



Product information



Technical documents
Download from PRO CLUB

VRF SYSTEMS



Residential &
Light Commercial Use

R32
REFRIGERANT



Residential &
Light Commercial Use

R410A



Commercial Use

R410A



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.



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 °C (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 °C (WB)
- Suitable for R22 renewal projects*

*(Please refer to technical document for further details)



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)



3-PIPE FSV-EX Series

For simultaneous heating and cooling operation

R410A

Heat Recovery Type

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 °C DB
 - Operating range to provide heating at outdoor temperature as low as -20 °C WB
 - Suitable for R22 renewal projects
- (Please refer to technical document for further details)





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)



LE2



LE1



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)


















































































































- 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
Capacity	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating
kw	2.2/2.5	2.8/3.2	3.6/4.2	4.5/5.0	5.6/6.3	6.0/7.1	7.3/8.0	9.0/10.0
Type	BTU/h	7,500/8,500	9,600/10,900	12,300/14,300	15,400/17,100	19,100/21,500	20,500/24,200	24,900/27,300
• 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 fresh 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  Auto restart  DP  DC motor
	NEW ///  S-112MF3E5BN	NEW ///  S-140MF3E5BN	NEW ///  S-160MF3E5BN				 self-diagnosis  Auto fan  DRY  Auto restart  DP  DC motor
							 self-diagnosis  Auto fan  DRY  Auto restart  DP  DC motor
							 self-diagnosis  Auto fan  DRY  Auto restart  DC motor
				 S-180ME2E5 *	High Fresh Air  S-224ME2E5	High Fresh Air  S-280ME2E5	 self-diagnosis  Auto fan  DRY  Auto restart  DC motor
	 S-112ME1R5A	 S-140ME1R5A	 S-160ME1R5A				 self-diagnosis  Auto fan  DRY  Auto restart
 S-106MK2E5B							 self-diagnosis  Auto fan  DRY  Auto restart  Air swing  DC motor  AUTO
	NEW ///  S-112MU2E5BN	NEW ///  S-140MU2E5BN	NEW ///  S-160MU2E5BN				 self-diagnosis  Auto fan  DRY  Auto restart  Air swing  DP  AUTO  DC motor
							 self-diagnosis  Auto fan  DRY  Auto restart  Air swing  DP  AUTO  DC motor
							 self-diagnosis  Auto fan  DRY  Auto restart  Air swing  DP  AUTO  DC motor
							 self-diagnosis  Auto fan  DRY  Auto restart  Air swing  DP  AUTO  DC motor
 S-106MT2E5A		 S-140MT2E5A					 self-diagnosis  Auto fan  DRY  Auto restart  Air swing  DC motor  AUTO
							 self-diagnosis  Auto fan  DRY  Auto restart  Air swing  DC motor  AUTO
							 self-diagnosis  Auto fan  DRY  Auto restart
							 self-diagnosis  Auto fan  DRY  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 CZ-RTC6WBL (White) CZ-RTC6BL (Black)	High-spec Wired Remote Controller CZ-RTC5B	Timer Remote Controller (Wired) CZ-RTC4	Wireless Remote Controller 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 *	●	●	●	—

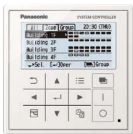









All specifications are subject to change without notice.
*(CZ-RTC6WBL/CZ-RTC6BL with H&C Control App)

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 10.4 in. touch screen panel color LCD	Connection with 3rd Party Controller	Cloud connectivity, operation from anywhere	Schneider Electric room controller
			Seri-Para I/O unit for outdoor unit  CZ-CAPDC2		
System Controller	ON/OFF Controller	Intelligent Controller	Interface Adaptor  CZ-CAPC3	WLAN Smart Adaptor Comfort Cloud App	VRF smart connectivity+
CZ-64ESMC3	CZ-ANC3	CZ-256ESMC3 (CZ-CFUNC2)	Seri-Para I/O unit for each indoor unit  CZ-CAPBC2	CZ-CAPWFC1	SER8150 (room controller)
—	—	—	Communication Adaptor  CZ-CFUNC2	—	●
●	—	●	LonWorks Interface  CZ-CLNC2	—	—
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
<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Up to 8 controllers (4 main units + 4 sub units) can be connected to one system. Use without remote controller is impossible. 	<ul style="list-style-type: none"> A communication adaptor (CZ-CFUNC2) must be installed for three or more links. 		<ul style="list-style-type: none"> Mobile device, free App and internet router is required separately. Wired remote controller (master) required. 	<ul style="list-style-type: none"> Up to 1 controller can be connected per IDU Wired to R1/R2 VRF and PAC(S-link) model only
●	●	●		●	●
●	—	●		●	●
●	—	●		●	●
●	—	●		●	●
●	—	●		●	●
●	●	●		—	—
●	—	●		●	—



**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

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