

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 HR 10						
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	5,00	2,58	4,94	2,34	4,83	2,09
-15	5,70	2,93	5,53	2,62	5,44	2,31
-10	6,53	3,11	6,35	2,88	6,26	2,52
-7	7,03	3,22	6,88	2,94	6,72	2,66
2	8,81	4,07	8,53	3,41	8,19	2,75
7	9,90	4,60	9,42	3,86	9,08	3,12
12	10,50	5,50	10,27	4,43	10,07	3,35

Heat Pump air/water KITA HR 10				
Correction Factor calculation	A	B	C	D
Out temp. [C°]	-7	2	7	12
PLR	88%	54%	35%	15%
Heat output [kW]	7,03	8,81	9,9	10,5
CR	1,00	0,49	0,28	0,11
COP (full load performance)	3,22	4,07	4,6	5,5
COP' (partial load performance)	3,22	4,54	5,47	5,94
f _{cop}	1,00	1,12	1,19	1,08

T_{design} = -10°C

T_{H20, out} = 35°C

SCOP [Average_low temp] 4,82