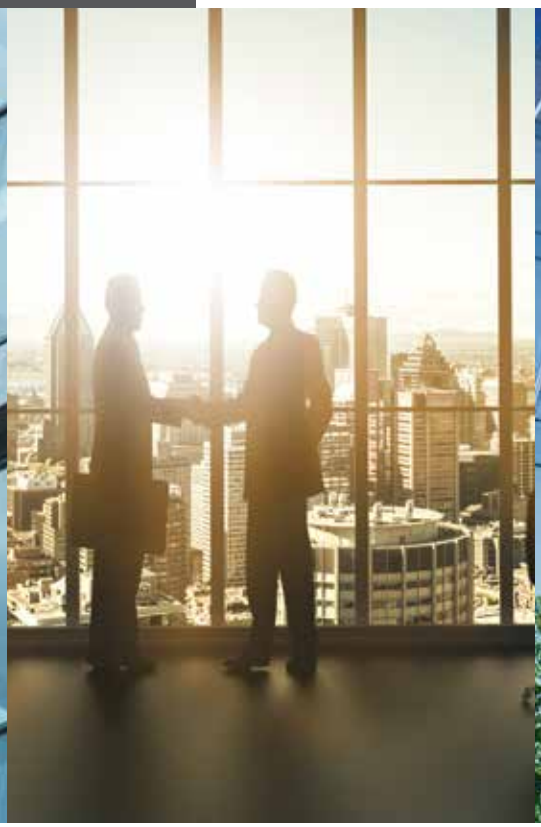
Panasonic

Connect with your smartphone using this QR.

Product information

Technical documents
Download from PRO CLUB

VRF SYSTEMS



Residential &
Light Commercial Use

R32

FSV

Residential &
Light Commercial Use

R410A

FSV EX

Commercial Use

R410A

nanoeX INVERTER DRED ready MEPS COMPLIANT

QUALITY AIR FOR LIFE

VRF Systems

VRF systems are designed for energy savings, high efficiency, and high durability with strong cooling power even operating at high ambient temperature.
Panasonic continuously apply advanced technologies to meet the requirements of diverse situations and contribute to the creation of comfortable living spaces.

FSV EX ALL INVERTER

2-PIPE FSV-EX ME2 Series

R410A

Extraordinary energy-saving performance and powerful operation

Space-saving Combination Model

Cooling or Heating Type | **Anti-Corrosion Model**

- Wide range of systems from 22.4 kW to 224.0 kW
- Class-leading EER of 4.7 (22.4 kW model)
- Industry-leading low noise of 54dB (22.4 kW model)
- Cooling operation possible with outdoor temperature as high as 52 ℃ (DB)
- Long pipe length (up to 1,000 m)
- Up to 64 indoor units connectable
- External static pressure up to 80 Pa
- Extended operating range allows heating with outdoor as low as -25 ℃ (WB)
- Suitable for R22 renewal projects*

*(Please refer to technical document for further details) RENEWAL R22

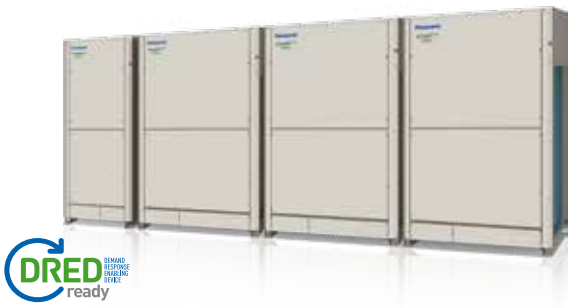
R410A

High Efficiency Combination Model

Cooling or Heating Type | **Anti-Corrosion Model**

- Wide range of systems from 22.4 kW to 180.0 kW
- Higher EER than the Space-saving Combination Model

(Please refer to page 30 and 31 for details)



FSV EX ALL INVERTER

3-PIPE FSV-EX Series

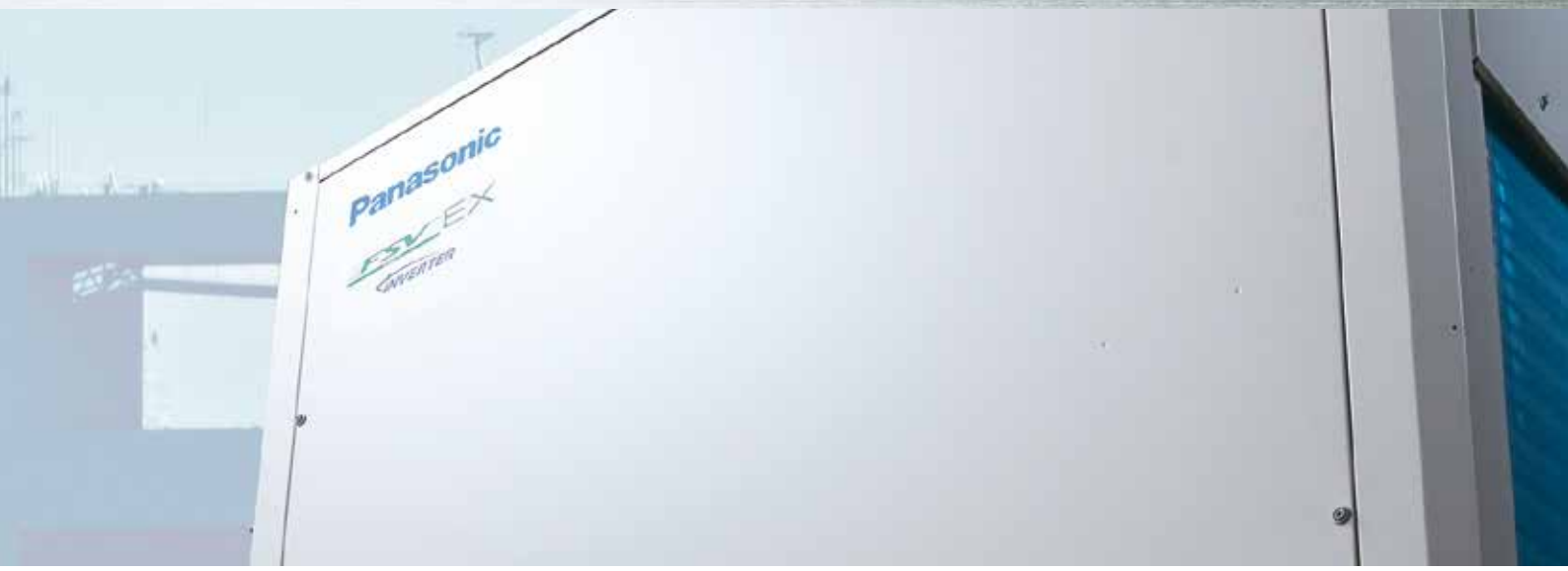
R410A | Heat Recovery Type

For simultaneous heating and cooling operation

Cooling and Heating Simultaneous Type

- Wide range of systems from 22.4 kW to 135 kW
- Top class EER : 4.87 / COP : 5.09 (22.4 kW model)
- Longer piping length (up to 500 m)
- Increased max number of connectable indoor units (up to 52)
- External static pressure up to 80Pa
- Cooling operation is possible when outdoor temperature as high as 52 ℃ DB
- Operating range to provide heating at outdoor temperature as low as -20 ℃ WB
- Suitable for R22 renewal projects

(Please refer to technical document for further details) RENEWAL R22



FSV INVERTER

2-PIPE Mini-FSV LE Series

For small-scale commercial and residential use

R410A

Cooling or Heating Type 1-phase
Cooling or Heating Type 3-phase

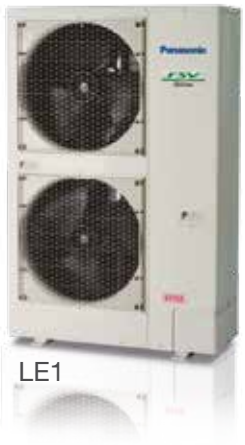
12.1/14.0/15.5 kW | 22.4/25.0 kW

- High external static pressure 35Pa
- Top-class EER: 4.50 (12.1 kW model) / 3.80 (22.4 kW model)
- Wide operation range: Cooling: -10 °C to 46 °C DB, Heating at: -20 °C to 18 °C DB
- Maximum number of connectable indoor units : 13 (22.4/25.0 kW model)
- Actual piping length : 150m
  Max. piping length : 150m (12.1/14.0/15.5 kW) / 300m (22.4/25.0 kW)
- Suitable for R22 renewal projects

(Please refer to technical document for further details) RENEWAL R22

DRED ready

LE2



LE1

INVERTER

2-PIPE Mini-VRF LZ Series

For small-scale commercial and residential use

NEW

R32 REFRIGERANT

Cooling or Heating Type 1-phase
Cooling or Heating Type 3-phase

12.1/14.0/15.5 kW | 22.4/28.0 kW

- High external static pressure 35Pa
- Top-class EER: 4.53 (12.1 kW model) / 3.84 (22.4 kW model)
- Wide operation range: Cooling: -10 °C to 52 °C DB, Heating at: -20 °C to 18 °C DB
- Maximum number of connectable indoor units : 16 (22.4/28.0 kW model)
- Maximum allowable indoor/outdoor capacity ratio 150%
- Actual piping length : 90m (12.1/14.0/15.5 kW) / 100m (22.4/28.0 kW)
  Max. piping length : 180m (12.1/14.0/15.5 kW) / 300m (22.4/28.0 kW)
- Suitable for R22 renewal projects

(Please refer to technical document for further details) RENEWAL R22

- Demand response is capable with additional demand terminal kit CZ-CAPDC3.

* In South Australia, demand response capability will be legally required from April 2023.

Indoor Units Range

Class	22	28	36	45	56	60	73	90
	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating
Capacity kW / BTU/h / Type	2.2/2.5 7,500/8,500	2.8/3.2 9,600/10,900	3.6/4.2 12,300/14,300	4.5/5.0 15,400/17,100	5.6/6.3 19,100/21,500	6.0/7.1 20,500/24,200	7.3/8.0 24,900/27,300	9.0/10.0 30,700/34,100
nanoeX Generator Mark3 F3 type **Mid Static Adaptive Ducted** R410A	NEW S-22MF3E5AN	NEW S-28MF3E5AN	NEW S-36MF3E5AN	NEW S-45MF3E5AN	NEW S-56MF3E5AN	NEW S-60MF3E5AN	NEW S-73MF3E5AN	NEW S-90MF3E5AN
nanoeX Generator Mark3 F3 type **Mid Static Adaptive Ducted** R32	NEW S-22MF3E5BN	NEW S-28MF3E5BN	NEW S-36MF3E5BN	NEW S-45MF3E5BN	NEW S-56MF3E5BN	NEW S-60MF3E5BN	NEW S-73MF3E5BN	NEW S-90MF3E5BN
M1 type **Slim Low Static Ducted** R410A/R32	S-22MM1E5B	S-28MM1E5B	S-36MM1E5B	S-45MM1E5B	S-56MM1E5B			
Z1 type **Slim & Narrow Ducted** R410A	S-22MZ1H4A	S-28MZ1H4A	S-36MZ1H4A	S-45MZ1H4A	S-56MZ1H4A	S-60MZ1H4A	S-73MZ1H4A	
E2 type **High Static Ducted / Energy Saving High-Fresh Air Ducted** R410A								
E1 type **High Static Ducted** R410A								S-90ME1R5A
K2 type **Wall Mounted** R410A/R32	S-22MK2E5B	S-28MK2E5B	S-36MK2E5B	S-45MK2E5B	S-56MK2E5B		S-73MK2E5B	
nanoeX Generator Mark3 U2 type **4-Way Cassette** Panel No.CZ-KPU3H R410A/R32	NEW S-22MU2E5BN	NEW S-28MU2E5BN	NEW S-36MU2E5BN	NEW S-45MU2E5BN	NEW S-56MU2E5BN	NEW S-60MU2E5BN	NEW S-73MU2E5BN	NEW S-90MU2E5BN
nanoeX Generator Mark3 Y3 type **4-Way Mini Cassette** Panel No. CZ-KPY4 R410A/R32	S-22MY3E	S-28MY3E	S-36MY3E	S-45MY3E	S-56MY3E			
L1 type **2-Way Cassette** Panel No. CZ-02KPL2 Panel No. CZ-03KPL2 (Only for S-73ML1E5) R410A	S-22ML1E5	S-28ML1E5	S-36ML1E5	S-45ML1E5	S-56ML1E5		S-73ML1E5	
D1 type **1-Way Cassette** Panel No. CZ-KPD2 R410A		S-28MD1E5	S-36MD1E5	S-45MD1E5	S-56MD1E5		S-73MD1E5	
T2 type **Under Ceiling** R410A			S-36MT2E5A	S-45MT2E5A	S-56MT2E5A		S-73MT2E5A	
nanoeX Generator Mark1 G1 type **Floor Console** R410A	S-22MG1E5N	S-28MG1E5N	S-36MG1E5N	S-45MG1E5N	S-56MG1E5N			
P1 type **Floor Standing** R410A	S-22MP1E5	S-28MP1E5	S-36MP1E5	S-45MP1E5	S-56MP1E5		S-71MP1E5	
R1 type **Concealed Floor Standing** R410A	S-22MR1E5	S-28MR1E5	S-36MR1E5	S-45MR1E5	S-56MR1E5		S-71MR1E5	

* High flesh air system is not allowed for 18 kW model.

106	112	140	160	180	224	280	
Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Functions
10.6/11.4 36,200/38,900	11.2/12.5 38,200/42,700	14.0/16.0 47,800/54,600	16.0/18.0 54,600/61,400	18.0/20.0 61,400/68,200	22.4/25.0 76,400/85,300	28.0/31.5 95,500/107,500	
	NEW  S-112MF3E5AN	NEW  S-140MF3E5AN	NEW  S-160MF3E5AN				self-diagnosis, Auto fan, Dry mode, Auto restart, Drain pump, DC motor
	NEW  S-112MF3E5BN	NEW  S-140MF3E5BN	NEW  S-160MF3E5BN				self-diagnosis, Auto fan, Dry mode, Auto restart, Drain pump, DC motor
							self-diagnosis, Auto fan, Dry mode, Auto restart, Drain pump, DC motor
							self-diagnosis, Auto fan, Dry mode, Auto restart, DC motor
				 S-180ME2E5 *	High Fresh Air  S-224ME2E5	High Fresh Air  S-280ME2E5	self-diagnosis, Auto fan, Dry mode, Auto restart, DC motor
	 S-112ME1R5A	 S-140ME1R5A	 S-160ME1R5A				self-diagnosis, Auto fan, Dry mode, Auto restart
 S-106MK2E5B							self-diagnosis, Auto fan, Dry mode, Auto flap, Auto restart, Air swing, DC motor
	NEW  S-112MU2E5BN	NEW  S-140MU2E5BN	NEW  S-160MU2E5BN				self-diagnosis, Auto fan, Dry mode, Auto flap, Auto restart, Air swing, Drain pump, DC motor
							self-diagnosis, Auto fan, Dry mode, Auto flap, Auto restart, Air swing, Drain pump, DC motor
							self-diagnosis, Auto fan, Dry mode, Auto flap, Auto restart, Air swing, Drain pump
							self-diagnosis, Auto fan, Dry mode, Auto flap, Auto restart, Air swing, Drain pump, DC motor
 S-106MT2E5A		 S-140MT2E5A					self-diagnosis, Auto fan, Dry mode, Auto flap, Auto restart, Air swing, DC motor
							self-diagnosis, Auto fan, Dry mode, Auto flap, Auto restart, Air swing, DC motor
							self-diagnosis, Auto fan, Dry mode, Auto restart
							self-diagnosis, Auto fan, Dry mode, Auto restart

Controllers

A wide variety of control options to meet the requirements of different applications.

Operation system	Individual control systems			
Requirements	Simplified high-spec operation	High-spec operation	Normal operation	Operation from anywhere in the room
External appearance				
Type, model name	Simplified high-spec Wired Remote Controller with Bluetooth	High-spec Wired Remote Controller	Timer Remote Controller (Wired)	Wireless Remote Controller
	CZ-RTC6WBL/*CZ-RTC6WBLW (White) CZ-RTC6BL/*CZ-RTC6BLW (Black) *Available for particular types of VRF indoor units	CZ-RTC5B	CZ-RTC4	Controller: CZ-RWS3 Receiver: CZ-RWRU3 CZ-RWRL3 CZ-RWRD3 CZ-RWRT3 CZ-RWRC3
Built-in thermostat	●	●	●	—
nanoe™ X on/off control *not applies to Floor Console	●	●	—	●
ECONAVI ON/OFF control	●	●	●	●
Number of indoor units which can be controlled	1 group, 8 units	1 group, 8 units	1 group, 8 units	1 group, 8 units
Use limitations	· Up to 1 controller can be connected per group	· Up to 2 controllers can be connected per group (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit)	· Up to 2 controllers can be connected per group (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit)	· Up to 2 controllers can be connected per group.
Function ON/OFF	●	●	●	●
Mode setting	●	●	●	●
Fan speed setting	●	●	●	●
Temperature setting	●	●	●	●
Air flow direction	●	●	●	●
Permit/Prohibit switching	—	—	—	—
Weekly program *	●	●	●	—

All specifications are subject to change without notice.
*(CZ-RTC6(W)BL/CZ-RTC6(W)BLW with H&C Control App)

Remote Temperature Sensor

CZ-CSRC3

- This is a remote sensor which can be used with indoor units. Use it to detect the room temperature when no remote controller sensor or body sensor is used (connection to a system without a remote controller is possible).
- For joint use with a remote control switch, use the remote control switch as main remote controller.

Centralised control systems				SMART CONTROL SYSTEMS	
Operation with various functions from a central location	Only ON/OFF operation from a central location	Simplified load distribution ratio (LDR) for each tenant	Connection with 3rd Party Controller	Cloud connectivity, operation from anywhere	Schneider Electric room controller
		10.4 in. touch screen panel color LCD			
			**Seri-Para I/O unit for outdoor unit**  CZ-CAPDC2		
System Controller	ON/OFF Controller	Intelligent Controller		WLAN Smart Adaptor Comfort Cloud App	VRF smart connectivity+
CZ-64ESMC3	CZ-ANC3	CZ-256ESMC3 (CZ-CFUNC2)	**Interface Adaptor**  CZ-CAPC3	CZ-CAPWFC1	SER8150 (room controller)
—	—	—		—	●
—	—	—		—	—
●	—	●	**Seri-Para I/O unit for each indoor unit**  CZ-CAPBC2	●	—
64 groups, max. 64 units	16 groups, max. 64 units	64 units x 16 systems, max. 256 units		1 adaptor : 1 group, 8 units. Multiple adaptors for each indoor units : 200 units(10 location x 20 units)	1 group, 8 units
· Up to 10 controllers, can be connected to one system. · Main unit/sub unit (1 main unit + 1 sub unit) connection is possible. · Use without remote controller is possible.	· Up to 8 controllers (4 main units + 4 sub units) can be connected to one system. · Use without remote controller is impossible.	· A communication adaptor (CZ-CFUNC2) must be installed for three or more links.	**Communication Adaptor**  CZ-CFUNC2	· Mobile device, free App and internet router is required separately. · Wired remote controller (master) required.	· Up to 1 controller can be connected per IDU · Wired to R1/R2 · VRF and PAC(S-link) model only
●	●	●		●	●
●	—	●	**LonWorks Interface**  CZ-CLNC2	●	●
●	—	●		●	●
●	—	●		●	●
●	—	●		●	●
●	●	●		—	—
●	—	●		●	—

Panasonic®

Building Passion,
Building Solutions.
Panasonic Air Conditioning Systems

We face a time in which "quality air" differentiates business. It's a time for Panasonic to fully display its strengths. Our ability to assemble and build superior systems isn't just due to the rich resources we have as a comprehensive electronics manufacturer, but also to Panasonic's 100 years of tradition, where each person thinks and acts on their own initiative while working in a team to reach further heights. We do not compromise. Each of our independent selves is a one stop solution. We face our customers' challenges together with our customers and do all that we can to build effective systems. As a true partner for our customers, we strive to always be at the forefront of business.

- Please read the Installation Instructions carefully before installing the unit, and the Operating Instructions before using it.
- Specifications are subject to change without prior notice.
- The contents of this catalogue are accurate as of July 2023.
- Due to printing considerations, actual colours may vary slightly from those shown.
- All graphics are provided solely for the purpose of illustrating a point.

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

Authorised Dealer

VRF AU_ JULY 2023

Panasonic Australia Pty. Limited.

Address: 1 Innovation Road, Macquarie Park, NSW 2113
ACN 001 592 187 ABN 83 001 592 187
aircon.panasonic.com.au