

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 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	14,00	2,14	13,00	1,88	13,00	1,62
-15	16,00	2,35	14,50	2,00	14,50	1,74
-10	17,20	2,60	16,70	2,26	16,70	1,90
-7	18,00	2,75	17,80	2,32	17,60	2,00
2	18,00	3,55	18,00	2,95	18,00	2,25
7	18,00	4,57	18,00	3,21	18,00	3,05
12	18,00	5,27	18,00	4,14	18,00	3,39

Heat Pump air/water KITA Mi Plus Cold				
Correction Factor calculation	A	B	C	D
Out temp. [°C]	-7	2	7	12
PLR	88%	54%	35%	15%
Heat output [kW]	18	18	18	18
CR	1,00	0,61	0,40	0,17
COP (full load performance)	2,75	3,55	4,57	5,27
COP (partial load performance)	2,75	4,54	5,47	5,94
fcop	1,00	1,28	1,20	1,13

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

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

SCOP [Average_low temp] 4,68