

# ECODESIGN & ENERGY LABELLING INFORMATION

12KW MONOBLOC MHC-V12W/D2N-B



# INTRODUCTION

Welcome to the Eco design and Energy labelling data for the Midea 12KW monobloc air to water heat pump – by Pipelife Ireland LTD.

This document is to fulfil the requirements of the directive Eu No. 813/2013. The directive ensures the correct product information is available to BER assessors, Engineers and specifiers alike.

The information within this guide is fully compliant with the directive and provides everything needed to fulfil the SEAI requirements for DEAP methodology.

## DECLARATION OF CONFORMITY

### Product details

Product: Space Heater, Outdoor Unit  
Model(s): MHC-V12W/D2N8-B



### Declaration & Applicable Standards

The Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/30/EU relating to electromagnetic Compatibility. It confirms that the listed apparatus complies with all Essential requirements of the directive and is based on the technical Specifications applicable at the time of issuance. It refers only to the Particular sample submitted for testing and certification.

EN 55014-1:2017 EN55014-2:2015  
EN IEC 61000-3-2:2019 EN IEC 61000-3-11:2019  
EN 61000-3-3:2013/A1:2019 EN 61000-3-12:2011

### Issue Date – 28/05/2020

The Attestation of Conformity is issued on a voluntary basis According to Council Directive 2006/42/EC relating to machinery. It Confirms that the listed equipment (not annex IV equipment) Complies with the principal protection requirements of the directive.

EN 60335-1:2012/A2:2019  
EN 60355-2-40:2003/A13:2012  
EN 62233:2008

### Issue Date – 02/06/2020

**TUV certification available upon request.**

# TECHNICAL PARAMETERS –

## LOW TEMPERATURE APPLICATION 35 Degrees

Information requirements for heat pump space heaters and heat pump combination heaters - 813/2013

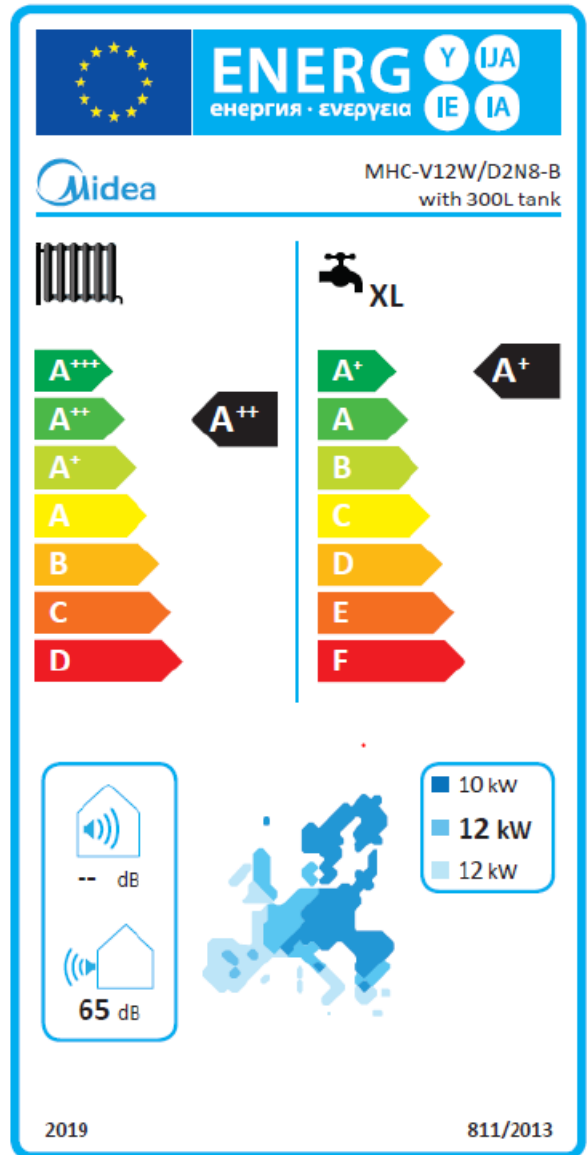
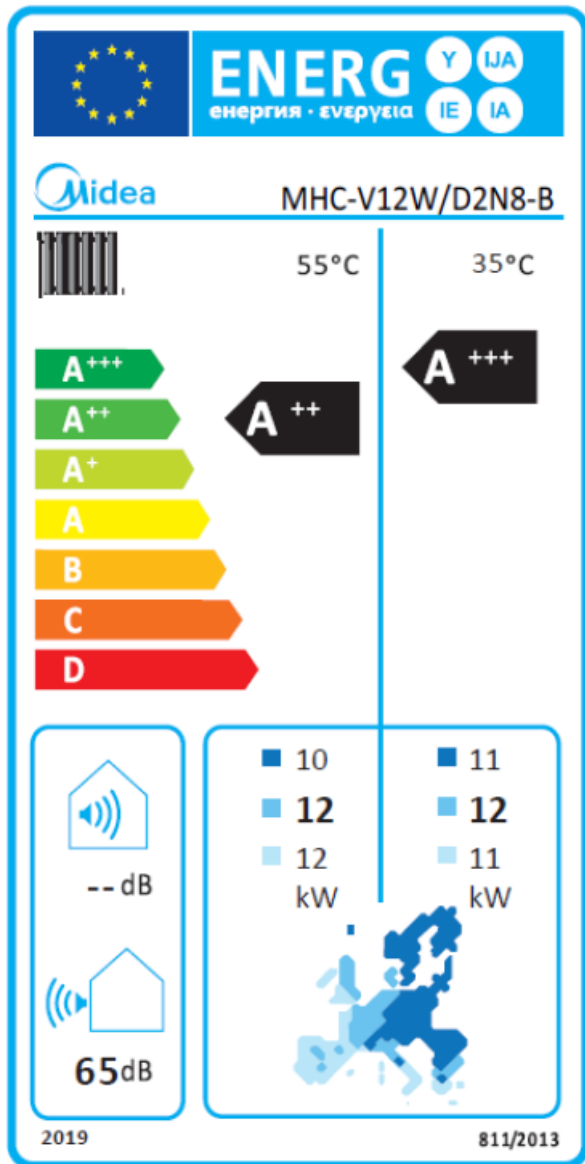
model				MHC-V12W/D2N8-B & 300LTR cylinder			
Air-to-water heat pump				Yes			
Water-to-water heat pump				No			
Brine-to-water heat pump				No			
Low-temperature heat pump				Yes			
Equipped with supplementary heater				No			
heat pump combination heater				Yes			
Parameters are declared for				Low-temperature application			
Parameters are declared for				Average climate conditions			
Item	Symbol	Value	unit	Item	Symbol	Value	unit
Rated heat output	Prated	12	KW	Seasonal Space Heating Energy Efficiency	N <sup>s</sup>	189	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	10.61	KW	Tj = -7 °C	COPd	2.88	-
Tj = +2 °C	Pdh	6.69	KW	Tj = +2 °C	COPd	4.65	-
Tj = +7 °C	Pdh	4.44	KW	Tj = +7 °C	COPd	6.62	-
Tj = +12 °C	Pdh	3.74	KW	Tj = +12 °C	COPd	8.47	-
Tj = operation limit temperature	Pdh	10.75	KW	Tj = operation limit temperature	COPd	2.77	-
Bivalent Temperature	Tbiv	-7	°C	operation limit temperature	TOL	-10	°C
Degradation co-efficient	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P off	0.014	KW	Rated heat output	Psup		KW
Thermostat-off mode	P to	0.014	KW	Type of energy input Electricity			
Standby Mode	P sb	0.024	KW				
Crankcase heater mode	P ck	0	KW				
Other modes							
Capacity control	Variable			Outdoor sound level	Lwa	64	dB
For heat pump combination heater							
Declared load profile	XL			Water heating energy Efficiency	Nwh	130	%
Primary standby heat loss	1.752	kWh/24hr		Reference hot water temperature		47.15	°C
Central Heating Pump EEI ≥ 0.21 Central Heating Pump Electricity Consumption (kwh/y) – 27 (kwh/y)				DHW volume accounted for in test		300	L

# TECHNICAL PARAMETERS – MEDIUM TEMPERATURE APPLICATION 55 Degrees

Information requirements for heat pump space heaters and heat pump combination heaters - 813/2013

model				MHC-V12W/D2N8-B & 300LTR cylinder			
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 supplementary heater				No			
heat pump combination heater				Yes			
Parameters are declared for				Medium-temperature application			
Parameters are declared for				Average climate conditions			
Item	Symbol	Value	unit	Item	Symbol	Value	unit
Rated heat output	Prated	11.58	KW	Seasonal Space Heating Energy Efficiency	N <sup>s</sup>	135	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	10.25	KW	Tj = -7 °C	COPd	2.01	-
Tj = +2 °C	Pdh	6.52	KW	Tj = +2 °C	COPd	3.44	-
Tj = +7 °C	Pdh	4.36	KW	Tj = +7 °C	COPd	4.59	-
Tj = +12 °C	Pdh	3.30	KW	Tj = +12 °C	COPd	6.05	-
Tj = operation limit temperature	Pdh	9.10	KW	Tj = operation limit temperature	COPd	1.79	-
Bivalent Temperature	Tbiv	-7	°C	operation limit temperature	TOL	-10	°C
Degradation co-efficient	Cdh	0.9	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P off	0.014	KW	Rated heat output	Psup		KW
Thermostat-off mode	P to	0.014	KW	Type of energy input Electricity			
Standby Mode	P sb	0.024	KW				
Crankcase heater mode	P ck	0	KW				
Other modes							
Capacity control	Variable			Outdoor sound level	Lwa	64	dB
For heat pump combination heater							
Declared load profile	XL			Water heating energy Efficiency	Nwh	130	%
Primary standby heat loss	1.752	kWh/24hr		Reference hot water temperature		47.15	°C
Central Heating Pump EEI ≥ 0.21 Central Heating Pump Electricity Consumption (kwh/y) – 27 (kwh/y)				DHW volume accounted for in test		300	L

# PRODUCT LABELS – HEAT PUMP SPACE HEATER





**For any queries on any information in this guide  
or if you require anymore information please contact:**

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