# The technical documentation

## 1. General description

## Models:

#### MV-C12BI2

- **2. Reference to harmonised standards:** EN 14825:2016、EN 14511-2:2013、EN 14511-3:2013、EN 12102-1:2017
- 3. Specific precautions that shall be taken when the model is assembled, installed, maintained or tested:
- 1 According to the directions of Operating Instruction Manual.
- 2 Set the guide vane of air outlet at middle position by hand to achieve maximum air volume.
- 3 Set upper guide louver at the appropriate position to achieve maximum air volume.
- 4 Press any button during the testing mode, the unit will exit the lock frequency, you need repeat the process to enter testing mode if needed!
- (5) After each test a condition, need to power off and test the next working condition!

# 4. Measured technical parameters & 5. The calculations performed with the measured parameters & 6. Testing conditions

# Information requirements

(the number of decimals in the box indicates the precision of reporting) Information to identify the model(s) to which the information relates to:

Function (indicate to which function information applies)				If function includes heating: Indicate the heating season the information relates to. Indicated values				
				should relate to one heating season at a time.				
	T			Include at least the heating season 'Average'.				
cooling Y			Average	Y				
				(mandatory)	1			
heating Y			Warmer	N				
neating	ī			(if designated)				
			Colder	N				
			(if designated)					
Item	symbol	value	uni t	Item	symbol	value	unit	
Design load				Seasonal efficiency				
cooling	Pdesign c	8.0	kW	cooling	Test SEER	6.17	_	
heating/Averag e	Pdesign h	7.2	kW	heating/Averag e	SCOP(A)	3.80	_	
heating/Warme r	Pdesign h	x,x	kW	heating/Warme r	SCOP(W	x,xx	_	
heating/Colder	Pdesign h	x,x	kW	heating/Colder	SCOP(C)	x,xx	_	

Tested capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj				Tested energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj				
Tj = 35 °C	Ptc	8.22	kW	Tj = 35 °C	EER	3.23	_	
Tj = 30 °C	Ptc	5.66	kW	Tj = 30 °C	EER	4.52	_	
Tj = 25 °C	Ptc	3.69	kW	Tj = 25 °C	EER	7.42	_	
Tj = 20 °C	Ptc	2.55	kW	Tj = 20 °C	EER	12.57	_	
Tested capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Tested coefficient of performance (*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj				
Tj = − 7 °C	Pth	6.42	kW	Tj = − 7 °C	COP	2.15	_	
Tj = 2 °C	Pth	3.85	kW	Tj = 2 °C	COP	3.94	_	
Tj = 7 °C	Pth	2.43	kW	Tj = 7 °C	COP	4.93	_	
Tj = 12 °C	Pth	1.91	kW	Tj = 12 °C	СОР	6.18	_	
Tj = bivalent temperature	Pth	6.42	kW	Tj = bivalent temperature	СОР	2.15		
Tj = operating limit	Pth	5.32	kW	Tj = operating limit	СОР	2.03	_	
Tested capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Tested coefficient of performance (*)/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				
Tj = 2 °C	Pth	x,x	kW	Tj = 2 °C	СОР	x,x	_	
Tj = 7 °C	Pth	x,x	kW	Tj = 7 °C	COP	x,x	_	
Tj = 12 °C	Pth	x,x	kW	Tj = 12 °C	COP	x,x	_	
Tj = bivalent temperature	Pth	x,x	kW	Tj = bivalent temperature	СОР	x,x	_	
Tj = operating limit	Pth	x,x	kW	Tj = operating limit	СОР	X,X	_	
Tested capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj			Tested coefficient of performance (*)/Colder season, at indoor temperature 20 °C and outdoor temperature Tj					
Tj = − 7 °C	Pth	x,x	kW	Tj = − 7 °C	СОР	x,x	_	
Tj = 2 °C	Pth	x,x	kW	Tj = 2 °C	COP	x,x	_	
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Tj = 7 °C	Pth	x,x	kW	Tj = 7 °C	COP	x,x		
Tj = 12 °C	Pth	X,X	kW	Tj = 12 °C	СОР	X,X	_	
Tj = bivalent temperature	Pth	x,x	kW	Tj = bivalent temperature	СОР	X,X	_	
Tj = operating limit	Pth	x,x	kW	Tj = operating limit	СОР	x,x	_	
Tj = - 15 °C	Pth	X,X	kW	Tj = − 15 °C	СОР	X,X	_	
Bivalent tempera	ature		•	Operating limit temperature				
heating/Averag e	Tbiv	-7	°C	heating/Averag e	Tol	-10	°C	
heating/Warme r	Tbiv	х	°C	heating/Warme r	Tol	х	°C	
heating/Colder	Tbiv	х	°C	heating/Colder	Tol	х	°C	
Power consumption of cycling				Efficiency of cycling				
cooling	Pcycc	x,x	kW	cooling	EERcyc	X,X	_	
heating	Pcych	x,x	kW	heating	COPcyc	X,X	_	
Degradation co-efficient cooling (**)	Cdc	0.25		Degradation co-efficient heating (**)	Cdh	0.25	_	
Electric power input in power modes other than 'active mode'				Seasonal electricity consumption				
off mode	P <sub>OFF</sub>	0.01117	kW	cooling	$Q_{CE}$	453.00	kWh/a	
standby mode	P <sub>SB</sub>	0.01117	IKVV	heating/Averag e	$Q_{HE}$	2648.00	kWh/a	
thermostat-off mode	P <sub>TO</sub>	0.00919/0.0237	kW	heating/Warme	Q <sub>HE</sub>	Х	kWh/a	
crankcase heater mode	P <sub>CK</sub>	0.00	kW	heating/Colder	$Q_{HE}$	Х	kWh/a	
Capacity control (indicate one of three options)				Other items				
fixed	N			Sound power level (indoor/outdoor )	LWA	57/68	dB(A)	
staged	N			Global warming potential	GWP	675	kgCO 2 eq.	

variable		Rated air flow (indoor/outdoor)	_	560/560/560/400	m³/h
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