

Model(s):			Outo	door unit: MHA-V16W/D2RN1 Inde	oor unit: SMK-16	60/CSD45GN1-B			
Air-to-water heat pump:			Odic	YES	22. d.iit. OWIN-10				
Water-to-water heat pump:		YES NO							
Brine-to-water heat pump:				NO					
Low-temperature heat pump:				NO					
Equipped with a supplementary h	eater:			YES					
Heat pump combination heater:				NO					
Declared climate condition:				AVERAGE					
Parameters are declared for medi	ium-temperatu	re application.							
tem	Symbol	Value	Unit	Item	Symbol	Value			
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	ηѕ	130			
Declared capacity for heating for and outdoor temperature Tj	part load at	indoor tempera	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and			par		
Tj = -7℃	Pdh	13.1	kW	Tj = -7 ℃	COPd	2.04			
Tj = 2°C	Pdh	8.4	kW	Tj = 2°C	COPd	3.11			
Tj = 7°C	Pdh	5.4	kW	Tj = 7°C	COPd	4.74			
Tj = 12 °C	Pdh	3.6	kW	Tj = 12℃	COPd	7.04			
Tj = bivalent temperature	Pdh	12.7	kW	Tj = bivalent temperature	COPd	2.07			
Tj = operating limit	Pdh	11.3	kW	Tj = operating limit	COPd	1.71			
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15  \text{C}$	COPd	-			
Bivalent temperature	T <sub>biv</sub>	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10			
Cycling interval capacity for heating	P <sub>cych</sub>	-	kW	Cycling interval efficiency	COP <sub>cyc</sub>	-			
Degradation co-efficient (**)	$C_{dh}$	0.9		Heating water operating limit temperature	W <sub>TOL</sub>	60			
Power consumption in modes oth	ner than activ	e mode		Supplementary heater					
Off mode	Poff	0.015	kW		_				
Standby mode	P <sub>sb</sub>	0.015	kW	Rated heat output (**)	Psup	3.7			
Thermostat-off mode	Pto	0.063	kW	Type of energy input		Electrica			
Crankcase heater mode	P <sub>ck</sub>	0.027	kW						
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	6500			
Sound power level, indoors/ outdoors	L <sub>WA</sub>	45/72	dB	For water- or brine-to-water heat pumps: Rated brine or		_			
Annual energy consumption	Q <sub>HE</sub>	9312	kWh	water flow rate, outdoor heat exchanger					
For heat pump combination heate	er:								
Declared load profile		-		Water heating energy efficiency	η <sub>wh</sub>	-			
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-			
_				ent Co. Ltd (Penglai industry road, Be	iii - Obaada E				

Water-to-water heat pump:					al parameters						
No   No   No   No   No   No   No   No	Model(s):			Outd	oor unit: MHA-V16W/D2RN1 Indo	oor unit: SMK-16	0/CSD45GN1-B				
No	Air-to-water heat pump:		YES								
No   No   No   No   No   No   No   No											
Parameters are declared for medium-temperature application.	Brine-to-water heat pump:										
The pump combination heater:    COLDER   Colored continuation of the pump combination heater   Colored colored continuation   Colored		h t									
Declared climate condition:  COLDER  Control Parameters are declared for medium-temperature application.  Serior declared for medium-temperature application.  Serior declared for medium-temperature application.  Serior declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 1 indoor temperature 21 °C and outdoor temperature 1 indoor temperature 21 °C and outdoor temperature 22 °C and outdoor 21 °C		neater.									
Parameters are declared for medium-temperature application.    Symbol   Value   Unit   Seasonal space heating   np   100   %.   Seasonal space heating   np   100   %.   Declared capacity for heating for part load at indoor temperature 20 °C   Poth   0.0   0.											
Seasonal space heating ps 100 %.  Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7)  For air consumption in modes other than active mode  Declared capacity for heating provided in the provided indoor temperature 20 °C and outdoor temperature 7)  Seasonal space heating ps 100 %.  Seasonal space heating ps 100 %.  Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7)  For air consumption in modes other than active mode  Declared capacity for variety on sumption in modes other than active mode  Declared capacity for variety on sumption on the season of the provided in temperature  Declared temperature  Declared temperature  Part		lium-temperatu	re application.		OCEDEN						
Seasonal space heating ps 100 %.  Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7)  For air consumption in modes other than active mode  Declared capacity for heating provided in the provided indoor temperature 20 °C and outdoor temperature 7)  Seasonal space heating ps 100 %.  Seasonal space heating ps 100 %.  Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 7)  For air consumption in modes other than active mode  Declared capacity for variety on sumption in modes other than active mode  Declared capacity for variety on sumption on the season of the provided in temperature  Declared temperature  Declared temperature  Part	tem	Symbol	Value	Unit	Item	Symbol	Value	Uni			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 30 °C and outdoor 40 °C outdoor 50 °C	Rated heat output (*)		16	kW			109	%			
	. ,	part load at	indoor tempera	ature 20 °C	Declared coefficient of perform			part load			
		Pdh	9.1	kW	Tj = -7°C	COPd	2.22	-			
Tij = 12 C Pdh 3.4 kW Tij = bivalent temperature Pdh 11.3 kW Tij = operating limit Pdh 7.6 kW Tij = operating limit COPd 1.91 - Tij = operating limit Pdh 7.6 kW Tij = operating limit COPd 1.32 - For air-to-water heat pumps: Tij = -15 C To air-to-water heat pumps: To L To L To C Cycling interval capacity for Poyerh Poyer air-to-water heat pumps: To L To C Cycling interval efficiency COPd To C Cycling interval efficiency COPcyc To C Cycling interval efficiency COPcyc To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency Coperation limit temperature To L To C Cycling interval efficiency To L To C	тј = 2°С	Pdh	6.2	kW	Tj = 2°C	COPd	3.67	-			
Tij = 12 C Pdh 3.4 kW Tij = bixelent temperature Pdh 11.3 kW Tij = operating limit COPd 1.91 - Tij = operating limit COPd 1.91 - Tij = operating limit COPd 1.92 - Tij = operating limit COPd 1.92 - Tij = -15 C To air-to-water heat pumps: Tij = -15 C To air-to-water heat pumps: To L To C Cycling interval capacity for Poych To L To C Cycling interval capacity for Poych To L To C Cycling interval efficiency To L To C To C To C To C Cycling interval efficiency To L To C	Tj = 7°C	Pdh	3.8	kW	Tj = 7°C	COPd	5.09	-			
Tij = operating limit	•	Pdh	3.4	kW	-	COPd	7.47	_			
For air-to-water heat pumps: The properties of t	Tj = bivalent temperature	Pdh	11.3	kW	Tj = bivalent temperature	COPd	1.91	-			
Tig = -15 C	Tj = operating limit	Pdh	7.6	kW	Tj = operating limit	COPd	1.32	-			
Cycling interval capacity for heating water operating limit temperature  Cycling interval efficiency  Cycling interval efficiency  Cycling interval efficiency  Cycling interval efficiency  CoP <sub>cyc</sub>		Pdh	-	kW		COPd	-	-			
Degradation co-efficient (**)  Cuh  Degradation (**)  Cuh  Degradation co-efficient (**)  Cuh  Degradation co-efficient (**)  Cuh  Degradation (**)  Cuh  Cuh  Degradation (**)  Cuh  Cuh  Cuh  Degradation (**)  Cuh  Cuh  Cuh  Cuh  Cuh  Cuh  Cuh  Cu	Bivalent temperature	T <sub>biv</sub>	-11	°C		TOL	-20	°C			
Power consumption in modes other than active mode  Off mode  Porf  On 15 kW Standby mode  Pasb On 10 0.063 kW Thermostat-off mode  Crankcase heater mode  Other items  Capacity control  Sound power level, indoors/ outdoors  Annual energy consumption  QHE  Daily electricity consumption  Qelec  Annual electricity consumption  Qelec  Annual electricity consumption  Qelec  - kWh  Annual fuel consumption  AFC  - GJ  Lamber  Supplementary heater  Take do output (**)  Psup  7.4 kW  Type of energy input  Electrical  For water- or brine-to-water heat pumps: Rated air flow rate, outdoors — 6500 m²/  are water flow rate, outdoor heater — 6500 m²/  Annual electricity consumption  Quelc  Annual fuel consumption  AFC  - GJ  Annual fuel consumption  AFC  - GJ		P <sub>cych</sub>	-	kW	Cycling interval efficiency	COP <sub>cyc</sub>	-	-			
Off mode    Poff   0.015   kW     Standby mode   Psb   0.015   kW     Thermostat-off mode   Pto   0.063   kW     Crankcase heater mode   Pck   0.027   kW      Type of energy input   Electrical	Degradation co-efficient (**)	C <sub>dh</sub>	0.9			W <sub>TOL</sub>	60	°C			
Standby mode	Power consumption in modes ot	her than activ	e mode		Supplementary heater						
Standby mode	Off mode	P <sub>off</sub>	0.015	kW	Dated heat output (**)	Doun	7.4	LAN			
Crankcase heater mode  Pck  O.027 kW  Other items  Capacity control  Variable  Capacity control  Variable  For air-to-water heat pumps: Rated air flow rate, outdoors	Standby mode				Rated Heat Output ( )	Psup	7.4	KVI			
Capacity control  Variable  For air-to-water heat pumps: Rated air flow rate, outdoors					Type of energy input		Electrical				
Capacity control  variable  For air-to-water heat pumps: Rated air flow rate, outdoors  For water- or brine-to-water heat pumps: Rated air flow rate, outdoors  For water- or brine-to-water heat pumps: Rated air flow rate, outdoors  For water- or brine-to-water heat pumps: Rated air flow rate, outdoors  For water flow rate, outdoor heat exchanger  For water flow rate, outdoor heat exchanger  For heat pump combination heater:  Declared load profile  For water- or brine-to-water heat pumps:  Rated air flow rate, outdoors  Water heating energy efficiency  Plant  Plan	Crankcase heater mode	Pck	0.027	KVV							
Rated air flow rate, outdoors  Sound power level, indoors/ outdoors  Annual energy consumption  QHE  13924 kWh  For heat pump combination heater:  Declared load profile  Daily electricity consumption  Qelec  Annual electricity consumption  AEC  Rated air flow rate, outdoors  For water or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger  Water heating energy efficiency  Paily fuel consumption  Qelec  Annual electricity consumption  AEC  Rated air flow rate, outdoors  For water or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger  Water heating energy efficiency  Paily fuel consumption  AFC  GJ  Annual fuel consumption  AFC  GJ	Other items										
heat pumps: Rated brine or water flow rate, outdoor heat exchanger  - m³/l  Annual energy consumption Q <sub>HE</sub> 13924 kWh  For heat pump combination heater:  Declared load profile - Water heating energy efficiency paily electricity consumption Q <sub>elec</sub> - kWh Daily fuel consumption Q <sub>ruel</sub> - kW  Annual electricity consumption AEC - kWh Annual fuel consumption AFC - GJ	Capacity control		variable			_	6500	m³/l			
Annual energy consumption Q <sub>HE</sub> 13924 kWh water flow rate, outdoor heat exchanger  For heat pump combination heater:  Declared load profile - Water heating energy efficiency Paily electricity consumption Q <sub>elec</sub> - kWh Daily fuel consumption Q <sub>fuel</sub> - kWh Annual fuel consumption AFC - GJ	•	L <sub>WA</sub>	-	dB	heat pumps: Rated brine or		_	m <sup>3</sup> /			
Declared load profile  - Water heating energy efficiency  Daily electricity consumption  Q <sub>elec</sub> - kWh  Daily fuel consumption  Q <sub>fuel</sub> - kWh  Annual electricity consumption  AEC  - kWh  Annual fuel consumption  AFC  - GJ	Annual energy consumption	Q <sub>HE</sub>	13924	kWh				//			
Daily electricity consumption $Q_{elec}$ - kWh Daily fuel consumption $Q_{fuel}$ - kWh Annual fuel consumption AFC - GJ	For heat pump combination heat	er:									
Daily electricity consumption Q <sub>elec</sub> - kWh Daily fuel consumption Q <sub>fuel</sub> - kW  Annual electricity consumption AEC - kWh Annual fuel consumption AFC - GJ	Declared load profile		-			η <sub>wh</sub>	-	%			
	Daily electricity consumption	Q <sub>elec</sub>	-	kWh		Q <sub>fuel</sub>	-	kW			
Contact details  GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R Chi	Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ			
	Contact details	GD Midea	Heating & Venti	ilating Equipme	ent Co. Ltd (Penglai industry road, Be	eijiao, Shunde, Fo	oshan, Guangdong	, P.R Chi			