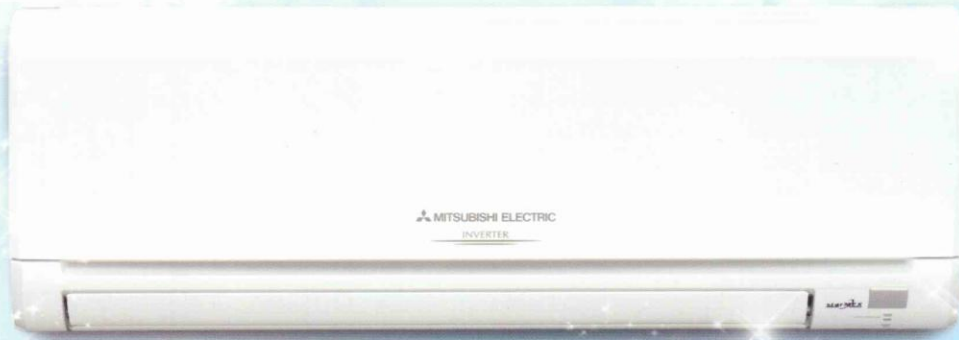


Mitsubishi Electric  
**starMEX**  
Air-Conditioner



The **No.1** Specialist in  
**Energy Saving**

At the leading-edge of air conditioning technology

**Excellent  
Energy  
Efficiency**

**Easiest  
to Clean!**

Reachable Inner Vent  
for Easy Clean

**Quietest!  
19dB**



All Mitsubishi Electric Starmex Inverter Air Conditioners have attained "Excellent" energy efficiency rating under the Singapore Mandatory Energy Labelling Scheme.



# EASY CLEAN

 Safety system stops the machine when the horizontal vane is removed.

THE WIDE AIR OUTLET MAKES CLEANING EASY,  
ALWAYS KEEPING THE AIR IN YOUR ROOM  
**CLEAN AND FRESH.**



## EASY CLEAN's unique cleaning system

Open the blower outlet for cleaning



Vertical vanes



Front panel



Fan

The entire front panel can be washed



Easy removal



Scrub clean

Thorough cleaning keeps your home healthier and more comfortable.

### Eliminates odours

Always bringing you fresh air

### Prevents mould

The mould guard (internal drier) always keeps the inside unit clean

### Longer lasting high performance

Consistent performance from time of purchase

### Economical energy costs

Cleaning the fan (25%), the heat exchanger (5%) and the filter (15%) increases energy savings by a total of up to 45%!



# Cleaning-Free, Pipe Reuse Technology

*It is a fact that the world's ozone layer is being depleted.*

Many scientists believe that refrigerants that contain hydrochlorofluorocarbons such as HCFC-R22 with chlorine are a contributing factor to this problem. R410A – a chlorine-free, non-inflammable, environmentally friendly and energy efficient refrigerant offers a new alternative. In addition to the properties just mentioned, R410A is as easy to handle as the environmentally unfriendly R22 because of its pseudoazeotropic characteristics. R410A is also highly efficient and provides the same level of performance as R22.



	Composition	Ozone depletion potential factor*	Toxicity	Stability
NEW REFRIGERANT <b>R410A</b>	Non-uniform boiling point composite refrigerant (HFC:R32/R125=50/50WT%)	<b>0</b>	<b>NON</b>	<b>GOOD</b>
CURRENT REFRIGERANT <b>R22</b>	Single component refrigerant (HCFC:R22=100WT%)	<b>0.05</b>	<b>NON</b>	<b>GOOD</b>

\* Relative value when CFC is considered as 1

## Mitsubishi Electric's Cleaning-Free Technology

Our R410A Inverter-driven models are the first in the industry to use hard alkyl benzene (HAB) oil — a unique refrigerant oil that degrades very slowly — for refrigeration. Employing our exclusive cleaning-free technologies such as a specially developed high-efficiency oil separator and optimum distribution of heat exchangers to prevent oil stagnation, we have made it possible to reuse previously installed R22 pipeworks.



**QUESTION:** In general, why is the reuse of existing R22 pipework not allowed for models with R410A HFC refrigerant?

**ANSWER:** This is because existing R22 pipework contains moisture and chloride residue that, when mixed with compressor's ester oil, can result in a chemical reaction. Additionally, refrigerant oil sludge and corrosion within the compressor can clog up the refrigerant circuit.

ORIGINAL HAB Oil	ORDINARY ESTER Oil
<ul style="list-style-type: none"> <li>No special cleaning required</li> <li>Re-use existing pipes</li> <li>Cleaning / Purging process</li> <li>Special tools (Oil trap kit)</li> <li>Higher working pressure</li> </ul>	<ul style="list-style-type: none"> <li>Formation of Sludge</li> <li>Clogging</li> <li>Premature breakdown of equipment</li> <li>Strip and replace existing R22 pipes</li> </ul>
<p>Mitsubishi Electric's original HAB oil</p>	<p>Ordinary ester oil</p>
<p>Refrigerant circuit lasts longer with less deterioration using the new HAB refrigerant oil.*</p> <p>*Data taken from our lab: Test results equivalent to 10 years worth of use</p>	

**1st**  
in the  
Industry!

### MITSUBISHI ELECTRIC'S SOLUTION: **FLUSH, VACUUM & INSTALL!**

Mitsubishi Electric's exclusive cleaning-free, Pipe-reuse technology allows you to reuse existing R22 refrigeration piping even when installing a new R410A model.



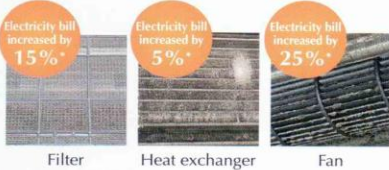
# Easy, Clean & Comfortable



## Easy Clean Design

The easily detachable panel is a snap to wash and the airflow vents can be opened without any special tools for quick cleaning of the inside of the air conditioner. It is recommended that the air conditioner be cleaned regularly as this will increase both operating efficiency and energy-savings. Always clean the heat exchanger, fan and air vent to ensure proper performance and economical operation. It reduces your electricity bill by approx. 45%\*.

\*Electricity bill comparison of operation under fixed temperature with 8 grams of soil on the fan and one without. Based on internal company data.



## Electrostatic Anti-Allergy Enzyme Filter

The filter is charged with static electricity, enable it to trap allergens such as molds and bacteria and decompose them using enzymes retained in the filter.

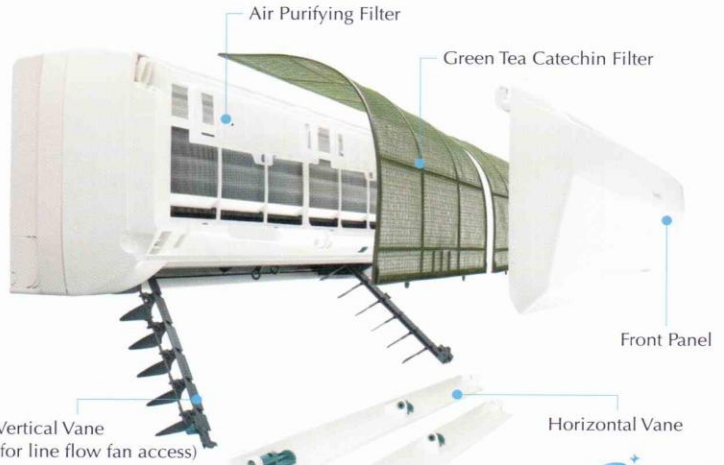


## Anti-Allergy Enzyme Filter

To counter allergens, we have added filters featuring artificial blue enzymes with the power to remove harmful microbes such as bacteria<sup>\*1</sup>, virus<sup>\*2</sup>, dust mites<sup>\*3</sup>, pollen<sup>\*3</sup>, etc.

The enzymes destroy any germs caught in the filter, preventing them from working their way further inside the air conditioner. However, being artificial enzymes, they prevent allergies while remaining gentle on the human body.

(Confirmed by \*1 Japan Spinners Inspecting Foundation Test No. 007715-1,2 \*2 Japan Food Research Laboratories Ref. No.20491448-002 \*3 Shinshu University)



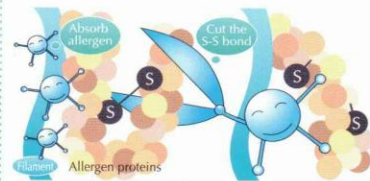
### Easy Cleaning Procedure



1 First, turn off the power. Make sure the fan is not operating before this removal procedure. Unlock every green stopper of the upper horizontal vane and pull it towards the left to remove. Do the same thing to remove the lower horizontal vane. Safety system stops the blower when the horizontal vane is removed. 2 You can reach deep into the air-conditioner, in order to clean fans and other parts that are normally hard-to-reach. 3 Hold the central green handle and pull towards body to open.

### Anti-Allergy Enzyme filter mechanism

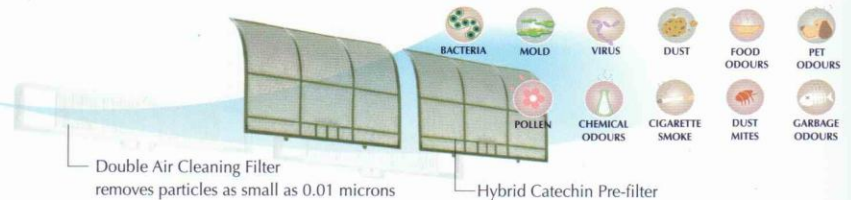
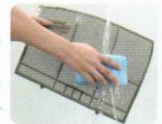
- 1 Artificial enzyme (meta-phthalocyanine) catalysts on the filament catch allergens.
- 2 The artificial enzyme catalysts aid the chemical reaction with oxygen and sever the S-S bonds.
- 3 Once the S-S bonds are severed, the proteins no longer act as allergens.



## Catechin Plus Air Purifying System

The Catechin offers many benefits through its deodorizing, anti-bacterial and anti-virus properties. These benefits can be experienced fully with our long-lasting Hybrid Catechin Pre-filter. At the same time, dust collection efficiency is doubled with our Double Air Cleaning Filter.

The filter can be easily removed and when washed regularly, deodorizing effectiveness should last for more than 10 years.







### Nano Platinum Filter

The filter has a large capture area and incorporates nanometre-sized platinum-ceramic particles that work to kill bacteria and deodourise the circulating air. Better dust collection than conventional filters is also ensured.



### Fuzzy Logic "I Feel"

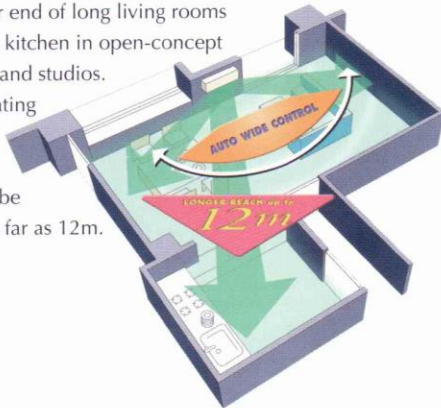
Is the room too hot or cold, too dry or humid? On auto mode selection, the fuzzy logic control system adjusts conditions to suit you. Your selected temperature setting is stored in the memory system and reproduced automatically each time you operate your air conditioning.



### Wide & Long Airflow

Bringing extra comfort to your life, left-right vane can be automatically controlled by remote controller. Simply use of Wide-vane mode, you can easily adjust direction of airflow to reach any corner of the room. The high-power motor combines with a newly designed "Long mode" to push air out further, providing an extended airflow that can reach the far end of long living rooms or reach the kitchen in open-concept living areas and studios.

When operating in Long mode, the airflow can be extended as far as 12m.



## WIDE & LONG

Improved efficiency with 7-way airflow

By combining the use of the Wide-vane mode and Long and vane mode, you can adjust airflow horizontal 7 directions and vertical 6 directions. Exclusive to Mitsubishi Electric, this advantage ensures maximum control over air direction and flow up to 42 ways, which guarantee that the air conditioning effect isn't wasted, where it isn't needed.



### Powerful Cool

The automatic, one-touch Powerful Cool system ensures faster cooling. It produces 10% more airflow than the "high fan" speed, cooling the room in less than 15 minutes, then automatically returning to the regular setting.



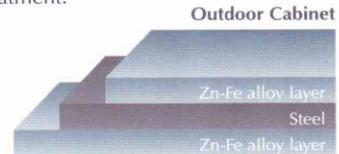
### Auto Mode

We offer you an easy way to comfort with auto mode. "Auto vane" is created to set the vane angle automatically. "Auto fan" is created to adjust airflow speed automatically. These could let ideal temperature to be achieved in the shortest amount of time.



### Anti-Rust Treatment

Every cabinet of the outdoor unit has been applied with a special anti-rust treatment.



### LCD Remote Control

From temperature and operation modes to air volume and direction, you'll be able to customise your environment at the touch of a button. Large, easy-to-identify buttons allow for easy access to frequently used functions. The generous LCD display lets you check temperature and other operating conditions at a glance, while an easy-open slide cover prevents inadvertent operation of preset controls and other functions.

### Luminous Buttons

The remote controller features luminous buttons that make use easy even in the dark environment.



# Non-Inverter Multi Split System



Mitsubishi Electric also offers a versatile line of conventional non-inverter air-conditioners featuring multi-system capability. The MS EASY CLEAN Series is the latest air-conditioner line up, featuring the highly effective Catechin Plus Air Purifying System. This new line also offers quieter operation, and has a distinctive design that not only looks appealing, but also is easier to clean.



## MUX-BD Series

### Indoor Unit



Dimensions (W x D x H): 815 x 244 x 278 mm



#### MS-B10VB

Cooling capacity: 2.85kW\*

#### MS-B13VB

Cooling capacity: 3.45kW\*



### Outdoor Unit

**2 Rooms** MUX-2BD21VB Outdoor unit 1:2 Indoor units

**3 Rooms** MUX-3BD23VB Outdoor unit 1:3 Indoor units

**4 Rooms** MUX-4BD26VB Outdoor unit 1:4 Indoor units

Certain unit combinations are not compatible. Please refer to the configuration pattern charts on the page 25 for more details.

