



2015

Ducted Range

Proudly supporting



Smaller design & wider range

Our units have a smaller, more compact design than our competitors, and the expanded range means there is a Mitsubishi Heavy Industries ducted unit for everyone.

Reliability and Performance

Mitsubishi Heavy Industries believes in the strong performance and reliability of our units. That's why our units are backed up by a full 5 year parts and labour warranty.





Ducted Range

Energy efficient

Our units are smart and energy efficient to keep running costs low. With improved design these are the most energy efficient Mitsubishi Heavy Industries units yet.



Mitsubishi Heavy Industries ducted systems features DRED (Demand Response Enabled Device). DRED's allow you to voluntarily participate in Incentive programs run by energy companies in some regions.



Ducted Range

Easy to use

Our RC-EX1A wall controller is so easy to use, you can control your climate with the touch of a button. With control options for energy management, comfort, convenience and service. Everything you need is here.

IntesisHome[®] 
Your home in the cloud

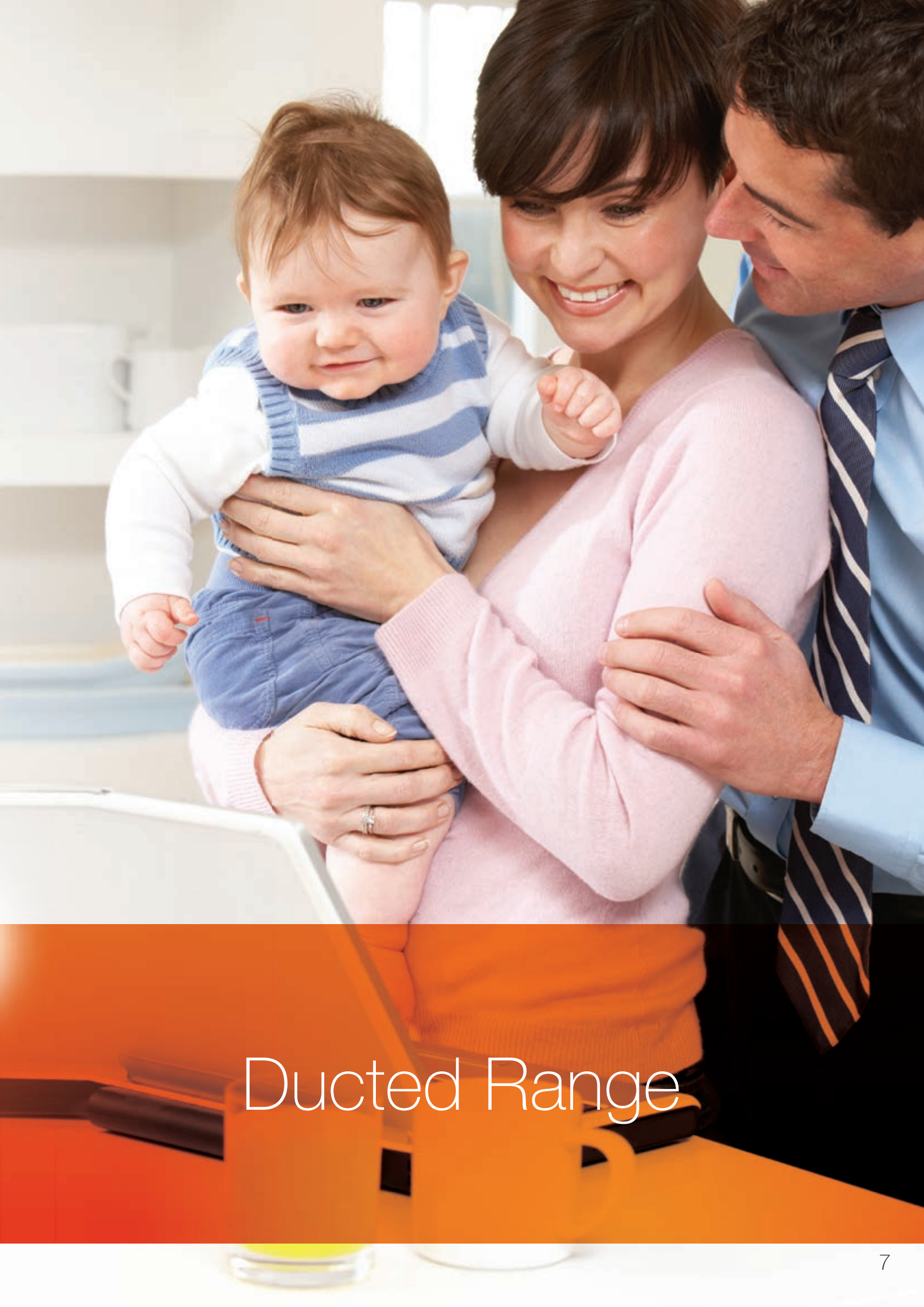
Change from anywhere with Intesis WiFi

Now you can control your Mitsubishi Heavy Industries Air-conditioner from anywhere with our new wifi control system. The wifi control allows you to control the features of your air-conditioner from anywhere using your iOS™ smart device or computer.



Operation mode





Ducted Range

FDUA

Duct connected - High static pressure

Range available from 7.1kW - 20.0kW



Remote control (Options)

Wired



RC-EX1A



RC-E5



RCH-E3

Wireless



RCN-KIT3-E



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FDUA

Set			FDUA71AVNXVF	FDUA100AVNVF	FDUA100AVNXVF	FDUA125AVNXVF	FDUA140AVNXVF	FDUA140AVSXVF	FDUA160AVSAVF	FDUA200AVSAVG	
Indoor			FDUA71VF	FDUA100VF	FDUA100VF	FDUA125VF	FDUA140VF	FDUA140VF	FDUA160VF	FDUA200VG	
Outdoor			FDCA71VNX	FDCA100VN	FDCA100VNX	FDCA125VNX	FDCA140VNX	FDCA140VSX	FDCA160VSA	FDCA200VSA	
Power supply	Outdoor Unit		1 Phase 220-240V 50Hz					3 Phase 415V 50Hz			
Capacity	Cooling T1	kW	7.1 (3.2-8.0)	10.0 (4.0-11.2)	10.0 (4.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-14.5)	14.0 (5.0-14.5)	16.0 (6.9-20.0)	20.0 (6.9-28.0)	
	Heating H1		8.0 (3.6-9.0)	11.2 (4.0-12.5)	11.2 (4.0-12.5)	14.0 (4.0-17.0)	16.0 (4.0-18.0)	16.0 (4.0-18.0)	18.0 (5.5-22.4)	22.4(5.5-31.5)	
Input	Cooling T1	kW	2.22	3.05	2.85	3.83	4.44	4.44	4.83	6.03	
	Heating H1		2.22	2.87	2.74	3.68	4.41	4.44	4.66	5.5	
EER	Cooling T1		3.20	3.28	3.51	3.26	3.15	3.15	3.31	3.32	
COP	Heating H1		3.60	3.90	4.09	3.80	3.63	3.6	3.86	4.07	
Sound pressure level (JIS C9612)	Indoor	dB(A)	P-Hi:38 Hi:33 Me:29 Lo:25	P-Hi:43 Hi:42 Me:40 Lo:37	P-Hi:43 Hi:42 Me:40 Lo:37	P-Hi:45 Hi:43 Me:41 Lo:37	P-Hi:47 Hi:46 Me:43 Lo:40	P-Hi:47 Hi:46 Me:43 Lo:40	P-Hi:49 Hi:48 Me:45 Lo:42	P-Hi:52 Hi:50 Me:47 Lo:45	
	Outdoor		51	49	48	48	49	49	59	59	
Sound power level (JIS C9612)	Outdoor		66	70			72	70	73		
Airflow	Indoor	l/s	P-Hi: 400 Hi: 317 Me: 250 Lo: 167	P-Hi:650 Hi:600 Me:550 Lo:483		P-Hi:717 Hi:650 Me:600 Lo:500	P-Hi:850 Hi:800 Me:700 Lo:600	P-Hi:850 Hi:800 Me:700 Lo:600	P-Hi:850 Hi:800 Me:700 Lo:600	P-Hi:1333 Hi:1200 Me:1067 Lo:933	
External static pressure		Pa	200								
External dimensions (HxWxD)	Indoor	mm	280x950x635	398x1150x650						379x1600x893	
	Outdoor		750x880(+88) x340	845x970x370	1300x970x370				1505x970x370		
Net weight	Indoor	kg	34	52						89	
	Outdoor		60	81	105				143		
Refrigerant piping	Liquid line	mm	Ø9.52						Ø12.7		
	Gas line		Ø15.88						*Refer to technical manual		
	Connection method		Flare Connection						*Refer to technical manual		
Refrigerant R410A	Quantity	kg	2.95	3.8	4.5				7.2		
	Pre charged to pipe length	m	30								
Maximum pipe length		m	50		100				70*		
Supply air connection		mm	170x880	348x898						250x1450	
Return air connection		mm	200x740								
Controller			RC-E5, RC-EX1A or RCN-KIT3-E								
Safety pan			UA-SP1-E (Optional)	UA-SP2-E (Optional)							

Ducted Range

FDUM

Duct connected - Medium static pressure

Range available from 5.0kW - 14.0kW



Remote control (Options)

Wired



RC-EX1A



RC-E5



RCH-E3

Wireless



RCN-KIT3-E



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FDUM

Set			FDUM50ZMXAVF	FDUM60ZMXAVF	FDUM71AVNXVF1	FDUM90VNPVF1	FDUM100AVNVF1	FDUM125AVNXVF	FDUM140AVNXVF	FDUM140AVSXVF	
Indoor			FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF1	FDUM100VF1	FDUM125VF	FDUM140VF	FDUM140VF	
Outdoor			SRC50ZMXA-S	SRC60ZMXA-S	FDCA71VNX	FDC90VNP	FDCA100VN	FDCA125VNX	FDCA140VNX	FDCA140VSX	
Power supply	Outdoor Unit		1 Phase 220-240V 50Hz								3 Phase 415V 50Hz
Capacity	Cooling T1	kW	5.0 (2.2-5.6)	5.6 (2.8-6.3)	7.1 (3.2-8.0)	9.0 (1.9-9.0)	10.0 (4.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-14.5)	14.0 (5.0-14.5)	
	Heating H1		5.4 (0.6-6.3)	6.7 (0.6-7.1)	8.0 (3.6-9.0)	9.0 (1.9-9.0)	11.2 (4.0-12.5)	14.0 (4.0-17.0)	16.0 (4.0-18.0)	16.0 (4.0-16.5)	
	Heating H2		4.3	4.9	7.0		11.4	13.7	14.3		
Input	Cooling T1	kW	1.56	1.75	2.20	2.65	2.92	3.60	4.40	4.40	
	Heating H1		1.70	2.00	2.20	2.25	3.20	3.90	4.54	4.54	
EER	Cooling T1		3.21	3.20	3.23	3.40	3.42	3.47	3.18	3.18	
COP	Heating H1		3.18	3.35	3.64	4.00	3.50	3.59	3.52	3.52	
Sound pressure level (JIS C9612)	Indoor	dB(A)	P-Hi:37 Hi:32 Me:29 Lo:26	P-Hi:36 Hi:31 Me:28 Lo:25	P-Hi:38 Hi:33 Me:29 Lo:25	P-Hi:44 Hi:38 Me:36 Lo:30	P-Hi:44 Hi:38 Me:36 Lo:30	P-Hi:45 Hi:40 Me:34 Lo:29	P-Hi:47 Hi:40 Me:35 Lo:30	P-Hi:47 Hi:40 Me:35 Lo:30	
	Outdoor		50	54	51	55	49	50	49	49	
Sound power level (JIS C9612)	Outdoor		63	64	66	69	70		72	70	
Airflow	Indoor	l/s	P-Hi: 217 Hi: 167 Me: 150 Lo: 133	P-Hi:333 Hi:250 Me:217 Lo:167	P-Hi: 400 Hi: 316 Me: 250 Lo: 166	P-Hi: 600 Hi: 467 Me: 417 Lo: 317	P-Hi: 600 Hi: 467 Me: 417 Lo: 317	P-Hi:650 Hi:533 Me:433 Lo:333	P-Hi:800 Hi:583 Me:467 Lo:367	P-Hi:800 Hi:583 Me:467 Lo:367	
External static pressure		Pa	100@217l/s	100@333 l/s	100@400 l/s	100@600 l/s	100@600 l/s	100@650 l/s	100@800 l/s	100	
External dimensions (HxWxD)	Indoor	mm	280x750x635	280x950x635			280x1370x740				
	Outdoor		640x800(+71)x290		750x880(+88)x340	750x880(+88)x340	845x970x370	1300x970x370			
Net weight	Indoor	kg	29	34	34	54					
	Outdoor		45		60	57	81	105			
Refrigerant piping	Liquid line	mm	Ø6.35		Ø9.52	Ø9.52/Ø6.35/Ø6.35	Ø9.52				
	Gas line		Ø12.7		Ø15.88						
	Connection method		Flare Connection								
Refrigerant R410A	Quantity	kg	1.5		2.95	2.1	3.8	4.5			
	Pre charged to pipe length	m	15		30	15	30				
Maximum pipe length		m	30		50	30	50	100			
Supply air connection		mm	170x680			170x1200					
Return air connection		mm	200x660			235x1280					
Controller	2 wire or infrared		RC-E5, RC-EX1A or RCN-KIT3-E								

Ducted Range

Before starting use

Heating performance

The heating performance values (kW) described in catalog are the values obtained by operating at an outdoor temperature of 7°C and indoor temperature of 20°C as set forth in the ISO Standards. As the heating performance decreases as the outdoor temperature drops, if the outdoor temperature is too low and the heating performance is insufficient, use other heating appliances as well.

Indication of sound values

The sound values are the values (A scale) measured in a chamber such as an anechoic chamber following the ISO Standards. In the actual installation state, the value is normally larger than the values given in the catalog due to the effect of surrounding noise and echo. Take this into consideration when installing.

Use in oil atmosphere

Avoid installing this unit in an atmosphere where oil scatters or builds up, such as in a kitchen or machine factory.

If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

Use in acidic or alkaline atmosphere

If this unit is used in acidic atmosphere such as hot spring areas having high level of sulfuric gases or in alkaline atmosphere including ammonia or calcium chloride, places where the exhaust of the heat exchanger is sucked in, or at coastal areas where the unit is subject to salt breezes, the outer plate or heat exchanger, etc., will corrode. Please ask a dealer or specialist when you use an air conditioner in places differing from a general atmosphere.

Use in places with high ceilings

If the ceiling is high, install a circulator to improve the heat and air flow distribution when heating.

Refrigerant leakage

The refrigerant (R410A) used for Air conditioner is non-toxic and nonflammable in its original state.

However, in consideration of a state where the refrigerant leaks into the room, measures against refrigerant leaks must be taken in small rooms where the tolerable level could be exceeded. Take measures by installing ventilation devices, etc.

Use in snowy areas

Take the following measures when installing the outdoor unit in snowy areas.

Snow prevention

Install a snow-prevention hood so that the snow does not obstruct the air intake port or enter and freeze in the outdoor unit.

Snow piling

In areas with heavy snow fall, the piled snow could block the air intake port. In this case, a frame that is 50cm or higher than the estimated snow fall must be installed underneath the outdoor unit.

Automatic defrosting device

If the temperature is low, and the humidity is high, frost will stick to the heat exchanger of the outdoor unit. If use is continued, the heating performance will drop.

The "Automatic defrosting device" will function to remove this frost.

After heating for approx. three to ten minutes, it will stop, and the frost will be removed. After defrosting, hot air will be blown again.

Servicing the air-conditioner

After the air-conditioner is used for several seasons, dirt will build up in the air-conditioner causing the performance to drop. In addition to regular servicing, we recommend the maintenance contract (charged for) by a specialist.

Safety Precautions

Air-conditioner usage target

The air-conditioner described in this catalog is a dedicated cooling/heating device for human use.

Do not use it for special applications such as the storage of foodstuffs, animals or plants, computer server rooms, precision devices or valuable art, etc.

This could cause the quality of the items to drop, etc.

Do not use this for cooling vehicles or ships. Water leakage or current leaks could occur.

Before use

Always read the "User's Manual" thoroughly before starting use.

Installation

Always commission the installation to a dealer or specialist. Improper installation will lead to water leakage, electric shocks and fires.

Make sure that the outdoor unit is stable in installation. Fix the unit to stable base.

Usage place

Do not install in places where combustible gas could leak or where there are sparks.

Installation in a place where combustible gas could be generated, flow or accumulate, or places containing carbon fibers could lead to fires.

Only persons that are qualified and licensed are permitted to install and service products that contain refrigerants in Australia, go to www.arctick.org. Suitable access for service must be provided in compliance with industry standards and local regulations.

Proudly supporting



MITSUBISHI HEAVY INDUSTRIES
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ISO9001

Our Air Conditioning & Refrigeration Systems Headquarters is an ISO9001 approved factory for residential air conditioners and commercial-use air conditioners (including heat pumps).



BIWAJIMA PLANT
Mitsubishi Heavy Industries, Ltd.
Air-conditioning & Refrigeration Systems Headquarters
Certified ISO 9001
Certificate number: JQA-0709



MITSUBISHI HEAVY INDUSTRIES-
MAHAJAK AIR CONDITIONERS CO., LTD.
Certified ISO 9001
Certificate Number: 04100 1998 0813

ISO14001

Our Air Conditioning & Refrigeration Systems Headquarters has been assessed and found to comply with the requirements of ISO14001.



BIWAJIMA PLANT
Mitsubishi Heavy Industries, Ltd.
Air-conditioning & Refrigeration Systems Headquarters
Certified ISO 14001
Certificate number: JQA-EM0258



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