





New Mini ECOi LZ2 Series R32

For light commercial & residential use. The most flexible VRF system ever. Meeting the needs of light commercial applications.



ECO i

New Mini ECOi LZ2 Series 4 to 10 HP R32 Refrigerant



Outstanding efficiency in a compact body and continuous operation even at extreme ambient temperatures.





INDUSTRY 1ST 8 HP AND 10 HP MINI VRF UNITS WITH R32

Low GWP and less refrigerant

The new Mini ECOi LZ2 Series utilizes environmentally friendly R32 refrigerant, reducing the total amount of refrigerant by 20 % and more, resulting in lower GWP, reduced by 75 %*.

* As a result of applying R32 while at the same time reducing the total refrigerant amount.

Outstanding efficiency at most challenging ambient conditions

Re-engineered for better performance, the LZ2 series produces extraordinary savings with SEER levels up to 8,5 and SCOP levels up to 5,05 (for 4 HP model). The large range of outdoor units from 12 kW to 28 kW can also work at extreme ambient temperatures, down to -20 °C in heating and up to 52 °C in cooling, providing a very wide range of operating ability.

More flexibility for your project

The ECOi LZ2 series provides ease of installation with long piping lengths and small footprints in a lightweight body. A variety of indoor units, supporting Panasonic's optional refrigerant leak detector, increases the flexiblity for installers. A wide range of individual and central controllers, the new generation Smart and Service Cloud as well as apps for end users and installers provide a fully customizable monitoring and controlling solution.

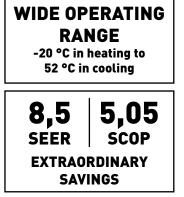


Minimum environmental impact

Panasonic has designed the LZ2 series in order to minimize the environmental impact of the system. Low GWP refrigerant R32 and highest efficiency levels, ensure this through the total operational lifetime.



VRF with outstanding energy-saving performance and superior SEER and SCOP



ECOi LZ2 mini VRF series from 12 to 28 kW

- · Improving protection 24/7. New and unique indoors with nanoe™ X, with hydroxyl radicals contained in water.
- · SEER levels up to 8,5 and SCOP levels up to 5,05 (for 4 HP model)
- · Low GWP and highly reduced refrigerant volume
- Improved connectivity with CONEX remote controllers and app support, Smart and Service Cloud applications and support for communication protocols for BMS integration
- \cdot Wide range of connectable units allowing wide range of installations with and without refrigerant mitigation
- Increased indoor/outdoor capacity ratio up to 150 %
- \cdot Quiet mode operation with low capacity drop
- Same Panasonic DNA with Panasonic compressors and precise temperature control thanks to discharge temperature sensors in the indoor unit
- \cdot Continuous operation at extreme ambient temperatures: -20 °C (heating) to 52 °C (cooling)
- Flexible mitigation measures, with Panasonic's leak detector/alarm to be installed only when required

For the most challenging spaces

The new Mini ECOi LZ2 R32 VRF system is the ideal solution to fit into any application thanks to its compact design and long piping length support.

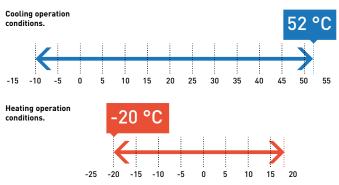


Extended operation conditions

LZ2 mini VRF is extremely reliable even under the most difficult conditions. The units can operate in cooling mode at extreme temperatures, 52°C in cooling and -20°C in heating mode.







Cooling: Outside air temperature °C (DB). Heating: Outside air temperature °C (WB).



New Mini ECOi LZ2 provides the optimal performance in any climatic condition.

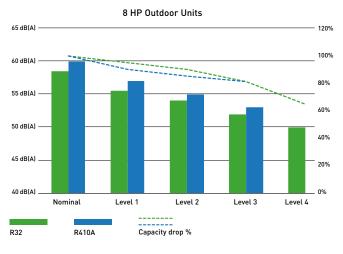


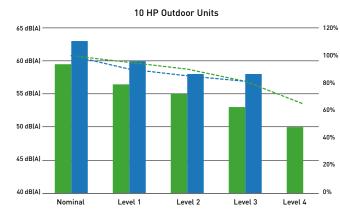
Quiet mode operation with low capacity drop

Panasonic offers its customers cutting-edge technology, specially designed to ensure our air conditioning systems deliver optimal performance even in quiet mode operation.

R32

Silent Mode Comparison – Panasonic 8 and 10 HP R32 vs R410A





Control is the key to offer better comfort and savings

CZ-RTC6 and CZ-RTC6BL are compatible with the R32 Mini EC0i systems. CZ-RTC6 can be used as wired remote controller.

In addition, due to its Bluetooth® capability, CZ-RC6BL offers the possibility to use the H&C Control App that perfectly meets the requirements of end users, services and installers.



H&C Control App available functions:

- ON/OFF, mode, temperature, airflow volume, airflow direction
- · Weekly timer
- \cdot All energy saving functions
- \cdot Alarm display and history
- · Service contact registration
- Filter sign
- · Auto-address
- · Test run
- · Sensor value monitor
- · Simple setting mode
- · Detailed setting mode
- · Key lock
- · Ventilation fan control
- · Display contrast adjustment
- · Rotation, redundancy
- · Quiet mode
- nanoe™ X



operation setting. Detailed maintenance setting.

CZ-RTC6BL





NEW Mini ECOi LZ2 Series 4 to 6 HP • R32

Outstanding efficiency in a compact body and continuous operation even at extreme ambient temperatures.

HP	-	-	4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Outdoor units			U-4LZ2E5	U-5LZ2E5	U-6LZ2E5	U-4LZ2E8	U-5LZ2E8	U-6LZ2E8
	Voltage	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Single phase	Single phase	Single phase	Three phase	Three phase	Three phase
,	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	12,1	14,0	15,5	12,1	14,0	15,5
EER 1)		W/W	4,53	4,12	3,88	4,53	4,12	3,88
SEER 2)			8,50	8,12	7,71	8,50	8,12	7,71
η sc		%	337,0	321,8	305,4	337,0	321,8	305,4
Running current coo	oling	А	13,30 - 12,80 - 12,20	16,90 - 16,20 - 15,50	19,60 - 18,70 - 18,00	4,37 - 4,15 - 4,00	5,50 - 5,23 - 5,04	6,44 - 6,12 - 5,89
Input power cooling		kW	2,67	3,40	4,00	2,67	3,40	4,00
Heating capacity		kW	12,5	16,0	16,5	12,5	16,0	16,5
COP 1)		W/W	5,27	4,71	4,42	5,27	4,71	4,42
SCOP 2)			5,05	4,61	4,59	5,05	4,61	4,59
ղ sc		%	199,0	181,4	180,6	199,0	181,4	180,6
Running current hea	ating	A	12,00 - 11,40 - 11,00	16,90-16,20-15,50	18,50 - 17,70 - 17,00	3,91-3,71-3,58	5,50 - 5,22 - 5,03	6,02 - 5,72 - 5,51
Input power heating	1	kW	2,37	3,40	3,73	2,37	3,40	3,73
Starting current		A	1,0	1,0	1,0	1,0	1,0	1,0
Maximum current		A	19,6	23,7	26,5	7,2	9,2	9,9
Maximum input pow	Maximum input power		3,92 - 4,10 - 4,28	4,76 - 4,98 - 5,19	5,41 - 5,66 - 5,90	4,40 - 4,63 - 4,80	5,69-5,99-6,22	6,15-6,47-6,72
Maximum number c	Maximum number of connectable indoor units		7(10)	8 (12)	9 (12)	7(10)	8(12)	9 (12)
External static press	sure	Pa	0~35	0~35	0~35	0~35	0~35	0~35
Air flow		m³/min	69	72	74	69	72	74
	Cool	dB(A)	52	53	54	52	53	54
Sound pressure	Cool (Silent 1/2/3/4)	dB(A)	49/47/45	50/48/46	51/49/47	49/47/45	50/48/46	51/49/47
	Heat	dB(A)	54	56	56	54	56	56
Sound power	Cool / Heat	dB(A)	69/72	70/74	72/75	69/72	70/74	72/75
Dimension	HxWxD	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	94	94	94	94	94	94
Dia a dia mantan	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Pipe diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8(15,88)	5/8(15,88)
Maximum piping ler	ngth (total)	m	90(180)	90(180)	90(180)	90(180)	90(180)	90 (180)
Elevation difference	(in/out)	m	50 (Outdoor unit upper) / 40 (Outdoor unit lower)	50 (Outdoor unit upper)/ 40 (Outdoor unit lower)				
Refrigerant (R32)		kg	2,7	2,7	2,7	2,7	2,7	2,7
Maximum allowable capacity ratio 4)	e indoor / outdoor	%	50~150(130)	50~150(130)	50~150(130)	50~150(130)	50~150(130)	50~150(130)
	Cool Min ~ Max	°C	-10~52	-10~52	-10~52	-10~52	-10~52	-10~52
Operating range	Heat Min ~ Max	°C	-20~18	-20~18	-20~18	-20~18	-20~18	-20~18

1) EER and COP calculation is based on EN 14511. 2) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) The number in parenthesis indicates maximum number of connectable indoor unit in case of 1,5kW indoor units connection. 4) The number in parenthesis indicates maximum allowed indoor/outdoor capacity ratio in case of 1,5 kW indoor units connection.

Minimum environmental impact

Panasonic has designed the LZ2 series in order to minimize the environmental impact of the system. Low GWP refrigerant R32 and highest efficiency levels, ensure this through the total operational lifetime.

For the most challenging spaces

The new Mini ECOi LZ2 R32 VRF system is the ideal solution to fit into any application thanks to its compact design and long piping length support.

Technical focus

- \cdot SEER levels up to 8,50 and SCOP levels up to 5,05 (for 4 HP model)
- Continuous operation at extreme ambient temperatures:
 -20 °C (heating) to 52 °C (cooling)
- · Wide range of connectable units
- New and unique indoors with nanoe[™] X, hydroxyl radicals contained in water
- · Allowing wide range of installations with and without mitigation measures
- Flexible mitigation measures, with Panasonic's leak detector/alarm to be installed only when required



INTERNET CONTROL: Optional.



INDUSTRY 1sT 8 HP AND 10 HP MINI VRF UNITS WITH R32 **NEW Mini ECOi LZ2 Series 8 and 10 HP • R32** Introducing widest range of R32 Mini VRF.

HP	-		8 HP	10 HP
Outdoor units			U-8LZ2E8	U-10LZ2E8
	Voltage	V	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Cooling capacity		kW	22,4	28,0
EER ¹⁾		W/W	3,84	3,47
SEER 21			7,56	7,08
η sc		%	293,3	274,7
Running current cooling		А	9,73 - 9,25 - 8,91	13,2-12,5-12,1
Input power cooling		kW	5,83	8,07
Heating capacity		kW	25,0	28,0
COP 1)		W/W	4,30	4,47
SCOP 2)			4,59	4,60
η sc		%	170,3	178,5
Running current heating		А	9,81 - 9,32 - 8,98	10,5-9,93-9,57
Input power heating		kW	5,81	6,26
Starting current		Α	1,0	1,0
Maximum current		Α	13,7	19,5
Maximum input power		kW	8,21 - 8,64 - 8,96	11,9 - 12,6 - 13,0
Maximum number of connectat	ole indoor units 3)		16	16
External static pressure		Pa	0~35	0~35
Air flow		m³/min	158	167
Sound pressure	Cool	dB(A)	59,0	60,0
	Cool (Silent 1/2/3/4)	dB(A)	56,0/54,0/52,0	57,0/55,0/53,0
Sound power	Cool	dB(A)	72	74
Dimension	HxWxD	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	125	126
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	3/4 (19,05)	7/8(22,22)
Maximum piping length (total)		m	100 (300)	100 (300)
Elevation difference (in/out)		<u>m</u>	50 (Outdoor unit upper)/40 (Outdoor unit lower)	50(Outdoor unit upper)/40(Outdoor unit lower)
Refrigerant (R32)		kg	4,9	5,1
Maximum allowable indoor / ou	tdoor capacity ratio 4	%	50~150(130)	50~150(130)
Operating range	Cool Min ~ Max	°C	-10~52	-10~52
	Heat Min ~ Max	°C	-20~18	-20~18

1) EER and COP calculation is based on EN 14511. 2) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) The number in parenthesis indicates maximum number of connectable indoor unit in case of 1,5kW indoor unit's connection. 4) The number in parenthesis indicates maximum allowed indoor/outdoor capacity ratio in case of 1,5 kW indoor units connection.

Perfect fit for small to medium size projects

8 and 10 HP LZ2 Mini VRF units bring in the total benefits of a VRF system in a smaller application. You can enjoy advanced individual and central VRF control options including the revolutionary Panasonic AC Smart Cloud and AC Service Cloud.

For the most difficult conditions

New ECOi LZ2 series are able to operate at the hardest conditions from -20 °C up to +52 °C providing continuous and efficient, heating and cooling for your space all year long.

Technical focus

- SEER levels up to 7,56 and SCOP levels up to 4,59 (for 8 HP model)
- Continuous operation at extreme ambient temperatures:
 -20 °C (heating) to 52 °C (cooling)
- \cdot Widest range of connectable units in R32 VRF
- New and unique indoors with nanoe[™] X, with hydroxyl radicals contained in water
- · Allowing wide range of installations with and without refrigerant mitigation
- Flexible mitigation measures, with leak detector/alarm to be installed only when required



INTERNET CONTROL: Optional.

Compatible with a large range of indoor units and controls

An expansion of Panasonic VRF line up, the new mini ECOi R32 is compatible with a large range of indoor units and can utilize all Panasonic's scalable control and monitoring solutions.



Wide range of indoor units, either supporting Panasonic's optional R32 leak detector alarm or having built-in detectors provide a great flexibility for all types of installation.

Scaling your control options from a single zone to geographically distributed facilities

LZ2 series are fully compatible with all control and connectivity solutions from Panasonic. With a wide range of individual controllers, hotel room controllers, optional wireless adapters, VRF Smart Connectivity+, easy BMS connection with P-link and AC Smart Cloud compatibility. LZ2 series, the most flexible control and monitoring R32 solution in the market.



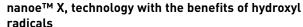


Control options	
Individual controllers – wi	red
/ wireless	
CZ-RTC5B	~
CZ-RTC6 / BL	~
Smart Connectivity+	~
CZ-RWS3	~
PAW-RE2C4-MOD	~
PAW-RE2D4	~
CZ-CAPWFC1 Wi-Fi	
Adaptor	•
CZ-CENSC1	~
Centralized controllers	
CZ-64ESMC3	~
CZ-256ESMC3	~
CZ-ANC3	~
AC Smart/Service Cloud (CZ-CFUSCC1)	~
3rd Pparty connectivity	
CZ-CAPDC3	~
CZ-CAPC3	~
CZ-CAPBC2	~
CZ-CFUNC2	~
BMS interface with P-Link	
Interfaces for indoor unit	
connection	
Interfaces for P-Link connection	~

•nanoeX

nanoe[™] X: improving protection 24/7

The new Panasonic Mini ECOi R32 connects to indoor units incorporating nanoe[™]X technology covering a wide range of capacities and solutions.



Bringing nature's balance indoors

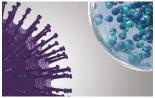
Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe[™] X, technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and pleasant place to be, whether at home, at work, or visiting hotels, shops, restaurants etc.

A naturally occurring process

Hydroxyl radicals are unstable molecules looking to react with other elements like hydrogen, capturing it. Thanks to this reaction, hydroxyl radicals have the potential to inhibit the growth of pollutants such as bacteria, viruses, moulds, and odours, breaking them down and neutralising the unpleasant effects. This naturally occurring process has major benefits to improve indoor environments. Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent - hydroxyl radicals - indoors to help create an ideal environment.

Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

Thanks to the nanoe[™] X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.









Hydroxyl radicals denature pollutants



Pollutants activity is inhibited.

Built-in nanoe X Generator Mark 2.

U2 Type 4 way 90x90 cassette. Built-in: S-***MU2E5B. 11 capacities: 2,2 - 16,0 kW. F3 Type variable static pressure adaptive duct. Built-in: S-***MF3E5B. 12 capacities: 1,5 - 16,0 kW.



New 4 way 90x90 cassette with nanoe™ X

Large capacity VRF. Trusted power and high efficiency. These Cassettes offer upgraded Econavi and nanoe™ X technology as accessories for making application space more comfortable and efficient.

Thanks to advances in design and technology such as the new high performance turbo fan which is more efficient and silent, and nanoe[™] X technology and the floor temperature and humidity sensor to more control, the U2 Panasonic 4 way 90x90 cassette offers comfort.

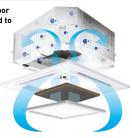
The nance[™] X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nance[™] X is not medical device, local regulations on building design and sanitary recommendations must be followed.



nanoe[™] X: improving protection 24/7

Acts to clean your air, so that the indoor environment can be a cleaner and pleasant place to be all day long. nanoeTM X works together with heating or cooling function when the during the day and can work independently when the area is not occupied. Give the air conditioning the strength to increase the protection of your indoor spaces with nanoeTM X technology and convenient control via the Panasonic Comfort Cloud App.



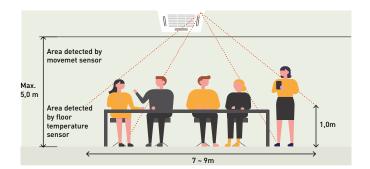


Operates the fan to discharge internal humidity.

Operate the fan to circulate nanoe™ X internally.

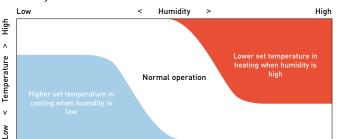
Optional Econavi intelligent sensor

Human activity sensor and floor temperature sensor can reduce waste energy, by optimising air conditioner operation.



Humidity sensor.

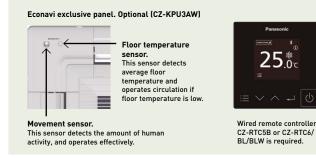
A humidity sensor positioned in the air inlet provides comfort and saves energy based on temperature and humidity.



Advanced Econavi functions.

ECONAVI

2 sensors (movement and floor temperature) can provide a reduction in wasted energy by means of effective control. The floor temperature can be detected with a ceiling height of 5 m.



Group control, circulation function.

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize thermal stratification in both heating and cooling operation.



Circulation by detecting no movement (10 min.)





NEW U2 Type 4 way 90x90 cassette • R32

The 4 way 90x90 cassettes with integrated nanoe X Generator Mark 2 and new panel design.

Panasonic introduces a modern flat panel design to blend into any space. These cassettes have been developed to satisfy today's customer needs such as high energy saving, comfort and better indoor air quality.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS.

Model		SMU2E5B	22	28	36	45	56	60	73	90	106	140	160
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	10,6	14,0	16,0
Input power coo	ling	W	20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	90,00	95,00	105,00
Current (cool)		A	0,21	0,21	0,21	0,21	0,23	0,33	0,36	0,38	0,71	0,74	0,82
Heating capacity	,	kW	2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	11,4	16,0	18,0
Input power hea	ting	W	20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	85,00	90,00	100,00
Current (heat)		A	0,20	0,20	0,20	0,20	0,22	0,32	0,35	0,37	0,69	0,72	0,80
Fan type			Turbo fan										
nanoe X Genera	tor		Mark 2										
Air flow	Hi/Med/Lo	m³/min	14,50/ 13,00/ 11,50	14,50/ 13,00/ 11,50	14,50/ 13,00/ 11,50	15,50/ 13,00/ 11,50	16,50/ 13,50/ 11,50	21,00/ 16,00/ 13,00	22,50/ 16,00/ 13,00	23,00/ 18,50/ 14,00	34,00/ 25,00/ 19,00	36,00/ 26,00/ 20,00	37,00/ 28,00/ 24,00
Sound pressure	Hi/Med/Lo	dB(A)	30/29/28	30/29/28	30/29/28	31/29/28	32/30/28	36/32/29	37/32/29	38/35/32	44/38/34	45/39/35	46/40/38
Sound power	Hi/Med/Lo	dB(A)	45/44/43	45/44/43	45/44/43	46/44/43	47/45/43	51/47/44	52/47/44	53/50/47	59/53/49	60/54/50	61/55/53
Dimension	Indoor	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840							
(H x W x D)	Panel	mm	33,5 x 950 x 950										
Net weight (Pane	el)	kg	19 (5)	19 (5)	19 (5)	19 (5)	19 (5)	20 (5)	20(5)	20 (5)	25(5)	25 (5)	25(5)
D: 1: 1	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8(9,52) 1]	3/8(9,52) 1)	3/8(9,52) 1)	3/8(9,52)	3/8 (9,52)	3/8(9,52)
Pipe diameter	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88) 1)	5/8(15,88) 1)	5/8(15,88) ¹⁾	5/8 (15,88)	5/8(15,88)	5/8 (15,88)

Accessories		Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)	CZ-KPU3W	Standard panel.
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®	CZ-KPU3AW	Econavi exclusive panel
CZ-RTC5B	Wired remote controller with Econavi function	CZ-CENSC1	Econavi energy savings sensor
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller	CZ-FDU3+CZ-ATU2	Fresh air-intake kit
PAW-RE2C4	Wired remote controller for hotel application		

1) When the pipe diameter is (Liquid) Ø6,35(1/4) - (Gas) Ø12,7(1/2), connect the liquid socket tube (Ø6,35 - Ø9,52) to the liquid tubing side indoor unit and connect the gas socket tube (Ø12,7 - Ø15,88) to the gas tubing side indoor unit. * Above values are in the case of nanoeTM X OFF.

Technical focus

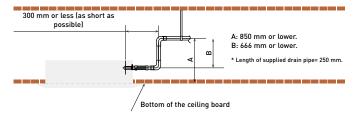
- · High performance turbo fan, new path system for heat exchanger
- · Lower noise in slow fan operation
- · Ceiling height up to 5,0 m
- · Industry top light weight, easy piping
- Econavi: Floor temperature and humidity sensor added. Activity amount detection and new circulator
- nanoe[™] X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe[™] X and dry operation
- · Powerful drain pump gives 850 mm lift
- \cdot Fresh air knockout
- \cdot Branch duct connection
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)

Panel design

Flat design, well-matched with interior. Position of 4 air wings can be set individually.

The drain pipe can be raised to a maximum height of 850 mm from the bottom of the ceiling

Integrated drain pump allows a drain height of 850 mm making the installation much easier.



 28%
 Image: Constant in the second secon

ECONAVI, nanoe™ X and INTERNET CONTROL: Optional.



NEW Y2 Type 4 way 60x60 cassette • R32

Designed to fit exactly into a 600 x 600 mm ceiling grid without the need to alter the bar configuration. The Y2 is ideal for small commercial and retrofit

applications. In addition, the improvements to efficiency make this one of the most advanced units in the industry.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS.

Model			S-15MY2E5B	S-22MY2E5B	S-28MY2E5B	S-36MY2E5B	S-45MY2E5B	S-56MY2E5B
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6
Input power cooling]	W	35,00	35,00	35,00	40,00	40,00	45,00
Operating current o	ooling	A	0,30	0,30	0,30	0,30	0,32	0,35
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3
Input power heating	3	W	30,00	30,00	30,00	35,00	35,00	40,00
Operating current h	neating	A	0,25	0,25	0,30	0,30	0,30	0,30
Fan type			Centrifugal fan					
Air flow	Cool	m³/min	8,90/8,20/5,60	9,10/8,20/5,60	9,30/8,40/5,60	9,70/8,70/6,00	10,00/9,30/8,20	10,40/9,80/8,50
(Hi / Med / Lo)	Heat	m³/min	9,10/8,40/5,60	9,30/8,40/5,60	9,60/8,70/5,60	9,90/9,10/6,00	10,30/9,60/8,20	11,10/9,80/8,70
Sound pressure	Hi / Med / Lo	dB(A)	34/31/25	35/31/25	35/31/25	36/32/26	38/34/28	40/37/34
Sound power	Hi / Med / Lo	dB(A)	49/46/40	50/46/40	50/46/40	51/47/41	53/49/43	55/52/49
	Indoor	mm	288 x 583 x 583					
Dimension (HxWxD)	Panel AW	mm	31 x 700 x 700					
	Panel BW	mm	31 x 625 x 625					
Net weight		kg	20,4(18+2,4)	20,4(18+2,4)	20,4(18+2,4)	20,4(18+2,4)	20,4(18+2,4)	20,4(18+2,4)
Dine diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Pipe diameter	Gas pipe	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3	Infrared remote controller

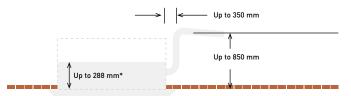
Technical focus

- · Mini cassette fits into a 600 x 600 mm ceiling grid
- Optimized air distribution
- · Multidirectional air flow
- · Powerful drain pump gives 850 mm lift
- · Variable speed DC fan motors and optimized heat exchanger to maximize efficiency

Accessories	
PAW-RE2C4	Wired remote controller for hotel application
CZ-KPY3AW	Panel 700 x 700 mm
CZ-KPY3BW	Panel 625 x 625 mm
CZ-CENSC1	Econavi energy savings sensor

A drain height of approximately 850 mm from the ceiling surface

The drain height can be increased by approximately 350 mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible. A lightweight unit at 18,4 kg the unit is also very slim with a height of only 288 mm, making installation possible even in narrow ceilings.





ECONAVI and INTERNET CONTROL: Optional.



NEW K2 Type wall-mounted • R32

R32

The wall-mounted unit has a stylish smooth panel that looks good and easy to clean.

The unit is also smaller, lighter and substantially quieter than previous models making it ideal for small offices and other commercial applications.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS.

Model	-		S-15MK2E5B	S-22MK2E5B	S-28MK2E5B	S-36MK2E5B	S-45MK2E5B	S-56MK2E5B	S-73MK2E5B	S-106MK2E5B
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6	7,3	10,6
Input power cooling		W	25,00	25,00	25,00	30,00	30,00	35,00	55,00	80,00
Operating current co	oling	A	0,20	0,21	0,23	0,25	0,32	0,35	0,51	0,70
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3	8,0	11,4
Input power heating		W	25,00	25,00	25,00	30,00	30,00	35,00	55,00	80,00
Operating current he	ating	A	0,20	0,21	0,23	0,25	0,32	0,35	0,51	0,70
Fan type			Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow
	Cool Hi / Med / Lo	m³/min	7,90/7,40/ 6,50	9,00/7,50/ 6,50	9,50/8,30/ 6,50	10,90/9,00/ 6,50	14,50/12,50/ 10,00	16,00/14,00/ 12,00	19,50/17,00/ 14,00	21,50/18,50/ 15,00
Air flow	Heat Hi / Med / Lo	m³/min	9,00/7,70/ 6,80	9,20/8,30/ 6,80	9,70/8,50/ 6,80	11,20/9,50/ 6,80	14,50/12,50/ 10,00	16,00/14,00/ 12,00	19,50/17,00/ 14,00	21,50/18,50/ 15,00
Sound pressure	Hi / Med / Lo	dB(A)	34/32/29	36/33/29	37/34/29	40/36/29	38/35/33	40/37/35	47/44/40	49/46/42
Sound power	Hi / Med / Lo	dB(A)	49/47/44	51/48/44	52/49/44	55/51/44	53/50/48	55/52/50	62/59/55	64/61/57
Dimension	HxWxD	mm	290×870 ×214	290 x 870 x 214	290 x 870 x 214	290x870 x214	302 x 1120 x 236	302 x 1 1 20 x 236	302 x 1 120 x 236	302 x 1120 x 236
Net weight		kg	9	9	9	9	13	13	14	14
Dina diamatan	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52) 1)	3/8(9,52)
Pipe diameter	Gas pipe	Inch (mm)	1/2(12,70)	1/2 (12,70)	1/2 (12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88) 1)	5/8(15,88)

Accessories		Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)	PAW-RE2C4	Wired remote controller for hotel application
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®	CZ-CENSC1	Econavi energy savings sensor
CZ-RTC5B	Wired remote controller with Econavi function	CZ-P56SVK2	External valve for model sizes 15 to 56
CZ-RWS3	Infrared remote controller	CZ-P160SVK2	External valve for model sizes 73 to 106

1) When the pipe diameter is (Liquid) Ø6,35(1/4) - (Gas) Ø12,7(1/2), connect the liquid socket tube (Ø6,35 - Ø9,52) to the liquid tubing side indoor unit and connect the gas socket tube (Ø12,7 - Ø15,88) to the gas tubing side indoor unit.

Technical focus

- · Closed discharge port
- \cdot Lighter and smaller units make the installation easy
- Quiet operation
- · Smooth and durable design
- Piping outlet in six directions
- · Air distribution is automatically altered depending on the operational mode



These units are among the

quietest in the industry, making them ideal for hotels and hospitals.

Lighter and smaller units

Light and small units make the installation easy. When the unit is turned OFF, the flap closes completely to



prevent entry of dust into the unit and to keep the equipment clean.

Piping outlet in six directions

Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear and left bottom, making the installation work easier.



External valve (optional)

CZ-P56SVK2 (model sizes 15 to 56) CZ-P160SVK2 (model sizes 73 ¹⁾ to 106)

1) When the pipe diameter is liquid 1/4 (6,35) and gas 1/2 (12,70), use CZ-P56SVK2



ECONAVI and INTERNET CONTROL: Optional

(•nanoe X

nanoe™ X as a standard.

NEW F3 Type variable static pressure adaptive duct • R32

New design adaptive ducted F3 range.

2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS.

R32 model*		SMF3E5B	15	22	28	36	45	56	60	73	90	106	140	160
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	10,6	14,0	16,0
Input power cool	ling	W	60,00	60,00	60,00	60,00	60,00	89,00	79,00	79,00	136,00	146,00	265,00	330,00
Current (cool)		А	0,45	0,45	0,45	0,45	0,45	0,63	0,52	0,52	0,90	1,00	1,76	2,14
Heating capacity	,	kW	1,7	2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	11,4	16,0	18,0
Input power hea	ting	W	60,00	60,00	60,00	60,00	60,00	89,00	79,00	79,00	136,00	146,00	265,00	330,00
Current (heat)		A	0,45	0,45	0,45	0,45	0,45	0,63	0,52	0,52	0,90	1,00	1,76	2,14
R32 leakage sen	sors		2	2	2	2	2	2	2	2	2	2	2	2
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
nanoe X Genera	tor		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2					
Air flow 1]	Hi/Med/Lo	m³/min	14/12/8	14/12/8	14/12/8	14/12/8	14/12/8	16/14/10	21/18/15	21/18/15	25/23/16	32/26/21	37/32/26	40/34/28
External static p	ressure	Pa	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	40 (10-150)	40 (10-150)	50 (10-150)	50 (10-150)
Sound pressure	Hi/Med/Lo	dB(A)	31/28/20	31/28/20	31/28/20	31/28/20	31/28/20	35/32/24	31/28/23	31/28/23	35/33/25	36/32/27	41/36/32	43/37/33
Sound power	Hi/Med/Lo	dB(A)	54/51/43	54/51/43	54/51/43	54/51/43	54/51/43	58/55/47	54/51/46	54/51/46	58/56/48	59/55/50	64/59/55	66/60/56
Dimension	HxWxD	mm	250 x 800 x 730	250x1000 x730	250x1000 x730	250x1000 x730	250x1400 x730	250x1400 x730	250x1400 x730					
Net weight		kg	26	26	26	26	26	26	31	31	31	40	40	40
Dia e dia acteur	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	3/8(9,52)	3/8(9,52)	3/8 (9,52)
Pipe diameter	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88)	5/8(15,88)	5/8(15,88)

Accessories		Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)	CZ-RWS3 + CZ-RWRC3	Infrared remote controller
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®	PAW-RE2C4	Wired remote controller for hotel application
CZ-RTC5B	Wired remote controller with Econavi function	CZ-CENSC1	Econavi energy savings sensor

1) Value referred to standard settings at shipment (H curve 8, M curve 5, L curve 1). * Available in summer 2021.

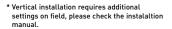
Technical focus

- 4 installation possibilities with horizontal and vertical mounting and selectable rear or bottom air inlet
- Industry leading low noise with super quiet operation, minimum 22 dB(A)
- · Only 250 mm height and lightweight unit from 26 to 42 kg
- Integrated R32 leak detectors
- · Improved drain pan suitable for both horizontal / vertical installation
- · Drain pump included ¹⁾
- nanoe[™] X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard, effective even at duct connections up to 10 m and 3 bends ²¹

For use with horizontal installation only
 Panasonic internal survey.

Vertical Installation

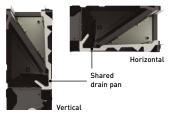
New vertical installation option. Variable external static pressure to support ducted installations with bends.





Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation. No need to alternate anymore.





ECONAVI and INTERNET CONTROL: Optional.



NEW M1 Type slim variable static pressure hide-away concealed duct • R32

The ultra slim M1 type is one of the leading products of its type in the industry.

With a depth of only 200 mm it provides greater flexibility and can be used in far more applications.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS.

Model	*		S-15MM1E5B	S-22MM1E5B	S-28MM1E5B	S-36MM1E5B	S-45MM1E5B	S-56MM1E5B
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6
Input power cooling]	W	36,00	36,00	40,00	42,00	49,00	64,00
Operating current c	cooling	A	0,26	0,26	0,30	0,31	0,37	0,48
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3
Input power heating	g	W	26,00	26,00	30,00	32,00	39,00	54,00
Operating current h	neating	A	0,23	0,23	0,27	0,28	0,34	0,45
Fan type			Sirocco fan					
Air flow	Hi / Med / Lo	m³/min	8,00/7,00/6,00	8,00/7,00/6,00	8,50/7,50/6,50	9,00/8,00/7,00	10,50/9,50/8,00	12,50/11,50/10,00
External static pres	sure	Pa	10(30)	10(30)	15(30)	15(40)	15(40)	15(40)
Sound pressure	Hi / Med / Lo 1)	dB(A)	28/27/25 (30/29/27)	28/27/25 (30/29/27)	30/29/27 (32/31/29)	32/30/28 (34/32/30)	34/32/30 (36/34/32)	35/33/31 (37/35/32)
Sound power	Hi / Med / Lo	dB(A)	43/42/40	43/42/40	45/44/42	47/45/43	49/47/45	50/48/46
Dimension	HxWxD	mm	200 x 750 x 640					
Net weight		kg	19	19	19	19	19	19
Dina diamatan	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Pipe diameter	Gas pipe	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller

Accessories	
PAW-RE2C4	Wired remote controller for hotel application
CZ-CENSC1	Econavi energy savings sensor
CZ-CGLSC1	R32 refrigerant leak detector

1) By DIP switches or by RC setting.

Technical focus

- · Ultra-slim profile: 200 mm for all models
- \cdot DC fan motor greatly reduces power consumption
- · Ideal for hotel application with very narrow false ceilings
- · Easy maintenance and service by external electrical box
- · 40 Pa static pressure enables ductwork to be fitted
- Includes drain pump

Air outlet & inlet plenum

	Diameters	Air outlet plenum	Diameters	Air inlet plenum
22,28&36	2 x Ø200	CZ-DUMPA22MMS2	2 x Ø200	CZ-DUMPA22MMR2
45 & 56	3 x Ø160	CZ-DUMPA45MMS3	2 x Ø200	CZ-DUMPA45MMR3

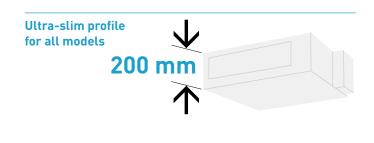
* Plenums installed with an R32 Mini EC0i system may only be used when no refrigerant leak detector is required. Please refer to technical data manual for refrigerant installation requirements.

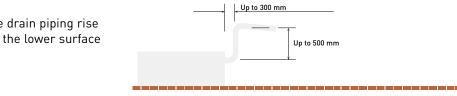
Drain pump with increased power!

SELE-DIAGNOSING

By adoption of a high-lift drain pump, the drain piping rise height can be increased to 785 mm from the lower surface of the body.

In addition, its high-efficiency and extremely quiet sound levels make it very popular with many users, including hotels and small offices.





FILTER INCLUDED ECONAVI and INTERNET CONTROL: Optional.

28%

ECONAVI

AUTOMATIC

Control and connectivity

Panasonic offers different control solutions to adapt to each site and its owner needs. Small installations can easily connected to Panasonic Comfort Cloud allowing the control of the units remotely with simple smartphone App. For more professional approach and bigger installations or shop/office network style the Panasonic AC Smart Cloud is the best option.

Panasonic Comfort Cloud, the advanced smartphone control

Indoor units with your smartphone from wherever and whenever you are, by using Panasonic Comfort Cloud App and Commercial Wi-Fi Adaptor. This scalable solution is ideal for one system, one site or multiple locations. Coupling the adapter with the already feature rich systems, makes it an ideal solution for residential and commercial applications.

Error codes

repair.

From 1 to 200 units User can control up to 10 different sites, with up to 20 units / groups per site. Additionally, one adaptor can be connected to 1 indoor or to a group of maxium 8 indoors.

Easy scheduling

Complex weekly scheduling made simple. Not only for one unit, but across multiple sites and from a smartphone.



Voice control compatible When registering the unit to Panasonic Comfort Cloud App it makes compatible with most popular voice assistants.

Error code notification through

notification and allows for faster

the App, provides early

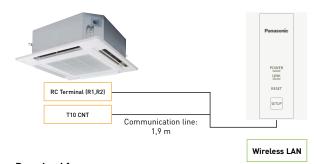
Multi user

The Panasonic Comfort Cloud App allows multi-user access control. Restrict user access to specific units.



Connection Diagram

Commercial Wi-Fi Adaptor wiring length is 1,9 m and connects to indoor unit thru T10 connector and R1/R2 terminal connectors.



Download free app: Panasonic Comfort Cloud App Other hardware requirements: Router and Internet (purchase and subscribe separately).





Panasonic AC Smart Cloud

The AC Smart Cloud system from Panasonic allows you to have complete control of all your installations from your remote device. In a simple click, control all your units from several locations, receive status updates in real-time, reduce the risk of potential breakdowns and improve operational cost.





Econavi control Built-in thermostat	Indoor units which can be controlled	Use limitations	Function ON/ OFF Mode setting	Fan speed setting	Temperature setting	Air flow direction	Permit/Prohibit switching	Weekly program	BMS protocol
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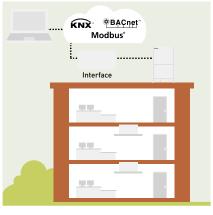
Individual controllers

Individual c	ontrollers													
Wired remote	25.0	CZ-RTC6 Non-wireless	~	~	1 group, 8 units	 Up to 2 controllers can be connected per group 	~	~	~	~	~	-	_	-
controller	= ~ ~ ~ d	CZ-RTC6BL With Bluetooth®	~	r	1 group, 8 units	 Up to 1 controller can be connected per group 	r	r	r	r	~	_	r	-
Design wired remote controller		CZ-RTC5B	r	٢	1 group, 8 units	 Up to 2 controllers can be connected per group 	r	r	r	r	r	_	r	_
Touch room controller for hotel with Dry Contacts	250° 2025	PAW-RE2C4-MOD-WH PAW-RE2C4-MOD-BK WH: White, BK: Black. Bespoke finish available on request.	_	v	1 indoor unit	_	v	v	v	v	_	v	_	Modbus + 4 digital I/O signals
Touch display control for hotel with Dry Contacts	250	PAW-RE2D4-WH PAW-RE2D4-BK WH: White, BK: Black. Bespoke finish available on request.	_	r	1 indoor unit	_	r	r	r	r	_	r	_	Stand Alone + 2 digital inputs

1. Setting is not possible when a remote controller unit is present (use the remote controller for setting). * All specifications subject to change without notice.

Easy connection to KNX, Modbus, LonWorks and BACnet

Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters. This connectivity solution with "PAW" model names is made by a third party company, please contact Panasonic for more information.





	Room controller	Interface	BMS Type	Maximum number of indoor units connected
	SER8150R0B1194 / SER8150R5B1194		Modbus / BACnet	1 Unit/group
		PAW-RC2-KNX-1i	KNX	1 (1 Group of indoor units)
Connect to		PAW-RC2-MBS-1	Modbus RTU 1)	1 (1 Group of indoor units)
indoor units		PAW-RC2-MBS-4	Modbus	4 Indoor/groups
		PA-RC2-WIFI-1	IntesisHome	1 (1 Group of indoor units)
		PAW-RC2-BAC-1	BACnet	1
		PAW-AC2-KNX-16P	KNX	16
		PAW-AC2-KNX-64P	KNX	64
		PAW-AC2-MBS-16P	Modbus	16
		PAW-AC2-MBS-64P	Modbus	64
		PAW-AC2-MBS-128P	Modbus	128
Connect to		PAW-TM-MBS-RTU-64	Modbus RTU 2)	64
P-Link		PAW-TM-MBS-TCP-128	Modbus TCP 2]	128
		PAW-AC2-BAC-16P	BACnet	16
		PAW-AC2-BAC-64P	BACnet	64
		PAW-AC2-BAC-128P	BACnet	128
		CZ-CLNC2	LonWorks	16 Groups of maximum 8 indoor units, in total maximum 64 indoor units

1) Interface Modbus RTU/TCP is needed in case if Modbus TCP connection. PAW-MBS-TCP2RTU (ModBus RTU Slave devices). 2) Interface CZ-CFUNC2 needed.

Safe Usage of R32 in Panasonic Mini VRF systems

R32 being a mildly flammable refrigerant (category A2L), the design and installation of systems operating with R32 must comply with the relevant refrigerant safety regulations. Those regulations which apply to our Mini VRF systems and the unique "incorporated circulation air flow" method are:

EN 378 (ISO 5149) for safety and toxicity, IEC 60335-2-40 (ed. 6.0) for safety and flammability.

The restrictions imposed on the refrigerant charges in a system due to the flammability of R32 are more severe than those imposed by toxicity. Therefore, in standard applications using our Mini VRF systems, toxic concentrations cannot occur.

Incorporated circulation airflow – Mitigation method applied by Panasonic

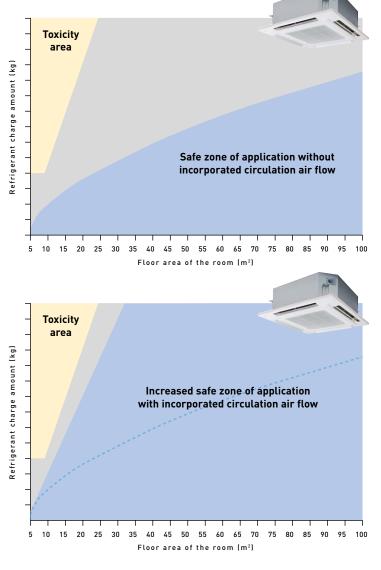
In applications where the refrigerant charge of a system exceeds the limits allowed for a specific room size, Panasonic Mini VRF systems offer the so-called "incorporated circulation air flow method" in combination with an R32 leak detector, which substantially helps considerably to overcome such limitations. As soon as a leak occurs and is detected by the sensor, the detector triggers an alarm, the compressor stops and the indoor unit fan is set to high speed to circulate the air in the room, thus diluting the R32 concentration.



Example of a 10.6 kW cassette model installed at 2.2 m height

 a) Application without leak detector nor circulation air flow:

The refrigerant charge of the system, in relation to the floor area, must lie within the blue zone. Installation outside this zone is not allowed.



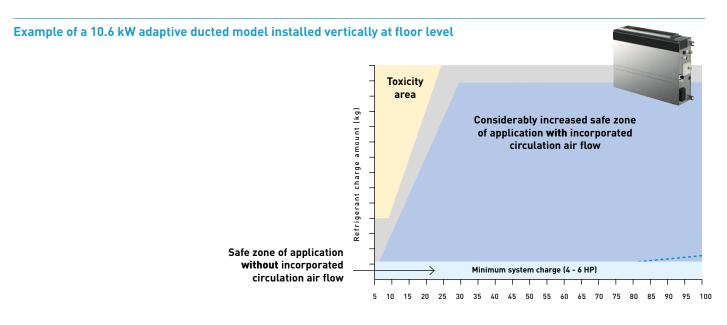
b) Application with leak detector and circulation air flow: The refrigerant charge of the system in relation to the floor area can be considerably increased due to the circulation air flow.

Panasonic Refrigerant Leak Detector CZ-CGLSC1

Panasonic's incorporated circulation air flow method is a remarkable way to comply with the mitigation rules specified in the standards and regulations, thus allowing for higher system refrigerant charges per room area.

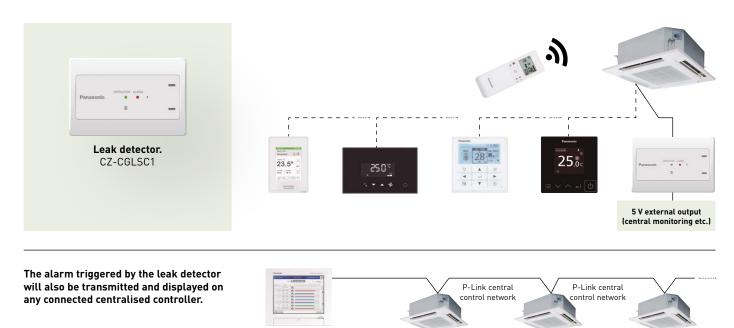
To trigger the circulation airflow, R32 leak detectors are required. Panasonic has developed 2 types of leak detectors, an external, optional detector, as well as 2 integrated sensors for the flexible Adaptive Ducted model to assure a positive dtection in case of a refrigerant leak.

Without any additional measure, it is practically impossible to operate such a unit at floor level in VRF systems, whereas the combination of leak detector and incorporate circulation airflow provides the adaptability customers expect.



For any other indoor unit models, Panasonic offers its optional external leak detector (CZ-CGLSC1). This enables the customer to decide if a leak detector is required to comply with the restrictions, or if the indoor unit may be safely installed in this room without it.

This optional leakage detection sensor has an integrated alarm buzzer and can output a signal to a central alarm system in the building. The device is connected to the remote control terminals of the indoor unit and can be used in combination with any of the Panasonic VRF remote controllers, either wired or wireless.



Please refer to the installation manuals **for the tables for every indoor unit model and capacity**, specifying the maximum refrigerant charge per floor area for each recommended installation height as well as for applications with and without leak detector. Charts displaying the relation between refrigerant charge and floor area are also provided in the installation manuals.

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