

Kita LP PLUS 40

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	17.01	2.04	16.69	1.69	16.30	1.43	15.80	1.22
-20	19.56	2.26	19.17	1.88	18.71	1.60	18.18	1.37
-15	22.38	2.52	21.91	2.10	21.40	1.79	20.79	1.53
-10	25.52	2.83	24.95	2.34	24.33	1.99	23.61	1.70
-7	27.68	3.04	26.97	2.51	26.45	2.23	25.41	1.81
2	35.35	3.84	34.28	3.12	33.18	2.62	31.93	2.22
7	40.00	4.45	38.98	3.54	37.50	2.94	36.11	2.49
12	38.25	5.50	44.14	4.03	42.51	3.32	40.67	2.78

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]	27.75	16.88	10.86	9.48
CR	1.00	1.00	1.00	0.51
COP' (partial load performance)	3.10	5.61	6.28	9.98

$T_{design} = -10.00^{\circ}C$
 $SCOP [Average] = 5.49$

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]		30.86	Nominal capacity A35/W18 [kW]		32.00
Part load ratio	Water outlet T [°C]	EER	Part load ratio	Water outlet [°C]	EER
100%	7.0	2.93	100%	18.0	4.86
75%	8.5	4.40	75%	18.0	6.75
50%	10.0	6.22	50%	18.0	9.28
25%	11.5	8.43	25%	18.0	12.55

$SEER [cooling floor] = 7.63$
 $SEER [fan coil] = 5.21$