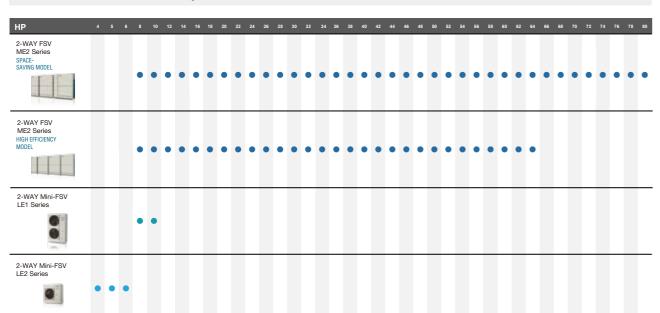
### **Product Lineup**

# **FSV Indoor Unit Lineup**

	Class		28	36	45	56	60	73	90	106	140	160	180	224	280
Туре	Capacity	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating	Cooling/ Heating
	kW BTU/h	2.2/2.5 7,500/8,500	2.8/3.2 9,600/11,000	3.6/4.2 12,000/14,000	4.5/5.0 15,000/17,000	5.6/6.3 19,000/21,000	9.0/10.0 30,000/34,000	9.0/10.0 30,000/34,000	9.0/10.0 30,000/34,000	10.6/11.4 36,000/39,000	14.0/16.0 47,600/54,600	16.0/18.0 54,600/61,500	18.0/20.0 61,400/68,200	22.4/25.5 76,400/85,300	28.0/31.5 95,500/107,500
F2 type Mid Static Ducted		•	•	•	•	•	•	•	•	•	•	•			
M1 type Slim Low St	ratic Ducted	•	•	•	•	•									
Z1 type Slim Low St Ducted Twe		•	•	•	•	•	•	•							
E2 type High Static Energy Savi	Ducted / ng High-Fresh Air Ducted												•*	•	•
E1 type High Static	Ducted							•		•	•			•	
K2 type Wall Mounte	ed	•	•	•	•	•		•		•					
U2 type 4-Way Cass Panel No. CZ-I Panel No. CZ-I	KPU3	•	•	•	•	•	•	•	•	•	•	•			
Y2 type 4-Way Mini Panel No. C		•	•	•	•	•									
L1 type 2-Way Cass Panel No. CZ-0 Panel No. CZ-0	sette 12KPL2 03KPL2 (Only for S-73ML1E5)	•	•	•	•	•		•							
D1 type 1-Way Cass Panel No. C			•	•	•	•		•							
T2 type Ceiling				•	•	•		•		•	•				
P1 type Floor Stand	ing	•	•	•	•	•		•							
R1 type Concealed I Standing	Floor	•	•	•	•	•		•							

<sup>\*</sup>Only for High Static Ducted
\*\*Only for CZ-KPU3A

### **FSV Outdoor Unit Lineup**





Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of other refrigerant.

# **Panasonic**

Panasonic Manufacturing Philippines Corporation (PMPC) Ortigas Avenue Extension, Taytay, Rizal 1920 PHILIPPINES http://aircon.panasonic.com http://panasonic.com/ph

### **Panasonic BUSINESS**

# **FSV VRF SYSTEMS** 2019 / 2020

Simplified Version





Residential & Light Commercial Use









### 2-WAY FSV-EX ME2 Series



Extraordinary energy-saving performance and powerful operation



#### **Space-saving Combination Model**

Cooling or Heating Type

#### Hi-Durability Model

- 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**

Cooling or Heating Type 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

### FSV INVERTER

### 2-WAY Mini-FSV LE2/LE1 Series

For small-scale commercial and residential use





Cooling or Heating Type 1/3-phase

4/5/6 HP

- High external static pressure 35Pa
- Wide operation range: Cooling: -10°C to 46°C DB, Heating at: -20°C to 18°C WB
- Refrigerant chargeless up to 50m
- Extraordinary energy saving: 5.08 EER for 4HP model
- Suitable for R22 renewal projects
- Maximum number of connectable indoor units : 9'
- \* 6 HP only; 4 HP for 7 units, 5 HP for 8 units.

Cooling or Heating Type 3-phase



- High external static pressure 35Pa
- Wide operation range: Cooling: -10°C to 46°C DB, Heating at: -20°C to 18°C DB
- Actual piping length: 150m (Total piping length: 300m)
- System difference of elevation:50m /40m (outdoor above/below)
- Difference in elevation between indoor units:15m
- Suitable for R22 renewal project
   Maximum number of connectable indoor units: 13

### **VRF Smart Connectivity+**

VRF Smart Connectivity+ offers efficient energy management and a new air conditioning control solution with high IAQ.



Schneider Electric smart controller SE8000









#### Energy Management System for Rooms

Sensing & Control technology
Detecting a room's temperature, humidity and CO2 concentration, ZigBee remote sensors detect the opening/closing of windows and doors, and the presence/absence of people in a room. Various IAQ controls and detailed energy savings are possible by using TE2 (Relay Pack) based on this detected information.

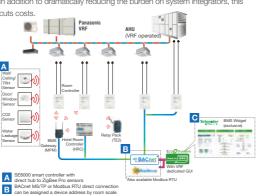


#### Management System for the Entire Building

Plug and Play BMS connection.

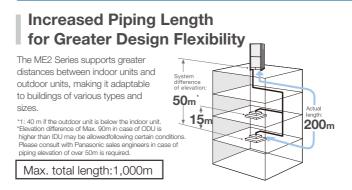
With the SE8000, connection to BMS is extremely easy. Better still, a remote controller is all that's needed to enable use as a stand-alone system.

In addition to dramatically reducing the burden on system integrators, this



#### Flexible Installation

(FSV-EX ME2 Series)



# Single Outdoor Units Combine to Expand Capacity up to 80HP

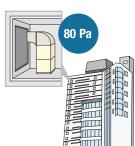
Designed to be durable enough to withstand extreme heat, FSV EX ensures reliable cooling operation over an extended operation range up to 52°C.



 $^{\star}\mbox{High efficiency combination model provides capacity up to 64HP.}$ 

# High External Static Pressure On Condensers

With a newly designed fan, fan guard, motor, and casing, new models can be custom-installed on-site to provide up to 80 Pa of external static pressure. An air discharge duct prevents shortages of air circulation, allowing outdoor units to be installed on every floor of a building.



## Up to 64\* Indoor Units can be connected

Flexibility in piping makes it easier to design air conditioning systems for locations such as train stations, airports, schools, and hospitals



\*Maximum number of indoor units depends on outdoor unit capacity

### High Efficiency

(FSV-EX ME2 Series)

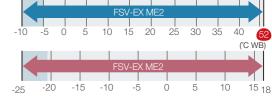
# High Reliability Even Under High Temperature Conditions

Designed to be durable enough to withstand extreme heat, FSV EX ensures reliable cooling operation over an extended operation range up to 52°C.

### Extended operating range (Outside air temperature)



Cooling



#### **Advanced Control Solutions**

OPERATION SYSTEM		INDIVIDUAL CO	NTROL SYSTEMS		TIMER OPERATION	CENTRALISED CONTROL SYSTEMS					
Requirements	High-spec	Normal	Operation from anywhere	Quick and easy operation	Daily and weekly program	Operation with various functions from	Only ON/OFF operation from	Simplified load distribution ratio (LDR) for each tenant	BMS System PC Base	Connection with 3rd Party Controller	
	operation	operation	in the room			a central location	a central location	10.4 in. touch screen panel color LCD	P-AIMS Software	Seri-Para I/O unit for outdoor unit	
External appearance	\$ 28 P	3.00	<b>製造</b> 日 7 日 年		ACRESS —	1111	Company Compan	2.2	Up to 1024 units	CZ-CAPDC2 Interface Adaptor	
Type, model name	High-spec Wired Remote Controller	Timer Remote Controller (Wired)	Wireless Remote Controller	Simplified Remote Controller	Schedule Timer	System Controller	ON/OFF Controller	Intelligent Controller	Optiona Software	CZ-CAPC3 Seri-Para I/O unit	
	CZ-RTC5B	CZ-RTC4	Controller:CZ-RWS3 Receiver: CZ-RWRU3 CZ-RWRL3 CZ-RWRD3 CZ-RWRT3 CZ-RWRC3	CZ-RE2C2	CZ-ESWC2	CZ-64ESMC3	CZ-ANC3	CZ-256ESMC3 (CZ-CFUNC2)	CZ-CSWAC2 for Load distribution CZ-CSWWC2	cz-capecz Communication Adaptor	
Built-in thermostat	•	•	-	•	_	-	-	-	for Web application CZ-CSWGC2		
ECONAVI ON/OFF control	•	•	•	-	-	•	-	•	for Object layout display CZ-CSWBC2	LonWorks Interface	
Number of indoor units which can be controlled	1 group, 8 units	1 group, 8 units	1 group, 8 units	1 group, 8 units	64 groups, max. 64 units	64 groups, max. 64 units	16 groups, max. 64 units	64 units x 16 systems, max. 256 units	for BACnet software interface *PC required (field supply)	CZ-CLNC2	