

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 12						
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	5,80	2,42	5,91	2,10	6,01	1,79
-15	6,60	2,82	6,72	2,42	6,83	2,01
-10	7,75	3,00	7,80	2,67	7,76	2,22
-7	8,44	3,12	8,38	2,73	8,32	2,35
2	10,79	3,91	10,30	3,25	9,81	2,59
7	12,16	4,30	11,57	3,55	10,97	2,80
12	12,60	5,40	11,90	4,27	11,50	3,13

Heat Pump air/water KITA HR 12				
Correction Factor calculation	A	B	C	D
Out temp. [°C]	-7	2	7	12
PLR	88%	54%	35%	15%
Heat output [kW]	8,44	10,79	12,16	12,60
CR	1,00	0,48	0,28	0,13
COP (full load performance)	3,12	3,91	4,3	5,4
COP (partial load performance)	3,12	4,54	5,47	5,94
fcop	1,00	1,16	1,27	1,10

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

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

SCOP [Average_low temp] 4,76