AIRREX

Stay Cool!

AIRREX The Best Line up

of Cooling, Heating, Dehumidification and Air Purification Products.

www.airrex.biz



HEPHZIBAH®

Since. 1986

MADE IN KOREA

AIRREX PRODUCT LINE-UP

PORTABLE AIRCONDITIONER

Water-Cooled | Best Seller



Items	Unit	HWC-3250	HSC-1370	HSC-2500	HSC-3500	HSC-3600B	HSC-5000A
Cooling Capacity	Btu/h	21,000	13,000	21,000	25,000	36,000	60,000
	W	6,150	3,810	6,150	7,330	10,550	17,580
Power Supply	-	230Vac 50Hz 1Ph					380/420Vac 50Hz 3Ph
Size (WXDXH)	mm	445 x 570 x 1,065	420 x 620 x 1,010	490 x 600 x 1,286	490 x 600 x 1,286	740 x 1,400 x 1,385	740 x 1,400 x 1,516
Weight	kg	77	57	86	90	200	250
Starting Current	A	45	20	45	57	70	72
Running Current	A	9.4	7.4	9.8	13	22.3	13
Rated Power Consumption	kW	2.1	1.6	2.22	3.0	4.9	8.5
Compressor Input	kW	1.57	0.9	1.95	2.35	3.6	5.6
Fan Evaporator Air Flow	m³/min	14.4	8	11~13	14~16	22~25	40
Fan Condenser Air Flow	m³/min	-	14	22~26	26~30	44~50	80
Motor Input	kW	-	0.23	0.38	0.44	0.4	0.75
Water Consumption	ℓ/min	4.5					
Air Filter		SUS Mesh Filter	Polyester Filter	SUS Mesh Filter		Non-Woven Fabric Filter	
Safety Device		- High Pressure Switch (NOT HSC-1370) - Fan Motor Protection - 3min. Delay Timer - Low Pressure Switch - Automatic Full Tank Shut-Off - Tank Position Detector - Thermostat Protector for Compressor					
Maximum Static Pressure	mmAq	30	30	30	30	40	50
Power Cord	type	Plug Type	Plug Type	Plug Type	Plug Type	Terminal Type	Terminal Type
Power Cord Length	m	3	2	3	3	10	30
Outlet Air Velocity	m/s	12.8~11.3	10~9	11.5~10	10.5~8.5	11~13	14
Outlet Temp. Difference	℃	10~13	9.5~11	9.5~11	9.5~11	10~15	12
Refrigerant (Rated Charge)	kg	R-407C(0.65)	R-410A(0.65)	R-410A(0.89)	R-407C(1.2)	R-410A(2.5)	R-410A(3.5)
Operating Conditions Min-Max	℃	25℃ DB 60%RH~ 50℃ DB 40%RH	25℃ DB 60%RH ~ 45℃ DB 40%RH			25℃ DB 60%RH ~ 45℃ DB 40%RH	
Maximum Duct Length	m	12	12	12	12	20	30
Remarks	℃	Condensate Pump Built-In				Condensate Pump Built-In	

※ Designs and specifications of products are subject to change without prior notice for the improvements. The colors of products may be different due to the printing process.

PORTABLE DEHUMIDIFIERS







AHSC-2170	HSC-4200	HSC-5200	HSC-5700
Cool: 19,000Btu/h	Cool: 42,000Btu/h	72,000	145,000
Heat: 21,600Btu/h	Heat: 42,000Btu/h	21,100	42,500
230Vac 50Hz 1Ph	230Vac 50Hz 1Ph	380/420Vac 50Hz 3Ph	380/420Vac 50Hz 3Ph
495 x 675 x 1,320	740 x 1,450 x 1,212	740 x 1,670 x 1,212	860 x 1,850 x 1,743
95	200	300	600
39	98.5	100	130
11.2(Cool)/10.7(Heat)	Cool: 22.7 A Heat: 21.4 A	17.4	30
2.58(Cool)/2.45(Heat)	Cool: 4.7 kW Heat: 4.35 kW	7.7	23.0
1.9	3.8	5.6	12.3
12	Cool: 31.2 Heat: 32.3	50.7	100
26	Cool: 70 Heat: 67	100	200
0.5	0.88	2.2	8
SUS Mesh Filter			Polyester Filter
- High Pressure Switch - Low Pressure Switch - Tank Position Detector	- Fan Motor Protection - Automatic Full Tank Shut-Off - Thermostat Protector for Compressor	- 3min. Delay Timer	- High Pressure Switch - Low Pressure Switch - Thermostat & Relief Valve for Compressor
30	30	50	50
Plug Type	Terminal Type		
3	30		50
10.5~8.5	7.6~7.4	6.7	16.8
Cool: 13 Heat: 20	Cool: 13.5 Heat: 20	13.4	12
R-410A (1.5)	R-410A (2.8)	R-410A (3.9)	R-410A (5.0)
Cool:25℃ 60%~40℃40% Heat:10℃70%~27℃50%	Cool:25℃ 60%~45℃40% Heat:10℃ 70%~27℃50%	25℃ DB 60%RH ~ 45℃ DB 40%RH	
12	30	30	30

Items	Unit	ADH-1000
Water Removal	Liter/day	Maximum 140 (30℃ 80%) Nominal 80 (27℃ 60%)
Power supply	-	230Vac 50Hz 1Ph
Dimension (WxDxH)	mm	500 x 480 x 1,000
Weight	kg	60
Air Flow	m^3/hour	1,080
Area	m^3	1,000
Power Consumption	kW	2.21
Current Consumption	A	9.73
Refrigerant (R-410A)	g	1,000
Air Filter	-	Vinyl Chloride Mesh Catridge
Safety Device	-	• High pressure switch • Low pressure switch • 3 min. delay timer. • Fan motor protection • Automatic full tank shut-off • Thermostat protector for compressor
Power cord	Device	PLUG
	Length	3 meters
Operating Range	-	5℃~35℃, 30%~90%
High Pressure	kgf/cm²	31
Low Pressure	kgf/cm²	9
Fuse in power box in Machine body	-	250V~ 5A

AIRREX ACCESSORIES

The use of optional accessories makes the cooling effect even better

NEW



Duct Lower

NEW



Duct Base

OLD



Damper Base



Duct Cover



Flexible Duct
Ø125x0.5m



Flexible Duct
Ø125x10m/3m



Warm Air Duct
Ø300x5m



Connection Flange
for duct



Exhaust Reducer
Ø300 / Ø430
(Metal)



SUS Mesh Filter
for Evaporator
(HSC-2500,3500)



SUS Mesh Filter
for Condenser
(HSC-2500,3500)



Indoor Temperature
Sensor(5m)



Condensate Pump
Kit



Remote Control
Kit



Condensate Water
Tank Kit (20ℓ)

Airrex introduction

A COMFORTABLE WORKING ENVIRONMENT IMPROVES PRODUCTIVITY.

Air Conditioning for Typical Factory Use



Industrial Sites

High Temperature work sites, Car manufacturing plants, Ship building yards and steel mills,

※ Cooking areas where there is dust and foreign substances and heat build-up requires cooling for a more comfortable environment and greater efficiency.

※ All areas requiring spot cooling such as church halls and leisure centers.

Large Kitchen

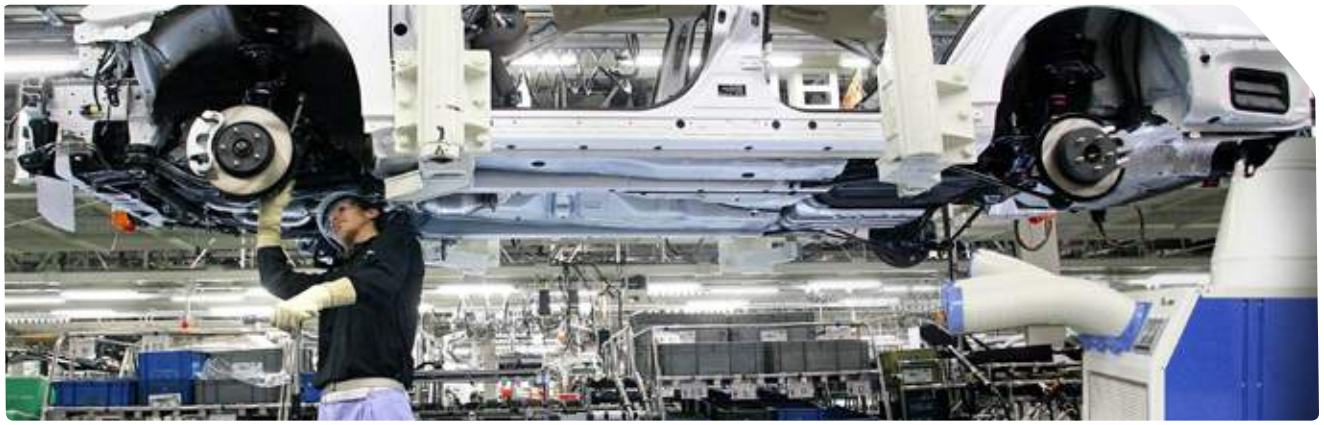


Automobile manufacturing factory



Car Manufacturing Plant

Car repair shops, Aircraft workshops, Farm machinery workshops, Gas stations & parking facilities





Heat Generating Equipment

Server rooms and machine rooms



Leisure
Outdoor Event Venues

Farm & Livestock Ranges















We have been together with our customers for 33 years in the industrial field.

We work constantly and develop so that we can work coolly in hot summer and we can work warmly in cold winter.


















LOST VALLEY









PORTABLE AIR CONDITIONER

Approved technology with 33 years experience in the market!





Quiet Operation

Digital Thermostat

Intensive Air Conditioning

Movable & Lockable

Energy Saving

Automatic Fan control

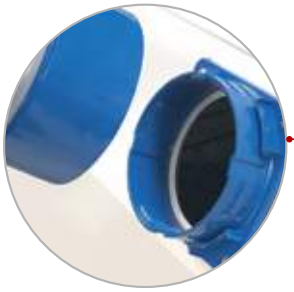
Timer Function

Certification

Product Features
HSC-2500/3500/3600B/5000A

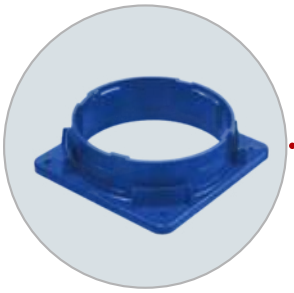
Spot Cooling

(2) Ø125x0.5m Adjustable Ducts Directed Cooling
21,000Btu/h~60,000Btu/h
(Twist & Lock)



Twist & Lock Ducts

(2) Ø125 Adjustable Ducts



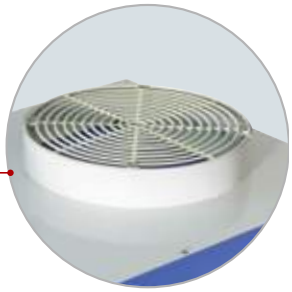
Condensate Tank

20 liters Tank
Auto Shut off



Hot Air Exhaust

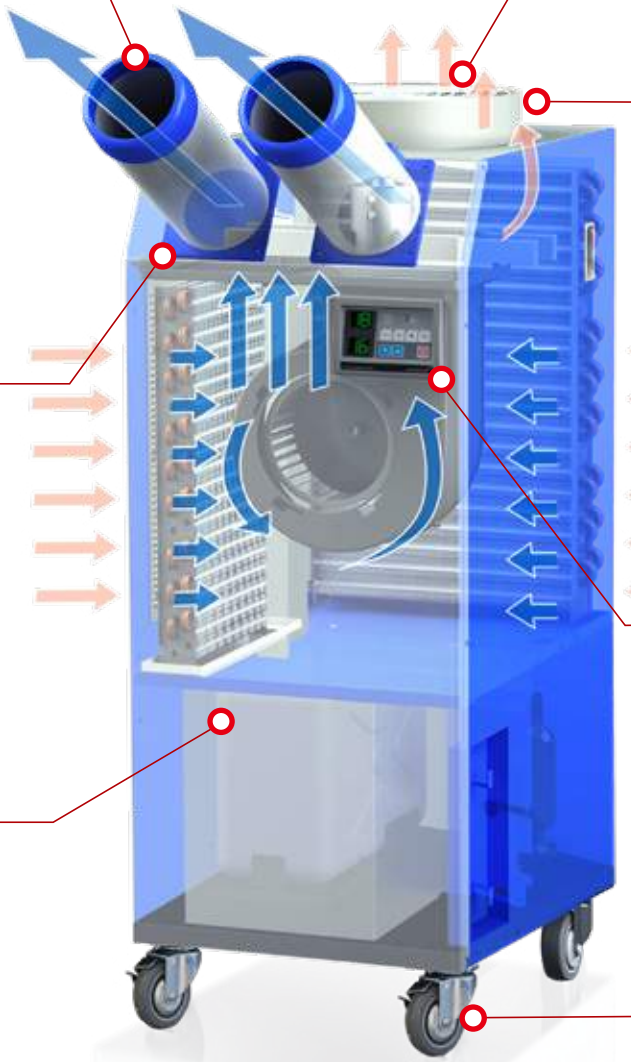
Automatic Fan Speed Controller
Operating Range : Up to 45℃



Applications

Indoor or Outdoor Cooling





Digital Controls

Programmable Timer
Temperature Range: 1℃ to 50℃
High/Low Fan Speed
Auto Restart



Mobility

(4) 4" Swivel Casters
(2) Lockable Casters



PORTABLE AIR CONDITIONER

Stylish design and smart performance and New Airrex Innovations!

AIRREX has launched convenient duct & louver grille changeable models in the HSC-1370.

Key Features

- 2 Steps Air Amount Control (High/Low)
- Off Timer (1~24hr)
- High Efficiency and Performance
- Uses a energy saving BLDC motor
- Advanced Design with Plastic Housing
- Runs Quietly

AIRREX spot coolers operate in air temperature from 25℃ to 45℃. These air conditioners utilize eco-friendly R-410A refrigerant.

Includes removable, washable air filters for easy maintenance.

Ø125 diameter (Twist & Lock)front cold air discharge and Ø250 diameter top warm air discharge.

Select one of both (Duct type & Grill type)

- Duct type: Directed cooling to the places and the persons
- Grill type:Cooling to the indoor whole places



Option: Grill Type

Easy Ventilation of Condenser Hot Air

Ø250 Diameter Hot Air Outlet



Condensate Tank

- Excellent Condensate Water Sensing using Proximity Sensor
- Efficient 15ℓ Built-in Water Tank



Product Features
HSC-1370



Convenient Digital Controls

Programmable Timer Setting
Temperature Range: 1℃ to 30℃
High/Low Fan Speed
Auto Restart



Hot Air Exhaust

Flat type Condenser Hot Air Outlet
Operating Range: Up to 45℃



Easily Controlled Lockable Casters

Durable, Strong Urethane 2.5 inch Casters(2 Locking)



No Need to Vent! Airrex water cooled portable air conditioner!

AIRREX water cooled unit utilizes a constant supply of water instead of outside air to discharge the heat.



Quiet Operation

Digital Thermostat

Intensive Air Conditioning

Movable & Lockable

Energy Saving

Automatic Fan Contral

Timer Function

Certification

Product Features
HWC-3250

These units have been engineered with a water regulating valve and built in condensate pump.
Applications Include : Hospitals, Kitchens, Production Facilities, and Office Complexes.

Spot Cooling

(2) Ø125x0.5m Adjustable Nozzles
Directed Cooling (Twist & Lock)
21,000 Btu/h



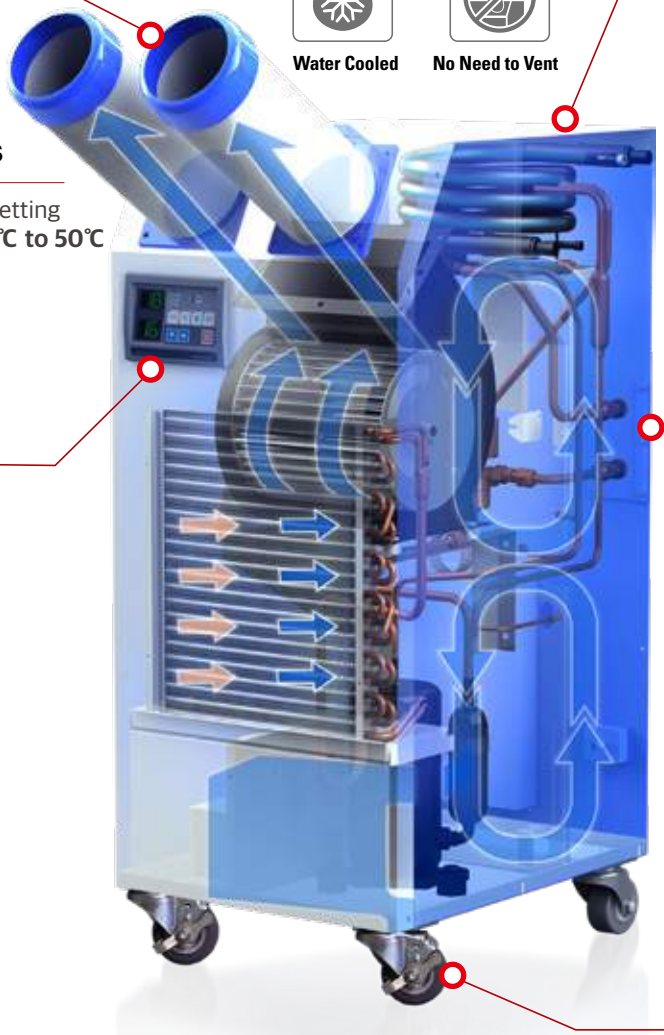
No Need to Vent

No Warm air



Water Cooled

No Need to Vent



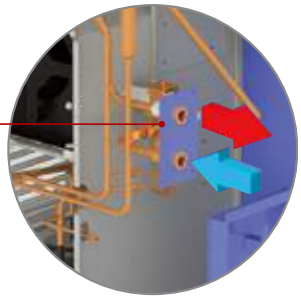
Digital Controls

-Programmable Timer setting
-Temperature Range:**25℃ to 50℃**
High/Low Fan Speed



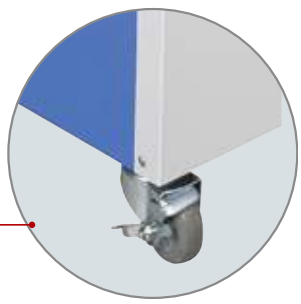
Water Cooled

Water Outlet &
Water inlet



Mobility

(4) 4" Swivel Casters
(2) Lockable Casters



PORTABLE HEATPUMP SYSTEM

Model: AHSC-2170

Air cooling and **heating** in one unit!

AIRREX has designed a portable heat pump that can be utilized in year round applications.
AIRREX Portable heat pumps have the ability to be switched from cooling mode to heating mode.

In cooling mode, a heat pump works the same as an ordinary air conditioner(COOL).
In heating mode, the unit absorbs the heat from the refrigeration cycle and converts it into warm air(HEAT).







Louver Grille

You can change wind direction up and down right and left.



Digital Controls

Programmable Timer
Temperature Range:
Cool:25℃~40℃/Heat:10℃~27℃
High/Low Fan Speed
Easy Cool and Heat Changeable



Condensate Tank

20 liters Tank
Auto Shut Off

PORTABLE HEATPUMP SYSTEM

Model: HSC-4200/5200

Simple design, duct connection type!

Optimized design for external environment !!



• Front view

• Side view

Key Features

Large space Air Conditioner

Digital Thermostat

Intensive Air conditioning

Energy Saving

Performance improvements

Large capacity FAN to outdoor unit gets optimised performance



Indoor/ Outdoor installation

Installed in both outside and inside air circulation system creates a pleasant,cool environment.



Simple structure

User friendly, optimized,
Easy to use,
Easy after-sales service.



Digital Controller

OFF timer/Temperature control/Remote control
Self-diagnostic function



Built-in exhaust fan

Built-in exhaust fan design adapted.



Portable air conditioner

Use urethane wheels
With convenient lockable wheels



LARGE CAPACITY DEHUMIDIFIER

The Airrex ADH- 800/1000 are fully **portable dehumidifiers**

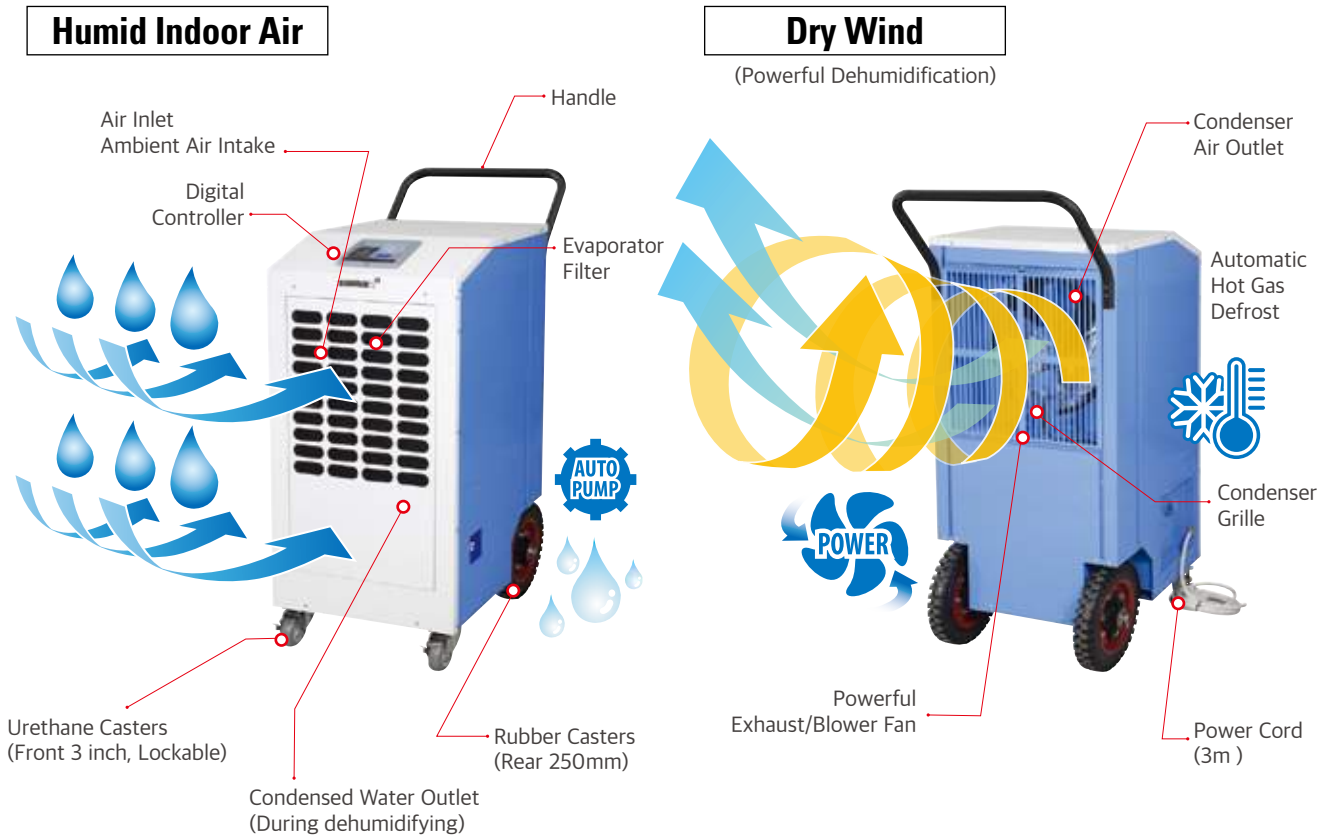
Providing rapid drying and humidity control.

Key Features

These units are utilized by restoration companies for building drying, process drying, and general dehumidification.

Features Include : • Efficient Rotary Compressor • Adjustable Humidity • Condensate Pump • Automatic Hot Gas Bypass • R-410A

Airrex Large Capacity Dehumidifier Features



Product Features
ADH-800/1000



ADH-800

ADH-1000

Digital Controls

Off Timer: 24hr
Adjustable 4 steps Fan Intensity
Error Messaging
Current and Set Humidity Display



Built-in Drain Pump

Powerful auto condensate drain



Air Filter

Easy to remove and clean



Manual, Compulsory Condensate Drain Button

Before moving the dehumidifier, push this button not to overflow the remaining condensate water



AIRREX

PREMIUM FAR INFRARED RAYS HEATER

Airrex Far Infrared Rays Heater!
You can feel the touch
of the No.1 heater specialist.



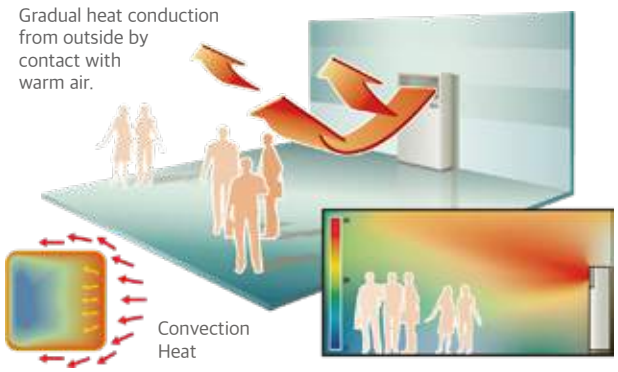
AH-720 AH-200 AH-300 AH-600 AH-800

Electric | Fuel : Diesel Oil

Fuel Saving cost and quiet operation. Enjoy deep warming heat and feel the difference.

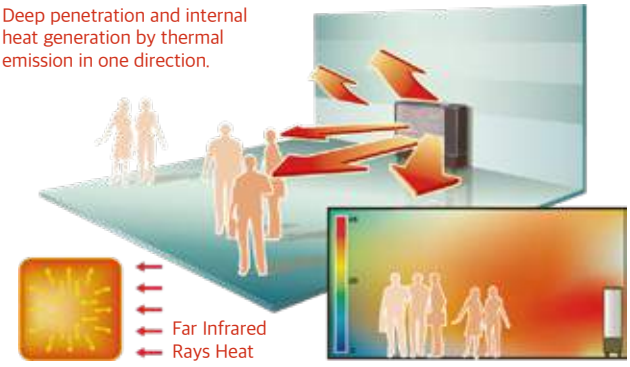
Heating Concept of Airrex Technology Using Far Infrared Rays

General Convection Type Heaters



Initial sensory temperature distribution of hot air blower system

AIRREX Far Infrared Rays Heaters



Initial sensory temperature distribution of AIRREX heater

Examples of Typical Applications

Indoor application

- Office • School • Hotel • Bank • Restaurant
- Hospital • Shop • Library • Church • Warehouse etc.

Outdoor application

- Golf Course • Amusement Park • Recreational Facility
- Ski Resort • Open Areas Such as Construction Site





Heating Concept of Airrex Technology Using Far Infrared Rays



1 Highly Efficient Silencer System

Heat air controlling with Minimal Noise
By installing a highly efficient absorbing & expanding silencer system inside the combustion furnace, the noise is minimized(48dB).

2 Combustion tube

Multiple steps of combustion tubes burn oil and odor perfectly.

3 Different tube diameter

Different tube diameters for better combustion
75mm,100mm,165mm tubes enhance combustibility.

4 Luxurious soft touch buttons

Luxurious soft touch buttons & sophisticated design
Luxurious and intuitive touch controller and sophisticated metal color is adopted.

5 Highly Efficient Tube-Dedicated Burner

Dedicated Burner Developed with New Technology
The strong burner dedicated for tube(combustion tube) heaters enhances combustibility and maximize heating capacity.

6 12 Safety Systems

The 12 Safety Systems, Airrex ensures Safety. When turning off the heater, residual fuel causes soot and a bad smell. According to a test by an authorized body, Airrex blocks the residual fuel in a very short time, so that the soot and bad smell is minimized.

Airrex Oil Heater Product Line-Up

High Class Soft Touch Button
Odor Reduction Device and Delay Auto Ignition Prevention (Bypass Device)
Micro low Noise, Comfortable Heating
12 Safety Systems.



Specifications

ITEMS	AIRREX OIL HEATER			
	AH-200	AH-300	AH-600	AH-800
Performance	91~108㎡	99~116㎡	116~132㎡	149~165㎡
Heating Capacity	13 ~ 15kW/h	14 ~ 16kW/h	16 ~ 19kW/h	21 ~ 23kW/h
Fuel Type	Diesel			
Fuel Consumption	1.05 ~ 1.24 ℓ/h	1.14 ~ 1.33 ℓ/h	1.33 ~ 1.52 ℓ/h	1.71 ~ 1.90 ℓ/h
Tank Capacity	25 ℓ	45 ℓ	45 ℓ	70 ℓ
Weight	40 kg	46 kg	49 kg	81 kg
Rated Power Consumption	80W (230Vac 50Hz 1Ph)			
Dimension(W×D×H)	780X305X1,010 mm	950X305X1,080 mm	950X305X1,190 mm	1,300X350X1,400 mm

Comfortable, warm heart like an old friend.



Makes the space warm and gentle. Airrex Far Infrared Rays Heater.



PREMIUM FAR INFRARED RAYS ELECTRIC HEATER

Eco-friendly & pollution-free Far Infrared Rays Electric Plate Heater!



1 Maximum heating efficiency

Patented techonlogy of infrared plate with greatest emission of far infrared rays creates maximum heating efficiency.

2 Electric heater that is easy to handle

Easy and safe to operate.

3 Differentiation

Excellent heat and shock resistance.
Thermal conduction is excellent due to the lightweight aluminium alloy heat sink coated pure ceramic material.

4 Provide pleasant well-being environment

Provides healthy and pleasant environment with no noise or smell.

5 Maximum heating area

By heat directed forward and maximum radiation angle, the emission of far infrared rays are projected forward, unlike conventional heaters.
The sheath heater rod hidden middle of the plates, and they emit the fully healthy and warm heat forward with maximum far infrared rays.

6 Halogen lamp equipped backside of one of the plates

By halogen lamp, the instant heat and ambient warming lighting can be accomplished.
(application models : AH-720, AH-765)

Airrex Electric Heater Product Line-Up

•2Way Heating (Plate+Halogen Lamp)
•Heat Control (4step)
•Automatic Heat Control
•Safety Device in Conduction
•Overheating Prevention
•Overcapacity Prevention
•Safety Device in Conduction

※ For the AH-765,780 and 795, they must be directly connected to electric panel so there is no power cord included charge for the service will be incurred.



Specifications

ITEMS	AIRREX ELECTRIC HEATER			
	AH-720	AH-765	AH-780	AH-795
Performance	19~21 ㎡	46~53 ㎡	69~76 ㎡	104~112 ㎡
Heating capacity	2.8 kW/h	7 kW/h	10.1 kW/h	15.2 kW/h
Rated current consumption	12.2 A	30.4 A / 10.6A	44 A / 15.3 A	23.1 A
Fan air flow	2.0 ㎥/min	2.5 ㎥/min	4.3 ㎥/min	
Weight	15 kg	27 kg	35 kg	46 kg
Power	230Vac 50Hz 1Ph	230Vac 50Hz 1Ph / 380Vac 50Hz 3Ph		380Vac 50Hz 3Ph
Dimension(W×D×H)	540 × 290 × 800mm	670 × 290 × 920mm	970 × 290 × 920mm	1,270 × 290 × 920mm

Airrex Plate Far Infrared Rays Electric Heater!

The infra plate widens the scope of the thermal conduction as compared to the existing cartridge or coil heaters because it directly radiates the far infrared rays using a ceramic coated plate and effectively distributes heat by convection of the surrounding air.





INNOVATION

From the outset, innovation has been part of AIRREX's DNA. AIRREX has been designing and building air conditioners since 1993. The company originally started manufacturing control boards and has expanded to include its control boards in many products.

We are continually striving to be the most innovative company in the industry. It means trying to find new and better ways of doing thing. This is why in AIRREX has over 15 different models of Air-cooled & Water-cooled Air conditioners, Heaters, Dehumidification, and HEPA Air Filtration products.

Global Business

AIRREX does business in over 30 countries, such as USA, England, France, Netherland, Russia and Australia.



Quality and Reliability

With less than 1 % warranty claims, AIRREX products have become some of the most reliable products in the industry.

Integrity

Integrity is an essential component of AIRREX's philosophy. It is how we conduct ourselves and how we do business. It is non-negotiable. While some business's value results over ethics, we value both. At AIRREX we believe that how we do something is as important as what we do.





Airrex History

HISTORY & MILESTONE

Company Origin & Development

1986	1	Established as Hephzibah Industries Co., Ltd.
	2	Acquisition of Import & Export Trade license
1993	4	Establishment of R&D Institute
	12	Admitted as a Superior Technology Company by KOTEC
1994	8	Auto Insert Equipment (AXIAL, RADIAL, SMD)
	11	Awarded U $ 1,000,000 Export Medal from Government
1995	11	Awarded U $ 5,000,000 Export Medal from Government
1996	11	Awarded U $ 10,000,000 Export Medal from Government
1998	2	ISO 9001 Certification
	3	Selected Superior Company for Cooperation Between Labor & Owner from Government
	8	Designated Venture Enterprise by SMBA
1998	10	Awarded as Advanced Industrial Company
	10	ERP System
2003	4	ISO 9001 Certification(KSA)
2004	6	The Company Name Changed as Hephzibah Co.,Ltd.
	7	Selected Advanced Small & Medium Sized Company
2005	7	Selected Advaned Export Corporation
	4	2nd Factory Set UP(Electric Controller Factory)
2006	8	INNO-Biz(Innovation Biz) Certification
2009	5	Attracted 2 Billion Won Investment by KB Venture Invest & Foreign Exchange Bank (New Renewable Energy Wind Development Field)
	6	Ministry of Knowledge Economy Core Technology Development Business Project Performed (6kW High Efficient lift Type Verical Axis Wind Generator Developed)
	9	Registration of New Renewable Energy Specialty Enterprise (Solar Rays/Wind Power)
2010	4	Moved to New Factory
2011	11	Vision Enterprise Certification
2012	12	Registered Green Biz Enterprise(Grade A)
2013	10	INNO-BIZ (Innovation Biz) Certification
2014	10	Electric, IT achievement award certificate
2014	10	ISO 14001 Certification
2014	12	Local Royal Corporation Certification
2015	5	Aworded prime minister prize at the IT day
2016	4	Solar inverter CE, TUV CEC certification
2017	3	Designation of small giant company of Korea
2019	3	Awarded exemplary taxpayer award



Airrex Product Development History

1993	5	Industrial Portable Air Conditioner Developed
1994	9	Far-Infrared Rays Heater Developed
1996	3	Residential Portable Air Conditioner Developed
1997	10	AIRREX Trademark Registered
1999	5	ETL Certified, CE Certified (Industrial Portable Air Conditioner)
2002	3	Industrial Portable Air Conditioner 3RT Developed
2003	6	Far-Infrared Rays Heater Developed(AH-200)
	7	5 Far-Infrared Rays Heater Models AH Series Developed
	9	Won Mark Quality Certified(Far-Infrared Heater)
	11	CE Certified(Far-Infrared Heater, Industrial Air Conditioner)
	11	Programmable Temperature Control System Developed
2004	3	Home/Office Portable Air Conditioner Developed(AR-100)
	7	Compact Far-Infrared Rays Heater Developed(AH-150)
2005	7	4 Plate Heater Models Developed(AH-500 Series)
	7	Compact Far-Infrared Rays Heater Developed(AH-100)
2006	8	4 Plate Heater Models Developed(AH-700 Series)
2007	3	Home/Office Portable Air Conditioner Developed (AR-1700Pro)
	3	2Way Portable Air Conditioner Developed(HSC-1100S/H)
	8	4 Far-Infrared Rays Premium Heater Models Developed
2008	3	Kitchen Stainless Portable Air Conditioner Developed (HSC-2200S,3200S)
	8	Near-Infrared Rays Heater Developed(AH-10N,20N)
	9	Agricultural Electric Fan Heater Developed (AN-505,507)
2009	2	Water-Cooling Industrial Portable Air Conditioner Developed(HWC-2250,3250)
	8	Large Space Plate Heater Developed(AH-799)
2010	1	Programmable Temperature Control System of the New Models Deveolped(PTCS-1300)
	1	HEPA Filtration Machine Developed(HSC-HEPA2000)
	8	Near-Infrared Rays Heater Developed(AH-11N,16N,21N)
2011	3	Large-Capacity Dehumidifier Developed(ADH-1000)
	8	Near-Infrared Rays Heater Developed(AH-12N,22/23,32/33)
2012	7	Compact Ceiling Typed A/C Developed(HSC-500)
	8	Programmable Temperature Control System Developed (PTCS-1400)
2013	3	2Way Portable Air Conditioner Developed(HSC-1160)
	8	Far-Infrared Rays Oil Heater of the New Models Developed (AH-300,600,800)
	8	Large-Capacity Dehumidifier Developed(ADH-800)
2014	4	Large-Capacity Dehumidifier Developed (ADH-2000) Small-Capacity Dehumidifier Developed (ADH-800)
	10	Military purpose Air conditioner Developed (HSC-2100M)
2015	1	Nozzle Preheating device for Oil heater Developed
	10	Heatpump Developed (AHSC-2170)
2016	8	Large capacity portable Air conditioner developed (HSC-5700)
2017	8	Heat pump developed (HSC-4200) Large capacity portable Air conditioner developed (HSC-5200)
2018	2	Water-Cooling Industrial Portable Air Conditioner Developed(HWC-1470)