

## Kita MP 20

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 EN 14825 AND UNI EN 14511

Full load performance - UNI EN 14511								
Water outlet T [°C]	35		45		55		65	
External T [°C]	Declared capacity [kW]	COP	Declared capacity [kW]	COP	Declared capacity [kW]	COP	Declared capacity [kW]	COP
-25	8.22	1.88	7.99	1.53	7.85	1.32	/	/
-20	9.69	2.20	9.42	1.80	9.24	1.55	8.40	1.28
-15	11.24	2.54	10.92	2.08	10.71	1.79	10.32	1.47
-10	12.91	2.91	12.52	2.36	12.25	2.03	11.74	1.67
-7	14.00	3.14	13.53	2.54	13.22	2.19	12.64	1.79
2	17.68	3.90	17.06	3.17	16.42	2.65	15.61	2.18
7	20.00	4.49	19.23	3.60	18.54	3.10	17.51	2.47
12	22.55	5.16	21.54	4.18	20.74	3.42	19.59	2.79

Part load performance – UNI EN 14825				
Correction Factor calculation	A	B	C	D
External T [°C]	-7	2	7	12
PLR	88%	54%	35%	15%
Declared capacity [kW]	14.05	8.55	5.50	4.88
CR	1.00	1.00	1.00	0.50
COP' (partial load performance)	3.20	4.91	7.07	10.59

$T_{\text{design}} = -10.00^{\circ}\text{C}$   
 SCOP [Average]=5.13

Chiller mode performance – Fan coil application			Chiller mode performance – Cooling floor application		
Water outlet T 7°C			Water outlet T 18°C		
Nominal capacity A35/W7 [kW]		12.00	Nominal capacity A35/W18 [kW]		12.00
Part load ratio	Water outlet T [°C]	EER	Part load ratio	Water outlet [°C]	EER
100%	7.0	3.38	100%	18.0	5.41
75%	8.5	4.72	75%	18.0	7.66
50%	10.0	7.62	50%	18.0	8.79
25%	11.5	8.73	25%	18.0	10.95

SEER [cooling floor]=6.16  
 SEER [fan coil]=5.14