

Panasonic BUSINESS

Branch of Panasonic Asia Pacific Pte. Ltd.

Panasonic Cambodia Service Centre

#327-329, Sihanouk Blvd., Sangkat Vealvong Khan 7 Makara, Phnom Penh, Cambodia

Tel: 023 215 503

Panasonic Cambodia Office Tel: 023 260 156

Cambodia Facebook Page: https://www.facebook.com/PanasonicBusinessKH/

PROClub: panasonicproclub.global Global Site: aircon.Panasonic.com











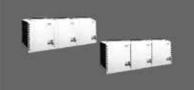




- Panasonic (using the National brand) introduces its first Home Cooler, a window-type air conditioner mod
 Electrical Appliance Business Group (Kadoma) starts manufacture of Home Coolers
 Sales of Home Coolers begin

Starts exports of Home Coolers to South Vietnam





1965 Launches Room Coolers



- Begins development of rotary compressors
 The high efficiency and quality of these compressors draws interest from domestic and overseas air conditionermanufacturers
- · External sales begin

Releases world's first large-capacity modular combination VRF system with simultaneous heating/cooling

Launches world's first air conditioner equipped with compact scroll compressor



Releases world's first large-capacity modular combination VRF system
 Establishes Matsushita-Wanbao (Guangzhou) Air Conditioner (MWAC)
 Establishes Matsushita-Wanbao (Guangzhou) Compressor (MWCC)
 Establishes Matsushita Air Conditioner Engineering (Matsushita ACE)

The lon and Oxygen Generator - two of the most important contributions to air conditioning system





- 1972

- MAICO, the Division's first overseas manufacturing base,established in Malaysia
 Starts exports from MAICO to Japan, Indonesia, Australia, and other markets
 Begins operating twin-base system out of Japan and Malaysia



Launches FSV series of large-capacity VRF air conditioners



1985

Panasonic becomes the first Japanese



- Launches inverter air conditionersStarts sales of Panasonic's first inverter air
- Inverters grow to become core technology in air conditioner industry
 • Starts shipments of air conditioners to Panasonic



2003

Expands VRF operation in Malaysia



Inhibits 5 Types of Pollutants















Deodorises and inhibits various pollutants

in the air and on surfaces, even in fabrics.



Asthma and allergy friendly

worldwide live better with asthma and allergies.

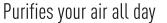
Moisturises

Dust Removal (PM2.5)



Dust (PM2.5)





nanoeX

• nanoe™ Technology is able to function independently to continue purifying and deodorising your living space.



Natural H₂O particles

• nanoe TM X is generated from moisture in the air that contains highly reactive components known as hydroxyl (OH) radicals.





• nanoe™ X is approved by Sensitive Choice that helps consumers



Lasts more than 600 secs in the air

Longer life span of nanoe™ X particles

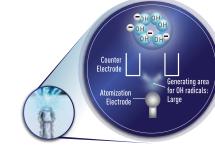
• 6-fold* longer lifespan enables OH radicals to reach a greater

 $\ensuremath{^{^{\circ}}}$ The lifespan of general air ions (negative ions) ranges from the tens of seconds to 100 seconds



Effective on fabrics and surfaces

• nanoe™ X particles deodorise and inhibit pollutants on surfaces and even penetrate deeply into fabrics.



Maintenance-free

 nanoe[™] X generator device requires no maintenance as nanoe[™] X is generated from water in the air.



Safe and non-chemical particles

• Safety of nanoe™ X has been tested and proven by institutes and laboratories. Visit our website for a list of safety test data. https://www.panasonic.com/global/corporate/technology-design/technology/nanoe.html

















AIR CONDITIONING

Residential Air Conditioners

Capacity (Btu/h)	9,000	10,000	12,000	13,000	18,000	24,000	28,000	45,000	Feat	ures
Wall-Mounted ELITE INVERTER Page 30-31		CS-VU10UKH		CS-VU13UKH	CS-VU18UKH				TECHNOLOGY I AUTO INTELLIGENT, DYNAMG, COOL.	SKYWING INVERTE: XTRA QUIET18 (ICS-VUIDUKH)
Wall-Mounted X-PREMIUM INVERTER Page 32-33		CS-XU10VKH		CS-XU13VKH	CS-XU18VKH	CS-XU24VKH			TECHNOLOGY I AUTO NTELLIGENT. DYNAMIG. GOOL.	AEROWING
Wall-Mounted PREMIUM INVERTER R32 Page 34-35		CS-U10VKH (CU-U10VKH)		CS-U13VKH (CU-U13VKH)	CS-U18VKH	CS-U24VKH [CU-U24VKH]			TECHNOLOGY I AUTO NIELLIGENT. OYNAMIC. CODL.	AEROWING
Wall-Mounted PREMIUM INVERTER R410A Page 36-37		CS-S10ТКН (сU-S10ТКН)		CS-S13TKH (CU-S13TKH)	CS-S18TKH (CU-S18TKH)	CS-S24TKH (CU-S24TKH)	CS-S28TKH (CU-S28TKH)		TECHNOLOGY I AUTO NTELLIGENT. DYNAMIG. GOOL.	A EROWING INVERTE INTELLIGENT ECONAM
NEW Wall-Mounted STANDARD INVERTER R32 Page 38-39	CS-PU9WKH		CS-PU12WKH		CS-PU18WKH				BIG FLAP	POWERFU
Wall-Mounted STANDARD INVERTER R410A Page 40-41	CS-PS9TKH (CU-PS9TKH)		CS-PS12TKH (CU-PS12TKH)		CS-PS18TKH (CU-PS18TKH)	CS-PS24TKH (CU-PS24TKH)			BIG FLAP	I AUTO INTELIGENT AUTO MO
NEW Wall-Mounted STANDARD NON-INVERTER R32 Page 42-43	CS-PN9WKH		CS-PN12WKH			CS-PN24WKH	CS-PN28WKH		BIG FLAP	POWERFU
Wall-Mounted STANDARD NON-INVERTER R410A Page 44-45	CS-PV9UKH		CS-PV12UKH		CS-PV18UKH (CU-PV18UKH)	CS-PV24UKH	CS-PV28UKH		BIG FLAP	INTELLIGENT AUTO MOI
FLOOR-STANDING Page 46							CS-E28NFQ (CU-E28NFQ)		(in i	/ERTER
FLOOR-STANDING Page 47					CS-C18FFH-E (CU-C18FFH-E)		CS-C28FFH-E (CU-C28FFH-E) CS-C28FFH8-E (CU-C28FFH8-E)	CS-C45FFH-E (CU-C45FFH-E)		















AIR CONDITIONING

Single-Split Packaged Air Conditioner INVERTER

Capacity (Btu/h)	11,600	16,000-17,100	19,400-20,500	24,200	29,000	34,100	39,200-42,700	47,800
4-WAY CASSETTE Standard Equipped TECHNOLOGY P.14-15		S-18PU2H5	S-21PU2H5	S-24PU2H5 Conange	S-30PU2H5	S-34PU2H5	S-43PU2H5	S-48PU2H5
MINI CASSETTE P.16-17	CS-S12MB4ZW	CS-S18MB4ZW	CS-S24MB4ZW					
CEILING EXPOSED P.18-19		S-18PT2H5	S-21PT2H5	S-24PT2H5	S-30PT2H5	S-35PT1H5	S-45PT1H5	S-55PT1H5
CEILING DUCTED P.20-21		S-18PF2H5	S-21PF2H5	S-24PF2H5	S-30PF2H5	S-35PF1H5	S-45PF1H5	S-55PF1H5

NON - INVERTER

Capacity (Btu/h)	17,400-18,500	22,200-23,000	24,600-25,000	27,000-28,000	30,000	36,000-36,500	42,600	42,500-45,000	48,500	51,000
4-WAY CASSETTE Optional 6- nance		.51		.,;;	J.		.3		,3	
P.14-15 NEW ///	S-18PU1H5	S-22PU1H5	S-25PU1H5	S-28PU1H5	S-30PU1H5		S-40PU1H5	S-45PU1H5	S-50PU1H5	
MINI CASSETTE P.16-17	CS-PC18DB4H	CS-PC24DB4H								
CEILING P.18-19		S-22PT1H5		S-28PT1H5		S-35PT1H5		S-45PT1H5		S-55PT1H5
DUCTED P.20-21		S-22PF1H5		S-28PF1H5		S-35PF1H5		S-45PF1H5		S-55PF1H5
FLOOR STANDING P.22-23	CS-C18FFH		CS-C28FFH					CS-C45FFH		







AIR CONDITIONING

FSV VRF SYSTEMS

EX ALL INVERTER

2-WAY FSV-EX ME2 Series NEW

Extraordinary energy-saving performance and powerful operation

Space-saving Combination Model

Cooling or Heating Type **New Hi-Durability**

- Wide range of systems from 8HP to 80HP
- Class-leading EER of 5.3 (for 8HP model)
- Industry-leading low noise of 53.0 DB (8HP model)
- Cooling operation possible with outdoor temperature as high as 52°C (DB)
- Long maximum pipe length (up to 1,000 m)
- Up to 64 indoor units connectable
- External static pressure of 80 Pa
- Extended operating range allows heating with outdoor temperatures as low as -25°C (WB)
- Suitable for R22 refurbishing projects



High Efficiency Combination Model

Heating Type

New Hi-Durability Model

- Wide range of systems from 8HP to 64HP
- Class-leading EER of 5.3 (for 8HP model)
- Higher EER than the Space-saving Combination Model e.g., a combination of two 10HP units delivering 20HP reduces compressor load



2-WAY Mini-FSV LE1 & LE2 For small-scale commer and residential use

Industry - Leading EER and COP

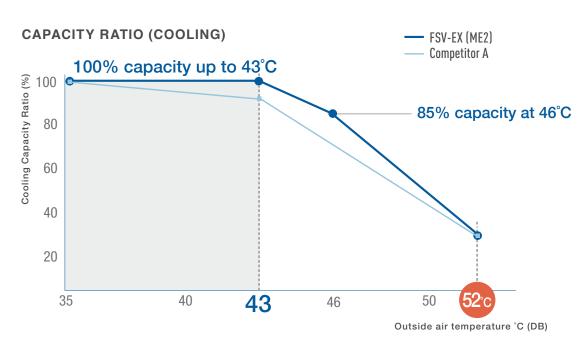
Cooling or Heating Series, 1 phase or 3 phase

- Class-leading EER: 4.3 / COP: 4.62 (for 4HP model)
- Cooling operation is possible when outdoor temperature is as high as 46°C DB
- Wide range of system from 4HP to 10HP
- 4,5,6 HP for LE2 model available from Oct 2017



Full-capacity Operation up to 43°C

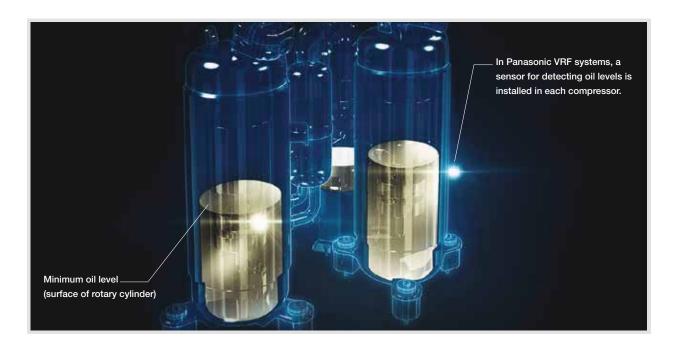
The FSV-EX can provide cooling even when the outside temperature reaches a maximum of about 52°C. And amazingly, it can still operate at 100% capacity when the outside temperature is as high as 43°C. This high power capability enables reliable operation even under extremely high temperature conditions.





VRF with Extraordinary Energy-Saving **Performance and Powerful Operation EER5.3(U-8ME2H7)**

















SYSTEM SOLUTIONS

VIDEO INTERCOM

Analogue



Single House





Stylish Design and Rich Features



























BATHROOM INNOVATIONS

Tank Type Home Shower



Ultimate Safety

- 1. IPX4 Waterproof Case
- Multi-directional water resistance.Complies to high safety standards: IPX4
- 2. Non-Combustible Material
- Protection against fire and burns.

Energy Saving

Patented Heat Insulation



Maintenance-Free*1

Stainless Steel Tank*2

Ultimate Safety

IPX4 Waterproof Case

Made in Japan 🛑







Built-In Earth Leakage Breaker (ELB)

Ultimate Safety

- Prevents electric shocks with mechanical type,
- Power supply (Neutral and Live lines) cuts off automatically when there is current leakage.

COLD CHAIN

Energy Saving Superior Heating Technology

- Shorter heating time to heat maximum volume of water from 20°C to 75°C.

• No periodical placement is required.

Maintenance-Free*1 Heating Rod

Maintenance-Free*1

Electric Bidet



Comfort, clean and environmentally friendly Bidet solution





Bottle Cooler











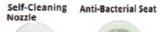




























PROJECT REFERENCE

RESIDENTIAL

China Star River Group Luxury Condominium



Air Conditioning System: VRF Master series 966 systems Indoor Units: 3,948 systems 16,737 kW / 4,755 USRT



Singapore Punggol Eco-Town



Air Conditioning System: Inverter multi-split room air conditioner Indoor Units: Wall mounted S series (with ECOVAVI) Control System: Panasonic HEMS



Hong Kong Gloucester Road Project



VRF FSM LA1 series 67 systems Twenty series 105 systems Indoor Units: 255 units Cooling Capacity: 1,391 kW / 395 USRT

Hong Kong The Green Project



Air Conditioning System:
VRF FSM LA1 series 239 systems Twenty series 538 systems Indoor Units: 999 units 6,425 kW / 1,825 USRT



India Royal Orchids Eco-Green Homz



VRF 2-way FSV ME1 series 22 systems, Indoor Units: 139 units 802 kW / 228 USRT



India Heera Windfaire



Air Conditioning System: VRF 2-way FSV ME1 series 96 systems, VRF 3-way 12 systems Indoor Units: 479 units Cooling Capacity: 2,184kW / 620 USRT

Panama Mosaic Building PANAMA PACIFICO



VRF 2-way FSV LE1 series 156 systems Cooling Capacity: 2,338 kW / 664 USRT

Cambodia HCN Mall and Resident



FSV VRF series 4 systems Indoor Units: 100 units

Cambodia TK Royal



Air Conditioning System: FSV VRF 15 systems Indoor Units: 740 units



Cambodia The Penthouse Residence



Air Conditioning System: FSV VRF series 83 systems Indoor Units: 1357units

Cambodia The Gateway



Air Conditioning System: FSV VRF series 20 systems Indoor Units: 314 units



MALL

Cambodia Chip Mong Noro Mall



Air Conditioning System: FSV VRF series 10 systems Indoor Units: 125units









