

Product Fiche										
Supplier name: SKYLAND										
Model name: Master Heat AMH22DCT										
Air-to-water heat pump: YES					Water-to-water heat pump: NO					
Brine-to-water heat pump: NO					Low-temperature heat pump: NO					
Equipped with a supplementary heater: NO					Heat pump combination heater: NO					
Climate condition							Average			
Seasonal space heating energy efficiency class							35°C		55°C	
							A+++		A++	
Rated heat power output					kW		Prated			
							35°C		55°C	
					15.712		15.205			
Annual energy consumption				space heating		kWh		Q <sub>HE</sub>		
								35°C		55°C
				6917		8798				
Seasonal space heating energy efficiency					%		η <sub>s</sub>			
							35°C		55°C	
					184.7		139.8			
Low temperature application					T design	°C	-10			
T <sub>j</sub> (°C)		P <sub>dh</sub> (kW)	C <sub>dh</sub>	COP <sub>d</sub>						
TOL	-10	13.106	0.9	2.70						
T bival	-7	13.899	0.9	2.96						
-7		13.899	0.9	2.96						
+2		8.498	0.9	4.63						
+7		6.639	0.9	6.25						
+12		6.823	0.9	8.21						
Medium temperature application										T design
T <sub>j</sub> (°C)		P <sub>dh</sub> (kW)	C <sub>dh</sub>	COP <sub>d</sub>						
TOL	-10	11.330	0.9	1.76						
T bival	-7	13.451	0.9	2.16						
-7		13.451	0.9	2.16						
+2		8.921	0.9	3.56						
+7		6.219	0.9	4.85						
+12		6.705	0.9	6.24						
Thermostat-off mode (PTO)		kW	0.016							
Standby mode (PSB)		kW	0.006							
Crankcase heater mode (PCK)		kW	0.027							
OFF mode (POFF)		kW	0.006							
Capacity control							Variable			
Rated air-flow rate (air-to-water heat pump)					m <sup>3</sup> /h		7400m <sup>3</sup> /h			
Sound power level				ODU		dB		72		
Water pump EEL ≤							0.21			
Declared data are conform to regulations (EU) nr 811/2013 and nr 813/2013										
PRECAUTION										
Contact the authorized service technician for repair or maintenance of this unit.										
Contact the installer for installation of this unit.										
AWHP is not intended for use by young children or invalids without supervision. Young children should be supervised to ensure that they do not play with AWHP.										
When the power cable is to be replaced, replacement work shall be performed by authorized personnel only using only genuine replacement parts.										
Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.										

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Equipped with a supplementary heater: NO			Heat pump combination heater: NO			
Climate condition					<b>Colder</b>	
Seasonal space heating energy efficiency class					35°C	55°C
Rated heat power output				kW	Prated	
					35°C	55°C
					15.56	14.51
Annual energy consumption			space heating	kWh	Q <sub>HE</sub>	
					35°C	55°C
					9539	11597
Seasonal space heating energy efficiency				%	η <sub>s</sub>	
					35°C	55°C
					157.8	120.4
Low temperature application				T design	°C	-22
T <sub>j</sub> (°C)		Pdh(kW)	Cdh	COPd		
TOL	-22	10.42	0.9	1.86		
-15 (if TOL<-20°C)		12.65	0.9	2.32		
T bival	-15	12.65	0.9	2.32		
-7		9.43	0.9	3.35		
+2		5.65	0.9	4.85		
+7		3.71	0.9	6.48		
+12		1.82	0.9	8.99		
Medium temperature application				T design	°C	-22
T <sub>j</sub> (°C)		Pdh(kW)	Cdh	COPd		
TOL	-22	10.21	0.9	1.22		
-15 (if TOL<-20°C)		11.89	0.9	1.81		
T bival	-15	11.89	0.9	1.81		
-7		8.73	0.9	2.55		
+2		5.32	0.9	3.76		
+7		3.47	0.9	4.73		
+12		1.72	0.9	6.12		
Thermostat-off mode (PTO)	kW	0.016				
Standby mode (PSB)	kW	0.006				
Crankcase heater mode (PCK)	kW	0.027				
OFF mode (POFF)	kW	0.006				
Capacity control					Variable	
Rated air-flow rate (air-to-water heat pump)				m <sup>3</sup> /h	7400m <sup>3</sup> /h	
Sound power level			ODU	dB	72	
Water pump EEL ≤					0.21	
Declared data are conform to regulations (EU) nr 811/2013 and nr 813/2013						
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Equipped with a supplementary heater: NO					Heat pump combination heater: NO					
Climate condition							<b>Warmer</b>			
Seasonal space heating energy efficiency class							35°C		55°C	
Rated heat power output					kW		Prated			
							35°C		55°C	
Annual energy consumption					space heating		kWh		Q <sub>HE</sub>	
									35°C	
Seasonal space heating energy efficiency					%		η <sub>s</sub>			
							35°C		55°C	
Low temperature application					T design	°C	+2			
T <sub>j</sub> (°C)		P <sub>dh</sub> (kW)		C <sub>dh</sub>	COP <sub>d</sub>					
TOL	2	16.8		0.9	3.44					
T bival	7	10.76		0.9	5.72					
+2		16.8		0.9	3.44					
+7		10.76		0.9	5.72					
+12		4.82		0.9	8.6					
Medium temperature application					T design	°C	+2			
T <sub>j</sub> (°C)		P <sub>dh</sub> (kW)		C <sub>dh</sub>	COP <sub>d</sub>					
TOL	2	15.7		0.9	2.19					
T bival	7	9.99		0.9	3.68					
+2		15.7		0.9	2.19					
+7		9.99		0.9	3.68					
+12		4.45		0.9	7.05					
Thermostat-off mode (PTO)		kW		0.016						
Standby mode (PSB)		kW		0.006						
Crankcase heater mode (PCK)		kW		0.027						
OFF mode (POFF)		kW		0.006						
Capacity control							Variable			
Rated air-flow rate (air-to-water heat pump)					m <sup>3</sup> /h		7400m <sup>3</sup> /h			
Sound power level					ODU		dB		72	
Water pump EEI ≤							0.21			
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