

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 L42						
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	15,50	2,27	14,60	1,95	13,80	1,61
-15	19,25	2,42	18,50	2,13	17,70	1,78
-10	21,38	2,64	21,18	2,35	20,97	2,00
-7	23,86	2,89	22,50	2,48	21,80	2,06
2	29,88	3,56	29,10	3,11	28,80	2,69
7	31,90	4,14	31,40	3,41	30,30	2,75
12	33,50	4,33	33,10	3,59	32,40	2,91

Heat Pump air/water KITA L42				
Correction Factor calculation	A	B	C	D
Out temp. [°C]	-7	2	7	12
PLR	88%	54%	35%	15%
Heat output [kW]	23,86	29,88	31,9	33,5
CR	1,00	0,49	0,30	0,12
COP (full load performance)	2,96	3,56	4,14	4,33
COP (partial load performance)	2,96	4,2	4,89	5,2
fcop	1,00	1,18	1,18	1,20

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

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

SCOP [Average_low temp] 4,51