

			Hantech H-Plus Technical Datasheet				
Modellnr.			HNT-WS09VMCL	HNT-WS12VMCL	HNT-WS18VMCL	HNT-WS24VMCL	
Type			heating pump	heating pump	heating pump	heating pump	
Control type			remote controller	remote controller	remote controller	remote controller	
Power supply			220-240V~50Hz/1P	220-240V~50Hz/1P	220-240V~50Hz/1P	220-240V~50Hz/1P	
Power supply side			Outdoor	Outdoor	Outdoor	Outdoor	
Voltage Range	V		165~265	165~265	165~265	165~265	
Cooling	Cooling capacity	W	2680(940~3810)	3580(1000~4000)	5260(1250~6000)	7030(1830~7420)	
	Power consumption	W	679(240~1360)	1063(290~1500)	1421(330~2360)	1900(410~2800)	
	Operating current	A	3.1(1.2~7.5)	4.9(1.5~9.0)	6.5(1.7~12.0)	8.5(2.3~15.5)	
	EER	W/W	3.94	3.36	3.70	3.70	
Seasonal Cooling	Pdesignc	W	2600	3500	5200	7000	
	SEER	W/W	8.5	8.5	8.5	8.5	
	Energy Class		A+++	A+++	A+++	A+++	
Heating	Annual energy consumption	kwh/a	108	145	215	289	
	Heating capacity	W	3350(940~4230)	3900(1000~4500)	5600(1250~6800)	7120(1850~7960)	
	Power consumption	W	857(240~1656)	974(290~1830)	1407(340~2750)	1795(420~3000)	
	Operating current	A	3.8(1.2~8.0)	4.4(1.5~10.0)	6.4(1.7~13.2)	8.2(2.3~15.5)	
	COP	W/W	3.9	4	3.98	3.96	
Seasonal Heating (Average)	PdesignH	W	2400	2500	4200	5300	
	SCOP	W/W	4.6	4.7	4.6	4.7	
	Energy Class		A++	A++	A++	A++	
	Annual energy consumption	kwh/a	731	745	1279	1579	
	Declare capacity(-10°C)	W	2200	2300	3800	5100	
	Back up heating capacity(-10°C)	W	200	200	400	200	
Seasonal Heating (Warmer)	PdesignH	W	2600	3500	5000	6400	
	SCOP	W/W	5.3	5.9	5.6	5.6	
	Energy Class		A+++	A+++	A+++	A+++	
	Annual energy consumption	kwh/a	687	831	1250	1600	
	Declare capacity(2°C)	W	2600	3500	5000	6400	
Seasonal Heating (Colder)	Back up heating capacity(2°C)	W	0	0	0	0	
	PdesignH	W	2900	3400	5400	6600	
	Annual energy consumption	W/W	3.7	3.7	3.6	3.9	
	Energy Class		A	A	A	A	
	Annual energy consumption	kwh/a	1646	1930	3150	3554	
	Declare capacity(-22°C)	W	2200	2400	4200	5200	
Indoor Unit	Back up heating capacity(-22°C)	W	700	1000	1200	1400	
	Moisture removal	Liters/h	1.2	1.5	1.8	2	
	Sound power(S/H/H-M/M/M-L/L/Mute)	dB(A)	54/50/47/44/39/35/29	54/50/47/44/39/35/29	57/51/46/43/40/37/33	60/54/50/47/44/40/36	
	Sound pressure(S/H/H-M/M/M-L/L/Mute)	dB(A)	44/41/37/34/29/25/19	44/41/37/34/29/25/19	47/42/38/33/30/27/23	50/44/40/37/34/30/26	
	Air circulation (S/H/H-M/M/M-L/L/Mute)	Cooling	m³/h	680/630/590/550/510/470/420	680/630/590/550/510/470/420	860/790/740/680/630/570/510	1100/1020/960/890/830/770/680
		Heating	m³/h	700/650/610/570/540/500/460	700/650/610/570/540/500/460	900/810/760/700/650/590/530	1150/1070/1010/940/890/830/750
	Fan speed (S/H/H-M/M/M-L/L/Mute)	Cooling	rpm	1160/1030/940/880/810/750/680	1160/1030/940/880/810/750/680	1160/1030/940/880/810/750/680	1220/1130/1060/990/920/850/750
		Heating	rpm	940/880/810/750/680/630/580	1030/940/880/810/750/680/630	1160/1030/940/880/810/750/680	1220/1130/1070/1000/940/880/800
	Indoor fan motor Type			DC	DC	DC	DC
	Net weight	kg	9.7	9.7	10	14.2	
	Gross weight	kg	12.2	12.2	13	17.2	
	Net dimensions (W x H x D)	mm	808×305×209	808×305×209	909×305×209	1096×333×222	
	Packing dimensions(W x H x D)-1	mm	880×375×275	880×375×275	981×375×275	1165×405×295	
	Packing dimensions(W x H x D)-2	mm	/	/	/	/	
Packing dimensions(W x H x D)-3	mm	/	/	/	/		
Outdoor Unit	Compressor	Type	Rotary		Rotary	Rotary	
		MFG	GMCC		GMCC	SANYO	
	Refrigerant	Type	R32		R32	R32	
		Charge	kg	0.57	0.6	0.87	
		GWP		675	675	675	
		CO2 equivalent		0.385	0.405	0.588	
	Outdoor air circulation	m³/h	2000	2300	3000	4000	
	Outdoor fan speed (S/H/M/L/Mute)	Cooling	rpm	920/920/810/730/610	900/810/830/670/650	850/830/710/610/530	930/930/850/750/590
		Heating	rpm	850/850/810/750/650	910/870/830/770/650	850/850/730/610/510	890/890/830/690/590
	Outdoor fan motor Type			DC	DC	DC	
	Outdoor sound power	dB(A)	62	63	65	68	
	Outdoor sound pressure	dB(A)	52	53	55	58	
	Expansion device			Electronic expansion valve	Electronic expansion valve	Electronic expansion valve	
	Net weight	kg	22	24	38	45	
Gross weight(Without pipe)	kg	24	26	41	48		
Gross weight(With pipe)	kg	25	27	42	49		
Net dimensions (W x H x D)	mm	787×498×290	810×549×305	927×699×380	978×803×421		
Packing dimensions(W x H x D)-no pipe	mm	818×520×325	835×575×328	960×732×430	1022×835×480		
Packing dimensions(W x H x D)-3m pipe	mm	818×520×325	835×585×340	960×732×430	1022×835×480		
Packing dimensions(W x H x D)-4m pipe	mm	818×520×325	835×585×340	960×732×430	1022×835×480		
Packing dimensions(W x H x D)-5m pipe	mm	838×338×540	835×585×340	960×732×430	1022×835×480		
Packing dimensions(W x H x D)-Assembly bracket	mm	838×338×580	/	950×777×420	/		
Connections	Connecting Wiring (Core x Size)	mm²	4×0.75mm²	4×0.75mm²	4×0.75mm²	4×0.75mm²	
	Power supply cable(Core x Size)	mm²	3×1.5	3×1.5	3×1.5	3×2.5	
	Drainage pipe diameter	mm	16	16	16	16	
	Connecting Pipe	Gas	Inches	3/8"	3/8"	1/2"	1/2"
Liquid		Inches	1/4"	1/4"	1/4"	1/4"	
Others	Application area	m²	9~16	14~22	20~35	27~45	
	Max. refrigerant pipe length	m	25	25	25	25	
	Max. difference in level	m	10	10	10	10	
	Standard precharge total pipe length	m	5	5	5	5	
	Additional refrigerant charge	g/m	15	15	25	25	
	Operation temperature range	m	16-31	16-31	16-31	16-31	
	Ambient temperature range	Outdoor	°C	Cooling:-15-53/Heating:-25-30	Cooling:-15-53/Heating:-25-30	Cooling:-15-53/Heating:-25-30	Cooling:-15-53/Heating:-25-30
Indoor		°C	Cooling:17-32/Heating:0-30	Cooling:17-32/Heating:0-30	Cooling:17-32/Heating:0-30	Cooling:17-32/Heating:0-30	
Loading Capacity1	20'GP/40'GP/40'HQ		no pipes/3m/4m: 275		no pipes: 155		
Loading Capacity2	20'GP/40'GP/40'HQ		3m/4m/5m: 250		3m/4m/5m pipes: 155		
Loading Capacity3	20'GP/40'GP/40'HQ						