

Vertical All DC Inverter Pool Heat Pump

Poolseidon

Uique Design

Slide Design Controller

Ready For -20℃

SCOP 8.4

Class A

Environmental Sustainable Governance

Achieving Carbon Neutrality With Refrigerant 290

GWP=0.02
Lower global warming impact

ODP=0
Ozone layer neutral

Outstanding Refrigerant Properties

- Superior thermodynamic performance
- High thermal efficiency in a variety of conditions
- Requires less charging compared to other types of refrigerants

R290 VS R410A

99.86% LESS GWP VALUE
99.96% LESS CO_2 EMISSION

The R290 refrigerant has a very low global warming potential (GWP=0.02) and zero ozone depletion potential (ODP), which is highly energy efficient and suitable for scenarios with high environmental requirements.



Innovative Design:
Aesthetically Enhanced & Functionally Optimized



Cooling & Heating operation, Standby mode and Pump mode



Reach set temperature

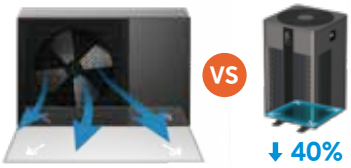


Malfunction



Slide design and built-in controller

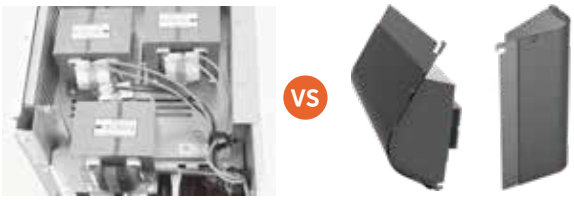




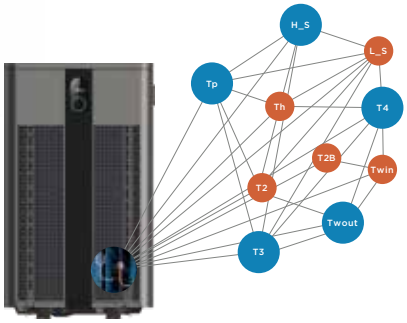
Compact installation footprint
G-Type Fin Design: Large heat exchange surface area ensures high energy efficiency.

Traditional electronic control box

Fully Sealed electronic control box



Sealed Electronic Box: The compact and sealed design enhances system reliability.



Multi-sensor configuration: enable precise system regulation and energy efficiency optimization through closed-loop control.

Comfort and Energy Efficiency

Wide Temperature Range

ESG R290 Pool contains heating, cooling and pump modes. From icy winters to scorching summers – It can operate in ambient temperatures ranging from **-20°C to 52°C**





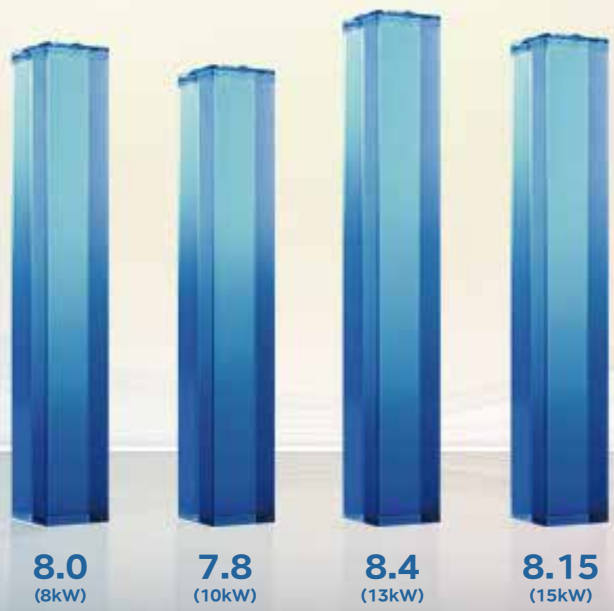
Cold Therapy & Hot Spa

It enables you to experience the benefits of cold water therapy or turn your pool into a relaxing Hot Spa. Effortlessly adjust water temperature from **6°C to 40°C** for the perfect swim.

High Efficiency

Boasts A-grade energy efficiency and SCOP up to 8.4 (MSC-U130D2N7-A) , ensuring outstanding performance while cutting down on energy bills.

EN17645
A-Class Efficiency

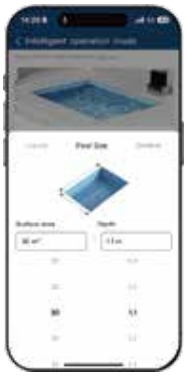


One-stop Energy Solution

Intelligent Energy-Saving Modes

Unlike traditional pools requiring 24h/7d constant heating, the Smart Mode activates automatically based on user-defined swimming schedules, ensuring optimal water temperature precisely during scheduled periods while eliminating energy waste in non-use intervals.

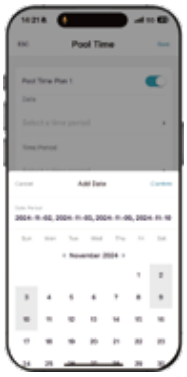
01 Set the size of the pool



02 Select your preferred pool temperature.



03 Set your pool usage time.



04 Optimal Energy Solution



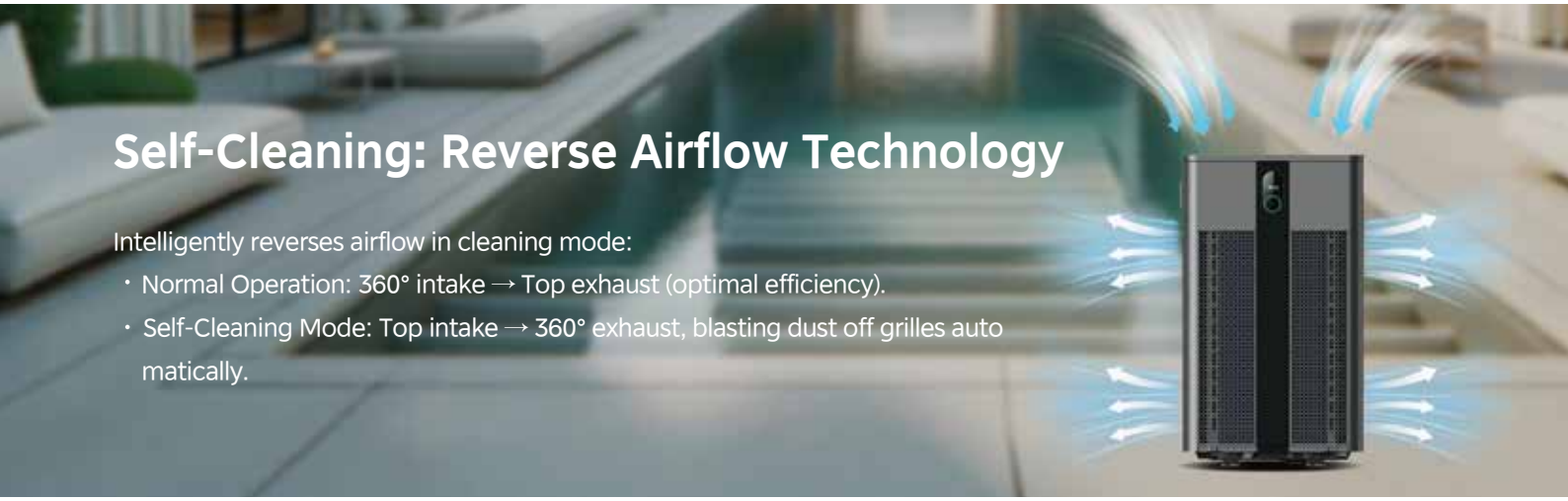


PV-Ehanced

Automatically boosts pool temperature +2°C when solar power is detected, optimizing renewable energy use.



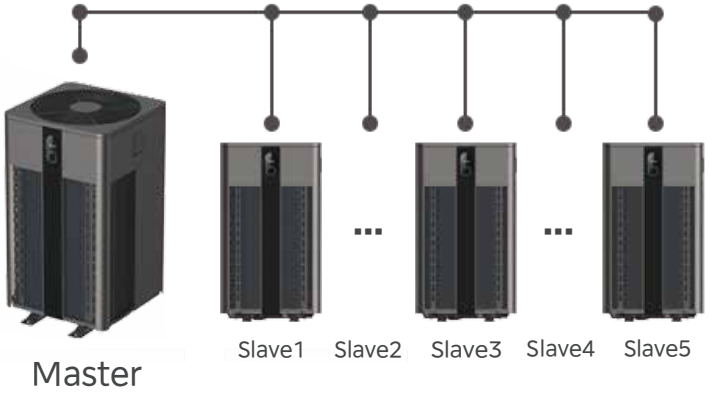
Flexible and Healthy to Use



Self-Cleaning: Reverse Airflow Technology

Intelligently reverses airflow in cleaning mode:

- Normal Operation: 360° intake → Top exhaust (optimal efficiency).
- Self-Cleaning Mode: Top intake → 360° exhaust, blasting dust off grilles auto matically.



Cascade System

Supports a cascade system, allowing up to 6 units to be seamlessly connected. It features plug-and-play functionality to ensure flexibility and ease of use.

Pool Water Quality Monitoring

Designed to interface with pool covers, the unit is equipped with pH and ORP (Redox) signal inputs. This provides the capability for real-time water quality monitoring upon connection to the respective sensors.

Note: Pool water quality monitoring function is optional.





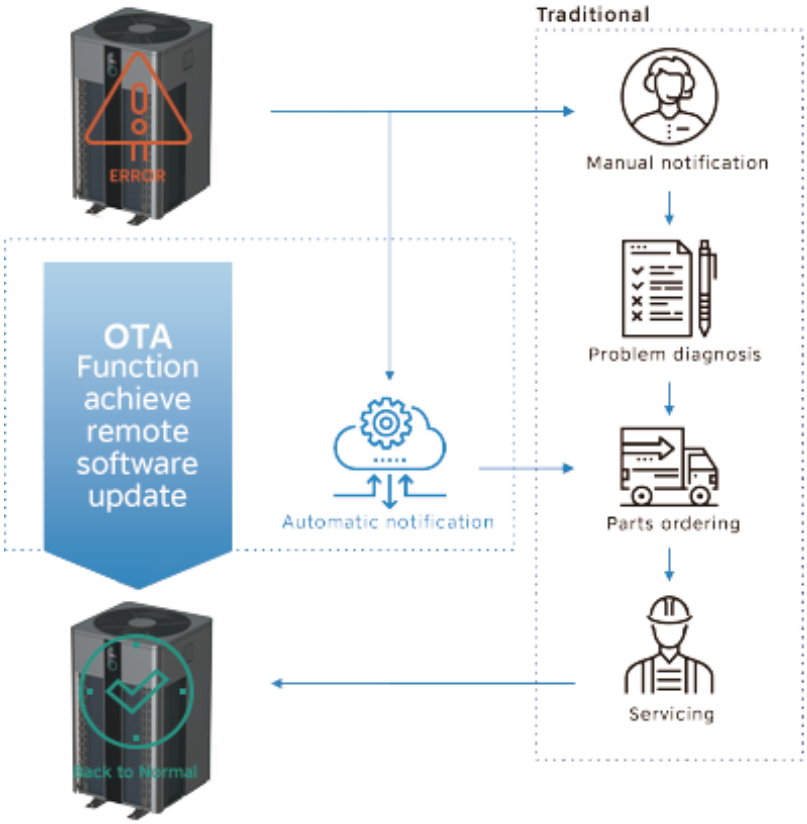
Voice Control Compatibility

Hands-Free Convenience: Seamlessly connect with Google Home and Amazon Alexa for voice-activated temperature adjustments and system control.

Smart Recover

OTA Function

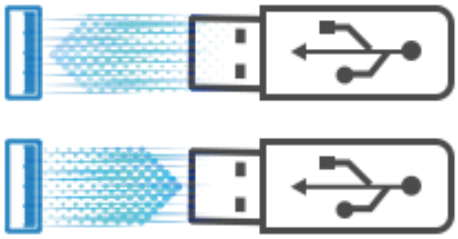
IOT offers intelligent-analysis based fault solutions, while OTA enables remote software upgrade, jointly facilitating seamless device maintenance.



USB Backup & Restore

Plug&Play:Restore settings to a new unit.

40% Faster Setup:Skip manual reprogramming forever.



One-Click Reset:

With a single press, instantly restore factory settings to eliminate operational errors.



Specifications

Midea Model		MSC-U80 D2N7-A	MSC-U100 D2N7-A	MSC-U130 D2N7-A	MSC-U150 D2N7-A
Power supply		220～240V 1N～ 50/60Hz			
Recommend pool size(15°C AT) with pool cover	m³	24.0	30.0	39.0	45.0
Recommend pool size(20°C AT) with pool cover	m³	36.0	45.0	58.5	67.5
Recommend pool size(25°C AT) with pool cover	m³	60.0	75.0	97.5	112.5
Heat pump type(Swimming pool heat pump)		Inverter	Inverter	Inverter	Inverter
Cabinet type		Metal+Plastic	Metal+Plastic	Metal+Plastic	Metal+Plastic
Certification		【CE】			
Operating Ambient temperature range	(℃)	-20~52℃			
Water inlet temperature range		Cooling: 6°C~30°C; Heating: 10~40°C			
Boost Mode(Max) capacity（Air 26°C/Water 26°C/Humid. 80%）	kW	3.00~11.00	3.00~13.10	3.00~15.80	3.00~18.20
COP	w/w	5.55~12.50	5.30~12.50	5.90~12.50	5.30~12.50
Heating capacity（Air 26°C/Water 26°C/Humid. 80%）	kW	3.00~8.20	3.00~10.20	3.00~13.30	3.00~15.00
COP	w/w	7.10~12.50	6.40~12.50	6.80~12.50	6.40~12.50
Boost Mode(Max) Heating capacity（Air 15°C/Water 26°C/Humid. 71%）	kW	2.10~8.50	2.10~10.00	2.10~12.00	2.10~14.20
COP	w/w	4.80~7.50	4.50~7.50	4.70~8.10	4.25~8.10
Heating capacity（Air 15°C/Water 26°C/Humid. 71%）	kW	2.10~6.20	2.10~8.00	2.10~10.00	2.10~12.00
COP	w/w	5.40~7.50	5.20~7.50	5.15~8.10	4.85~8.10
Boost Mode(Max) Cooling capacity（Air 35°C/Water 26°C）	kW	1.60~4.60	1.60~4.70	2.00~8.35	2.00~8.80
EER	w/w	3.00~5.80	2.60~5.80	3.40~6.80	3.15~6.80
Cooling capacity（Air 35°C/Water 26°C）	kW	1.60~4.20	1.60~4.50	2.00~7.65	2.00~8.40
EER	w/w	3.50~5.80	3.30~5.80	3.70~6.80	3.35~6.80
SCOP		8.0_Class A	7.8_Class A	8.4_Class A	8.15_Class A
Compressor type		Rotary	Rotary	Rotary	Rotary
Fan quantity	Pcs	1	1	1	1
Refrigerant Amount(R290)	g	450	450	700	700
Sound pressure level (1m)Boost mode	dB(A)	47.0	50.0	51.0	53.0
Sound pressure level (1m)	dB(A)	44.0	46.0	49.0	51.0
Water flow	m³/h	2.60	3.40	4.30	5.20
Water pressure drop	kPa	1.5	2.5	2.6	3.6
Water connection	mm	50	50	50	50
Net weight/Gross weight	kg	75.1/93.7	75.1/93.7	81.1/100.5	81.1/100.5
Unit dimensions (W×D×H)	mm	616×616×1060	616×616×1060	616×616×1060	616×616×1060
Packing dimensions (W×D×H)	mm	650×740×1230	650×740×1230	650×740×1230	650×740×1230
Loading quantity(40HQ)	pcs	102	102	102	102

Midea Building Technologies Division
Midea Group

Poolseidon202601V1

Add.: Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China
Postal code: 528311
mbt.midea.com/global www.midea-group.com ics.midea.com

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