

Technical Data Sheet

Ultra-low Temperature Full DC Inverter Air Source Heat Pump - Heating & Cooling Series

Category	Parameter	Unit	HLHK-6LNCDII-1Z	HLHK-6LNCDII-1ZS	HLHK-8LNCDII-1Z	HLHK-10LNCDII-1Z
General	System type	-	-35°C ultra-low temperature full DC inverter heating & cooling	-35°C ultra-low temperature full DC inverter heating & cooling	-35°C ultra-low temperature full DC inverter heating & cooling	-35°C ultra-low temperature full DC inverter heating & cooling
	Efficiency class	-	Heating / cooling: Class 1	Heating / cooling: Class 1	Heating / cooling: Class 1	Heating / cooling: Class 1
	Power supply	-	380 V / 3N~ / 50 Hz	380 V / 3N~ / 50 Hz	380 V / 3N~ / 50 Hz	380 V / 3N~ / 50 Hz
Nominal cooling (A35/W7)	Cooling capacity	kW	12.5	16.0	18.0	25.0
	Power input	kW	4.47	5.71	6.67	9.26
	COP	W/W	2.80	2.80	2.70	2.70
Rated heating (A7/W45)	Heating capacity	kW	16.0	20.0	22.0	28.0
	Power input	kW	5.00	6.25	6.67	8.75
	COP	W/W	3.20	3.20	3.30	3.20
Nominal heating (A-12, W35/41)	Heating capacity	kW	11.2 / 11.2	15.0 / 15.0	16.5 / 16.5	20.5 / 20.5
	Power input	kW	4.48 / 4.98	5.56 / 6.20	6.11 / 6.88	7.74 / 8.54
	COP	W/W	2.50 / 2.25	2.70 / 2.42	2.70 / 2.40	2.65 / 2.40
Low-temp heating (A-20, W35/41)	Heating capacity	kW	9.5 / 9.5	13.0 / 13.0	14.5 / 14.5	18.0 / 18.0
	Power input	kW	4.52 / 5.00	5.65 / 6.25	6.30 / 6.90	8.18 / 9.00
	EER	W/W	2.10 / 1.90	2.30 / 2.08	2.30 / 2.10	2.20 / 2.00
Seasonal performance	CSPF	W/W	4.90	4.80	4.80	4.70
	APF (heating)	W/W	3.20	3.20	3.20	3.20
Electrical	Maximum input power	kW	5.8	8.7	9.2	13.0
	Maximum current	A	9.8	14.7	15.6	23.5
Acoustic	Sound pressure level cooling / heating	dB(A)	53 / 56	53 / 56	55 / 58	55 / 58

Category	Parameter	Unit	HLHK-6LNCDII-1Z	HLHK-6LNCDII-1ZS	HLHK-8LNCDII-1Z	HLHK-10LNCDII-1Z
Hydraulic	Circulating water flow	m ³ /h	2.15	2.75	3.10	4.30
	Circulating pump	-	External	External	External	External
	Water flow switch	-	External	External	External	External
	Water connection size	-	G1	G1	G1	G1 1/4
	Water-side pressure drop	kPa	22	27	37	40
	Max. water-side working pressure	MPa	1.0	1.0	1.0	1.0
Refrigerant	Type	-	R32	R32	R32	R32
	Charge	kg	1.9	2.3	2.8	3.2
Dimensions & weight	Dimensions (L x W x H)	mm	1036 x 406 x 1410	1036 x 406 x 1410	1036 x 406 x 1410	1036 x 406 x 1570
	Protection rating	-	IPX4	IPX4	IPX4	IPX4
	Anti-electric-shock class	-	Class I	Class I	Class I	Class I
Operating range	Ambient temperature range	°C	Heating: -35 to 30 / Cooling: 5 to 55	Heating: -35 to 30 / Cooling: 5 to 55	Heating: -35 to 30 / Cooling: 5 to 55	Heating: -35 to 30 / Cooling: 5 to 55
	Return water temperature range	°C	Heating: 20 to 55 / Cooling: 10 to 30	Heating: 20 to 55 / Cooling: 10 to 30	Heating: 20 to 55 / Cooling: 10 to 30	Heating: 20 to 55 / Cooling: 10 to 30
Dimensions & weight	Net weight	kg	126	126	137	163

Notes: A = ambient air temperature; W = water temperature condition. Performance data are based on standard test conditions. Product specifications may be updated without prior notice; final confirmed data shall prevail.