

Product Fiche										
Supplier name: cosmotherm										
Model name: Master Heat AMH30DCT										
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: YES					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	
Annual energy consumption					space heating		kWh		Q _{HE}	
									35°C	
Seasonal space heating energy efficiency					%		η _s			
							35°C		55°C	
Low temperature application					T design		°C		-10	
T _j (°C)		Pdh(kW)		Cdh		COPd				
TOL -10		17.24		0.9		2.61				
T bival -7		18.34		0.9		2.89				
-7		18.34		0.9		2.89				
+2		11.34		0.9		4.16				
+7		7.51		0.9		5.72				
+12		7.58		0.9		11.50				
Medium temperature application					T design		°C			
T _j (°C)		Pdh(kW)		Cdh		COPd				
TOL -10		17.57		0.9		1.86				
T bival -7		17.61		0.9		2.17				
-7		17.61		0.9		2.17				
+2		11.12		0.9		3.26				
+7		7.15		0.9		4.83				
+12		7.85		0.9		7.41				
Thermostat-off mode (PTO)		kW		0.010						
Standby mode (PSB)		kW		0.010						
Crankcase heater mode (PCK)		kW		0.040						
OFF mode (POFF)		kW		0.010						
Capacity control							Variable			
Rated air-flow rate (air-to-water heat pump)					m ³ /h		11000m ³ /h			
Sound power level					ODU		dB		60	
Water pump EEL ≤							0.23			
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: YES			Heat pump combination heater: NO			
Climate condition					Colder	
Seasonal space heating energy efficiency class					35°C	55°C
Rated heat power output				kW	Prated	
					35°C	55°C
					19.39	18.52
Annual energy consumption			space heating	kWh	Q _{HE}	
					35°C	55°C
					11313	14008
Seasonal space heating energy efficiency				%	η _s	
					35°C	55°C
					166.0	127.4
Low temperature application				T design	°C	-22
T _j (°C)		P _{dh} (kW)	C _{dh}	COP _d		
TOL	-22	15.72	0.9	2.28		
-15 (if TOL<-20°C)		15.84	0.9	2.74		
T bival	-15	15.84	0.9	2.74		
-7		11.69	0.9	3.56		
+2		7.16	0.9	5.03		
+7		6.93	0.9	6.26		
+12		7.83	0.9	7.87		
Medium temperature application				T design	°C	-22
T _j (°C)		P _{dh} (kW)	C _{dh}	COP _d		
TOL	-22	15.25	0.9	1.80		
-15 (if TOL<-20°C)		15.11	0.9	2.07		
T bival	-15	15.11	0.9	2.07		
-7		11.33	0.9	2.69		
+2		6.85	0.9	3.89		
+7		6.76	0.9	4.94		
+12		7.74	0.9	6.70		
Thermostat-off mode (PTO)		kW	0.010			
Standby mode (PSB)		kW	0.010			
Crankcase heater mode (PCK)		kW	0.040			
OFF mode (POFF)		kW	0.010			
Capacity control					Variable	
Rated air-flow rate (air-to-water heat pump)				m ³ /h	11000m ³ /h	
Sound power level			ODU	dB	60	
Water pump EEL ≤					0.23	
Declared data are conform to regulations (EU) nr 811/2013 and nr 813/2013						
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Equipped with a supplementary heater: YES					Heat pump combination heater: NO					
Climate condition							Warmer			
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 _{HE}	
									35°C	
Seasonal space heating energy efficiency					%		η _s		35°C	
									4656	
Low temperature application					T design		°C		+2	
T _j (°C)		P _{dh} (kW)		C _{dh}		COP _d				
TOL 2		20.92		0.9		4.08				
T bival 7		13.23		0.9		5.35				
+2		20.92		0.9		4.08				
+7		13.23		0.9		5.35				
+12		7.80		0.9		7.43				
Medium temperature application					T design		°C		+2	
T _j (°C)		P _{dh} (kW)		C _{dh}		COP _d				
TOL 2		20.41		0.9		2.71				
T bival 7		13.07		0.9		3.73				
+2		20.41		0.9		2.71				
+7		13.07		0.9		3.73				
+12		7.57		0.9		5.28				
Thermostat-off mode (PTO)		kW		0.010						
Standby mode (PSB)		kW		0.010						
Crankcase heater mode (PCK)		kW		0.040						
OFF mode (POFF)		kW		0.010						
Capacity control							Variable			
Rated air-flow rate (air-to-water heat pump)					m ³ /h		11000m ³ /h			
Sound power level					ODU		dB		60	
Water pump EEI ≤							0.23			
<p>Declared data are conform to regulations (EU) nr 811/2013 and nr 813/2013</p> <p>PRECAUTION</p> <p>Contact the authorized service technician for repair or maintenance of this unit.</p> <p>Contact the installer for installation of this unit.</p> <p>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.</p> <p>When the power cable is to be replaced, replacement work shall be performed by authorized personnel only using only genuine replacement parts.</p> <p>Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.</p>										