

Model(s):			Oute	door unit: MHA-V4W/D2N1 Indoo	or unit: SMK-80/CE	30GN1-B			
Air-to-water heat pump:			Udit	YES					
Air-to-water neat pump: 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							
Declared climate condition:				AVERAGE					
Parameters are declared for med	dium-temperatu	re application.							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	4	kW	Seasonal space heating	ηs	127	%		
Declared capacity for heating for and outdoor temperature Tj	part load at	indoor tempera	ature 20 °C	energy efficiency Declared coefficient of perform indoor temperature 20 °C and			part load		
Tj = -7 °C	Pdh	3.8	kW	Tj = -7°C	COPd	1.99	-		
Tj = 2°C	Pdh	2.4	kW	Tj = 2°C	COPd	3.14	-		
Tj = 7°C	Pdh	1.6	kW	Tj = 7°C	COPd	4.32	-		
Tj = 12 °C	Pdh	1.6	kW	Tj = 12°C	COPd	6.62	-		
Tj = bivalent temperature	Pdh	4.3	kW	Tj = bivalent temperature	COPd	1.81	-		
Tj = operating limit	Pdh	4.3	kW	Tj = operating limit	COPd	1.81	-		
For air-to-water heat pumps: Tj = -15 $^\circ$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $\rm C$	COPd	-	-		
Bivalent temperature	T _{biv}	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C		
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-		
Degradation co-efficient (**)	C _{dh}	0.9		Heating water operating limit temperature	W _{TOL}	60	°C		
Power consumption in modes ot	her than active	e mode		Supplementary heater					
Off mode	Poff	0.017	kW		<u> </u>				
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	0	kW		
Thermostat-off mode	Pto	0.057	kW	Type of energy input		Electrical			
Crankcase heater mode	Pck	0.015	kW	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3180	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	43/62	dB	For water- or brine-to-water heat pumps: Rated brine or		-	m³/h		
Annual energy consumption	Q _{HE}	2700	kWh	water flow rate, outdoor heat exchanger					
For heat pump combination heat	ter:								
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details	GD Midea H	leating & Vent	ilating Equipmer	nt Co. Ltd (Penglai industry road, Be	eijiao, Shunde, Fos	shan, Guangdong	, P.R Chin		

and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Model(s):			Outo		or unit: SMK-80/CD	30GN1-B		
Air-to-water heat pump:		YES						
Water-to-water heat pump: Brine-to-water heat pump:		NO						
Low-temperature heat pump:				NO				
Equipped with a supplementary h	eater:			YES				
leat pump combination heater:	outon	NO						
Declared climate condition:				COLDER				
Parameters are declared for medi	um-temperatu	re application						
		T						
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	ηs	103	%	
Declared capacity for heating for and outdoor temperature Tj	part load at	indoor temper	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and			part load	
j = -7 °C	Pdh	2.7	kW	Tj = -7 C	COPd	2.21	-	
īj = 2°C	Pdh	1.6	kW	Tj = 2°C	COPd	3.20	-	
i j = 7°C	Pdh	1.1	kW	Т ј = 7 С	COPd	4.23	-	
īj = 12°C	Pdh	1.4	kW	Tj = 12℃	COPd	6.11	-	
j = bivalent temperature	Pdh	3.4	kW	Tj = bivalent temperature	COPd	1.61	-	
j = operating limit	Pdh	2.8	kW	Tj = operating limit	COPd	1.23	-	
For air-to-water heat pumps: $\Gamma = -15^{\circ}C$	Pdh	-	kW	For air-to-water heat pumps: TI = -15 $^{\circ}$ C	COPd	-	-	
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C	
Cycling interval capacity for neating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-	
Degradation co-efficient (**)	C _{dh}	0.9		Heating water operating limit temperature	W _{TOL}	60	°C	
Power consumption in modes oth	er than activ	e mode	I	Supplementary heater		<u> </u>		
Off mode	Poff	0.017	kW		_			
Standby mode	P _{sb}	0.017	kW	Rated heat output (**)	Psup	1.66	kW	
Fhermostat-off mode	Pto	0.057	kW	Type of energy input Electrica		Electrical	al	
Crankcase heater mode	P _{ck}	0.015	kW	, , , , , , , , , , , , , , , , , , ,				
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3180	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	-	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat	_	-	m³/h	
Annual energy consumption	Q _{HE}	3905	kWh	exchanger				
For heat pump combination heate	r:							
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
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Model(s):			Outo	door unit: MHA-V4W/D2N1 Indoo	or unit: SMK-80/CD	30GN1-B			
Air-to-water heat pump:			out	YES					
Water-to-water heat pump:		YES NO							
Brine-to-water heat pump:				NO					
Low-temperature heat pump:				NO					
Equipped with a supplementary h	neater:			YES					
Heat pump combination heater:		NO							
Declared climate condition:				WARMER					
Parameters are declared for med	ium-temperatu	re application.							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	4	kW	Seasonal space heating	ηs	150	%		
Declared capacity for heating for		indoor tempera		energy efficiency Declared coefficient of perform			part load		
and outdoor temperature Tj				indoor temperature 20 °C and			·		
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-		
Tj = 2°C	Pdh	4.3	kW	Tj = 2°C	COPd	2.32	-		
Tj = 7 °C	Pdh	2.8	kW	Tj = 7 C	COPd	3.26	-		
Tj = 12 [°] C	Pdh	1.4	kW	Tj = 12 C	COPd	5.19	-		
Tj = bivalent temperature	Pdh	4.3	kW	Tj = bivalent temperature	COPd	2.32	-		
Tj = operating limit	Pdh	4.3	kW	Tj = operating limit	COPd	2.32	-		
For air-to-water heat pumps: Tj = -15 $^\circ{\rm C}$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 $^\circ\mathrm{C}$	COPd	-	-		
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C		
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-		
Degradation co-efficient (**)	C _{dh}	0.9		Heating water operating limit temperature	W _{TOL}	60	°C		
Power consumption in modes oth	ner than active	e mode		Supplementary heater					
Off mode	Poff	0.017	kW						
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	0	kW		
Thermostat-off mode	Pto	0.057	kW	Type of energy input		Electrical			
Crankcase heater mode	P _{ck}	0.015	kW	Type of energy input		Electrical			
Other items					_	-			
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3180	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	-	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	_	-	m³/h		
Annual energy consumption	Q _{HE}	1520	kWh						
For heat pump combination heat	er:								
Declared load profile		-		Water heating energy	η _{wh}	-	%		
Daily electricity consumption	Q _{elec}	_	kWh	efficiency Daily fuel consumption	Q _{fuel}	_	kWh		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
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and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.