

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 L33						
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	15,1	2,42	14,5	2,10	13,9	1,78
-15	17,5	2,68	17,1	2,40	16,4	1,90
-10	19,1	3,04	18,7	2,71	18,2	2,11
-7	20,1	3,25	19,7	2,78	19,3	2,20
2	24,5	3,85	23,9	3,07	23,1	2,37
7	25,5	4,31	24,8	3,20	23,9	2,95
12	27,1	4,64	26,3	3,79	25,5	3,16

Heat Pump air/water KITA L33				
Correction Factor calculation	A	B	C	D
Out temp. [°C]	-7	2	7	12
PLR	88%	54%	35%	15%
Heat output [kW]	20,1	24,5	25,5	27,1
CR	1,00	0,50	0,31	0,13
COP (full load performance)	3,25	3,85	4,31	4,64
COP (partial load performance)	3,08	5,05	5,45	5,39
fcop	0,95	1,31	1,26	1,16

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

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

SCOP [Average_low temp] 4.93