

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 L 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	30,20	2,25	30,00	1,90	29,70	1,57
-15	34,20	2,43	34,00	2,10	33,80	1,68
-10	34,70	2,66	34,60	2,32	34,60	1,78
-7	35,00	2,80	34,95	2,37	34,90	1,84
2	35,00	3,67	35,00	3,04	35,00	2,70
7	35,00	4,37	35,00	3,47	35,00	2,78
12	35,00	4,70	35,00	3,60	35,00	3,10

Heat Pump air/water KITA L Cold				
Correction Factor calculation	A	B	C	D
Out temp. [°C]	-7	2	7	12
PLR	88%	54%	35%	15%
Heat output [kW]	35	35	35	35
CR	1,00	0,61	0,40	0,17
COP (full load performance)	2,8	3,67	4,37	4,7
COP (partial load performance)	2,8	4,26	5,15	5,4
fcop	1,00	1,16	1,18	1,15

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

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

SCOP [Average_low temp] 4,34