

### Obezbedite udobnost i komfor

### Provide comfort

Jedinica / Unit 16kW, 20kW, 26kW

Jedinica / Unit 9kW, 13kW



monofazna / trofazna single-phase / three-phase



# EVI tehnologija EVI technology

EVI je skraćenica za "Enhanced Vapor Injection" i predstavlja tehnologiju koja se koristi na našim niskotemperaturnim toplotnim pumpama za postizanje većih performansi na nižim temperaturama do -25°C. Sa EVI tehnologijom i inverterskim kompresorom, Mikoterm toplotne pumpe mogu da rade stabilno i da ostvare visoku efikasnost.

EVI stands for "Enhanced Vapor Injection" and is a technology used on our low-temperature heat pumps to achieve higher performance at lower temperatures as down as -25°C. With EVI technology and inverter compressor, the Mikoterm heat pumps can work stably and achieve high efficiency.



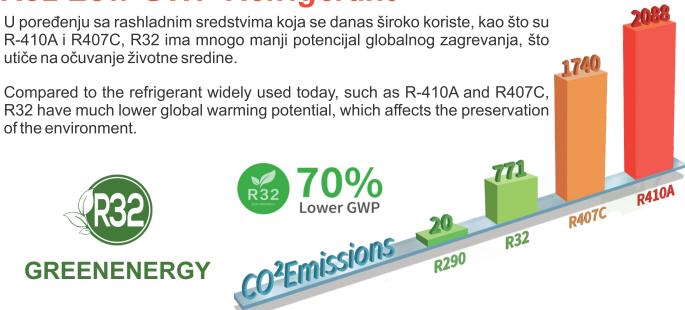
# MIKOTERM

### Zagarantovana bezbednost Guaranteed Safety

Rashladno sredstvo R32 se smatra ekološki prihvatljivim, ali nepravilno rukovanje i skladištenje mogu dovesti do potencijalnih bezbednosnih problema. Sve ovo se može izbeći korišćenjem Mikoterm toplotne pumpe R32 DC inverter, jer su dizajnirane sa sigurnosnim merama koje garantuju bezbednost.

The refrigerant R32 is considered to be environmentally friendly, but improper handling and storage might lead to potential safety issues. All of this can be avoided by using the Mikoterm heat pump R32 DC inverter since they are designed with safety measures to guarantee security.

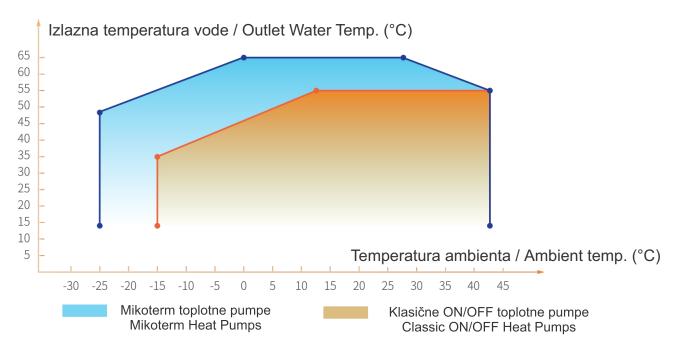
# R32 sa niskim GWP R32 Low GWP Refrigerant



# Širi opseg rada Wider Running Range

Zahvaljujući inverteru i EVI tehnologiji, Mikoterm toplotne pumpe imaju širok raspon radnih temperatura za grejanje, hlađenje i toplu vodu za domaćinstvo. Može da dostigne visoku temperaturu vode u hladnom okruženju i stabilno radi na temperaturama okoline do -25°C.

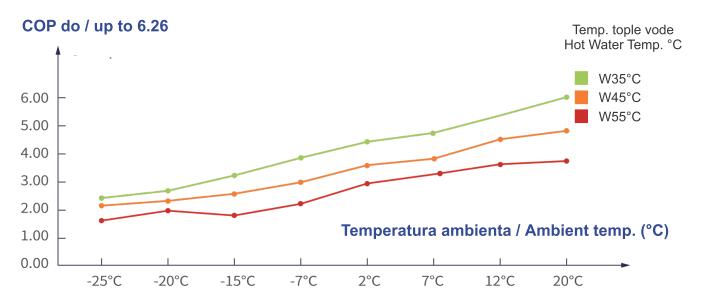
Thanks to the inverter and EVI technology, the Mikoterm Heat Pumps features a wide operating temperature range to provide space heating, cooling, and domestic hot water. It can reach the high water temperature in a cold climate and work stably at ambient temperatures as low -25°C.



## Povećana efikasnost Increased efficiency

Sa maksimalnim COP-om od 6.26 i ErP ocenom A+++, Mikoterm EVI DC inverterska toplotna pumpa troši manje energije i stoga pomaže potrošačima da smanje račune za grejanje.

With a maximum COP of 6.26 and an ErP rating of A+++, the Mikoterm EVI DC inverter heat pump consumes less energy and therefore helps consumers reduce heating bills.



# IoT Funkcija IoT Function



Upravljajte svojom pumpom preko Eco-Home aplikacije Control your pump via the Eco-Home app

Uz pomoć loT funkcije, servis ima mogućnost daljinske dijagnostike i kontrole.

With the help of the IoT function, the service has the possibility of remote diagnostics and control.



Kontrolišite sve jedinice preko ehome aplikacije

Controlling all units from E-home



Daljinsko uključivanje/isključivanje

Turn ON/OFF remotely



Izbor režima rada

Select working modes





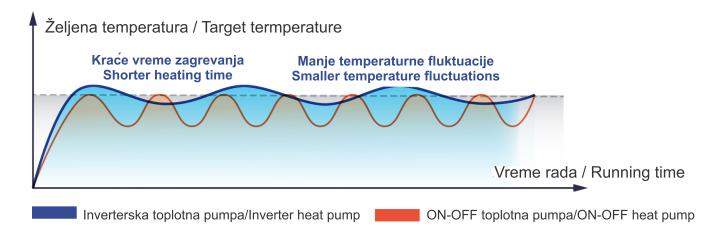




# Potpuna DC inverter tehnologija Full DC Inverter technology

Mikoterm toplotna pumpa kombinuje potpuni DC inverter sa dvostrukim rotacionim kompresorom sa inverterskim motorom bez četkica, tako da jedinica može automatski da cilja temperaturu, kako bi korisnicima pružila maksimalnu udobnost uz najniže troškove.

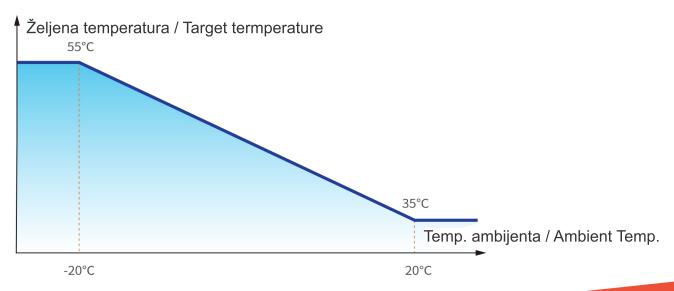
The Mikoterm heat pump combines a full DC inverter twin-rotary compressor with an inverter brushless motor, so the unit can target temperature automatically, to bring users maximum comfort at the lowest costs.



# Inteligentno podešavanje temperature vode Intelligent Water Temperature Adjustment

Jedinstvena logika upravljanja omogućava Mikoterm toplotnim pumpama da inteligentno podese temperaturu izlazne vode, u skladu sa temperaturom okoline u realnom vremenu. Zbog toga toplotna pumpa može da greje, hladi i obezbeđuje toplu vodu za domaćinstvo na konstantnoj temperaturi.

The unique control logic enables Mikoterm to adjust the outlet water temperature intelligently, according to the real-time ambient temperature. Therefore, the heat pump can deliver, cooling, and domestic hot water at a constant temperature.



# LCD ekran u boji - na dodir Color LCD Display - Touch

Upravljanje Mikoterm toplotnim pumpama je veoma jednostavno i intuitivno, putem LCD kontrolera u boji od 4 inča, sa touch screen osetljivim ekranom.

Praćenje osnovnih i naprednih parametara, biranje režima rada (grejanje, hlađenje, AI, sanitarna voda), kaskadno umrežavanje (nisu potrebni nikakvni dodatni moduli), povezivanje putem WiFi mreže na jednostavan način i mnoge druge opcije su na rapolaganju korisniku.

Management of Mikoterm heat pumps is very simple and intuitive, through a 4-inch color LCD controller with a touch screen.

Monitoring of basic and advanced parameters, selection of operating modes (heating, cooling, AI, sanitary water), cascade conneting (no additional modules are required), connection via WiFi network in a simple way and many other options are available to the user.



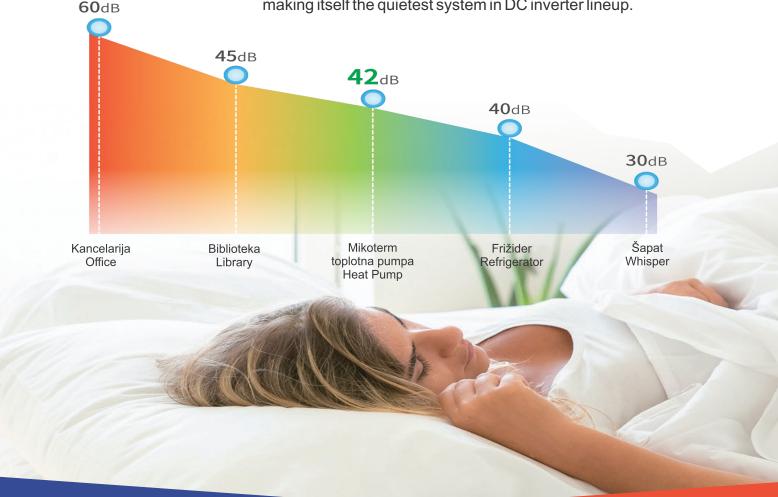
www.mikoterm.com

### Nizak nivo buke Low Noise

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Pored DC invertera bez četkica, Mikoterm EVI toplotna pumpa koristi pojačane mere smanjenja zvuka kao što je dvostruka apsorpcija udara kompresora poznatog brenda. Nivoi zvuka počinju od 42 dB(A), što ga čini najtišim sistemom u liniji DC invertera.

In addition to brushless DC inverter, the Mikoterm EVI heat pump adopts reinforced sound reduction measures such as the dual shock absorption by the famous-brand compressor. The sound levels start as low as 42dB(A), making itself the quietest system in DC inverter lineup.



### Karakteristike / Characteristics

Max. Running Current/Maks. struja (A) 27.8(14.1+13.7) 33.7(20+13.7) 20.6(11.5+9.1) 21.8(12.7+9.1) 28.6(19.5+9.1)	MODEL	mHP09M/02 mHP09T/02	mHP13M/02 mHP13T/02	mHP16T/02	mHP20T/02	mHP26T/02				
Power Input / Ulazna snaga (kW)	[Space Heating/Grejanje prostora] Ambient Temp./Temp. ambijenta (	DB/WB): 7°C/6°C,	Water Temp./Ten	np vode (Inlet-ula	z/Outlet-izlaz): 3	0°C/35°C				
COF/Koefficient iskoriśćenja         6.11"4.48         6.08"4.53         5.94"4.06         5.89"4.19         5.85"4.17           Space Heating/Grejanje prostora] Ambient Temp,/Temp. ambijenta (WWB): 7"C/6"C-Weter Temp,/Tem-Vede (Indext-User-User-User-User-User-User-User-User	Max Heating Capacity/Max kapacitet grejanja (kW)	2.32~9.13	4.32~13.15	4.81~15.88	6.36~20.49	8.54~26.08				
Space Heading/Grejanje prostoral Ambient Temp./Temp. ambijental (DB/WB): "************************************	Power Input /Ulazna snaga (kW)	0.38~2.04	0.71~2.90	0.81~3.91	1.08~4.89	1.46~6.26				
Max Heating Capacity/Max kapacitet grejanja (kW)   0.43"-2.92   0.87"-4.26   1.03"-5.92   0.89"7.13   1.04"9.62	COP/Koeficijent iskorišćenja	6.11~4.48	6.08~4.53	5.94~4.06	5.89~4.19	5.85~4.17				
Power Input / Ulazna snaga (kW)	[Space Heating/Grejanje prostora] Ambient Temp./Temp. ambijenta (	DB/WB): 7°C/6°C,	Water Temp./Ten	np vode (Inlet-ula	z/Outlet-izlaz):50	D°C/55°C.				
COP/Koeffcijent iskoriščenja   A.21'2.86	Max Heating Capacity/Max kapacitet grejanja (kW)	1.81~8.35	3.63~11.91	3.90~15.99	3.41~18.8	4.67~25.9				
Space Cooling/Haldjenje prostora] Ambient Temp, /Temp, ambijenta (DB/WB): 35°C / - Vater Temp, /Temp vode (Inlet-uiz/Outlet-izlaz): 12°C/T°C.   Max Heating Capacity/Max kapacitet grejanja (kW)   1.43°T.93   4.66°9.52   2.63°13.66   3.31°17.4   4.37°21.4     Power Input / Ulazna snaga (kW)   0.32°C.48   1.05°3.62   0.59°4.81   0.76°6.14   1.02°7.32     EER/Koeficijent energetske efikasnosti   4.47°3.20   3.87°C.63   4.46°C.84   4.36°C.83   4.26°C.92     Hot Water/Topla voda] Ambient Temp, /Temp, ambijenta (DB/WB): 20°C/15°C, Water Temp, rfrom/Temp. vode od 15°C to25°S°C     Max Heating Capacity/Maks. kapacitet grejanja (kW)   10.31   12.86   16.81   23.97   26.98     Power Input / Ulazna snaga (kW)   2.43   3.01   3.94   5.65   6.47     COP/Koeficijent iskorišćenja   4.25   4.27   4.27   4.27   4.24   4.71     Electric Heater Rated Input/Snaga el. grejača (kW)   2.8(1.31+3)   7.4(4.4+3)   1.56(6.6+9)   1.53(7.5	Power Input /Ulazna snaga (kW)	0.43~2.92	0.87~4.26	1.03~5.92	0.89~7.13	1.04~9.62				
Max Heating Capacity/Max kapacitet grejanja (kW)         1,43-7,93         4,06-9,52         2,63-13,66         3,31*17.4         4,37*21.4           Power Input / Ulazna snaga (kW)         0,32*2,48         1,05*3,62         0,59*4,81         0,76*6,14         1,02*7,32           EER/Koeficijent energetske efikasnosti         4,47*3,20         3,87*2,63         4,46*2,84         4,36*2,83         4,28*2,92           Hot Water/Topla vodaj Ambient Temp, Temp, ambijenta (DB/WB); 20**C/15**C, Water **Temp.**temp	COP/Koeficijent iskorišćenja	4.21~2.86	4.17~2.80	3.79~2.70	3.83~2.64	4.49~2.69				
Power Input / Vlazna snaga (kW)         0.32*2*.48         1.05*3,62         0.59*4.81         0.76*6,14         1.02*7.32           EER/Koeficijent energetske efikasnosti         4.47*3.20         3.87*2.63         4.46*2.84         4.36*2.83         4.28*2.92           [Hot Water/Topla voda] Ambient Temp, /Temp, ambijenta (DB/WB): 20*C/15*C, Water Temp, from/Temp, vode od 15*C to/5*C*C         5*C**C**         5**C**C**           Max Heating Capacitry/Maks, kapacitet grejanja (kW)         10.31         12.86         16.81         23.97         26.98           Power Input / Ulazna snaga (kW)         2.43         3.01         3.94         5.65         6.47           COP/Koeficijent iskorišćenja         4.25         4.27         4.27         4.24         4.17           Electric Heater Rated Input/Snaga el. grejača (kW)         3         3/6/9*C**         9.6(6-63)         15.675,919         15.115-81           Max. Power Input/Maksimalna snaga (kW)         6.1(3.1+3)         7.4(4.4+3)         1.26(6-64)         15.675-99         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-59         25.115-13.73         26.6(12-7+13.7)         33.2(10-51-13.7)	[Space Cooling/Hladjenje prostora] Ambient Temp./Temp. ambijenta	 (DB/WB): 35°C / -	·, Water Temp./Te	mp vode (Inlet-ula	⊥ az/Outlet-izlaz): :	L2°C/7°C.				
EBR/Koeficijent energetske efikasnosti	Max Heating Capacity/Max kapacitet grejanja (kW)	1.43~7.93	4.06~9.52	2.63~13.66	3.31~17.4	4.37~21.4				
Hot Water/Topla voda  Ambient Temp./Temp. ambijenta (DB/WB): 20*C/15*C, Water Temp. from/Temp. vode od 15*C to/dc-55*C	Power Input /Ulazna snaga (kW)	0.32~2.48	1.05~3.62	0.59~4.81	0.76~6.14	1.02~7.32				
Max Heating Capacity/Maks. kapacitet grejanja (kW)         10.31         12.86         16.81         23.97         26.98           Power Input //Ulazna snaga (kW)         2.43         3.01         3.94         5.65         6.47           COP/Koeficijent iskoriščenja         4.25         4.27         4.27         4.24         4.17           Electric Heater Rated Input/Snaga el. grejača (kW)         3         3/6/9 (podesivo/adjustable)           Max. Power Input/Maksimalna snaga (kW)         6.1(3.1+3)         7.4(4.4+3)         1.5(15.66.6+6)         1.5(15.5+3)         1.5(15.5+3)         1.7(11.5+6)         1.7(11.5+6)         1.5(15.5+6)         1.5(15.5+6)         2.5(11.5+3)         1.7(11.5+6)         1.5(15.5+1)         1.5(15.5+6)         1.5(15.5+6)<	EER/Koeficijent energetske efikasnosti	4.47~3.20	3.87~2.63	4.46~2.84	4.36~2.83	4.28~2.92				
Power Input /Ulazna snaga (kW)         2.43         3.01         3.94         5.65         6.47           COP/Koeficijent iskorišćenja         4.25         4.27         4.27         4.24         4.17           Electric Heater Rated Input/Snaga el. grejača (kW)         3         3/6/9 (podesivo/adjustable)           Max. Power Input/Maksimalna snaga (kW)         6.1(3.1+3)         7.4(4.4+3)         1.6(6.6+3) (1.5(6.6+6) (1.5(5.75+3) (1.5(1.5+3) (1.5(1.5+6) (1.5(7.5+9) (1	[Hot Water/Topla voda] Ambient Temp./Temp. ambijenta (DB/WB): 2	⊥ 0°C/15°C, Water 1	∟ ſemp. from/Temp.	vode od 15°C to/	 ′do 55°C					
COP/Koeficijent iskorišćenja   A.25   A.27   A.27   A.24   A.17	Max Heating Capacity/Maks. kapacitet grejanja (kW)	10.31	12.86	16.81	23.97	26.98				
Electric Heater Rated Input/Snaga el. grejača (kW)  Amx. Power Input/Maksimalna snaga (kW)  6.1(3.1+3)  7.4(4.4+3)  7.4(4.4+3)  7.4(4.4+3)  9.6(6.6+3) 11.5(7.5+3) 13.5(7.5+6) 13.5(7.5+9) 13.5(7.5+9) 13.5(7.5+9) 13.5(7.5+9) 17.5(11.5+3) 17	Power Input /Ulazna snaga (kW)	2.43	3.01	3.94	5.65	6.47				
Max. Power Input/Maksimalna snaga (kW)       6.1(3.1+3)       7.4(4.4+3)       9.5(6.6+3)   10.5(7.5+3)   13.5(7.5+6)   13.5(7.5+6)   13.5(7.5+6)   13.5(7.5+6)   15.5(6.6+9)   15.5(6.6+9)   15.5(6.6+9)   15.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(7.5+9)   10.5(11.5+9)   10	COP/Koeficijent iskorišćenja	4.25	4.27	4.27	4.17					
Max. Power Input/Maksimalna snaga (kW)         6.1(3.1+3)         7.4(4.4+3)         12.6(6.6+6)         13.5(7.5+6)         17.5(1.5+6)         20.5(11.5+9)         20.5(11.5+9)         15.6(6.6+9)         13.5(7.5+6)         13.5(7.5+6)         17.5(1.5+9)         20.5(11.5+9)         20.5(11.5+9)         13.5(7.5+6)         13.5(7.5+6)         13.5(7.5+6)         20.5(11.5+9)         20.5(11.5+9)         25.2(11.5+13.7)         25.2(11.5+13.7)         23.2(19.5+13.7)         23.2(19.5+13.7)         23.2(19.5+13.7)         23.2(19.5+13.7)         23.2(19.5+13.7)         22.0(11.5+9)         22.0(11.5+9)         23.2(11.5+13.7)         22.0(41.27+13.7)         23.2(19.5+13.7)         22.0(41.27+13.7)         23.2(19.5+13.7)	Electric Heater Rated Input/Snaga el. grejača (kW)	;	3	3/6/9	(podesivo/adjus	table)				
Max. Running Current/Maks. struja (A)         27.8[14.1+13.7]         33.7(20+13.7)         20.6[11.5+9.1]         21.8[12.7+9.1]         28.6[19.5+9.1]           Max. Outlet Water Temp./Maks. temp. vode na izlazu (°C)         50           Operation Range/Radni opseg temperature (°C)         220-24√/50Hz         38√415√/3N*/50Hz         38√415√/3N*/50Hz           Power Supply/Napajanje (V/Ph/Hz)         220-24√/50Hz         380*415√/3N*/50Hz         38√415√/3N*/50Hz           Rated Water Flow/Nazivni protok vode (m³/h)         1.6         2.1         2.7         3.4         4.4           Compressor Brand/Marka kompresora         Panasonic/Mitsubishi         Mitsubishi         5         5           Circulating Pump Brand/Marka cirkulacione pumpe         5         5         4++         5           ErP Level/Stepen energetske efikasnosti (35°C)         34++         4++	Max. Power Input/Maksimalna snaga (kW)	6.1(3.1+3)	7.4(4.4+3)	12.6(6.6+6)	13.5(7.5+6)	17.5(11.5+6)				
Operation Range/Radni opseg temperature (°C)         -25 ~ 43           Power Supply/Napajanje (V/Ph/Hz)         220-24∪V~/50Hz 380~415V/3N~/50Hz         127         3.4         4.4           Compressor Brand/Marka kompresora         Panasonic/Mitsubishi         Mitsubishi         Mitsubishi         Shinhoo         5         5         EPP Level/Steppa Parad/Marka cirkulacione pumpe         5         5         5         5         EPP Level/Steppa Parad/Marka cirkulacione pumpe         5         5         EPP Level/Steppa Parad/Marka cirkulacione pumpe         5         A+++         EPP Level/Steppa Parad/Marka cirkulacione pumpe         A+++         <	Max. Running Current/Maks. struja (A)	27.8(14.1+13.7)	33.7(20+13.7)	20.6(11.5+9.1)	21.8(12.7+9.1)	33.2(19.5+13.7) 28.6(19.5+9.1) 33.2(19.5+13.7)				
Power Supply/Napajanje (V/Ph/Hz)         220-240V*/50Hz 380*415V/3N*/ 50Hz         380*415V/3N*/ 50Hz           Rated Water Flow/Nazivni protok vode (m³/h)         1.6         2.1         2.7         3.4         4.4           Compressor Brand/Marka kompresora         Panasonic/Mitsubishi         Mitsubishi         Mitsubishi           Circulating Pump Brand/Marka cirkulacione pumpe         Shinhoo           Expansion Tank/Ekspanziona posuda (L)         2         5           ErP Level/Stepen energetske efikasnosti (35°C)         A+++           ErP Level/Stepen energetske efikasnosti (55°C)         A++           Amount of R32 gas in the unit (kg)/Količina R32 gasa u jedinici (kg)         1,3         1,6         2,3         2,67         3,05           Sound Pressure Level at 1m/Nivo zvučnog pritiska na 1m (dB(A))         43°54         43°55         44°55         45°58         46°59           Water Pipe Connection/Hidraulični priključak (inch)         G1 1/4"           Cable cross section/Presek kabla         3x6mm²/ 5x2,5mm² 5x2,5mm² 5x2,5mm² 5x4mm² 5x4mm² 5x4mm² 5x6mm²         5x4mm² 5x2,5mm² 5x2	Max. Outlet Water Temp./Maks. temp. vode na izlazu (°C)		ļ	60	!	1				
Rated Water Flow/Nazivni protok vode (m³/h)   1.6   2.1   2.7   3.4   4.4	Operation Range/Radni opseg temperature (°C)									
Compressor Brand/Marka kompresora Panasonic/Mitsubishi Mitsubishi Circulating Pump Brand/Marka cirkulacione pumpe Expansion Tank/Ekspanziona posuda (L)  ErP Level/Stepen energetske efikasnosti (35°C)  A+++  ErP Level/Stepen energetske efikasnosti (55°C)  Amount of R32 gas in the unit (kg)/Količina R32 gasa u jedinici (kg)  Sound Pressure Level at 1m/Nivo zvučnog pritiska na 1m (dB(A))  Water Pipe Connection/Hidraulični priključak (inch)  Cable cross section/Presek kabla  3x6mm²/ 5x1,5mm² 3x6mm²/ 5x2,5mm² 5x4mm² 5x4mm² 5x4mm² 5x6mm² Fuse/Osigurač  40(A)/25(A)  40(A)/25(A)  Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)  Mitsubishi  Mitsubishi  Mitsubishi  Mitsubishi  Mitsubishi  Mitsubishi  Mitsubishi  Mitsubishi  Mitsubishi  Alexa  Shinhoo   5  A+++  A++  A++  A++  ErP Level/Stepen energetske efikasnosti (35°C)  A+++  A++  A++  ErP Level/Stepen energetske efikasnosti (35°C)  A++  ErP Level/Stepen energetske efikasnosti (35°C)  A++  A++  ErP Level/Stepen energetske efikasnosti (35°C)  A++	Power Supply/Napajanje (V/Ph/Hz)		•	38	80~415V/3N~/ 50	Hz				
Circulating Pump Brand/Marka cirkulacione pumpe  Expansion Tank/Ekspanziona posuda (L)  ErP Level/Stepen energetske efikasnosti (35°C)  A+++  ErP Level/Stepen energetske efikasnosti (55°C)  Amount of R32 gas in the unit (kg)/Količina R32 gasa u jedinici (kg)  Sound Pressure Level at 1m/Nivo zvučnog pritiska na 1m (dB(A))  Water Pipe Connection/Hidraulični priključak (inch)  Cable cross section/Presek kabla  3x6mm²/ 5x1,5mm² 3x6mm²/ 5x2,5mm² 5x4mm² 5x4mm² 5x6mm² Fuse/Osigurač  40(A)/25(A)  40(A)/25(A)  32(A)  32(A)  40(A)  Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)	Rated Water Flow/Nazivni protok vode (m³/h)	1.6	2.1	2.7	3.4	4.4				
Expansion Tank/Ekspanziona posuda (L)  ErP Level/Stepen energetske efikasnosti (35°C)  A+++  ErP Level/Stepen energetske efikasnosti (55°C)  A++  Amount of R32 gas in the unit (kg)/Količina R32 gasa u jedinici (kg)  Sound Pressure Level at 1m/Nivo zvučnog pritiska na 1m (dB(A))  Water Pipe Connection/Hidraulični priključak (inch)  Cable cross section/Presek kabla  3x6mm²/ 5x1,5mm² 3x6mm²/ 5x2,5mm² 5x4mm² 5x4mm² 5x4mm² 5x6mm² Fuse/Osigurač  40(A)/25(A)  40(A)/25(A)  32(A)  32(A)  40(A)  Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)	Compressor Brand/Marka kompresora	Panasonic,	/Mitsubishi		Mitsubishi					
ErP Level/Stepen energetske efikasnosti (35°C)  A+++  ErP Level/Stepen energetske efikasnosti (55°C)  A++  Amount of R32 gas in the unit (kg)/Količina R32 gasa u jedinici (kg)  Sound Pressure Level at 1m/Nivo zvučnog pritiska na 1m (dB(A))  Water Pipe Connection/Hidraulični priključak (inch)  Cable cross section/Presek kabla  Sx6mm²/ 5x1,5mm²  Sx2,5mm²  Fuse/Osigurač  40(A)/25(A)  A+++  A++  A++  A++  A++  A++  A++	Circulating Pump Brand/Marka cirkulacione pumpe			Shinhoo						
ErP Level/Stepen energetske efikasnosti (55°C)       A++         Amount of R32 gas in the unit (kg)/Količina R32 gasa u jedinici (kg)       1,3       1,6       2,3       2,67       3,05         Sound Pressure Level at 1m/Nivo zvučnog pritiska na 1m (dB(A))       43~54       43~55       44~55       45~58       46~59         Water Pipe Connection/Hidraulični priključak (inch)       GI 1/4"         Cable cross section/Presek kabla       3x6mm²/5x1,5mm²       5x4mm²       5x4mm²       5x6mm²         Fuse/Osigurač       40(A)/25(A)       40(A)/25(A)       32(A)       32(A)       40(A)         Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)       1263 × 440 × 875       1263 × 440 × 1377	Expansion Tank/Ekspanziona posuda (L)	2 5								
Amount of R32 gas in the unit (kg)/Količina R32 gasa u jedinici (kg)       1,3       1,6       2,3       2,67       3,05         Sound Pressure Level at 1m/Nivo zvučnog pritiska na 1m (dB(A))       43~54       43~55       44~55       45~58       46~59         Water Pipe Connection/Hidraulični priključak (inch)       G1 1/4"         Cable cross section/Presek kabla       3x6mm²/ 5x1,5mm²       5x4mm²       5x4mm²       5x6mm²         Fuse/Osigurač       40(A)/25(A)       40(A)/25(A)       32(A)       32(A)       40(A)         Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)       1263 × 440 × 875       1263 × 440 × 1377	ErP Level/Stepen energetske efikasnosti (35°C)			A+++						
Sound Pressure Level at 1m/Nivo zvučnog pritiska na 1m (dB(A))       43~54       43~55       44~55       45~58       46~59         Water Pipe Connection/Hidraulični priključak (inch)       G1 1/4"         Cable cross section/Presek kabla       3x6mm²/5x1,5mm²       3x6mm²/5x2,5mm²       5x4mm²       5x4mm²       5x6mm²         Fuse/Osigurač       40(A)/25(A)       40(A)/25(A)       32(A)       32(A)       40(A)         Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)       1263 × 440 × 875       1263 × 440 × 1377	ErP Level/Stepen energetske efikasnosti (55°C)			A++						
Water Pipe Connection/Hidraulični priključak (inch)         G1 1/4"           Cable cross section/Presek kabla         3x6mm²/ 5x1,5mm²         3x6mm²/ 5x2,5mm²         5x4mm²         5x4mm²         5x6mm²           Fuse/Osigurač         40(A)/25(A)         40(A)/25(A)         32(A)         32(A)         40(A)           Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)         1263 × 440 × 875         1263 × 440 × 1377	Amount of R32 gas in the unit (kg)/Količina R32 gasa u jedinici (kg)	1,3	1,6	2,3	2,67	3,05				
Cable cross section/Presek kabla         3x6mm²/ 5x1,5mm²         3x6mm²/ 5x2,5mm²         5x4mm²         5x4mm²         5x6mm²           Fuse/Osigurač         40(A)/25(A)         40(A)/25(A)         32(A)         32(A)         40(A)           Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)         1263 × 440 × 875         1263 × 440 × 1377	Sound Pressure Level at 1m/Nivo zvučnog pritiska na 1m (dB(A))	43~54	43~55	44~55	45~58	46~59				
Fuse/Osigurač         5x1,5mm²         5x2,5mm²         5x4mm²         5x4mm²         5x6mm²           Fuse/Osigurač         40(A)/25(A)         40(A)/25(A)         32(A)         32(A)         40(A)           Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)         1263 × 440 × 875         1263 × 440 × 1377	Water Pipe Connection/Hidraulični priključak (inch)			G1 1/4"						
Dimensions (L×W×H)/Dimenzije (D׊×V) (mm) 1263 × 440 × 875 1263 × 440 × 1377	Cable cross section/Presek kabla	-		5x4mm²	5x4mm²	5x6mm²				
	Fuse/Osigurač	40(A)/25(A) 40(A)/25(A)		32(A)	32(A)	32(A) 40(A)				
Net unit weight (kg)/Masa jedinice neto (kg)         107         111         120         135         140	Dimensions (L×W×H)/Dimenzije (D׊×V) (mm)	1263 ×	440 × 875	1	263 × 440 × 1377	,				
	Net unit weight (kg)/Masa jedinice neto (kg)	107	111	120	135	140				

Monofazna struja / Single-phase current T Trofazna struja / Three-phase current

**VENTILATOR SA DC MOTOROM** 

Motor ventilatora bez četkica obezbeđuje visoku efikasnost i nizak nivo buke

**FAN WITH A DC MOTOR** 

Brushless fan motor provides high efficiency and low noise level

SPECIJALNI SLOJ ZAŠTITE POVRŠINA Omogućava brzo i pravilno odmrzavanje

HYDROPHILIC STEAMER SUR-FACE Provides quick and correct defrosting

UNUTRAŠNJE SPIRALNO OREBRENJE CEVI

Značajno povećava efikasnost\_ grejanja

RIBBED STEAMER PIPES WITH A SPIRAL INNER STRUCTURE

Considerably increases heating efficiency



INTEGRISANI TERMINALNI BLOK Obezbeđuje brzo povezivanje kablova za napajanje

INTEGRATED TERMINAL BLOCK
Assures quick connection of supply cords

UGRAĐEN ELEKTRIČNI GREJAČ Pruža podršku i zaštitu od ekstremno niskih temperatura

BUILT-IN ELECTRIC HEATER
Provides support and protection from
extremely low temperatures

PAMUČNA ZAŠTITNA MREŽICA Dodatno smanjenje buke pri radu

COTTON RITECTIVE MESH
Additional reduction of operation noise

### Komponente / Components



Inverter kompresor Inverter Compresor Panasonic-Mitsubishi



DC inverter motor bez četkica Brushless DC Inverter motor



Pametna Wi-Fi kontrola Smart Wi-Fi Control



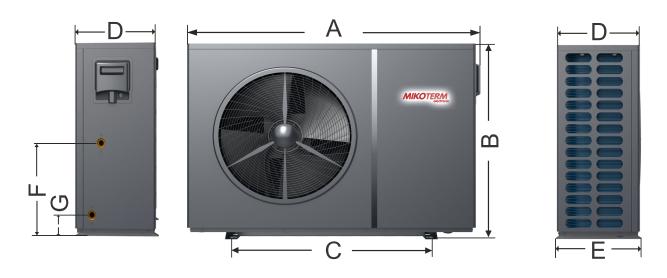
Jedinstvena zaštita ventilatora Unique Fan Guard



4-inčni ekran osetljiv na dodir 4-inch Touch Screen Display

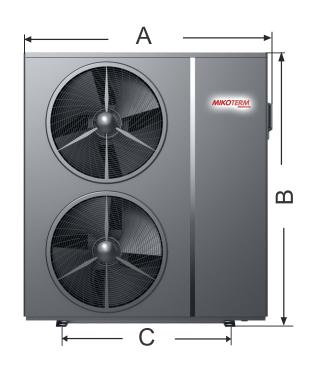


Dizajn skrivenih vijaka Hidden Screw Design



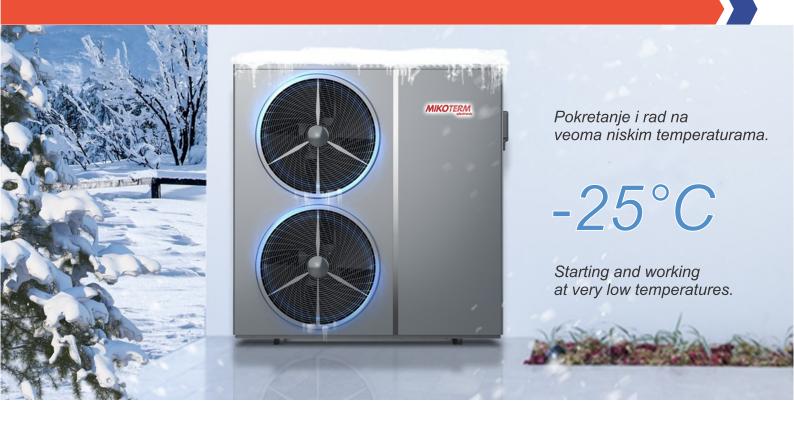
Model	Α	В	С	D	Е	F	G
mHP09M/02							
mHP09T/02	1263	875	848	410	440	429	109
mHP13M/02	1203	073	040	710	770	723	103
mHP13T/02							







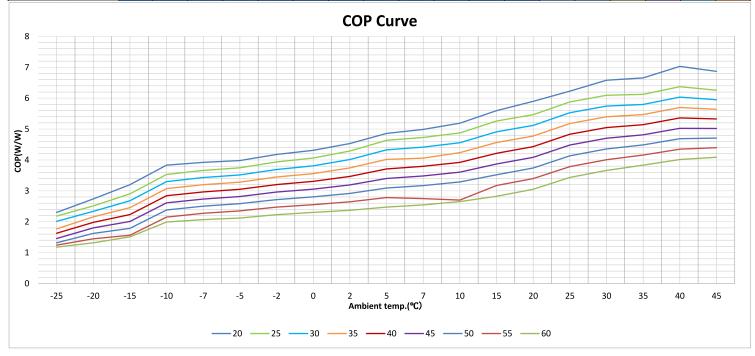
Model	А	В	С	D	E	F	G
mHP16T/02							
mHP20T/02	1263	1377	848	410	440	173	722
mHP26T/02							



### **COP do / up to 6.26**

Zadržavanje visokog COP-a na niskim temperaturama. Minimalna radna temperatura -25°C Retention of high COP at low temperatures. Minimum working temperature -25°C

		90Hz		85Hz		80Hz			75Hz		70Hz		65Hz		60Hz		55Hz	
Ambient (℃) Outlet (℃)	-25	-20	-15	-10	-7	-5	-2	0	2	5	7	10	15	20	25	30	35	40
30	1.89	2.60	2.86	3.27	3.57	3.76	4.09	4.31	4.52	4.80	5.01	5.16	5.76	6.18	6.59	6.92	7.37	7.82
35	1.72	2.32	2.57	2.87	3.14	3.35	3.47	3.55	3.79	4.15	4.53	4.69	5.16	5.57	5.96	6.22	6.67	7.11
40	1.55	2.05	2.32	2.67	2.91	3.05	3.17	3.25	3.41	3.65	3.92	4.15	4.57	5.07	5.33	5.57	5.87	6.27
45	1.44	1.85	2.12	2.52	2.61	2.75	2.87	2.95	3.07	3.25	3.61	3.87	4.23	4.62	4.83	5.07	5.37	5.69
50	1.32	1.67	1.88	2.07	2.19	2.35	2.52	2.64	2.76	2.85	3.12	3.37	3.77	4.06	4.27	4.45	4.77	4.99
55	1.24	1.46	1.63	1.75	1.82	1.90	1.99	2.05	2.17	2.35	2.80	2.75	3.22	3.51	3.77	3.96	4.07	4.30
60	1.07	1.35	1 48	1 62	1 71	1 78	1 85	1 89	1.96	2 03	2 27	2 44	2 84	3 02	3.28	3 52	3 67	4 01

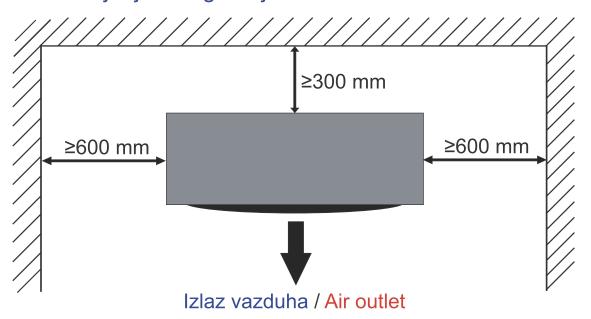


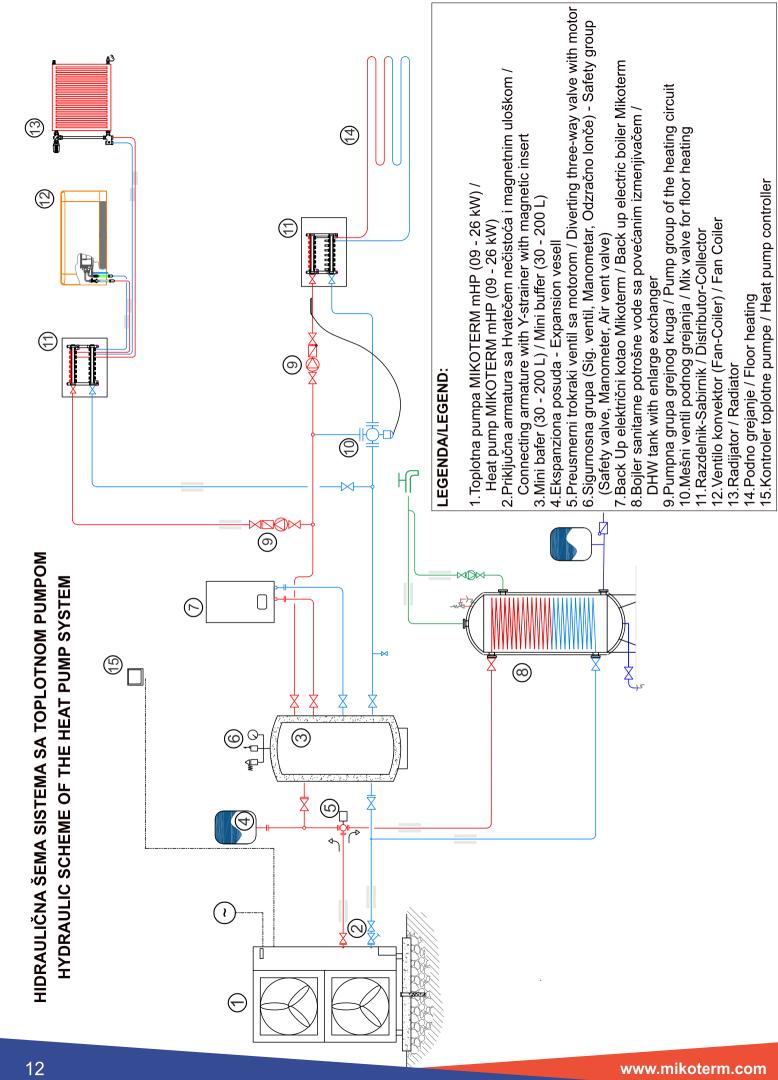
### **Primer/example:**

Temp. ambienta/ambient temp. -7°C, temp. vode u sistemu / temp.water in system 35°C, COP 3,2 Temp. ambienta/ambient temp. 7°C, temp. vode u sistemu / temp.water in system 35°C, COP 4,1



### Rastojanja za ugradnju / Distances for installation





### Beleške / Notes



00381 18 45 42 002 / 41 56 900 / 41 56 901 office@mikoterm.com / prodaja@mikoterm.com Proizvođač zadržava pravo svake promene nad proizvodima/

The manufacturer reserves the right to make any changes to the products









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