

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 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	12,00	2,07	11,10	1,77	10,70	1,59
-15	12,00	2,42	11,50	2,01	11,10	1,75
-10	12,00	2,90	11,81	2,56	11,67	2,00
-7	12,00	3,02	11,95	2,68	11,90	2,13
2	12,00	4,25	12,10	3,24	12,20	2,53
7	12,00	4,46	12,10	3,65	12,00	2,72
12	12,00	5,68	12,00	4,07	12,00	3,05

Heat Pump air/water KITA Si Plus Cold				
Correction Factor calculation	A	B	C	D
Out temp. [°C]	-7	2	7	12
PLR	88%	54%	35%	15%
Heat output [kW]	12	12	12	12
CR	1,00	0,61	0,40	0,17
COP (full load performance)	3,39	4,25	4,46	5,68
COP (partial load performance)	3,39	4,50	5,40	6,20
fcop	1,00	1,06	1,21	1,09

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

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

SCOP [Average_low temp] 4,82