Factor calculation	A	B	C	D
Out temp. [°C]	-7	2	7	12
PLR	88%	54%	35%	15%
Heat output [kW]	10,00	10,00	10,00	10,00
CR	1,00	0,61	0,40	0,17
COP (full load performance)	3,14	4,03	4,49	5,49
COP (partial load performance)	3,14	4,46	4,87	6,14
fcop	1,00	1,11	1,08	1,12

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

$T_{H20, out} = 35^{\circ}C$

SCOP [Average_low temp] 4,74