
























FSV Indoor Units Range

Wide choice of models depending on the indoor requirements

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
Type	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
F2 type ECONAVI Mid Static Ducted	 S-22MF2E5A	 S-28MF2E5A	 S-36MF2E5A	 S-45MF2E5A	 S-56MF2E5A	 S-60MF2E5A	 S-73MF2E5A	 S-90MF2E5A
M1 type ECONAVI Slim Low Static Ducted	 S-22MM1E5A	 S-28MM1E5A	 S-36MM1E5A	 S-45MM1E5A	 S-56MM1E5A			
Z1 type ECONAVI Slim & Narrow Ducted	 S-22MZ1H4A	 S-28MZ1H4A	 S-36MZ1H4A	 S-45MZ1H4A	 S-56MZ1H4A	 S-60MZ1H4A	 S-73MZ1H4A	
E1/E2 type High Static Ducted / Energy Saving High-Fresh Air Ducted*							 S-73ME1E5	
ER1 type High Static Compact Ducted								 S-90ME1R5A
K2 type ECONAVI Wall Mounted	 S-22MK2E5A	 S-28MK2E5A	 S-36MK2E5A	 S-45MK2E5A	 S-56MK2E5A		 S-73MK2E5A	
U2 type ECONAVI ** 4-Way Cassette Panel No. CZ-KPU3	 S-22MU2E5A	 S-28MU2E5A	 S-36MU2E5A	 S-45MU2E5A	 S-56MU2E5A	 S-60MU2E5A	 S-73MU2E5A	 S-90MU2E5A
Y2 type ECONAVI 4-Way Mini Cassette Panel No. CZ-KPY3AW	 S-22MY2E5A	 S-28MY2E5A	 S-36MY2E5A	 S-45MY2E5A	 S-56MY2E5A			
L1 type 2-Way Cassette Panel No. CZ-02KPL2 Panel No. CZ-03KPL2 (Only for S-73ML1E5)	 S-22ML1E5	 S-28ML1E5	 S-36ML1E5	 S-45ML1E5	 S-56ML1E5		 S-73ML1E5	
D1 type 1-Way Cassette Panel No. CZ-KPD2		 S-28MD1E5	 S-36MD1E5	 S-45MD1E5	 S-56MD1E5		 S-73MD1E5	
T2 type ECONAVI Ceiling			 S-36MT2E5A	 S-45MT2E5A	 S-56MT2E5A		 S-73MT2E5A	
P1 type Floor Standing	 S-22MP1E5	 S-28MP1E5	 S-36MP1E5	 S-45MP1E5	 S-56MP1E5		 S-71MP1E5	
R1 type Concealed Floor Standing	 S-22MR1E5	 S-28MR1E5	 S-36MR1E5	 S-45MR1E5	 S-56MR1E5		 S-71MR1E5	

* Only for High Static Ducted (22.4kW & 28.0kW only)
 ** Only for CZ-KPU3A (ECONAVI Panel)
 *** Only for CZ-CNEXU1 (nanoEX Sensor) with CZ-RTC5B

106	112	140	160	180	224	280	Wireless remote control	Type with built-in sensor / Type with separately installed sensor		Functions
Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating	Cooling/Heating				
10.6/11.4	11.2/12.5	14.0/16.0	16.0/18.0	18.0/20.0	22.4/25.0	28.0/31.5				
 S-106MF2E5A		 S-140MF2E5A	 S-160MF2E5A					●		self-diagnosing, Auto fan, Mild dry, Auto restart, Drain pump, DC motor
								●		self-diagnosing, Auto fan, Mild dry, Auto restart, Drain pump, DC motor
								●		self-diagnosing, Auto fan, Mild dry, Auto restart, DC motor
 S-106ME1E5		 S-140ME1E5		 S-180ME2E5	 S-224ME2E5*	 S-280ME2E5*				self-diagnosing, Auto fan, Mild dry, Auto restart, DC motor, High Fresh Air (High Static Ducted)
	 S-112ME1R5A	 S-140ME1R5A	 S-160ME1R5A					●		self-diagnosing, Auto fan, Mild dry, Auto restart
 S-106MK2E5A								●	●	self-diagnosing, Auto fan, Mild dry, Auto restart, Air swing, DC motor, Auto flap
 S-106MU2E5A		 S-140MU2E5A	 S-160MU2E5A					●	●	self-diagnosing, Auto fan, Mild dry, Auto restart, Air swing, Drain pump, DC motor, Auto flap
								●	●	self-diagnosing, Auto fan, Mild dry, Auto restart, Air swing, Drain pump, DC motor, Auto flap
								●	●	self-diagnosing, Auto fan, Mild dry, Auto restart, Air swing, Drain pump, DC motor, Auto flap
 S-106MT2E5A		 S-140MT2E5A						●	●	self-diagnosing, Auto fan, Mild dry, Auto restart, Air swing, DC motor, Auto flap
								●		self-diagnosing, Auto fan, Mild dry, Auto restart
								●		self-diagnosing, Auto fan, Mild dry, Auto restart

Self-diagnosing function, Automatic fan operation, DRY Mild dry, Intelligent auto flap control, Automatic restart function for power failure, Air swing, Built-in drain pump, DC motor

Model Name		S-22MF2E5A	S-28MF2E5A	S-36MF2E5A	S-45MF2E5A	S-56MF2E5A
Power source		220/230/240V, 1 phase - 50/60Hz				
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
	BTU/h	7,500	9,600	12,300	15,400	19,100
Heating capacity	kW	2.5	3.2	4.2	5.0	6.3
	BTU/h	8,500	10,900	14,300	17,100	21,500
Power input	Cooling kW	0.070/0.070/0.070	0.070/0.070/0.070	0.070/0.070/0.070	0.070/0.070/0.070	0.100/0.100/0.100
	Heating kW	0.070/0.070/0.070	0.070/0.070/0.070	0.070/0.070/0.070	0.070/0.070/0.070	0.100/0.100/0.100
Running amperes	Cooling A	0.60/0.57/0.56	0.60/0.57/0.56	0.60/0.57/0.56	0.60/0.57/0.56	0.77/0.74/0.71
	Heating A	0.60/0.57/0.56	0.60/0.57/0.56	0.60/0.57/0.56	0.60/0.57/0.56	0.77/0.74/0.71
Fan motor	Type	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
	Air flow rate (H/M/L)	m ³ /h	840/780/600	840/780/600	840/780/600	960/900/720
	L/s		233/217/167	233/217/167	233/217/167	267/250/220
	Output	kW	0.119	0.119	0.119	0.119
	External static pressure	Pa	70(10-150)	70(10-150)	70(10-150)	70(10-150)
Power sound level (H/M/L)	dB(A)	55/51/47	55/51/44	55/51/44	56/54/47	56/54/47
Sound pressure sound (H/M/L)	dB(A)	33/29/25	33/29/22	33/29/22	34/32/25	34/32/25
Dimensions	H x W x D	mm	290x800x700	290x800x700	290x800x700	290x800x700
	Liquid	mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)
Pipe connections	Gas	mm (inches)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)
	Drain piping		VP-25	VP-25	VP-25	VP-25
Net weight	kg	29	29	29	29	29

GLOBAL REMARKS	Rated conditions:	Cooling	Heating
	Indoor air temperature	27°C DB / 19°C WB	20°C DB
	Outdoor air temperature	35°C DB / 24°C WB	7°C DB / 6°C WB

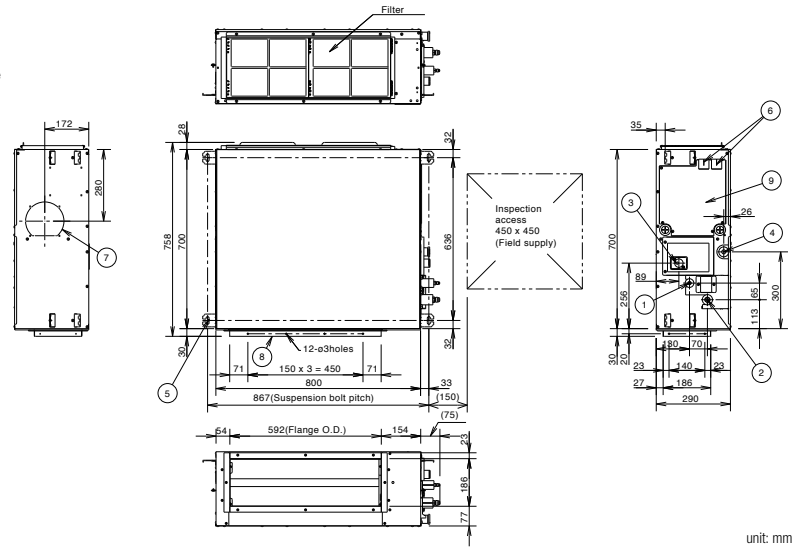
Specifications are subject to change without notice.

S-60MF2E5A	S-73MF2E5A	S-90MF2E5A	S-106MF2E5A	S-140MF2E5A	S-160MF2E5A
220/230/240V, 1 phase - 50/60Hz					
6.0	7.3	9.0	10.6	14.0	16.0
20,500	24,900	30,700	36,200	47,800	54,600
7.1	8.0	10.0	11.4	16.0	18.0
24,200	27,300	34,100	38,900	54,600	61,400
0.120/0.120/0.120	0.120/0.120/0.120	0.135/0.135/0.135	0.195/0.195/0.195	0.215/0.215/0.215	0.225/0.225/0.225
0.120/0.120/0.120	0.120/0.120/0.120	0.135/0.135/0.135	0.200/0.200/0.200	0.210/0.210/0.210	0.225/0.225/0.225
0.91/0.89/0.87	0.91/0.89/0.87	0.99/0.97/0.95	1.35/1.30/1.27	1.48/1.44/1.39	1.55/1.50/1.47
0.91/0.89/0.87	0.91/0.89/0.87	0.99/0.97/0.95	1.37/1.34/1.29	1.46/1.42/1.38	1.55/1.50/1.46
Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
1,260/1,140/900	1,260/1,140/900	1,500/1,380/1,140	1,920/1,620/1,320	2,040/1,740/1,380	2,160/1,860/1,500
350/317/250	350/317/250	417/383/317	533/450/367	567/483/383	600/517/417
0.124	0.124	0.124	0.235	0.235	0.235
70(10-150)	70(10-150)	70(10-150)	100(10-150)	100(10-150)	100(10-150)
57/54/48	57/54/48	59/56/50	60/56/53	61/57/54	62/58/55
35/32/26	35/32/26	37/34/28	38/34/31	39/35/32	40/36/33
290x1,000x700	290x1,000x700	290x1,000x700	290x1,400x700	290x1,400x700	290x1,400x700
Ø6.35 (Ø1/4)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)
Ø12.7 (Ø1/2)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)
VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
34	34	34	46	46	46

F2 TYPE MID STATIC DUCTED Dimensions

SIZE 22-56 MF2E5A

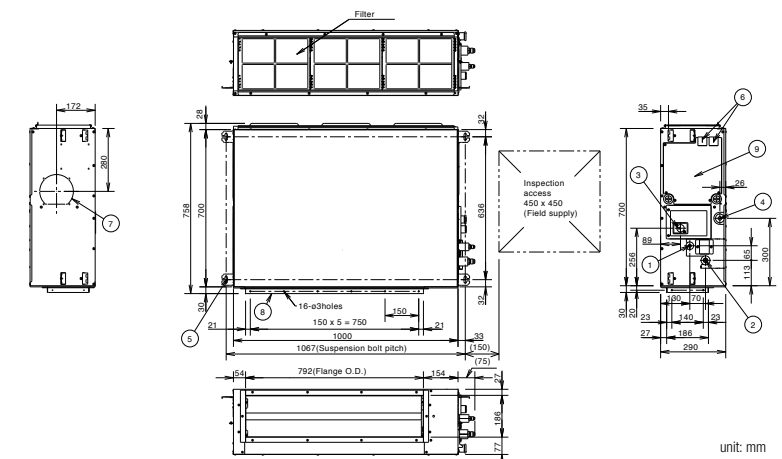
- 1 Refrigerant piping joint (liquid tube) Ø6.35 Flare
- 2 Refrigerant piping joint (gas tube) Ø12.7 Flare
- 3 Upper drain port VP25 (O.D. Ø32mm)
- 4 Bottom drain port VP25 (O.D. Ø32mm)
- 5 Suspension lug (4-12 x 30mm)
- 6 Power supply outlet
- 7 Fresh air intake port (Ø150mm)
- 8 Flange for flexible air outlet duct
- 9 Electrical component box



unit: mm

SIZE 60-90 MF2E5A

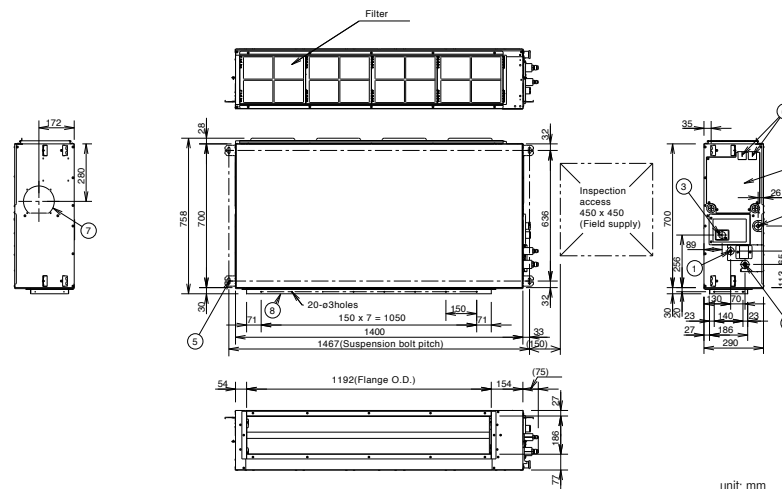
- 1 Refrigerant piping joint (liquid tube) Ø9.52 Flare
- 2 Refrigerant piping joint (gas tube) Ø15.88 Flare
- 3 Upper drain port VP25 (O.D. Ø32mm)
- 4 Bottom drain port VP25 (O.D. Ø32mm)
- 5 Suspension lug (4-12 x 30mm)
- 6 Power supply outlet
- 7 Fresh air intake port (Ø150mm)
- 8 Flange for flexible air outlet duct
- 9 Electrical component box



unit: mm

SIZE 106-160 MF2E5A

- 1 Refrigerant piping joint (liquid tube) Ø9.52 Flare
- 2 Refrigerant piping joint (gas tube) Ø15.88 Flare
- 3 Upper drain port VP25 (O.D. Ø32mm)
- 4 Bottom drain port VP25 (O.D. Ø32mm)
- 5 Suspension lug (4-12 x 30mm)
- 6 Power supply outlet
- 7 Fresh air intake port (Ø150mm)
- 8 Flange for flexible air outlet duct
- 9 Electrical component box



unit: mm

M1_{TYPE} Slim Low Static Ducted Concealed duct



Featuring a height of only 200mm, greater flexibility and adaptability, the ultra slim M1 Type is the perfect solution for a variety of applications, especially residential apartments, hotels and small offices.



S-22MM1E5A / S-28MM1E5A / S-36MM1E5A
S-45MM1E5A / S-56MM1E5A

ECONAVI
ECONAVI ready



For all indoor units
CZ-RWSK2 +
CZ-RWSC3



Self-diagnosing Function



Automatic Fan Operation



Mild dry



Automatic Restart Function



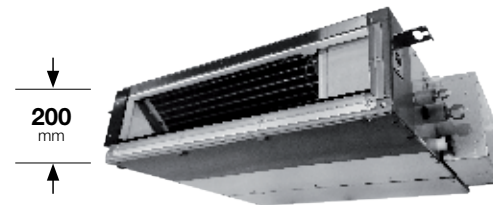
Built-in Drain Pump

Technical focus

- Ultra-slim profile: 200mm for all models
- DC fan motor greatly reduces power consumption
- Ideal for hotel application with very narrow false ceilings
- Anti-mould washable filters included
- Easy maintenance and service by external electrical box
- 40Pa static pressure enables ductwork to be fitted.
- Up to 653mm drain pump

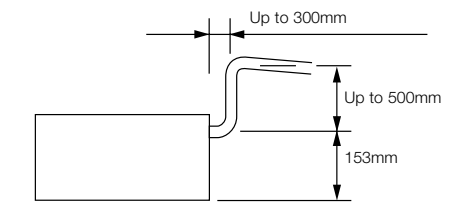
Ultra-slim profile for all models

200mm height for all models allows installation in very narrow ceilings.



Drain pump with increased power!

Using the built-in high-lift drain pump, the drain piping rise height can be increased to 653mm from the lower surface of the body.

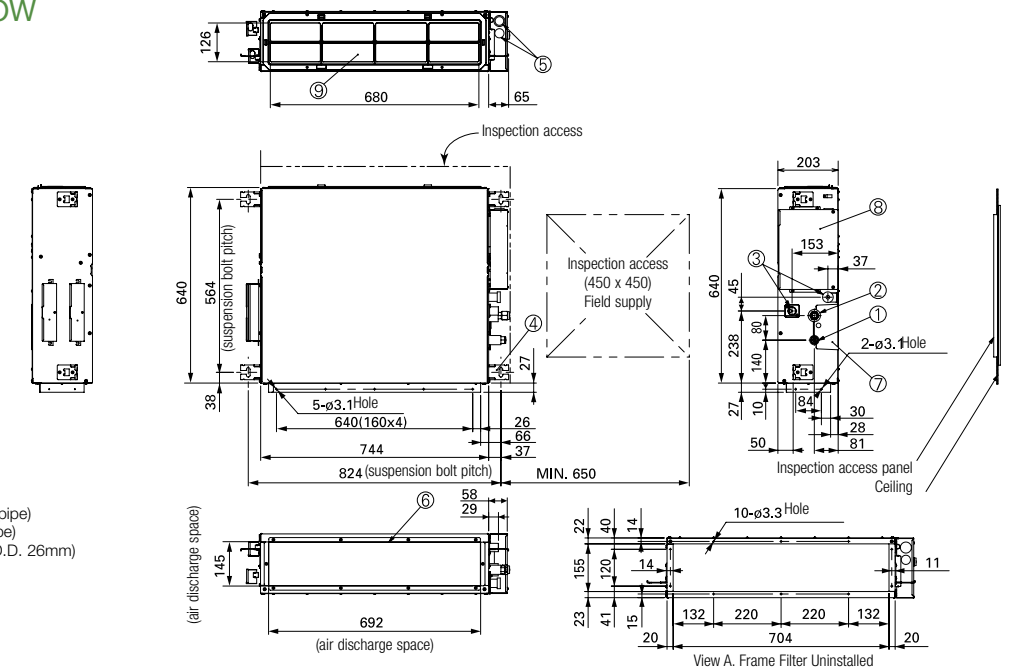


Model Name		S-22MM1E5A	S-28MM1E5A	S-36MM1E5A	S-45MM1E5A	S-56MM1E5A	
Power source		220/230/240 V, 1 phase - 50 / 60 Hz					
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	
	BTU/h	7,500	9,600	12,300	15,400	19,100	
Heating capacity	kW	2.5	3.2	4.2	5.0	6.3	
	BTU/h	8,500	10,900	14,300	17,100	21,500	
Power input	Cooling kW	0.036/0.036/0.036	0.040/0.040/0.040	0.042/0.042/0.042	0.049/0.049/0.049	0.064/0.064/0.064	
	Heating kW	0.026/0.026/0.026	0.030/0.030/0.030	0.032/0.032/0.032	0.039/0.039/0.039	0.054/0.054/0.054	
Running current	Cooling A	0.26/0.26/0.26	0.30/0.30/0.30	0.31/0.31/0.31	0.37/0.37/0.37	0.48/0.48/0.48	
	Heating A	0.23/0.23/0.23	0.27/0.27/0.27	0.28/0.28/0.28	0.34/0.34/0.34	0.45/0.45/0.45	
Fan	Type	Sirocco fan					
	Air flow rate (H/M/L)	m ³ /h	480/420/360	510/450/390	540/480/420	630/570/480	750/690/600
		L/s	133/117/100	142/125/108	150/133/117	175/158/133	208/192/167
	Motor output kW	0.06					
	External static pressure Pa	10 (30) / 15 (30) / 15 (40) / 15 (40) / 15 (40)					
Sound power level (H/M/L)	dB	43/42/40	45/44/42	47/45/43	49/47/45	50/48/46	
Sound pressure level (H/M/L)	dB(A)	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)*	
Dimensions	H x W x D mm	200 x 750 x 640					
	Liquid mm (inches)	Ø6.35 (Ø1/4)					
Pipe connections	Gas mm (inches)	Ø12.7 (Ø1/2)					
	Drain piping	VP-20					
Net weight kg		19					

Specifications are subject to change without notice. * With booster cable.

GLOBAL REMARKS: Rated conditions: Cooling 27°C DB / 19°C WB, Heating 20°C DB; Indoor air temperature 35°C DB / 24°C WB, Outdoor air temperature 7°C DB / 6°C WB

M1 TYPE SLIM LOW STATIC DUCTED Dimensions



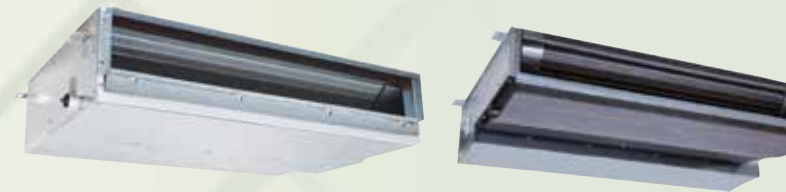
- 1 Refrigerant piping joint (narrow pipe)
- 2 Refrigerant piping joint (wide pipe)
- 3 Upper and bottom drain port (O.D. 26mm)
- 4 Suspension lug
- 5 Power supply outlet (2- Ø30)
- 6 Plange for air intake duct
- 7 PI cover
- 8 Electrical component box
- 9 Frame filter

unit: mm

Z1 TYPE Slim & Narrow Ducted Concealed duct



Featuring a height of only 200mm, greater flexibility and adaptability, the slim and narrow Z1 Type is the perfect solution for a variety of applications. In addition, high efficiency and an extremely low noise level make it highly suitable for hotels and small offices.



S-22MZ1H4A/ S-28MZ1H4A/ S-36MZ1H4A/ S-45MZ1H4A/ S-56MZ1H4A/ S-60MZ1H4A

S-73MZ1H4A



CZ-CENSC1 CZ-RTC5B



For all indoor units CZ-RWSK2 + CZ-RWSC3



Self-diagnosing Function



Automatic Fan Operation



Mild dry



Automatic Restart Function

Technical focus

- Ultra-slim profile: 200mm for all models
- DC fan motor greatly reduces power consumption
- Ideal for hotel application with very narrow false ceilings
- Easy maintenance and service by external electrical box
- 29Pa static pressure enables ductwork to be fitted.
- Up to 700mm drain pump (optional)

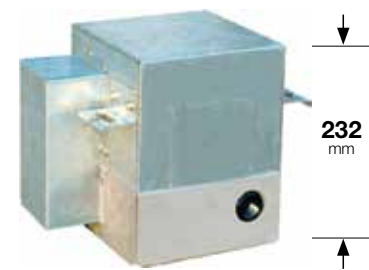
Ultra-slim profile for all models

200mm height for all models allows installation in very narrow ceilings.



Drain pump with increased power! (optional)

Using the optional high-lift drain pump, the drain piping rise height can be increased to 700mm from the drain pipe port. (Please refer to technical documents for further details)



CZ-73DMZ1

Model Name		S-22MZ1H4A	S-28MZ1H4A	S-36MZ1H4A	S-45MZ1H4A	S-56MZ1H4A	S-60MZ1H4A	S-73MZ1H4A
Power source		220/230/240 V, 1 phase - 50 / 60 Hz						
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	6.0	7.3
	BTU/h	7,500	9,500	12,200	15,300	19,100	20,500	24,900
Heating capacity	kW	2.5	3.2	4.2	5.1	6.4	7.1	8.0
	BTU/h	8,500	10,900	14,300	17,400	21,800	24,200	27,300
Power input	Cooling kW	0.075/0.075/0.075	0.080/0.080/0.080	0.085/0.085/0.085	0.095/0.095/0.095	0.100/0.100/0.100	0.100/0.100/0.100	0.125/0.125/0.125
	Heating kW	0.075/0.075/0.075	0.080/0.080/0.080	0.085/0.085/0.085	0.095/0.095/0.095	0.100/0.100/0.100	0.100/0.100/0.100	0.125/0.125/0.125
Running current	Cooling A	0.50/0.47/0.45	0.55/0.52/0.50	0.60/0.57/0.55	0.70/0.68/0.65	0.75/0.72/0.70	0.75/0.72/0.70	0.80/0.78/0.75
	Heating A	0.50/0.47/0.45	0.55/0.52/0.50	0.60/0.57/0.55	0.70/0.68/0.65	0.75/0.72/0.70	0.75/0.72/0.70	0.80/0.78/0.75
Fan	Type	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
	Air flow rate (H/M/L) m ³ /h	480/420/360	600/540/420	600/540/420	690/630/510	720/660/540	870/750/630	1,080/840/660
	L/s	133/117/100	167/150/117	167/150/117	192/175/142	200/183/150	242/208/175	300/233/183
	Motor output W	60	60	60	60	60	60	60
	External static pressure Pa	10-30	10-30	10-30	10-30	10-30	10-30	10-30
Sound power level (H/M/L) dB		50/49/47	52/51/49	54/52/50	56/54/52	57/55/53	60/57/55	62/60/58
Sound pressure level (H/M/L) dB(A)		28/27/25	30/29/27	32/30/28	34/32/30	35/33/31	38/35/33	40/38/36
Dimensions H x W x D mm		200x830x500	200x830x500	200x830x500	200x830x500	200x830x500	200x830x500	200x1,050x550
	Liquid mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø9.52 (Ø3/8)
Pipe connections	Gas mm (inches)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø15.88 (Ø5/8)
	Drain piping	O.D. Ø20.5 mm / I.D. Ø15.5mm	O.D. Ø20.5 mm / I.D. Ø15.5mm	O.D. Ø20.5 mm / I.D. Ø15.5mm	O.D. Ø20.5 mm / I.D. Ø15.5mm	O.D. Ø20.5 mm / I.D. Ø15.5mm	O.D. Ø20.5 mm / I.D. Ø15.5mm	O.D. Ø20.5 mm / I.D. Ø15.5mm
Net weight kg		17	17	18	18	18	18	24

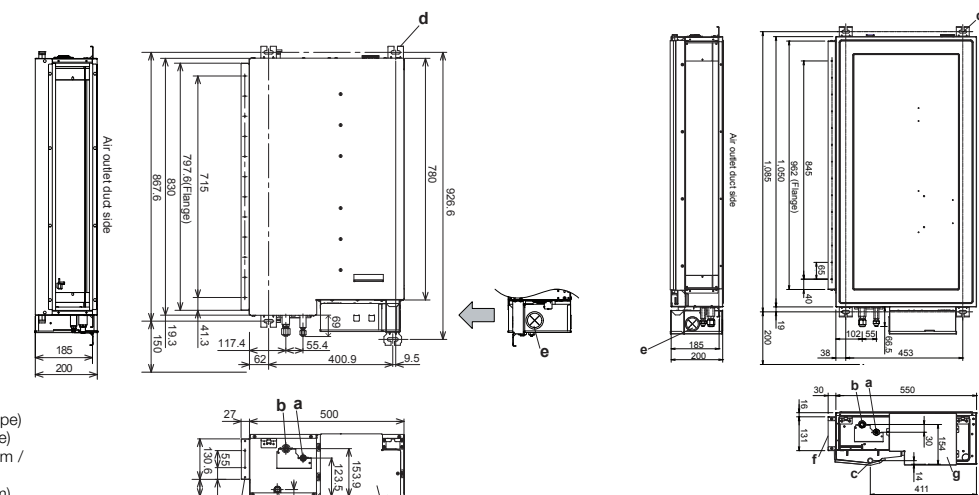
GLOBAL REMARKS	Rated conditions:	
	Cooling	Heating
	Indoor air temperature 27°C DB / 19°C WB	20°C DB
	Outdoor air temperature 35°C DB / 24°C WB	7°C DB / 6°C WB

Specifications are subject to change without notice.

Z1 TYPE SLIM & NARROW DUCTED Dimensions

SIZE 22-60MZ1H4A

SIZE 73MZ1H4A



- a) Refrigerant piping joint (liquid pipe)
- b) Refrigerant piping joint (gas pipe)
- c) Bottom drain port O.D.Ø20.5mm / I.D. Ø15.5mm
- d) Suspension lug (4 - 12 x 30mm)
- e) Power supply outlet
- f) Flange for flexible air outlet duct
- g) Electrical component box

unit: mm

E2 TYPE High Static Ducted Concealed duct



High static and large airflow ducted for exceptional installation flexibility.



S-180ME2E5 / S-224ME2E5 / S-280ME2E5



CZ-RTC5B



For all indoor units
CZ-RWSK2 +
CZ-RWSC3



Self-diagnosing Function



Automatic Fan Operation



Mild dry



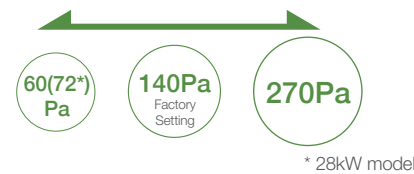
Automatic Restart Function

Technical focus

- Design flexibility thanks to high static pressure and large air volume
- DC motor equipped
- Discharge air temperature control to reduce cold drafts during heating operation
- Available Fresh Air Intake mode

3-step static pressure set up

You can select between the three static pressure modes of 270Pa/ 140Pa/ 60 (72*)Pa for extra installation flexibility.



Up to 270Pa static pressure setting

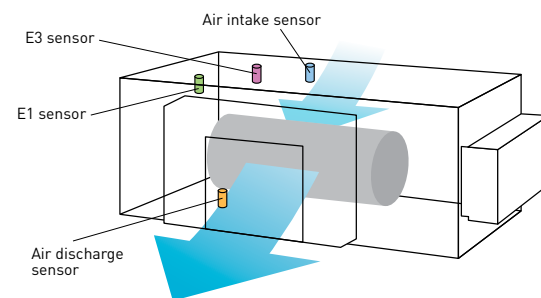
A maximum static pressure setting of a high 270Pa enables the use of long ducts for installation in a wide range of spaces. Ideal for large-scale offices, restaurants and other facilities.

Sensible cooling 5-10% improved

New heat exchanger with $\phi 7$ mm pipe that increases the heat transfer surface to improve sensible cooling (5-10% improvement)

Discharge air temperature control

- Equipped with 4 sensors (Intake/ Discharge)
- Able to control discharge air temperature for accurate room temperature control.
- Possible to reduce cold drafts during heating operation.



Model	Operation	Rap valve kit CZ-P160RVK2	3-PIPE control PCB CZ-CAPE2	3-PIPE valve kit CZ-P160HR3	3-PIPE valve kit multiple connection port type 4 port CZ-P4160HR3 (160 type) X 4pcs	Distribution Joint kit <2pipes> CZ-P160BK2 for 22.4kW unit or less CZ-P680BK2 for more than 22.4kW	Distribution Joint kit <3pipes> CZ-P224BH2 for 22.4kW unit CZ-P680BH2 for 28.0kW unit
E2 Type High Static Ducted	Cooling Only	-	-	-	-	-	-
	Cool or Heat	-	-	-	-	-	-
	Heat Recovery	-	2pcs	2pcs	use 2ports	1pc	1pc

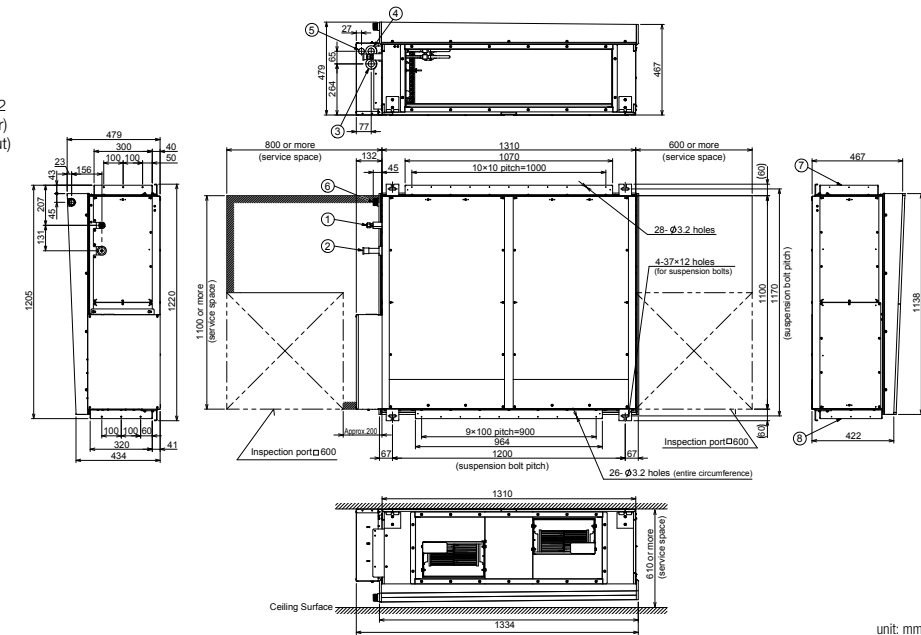
Model Name		S-180ME2E5	S-224ME2E5	S-280ME2E5	
Power source		220/230/240 V, 1 phase - 50/60Hz			
Cooling capacity	kW	18.0	22.4	28.0	
	BTU/h	61,400	76,400	95,500	
Heating capacity	kW	20.0	25.0	31.5	
	BTU/h	68,200	85,300	107,500	
Power input	Cooling kW	0.400	0.440	0.715	
	Heating kW	0.400	0.440	0.715	
Running current	Cooling A	2.40 / 2.30 / 2.20	2.55 / 2.45 / 2.35	3.95 / 3.85 / 3.70	
	Heating A	2.40 / 2.30 / 2.20	2.55 / 2.45 / 2.35	3.95 / 3.85 / 3.70	
Fan	Type	Sirocco fan			
	Air flow rate (H/M/L)	m³/h	2,940 / 2,640 / 2,340	3,360 / 3,060 / 2,640	4,320 / 3,780 / 3,180
		L/s	817 / 733 / 650	933 / 850 / 733	1,200 / 1,050 / 883
	External static pressure	Pa	140 (60/270)	140 (60/270)	140 (72/270)
Sound power level (H/M/L)	dB	76 / 74 / 72	77 / 75 / 73	81 / 79 / 75	
Sound pressure level (H/M/L)	dB(A)	44 / 42 / 40	45 / 43 / 41	49 / 47 / 43	
Dimensions	H x W x D	mm 479 x 1,453 x 1,205			
	Pipe connections	Liquid mm (inches)	Ø9.52 (3/8)		
Pipe connections	Gas mm (inches)	Ø19.05 (3/4)		Ø22.22 (7/8)	
	Drain piping	VP-25			
Net weight	kg	102	102	106	

GLOBAL REMARKS	Rated conditions:	Cooling	Heating
	Indoor air temperature	27°C DB / 19°C WB	20°C DB
	Outdoor air temperature	35°C DB / 24°C WB	7°C DB / 6°C WB

Specifications are subject to change without notice.

E2 TYPE HIGH STATIC DUCTED Dimensions

- 1 Refrigerant piping (liquid pipes) Ø9.52
- 2 Refrigerant piping (gas pipes) 180 & 224 type: Ø19.05, 280 type: Ø22.22
- 3 Power supply outlet (Ø25 grommet, rubber)
- 4 Power supply outlet (spare) (Ø30 knock-out)
- 5 Optional outlet for piping
- 6 Drain port 25 A, male thread
- 7 Duct connection for suction
- 8 Duct connection for discharge



unit: mm

E2 TYPE Energy Saving High Fresh Air Ducted Concealed duct

High static and large airflow ducted for exceptional installation flexibility.



S-224ME2E5 / S-280ME2E5



CZ-RTC5B



For all indoor units CZ-RWSK2 + CZ-RWSC3



Self-diagnosing Function



Automatic Fan Operation



Automatic Restart Function

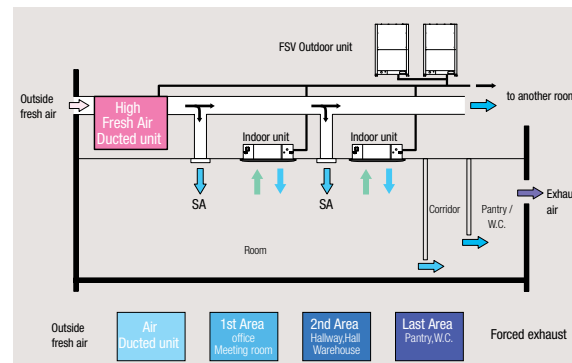
Technical focus

- 100% fresh air intake for ventilation purpose
- Design flexibility with high static pressure and large air volume
- DC motor equipped
- Discharge air temperature control to reduce cold drafts during heating operation

High Fresh System

High Fresh System enables delivery of fresh outside air at almost the same temperature and humidity as indoor air without putting a burden on air conditioning.

* Capable of treating outdoor air only. Indoor air conditioner units are required to adjust indoor air temperature.



Mix operation unit with standard indoor units

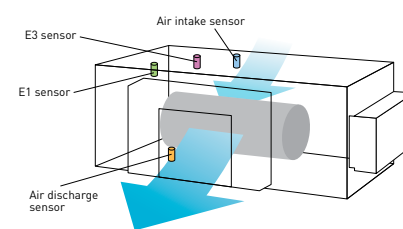
Possible to combine High Fresh Air ducted indoor unit and standard air ducted indoor units.

When other indoor units are connected in same circuit, keep following capacity ratio.

E2 type/ Outdoor unit < 30%, and Total of indoors (incl. E2) / outdoor < 100%

Discharge air temperature control

- Equipped with 4 sensors (Intake/ Discharge)
- Ability to control discharge air temperature for accurate room temperature control.
- Ability to reduce cold drafts during heating operation.



Installation Conditions

Model	Operation	Rap valve kit CZ-P160RVK2	3-PIPE control PCB CZ-CAPE2	3-PIPE valve kit CZ-P160HR3	Distribution Joint kit <2pipes> CZ-P160BK2 for 22.4kW unit or less CZ-P680BK2 for more than 22.4kW	Distribution Joint kit <3pipes> CZ-P224BH2 for 22.4kW unit CZ-P680BH2 for 28.0kW unit
E2 Type Energy Saving High-Fresh Air Ducted	Cooling Only	-	-	-	-	-
	Cool or Heat	2pcs	2pcs	-	2pcs	-
	Heat Recovery	-	2pcs	2pcs	1pc	1pc

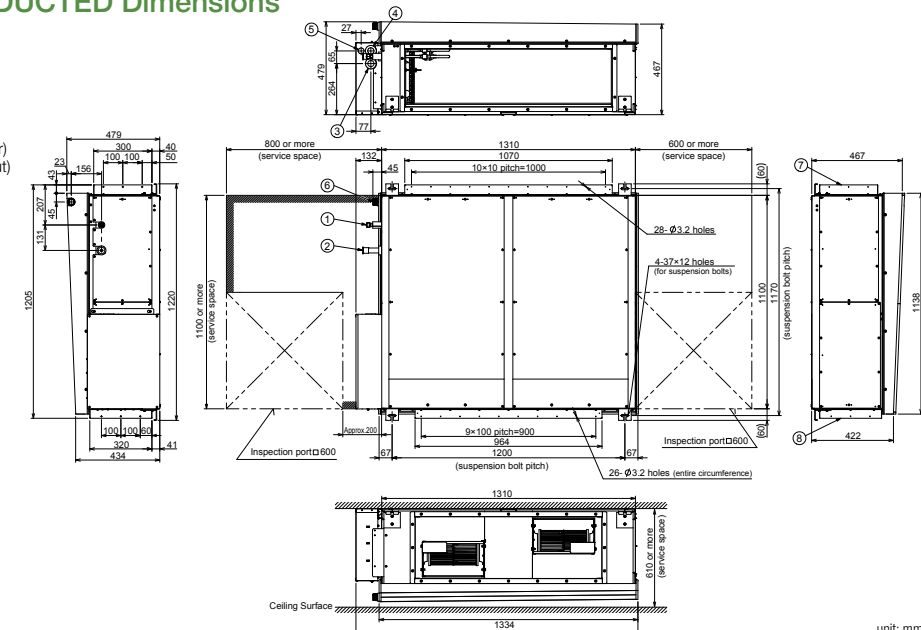
Model Name		S-224ME2E5	S-280ME2E5
Power source		220/230/240 V, 1 phase - 50/60Hz	
Cooling capacity	kW	22.4	28.0
	BTU/h	76,400	95,500
Heating capacity	kW	21.2	26.5
	BTU/h	72,300	90,400
Power input	Cooling kW	0.290	0.350
	Heating kW	0.290	0.350
Running current	Cooling A	1.90/1.85/1.80	2.30/2.20/2.10
	Heating A	1.90/1.85/1.80	2.30/2.20/2.10
Fan	Type	Sirocco fan	
	Air flow rate m ³ /h	1,700	2,100
	L/s	472	583
	Motor output W	560	750
	External static pressure Pa	200	200
Sound power level	dB	75	76
Sound pressure level	dB(A)	43	44
Dimensions	H x W x D mm	479 x 1,453 x 1,205	
	Liquid mm (inches)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)
Pipe connections	Gas mm (inches)	Ø19.05 (Ø3/4)	Ø22.22 (Ø7/8)
	Drain piping	VP-25	
Net weight	kg	102	106

GLOBAL REMARKS	Rated conditions:	Cooling	Heating
	Outdoor air temperature	33°C DB / 28°C WB	0°C DB / -2.9°C WB

Specifications are subject to change without notice.

E2 TYPE HIGH STATIC DUCTED Dimensions

- 1 Refrigerant piping (liquid pipes) Ø9.52
- 2 Refrigerant piping (gas pipes) 224 type: Ø19.05, 280 type: Ø22.22
- 3 Power supply outlet (Ø25 grommet, rubber)
- 4 Power supply outlet (spare) (Ø30 knock-out)
- 5 Optional outlet for piping
- 6 Drain port 25 A, male thread
- 7 Duct connection for suction
- 8 Duct connection for discharge



unit: mm

E1 TYPE High Static Compact Ducted Concealed duct

Hidden in the ceiling to provide an ideal match for luxury residences and light commercial buildings.



S-90ME1R5A/
S-112ME1R5A



S-140ME1R5A/
S-160ME1R5A



CZ-RTC5B



For all indoor units
CZ-RWSK2 +
CZ-RWSC3



Self-diagnosing
Function



Automatic
Fan
Operation



Mild dry



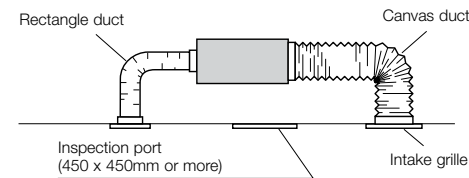
Automatic
Restart
Function

Technical focus

- Complete flexibility for ductwork design
- Can be located into a weatherproof housing for external installation
- Up to 150Pa external static pressure
- Discharge air temperature control to reduce cold drafts during heating operation
- Up to 1000 L/s air flow (in the case of S-160ME1R5A)

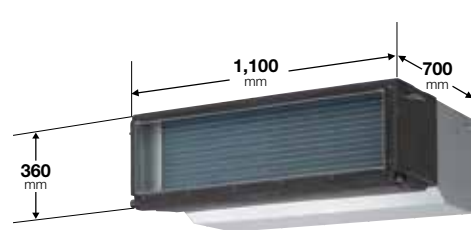
System Example

An inspection port (450mm x 450mm or more) is required at the control-box side of the indoor unit body.

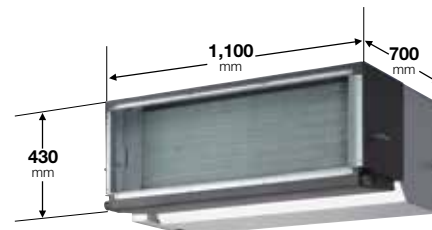


Compact Body Size

Hidden in the ceiling, ideal when interior decor is an important consideration such as in residences with many rooms and light commercial buildings.



S-90ME1R5A / S-112ME1R5A



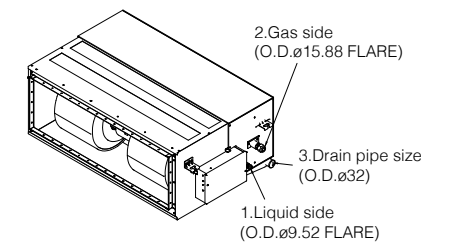
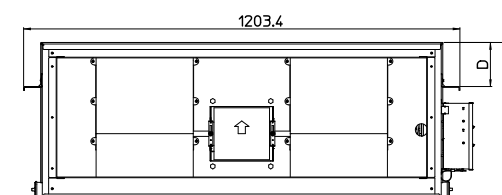
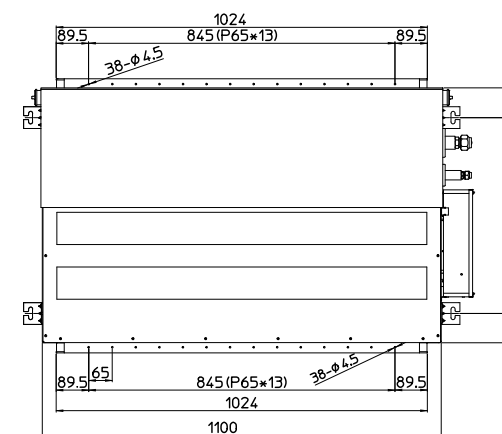
S-140ME1R5A / S-160ME1R5A

Model Name		S-90ME1R5A	S-112ME1R5A	S-140ME1R5A	S-160ME1R5A
Power source		230/240 V, 1 phase - 50Hz			
Cooling capacity	kW	9.0	11.2	14.0	16.0
	BTU/h	30,700	38,200	47,800	54,600
Heating capacity	kW	10.0	12.5	16.0	18.0
	BTU/h	34,100	42,700	54,600	61,400
Power input	Cooling kW	0.275/0.290	0.390/0.410	0.410/0.430	0.590/0.640
	Heating kW	0.275/0.290	0.390/0.410	0.410/0.430	0.590/0.640
Running current	Cooling A	1.24/1.25	1.72/1.74	1.82/1.84	2.62/2.70
	Heating A	1.24/1.25	1.72/1.74	1.82/1.84	2.62/2.70
Fan	Type	Sirocco fan			
	Air flow rate (H/M/L) m³/h	1,800/1,560/1,320	2,400/2,100/1,740	3,000/2,760/2,160	3,600/3,000/2,520
	L/s	500/433/366	666/583/483	833/766/600	1,000/833/700
	Motor output kW	0.155	0.275	0.310	0.44
External static pressure Pa		100 (max150)	100 (max150)	100 (max150)	100 (max150)
Sound power level (H/M/L) dB		62/61/60	70/68/66	71/69/67	73/71/69
Sound pressure level (H/M/L) dB(A)		45/44/43	48/46/44	49/47/45	51/49/47
Dimensions	H x W x D mm	360 x 1,100(+100) x 700	360 x 1,100(+100) x 700	430 x 1,100(+100) x 700	430 x 1,100(+100) x 700
	Liquid mm (inches)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)
Pipe connections	Gas mm (inches)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)
	Drain piping	VP-25	VP-25	VP-25	VP-25
Net weight kg		42	44	48	53

GLOBAL REMARKS	Rated conditions:	Cooling	Heating
	Indoor air temperature	27°C DB / 19°C WB	20°C DB
	Outdoor air temperature	35°C DB / 24°C WB	7°C DB / 6°C WB

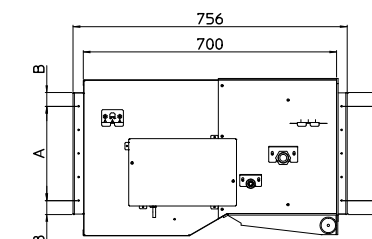
Specifications are subject to be changed without notice.

E1 TYPE HIGH STATIC DUCTED Dimensions



Dimensions: mm

model	A	B	C	D
S-90ME1R5A S-112ME1R5A	195	35.7	360	50
S-140ME1R5A S-160ME1R5A	260	38.2	430	121.5



Model Name		S-22MK2E5A	S-28MK2E5A	S-36MK2E5A	S-45MK2E5A	
Power source		220/230/240 V, 1 phase - 50 / 60 Hz				
Cooling capacity	kW	2.2	2.8	3.6	4.5	
	BTU/h	7,500	9,600	12,300	15,400	
Heating capacity	kW	2.50	3.20	4.20	5.0	
	BTU/h	8,500	10,900	14,300	17,100	
Power input	Cooling kW	0.025/0.025/0.025	0.025/0.025/0.025	0.030/0.030/0.030	0.030/0.030/0.030	
	Heating kW	0.025/0.025/0.025	0.025/0.025/0.025	0.030/0.030/0.030	0.030/0.030/0.030	
Running current	Cooling A	0.21	0.23	0.25	0.33/0.32/0.31	
	Heating A	0.21	0.23	0.25	0.33/0.32/0.31	
Fan	Type	Cross-flow fan				
	Air flow rate (H/M/L)	m ³ /h	540/450/390	570/498/390	654/540/390	870/750/600
		L/s	153/138/113	161/142/113	187/158/113	242/208/167
	Motor output	kW	0.03	0.03	0.03	0.054
Sound power level (H/M/L)	dB	51/48/44	52/49/44	55/51/44	53/50/48	
Sound pressure level (H/M/L)	dB(A)	36/33/29	37/34/29	40/36/29	38/35/33	
Dimensions	H x W x D	mm				
	Liquid	mm (inches)	290 x 870 x 214	290 x 870 x 214	290 x 870 x 214	302 x 1,120 x 236
	Gas	mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)
Pipe connections	Gas	mm (inches)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)
	Drain piping	mm	Ø18	Ø18	Ø18	Ø18
Net weight	kg	9	9	9	13	

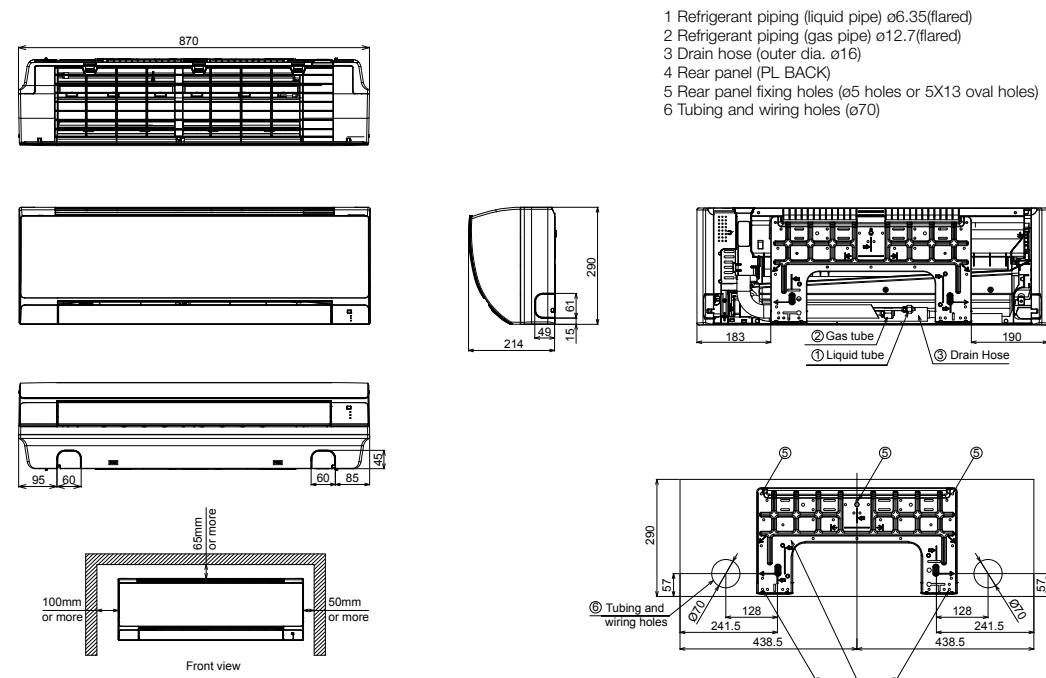
GLOBAL REMARKS	Rated conditions:		
	Indoor air temperature	Cooling 27°C DB / 19°C WB	Heating 20°C DB
	Outdoor air temperature	35°C DB / 24°C WB	7°C DB / 6°C WB

Specifications are subject to change without notice.

	S-56MK2E5A	S-73MK2E5A	S-106MK2E5A		
Power source	220/230/240 V, 1 phase - 50 / 60 Hz				
Cooling capacity	5.6	7.3	10.6		
	19,100	24,900	36,200		
Heating capacity	6.3	8.0	11.4		
	21,500	27,300	38,900		
Power input	Cooling kW	0.035/0.035/0.035	0.055/0.055/0.055	0.080/0.080/0.080	
	Heating kW	0.035/0.035/0.035	0.055/0.055/0.055	0.080/0.080/0.080	
Running current	Cooling A	0.36/0.35/0.34	0.52/0.51/0.50	0.72/0.70/0.68	
	Heating A	0.36/0.35/0.34	0.52/0.51/0.50	0.72/0.70/0.68	
Fan	Type	Cross-flow fan			
	Air flow rate (H/M/L)	m ³ /h	960/840/720	1,170/1,020/840	1,290/1,110/900
		L/s	267/233/200	325/283/233	358/308/250
	Motor output	kW	0.054	0.054	0.054
Sound power level (H/M/L)	dB	55/52/50	62/59/55	64/61/57	
Sound pressure level (H/M/L)	dB(A)	40/37/35	47/44/40	49/46/42	
Dimensions	H x W x D	mm			
	Liquid	302 x 1,120 x 236	302 x 1,120 x 236	302 x 1,120 x 236	
	Gas	Ø6.35 (Ø1/4)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	
Pipe connections	Gas	Ø12.7 (Ø1/2)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	
	Drain piping	Ø18	Ø18	Ø18	
Net weight	kg	13	14	14	

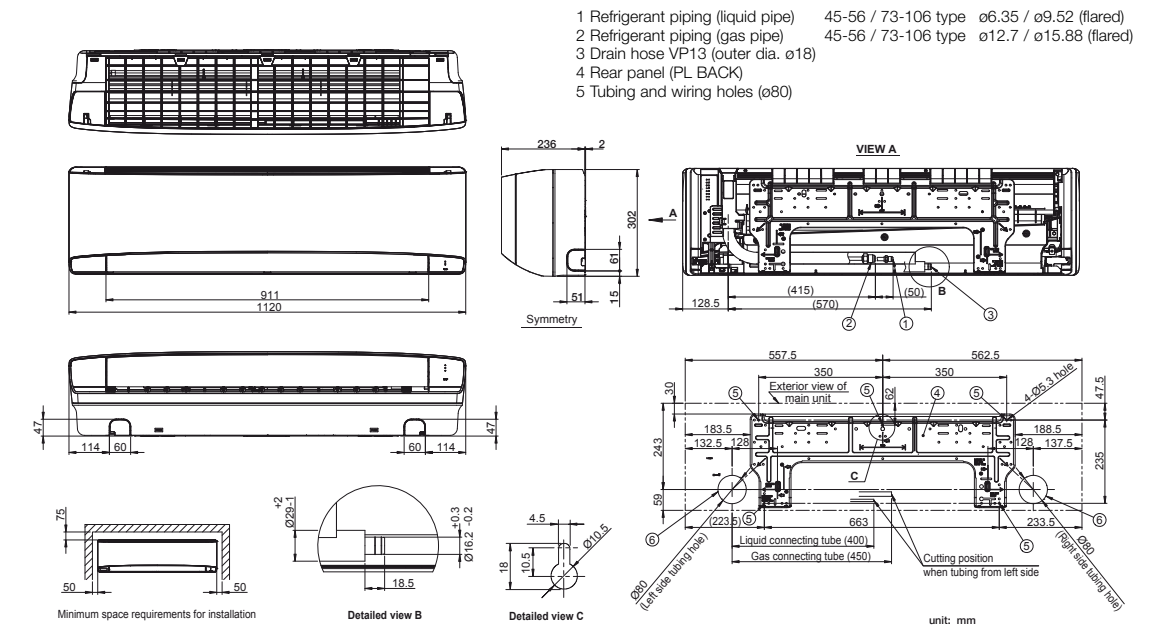
K2 (22-36) TYPE WALL MOUNTED Dimensions

S-22MK2E5A / S-28MK2E5A / S-36MK2E5A



K2 (45-106) TYPE WALL MOUNTED Dimensions

S-45MK2E5A / S-56MK2E5A / S-73MK2E5A / S-106MK2E5A



Model Name		S-22MU2E5A	S-28MU2E5A	S-36MU2E5A	S-45MU2E5A	S-56MU2E5A	
Power source		220/230/240 V, 1 phase - 50Hz/60Hz					
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	
	BTU/h	7,500	9,600	12,300	15,400	19,100	
Heating capacity	kW	2.5	3.2	4.2	5.0	6.3	
	BTU/h	8,500	10,900	14,300	17,100	21,500	
Power input	Cooling kW	0.020/0.020/0.020	0.020/0.020/0.020	0.020/0.020/0.020	0.020/0.020/0.020	0.025/0.025/0.025	
	Heating kW	0.020/0.020/0.020	0.020/0.020/0.020	0.020/0.020/0.020	0.020/0.020/0.020	0.025/0.025/0.025	
Running current	Cooling A	0.21/0.21/0.20	0.21/0.21/0.20	0.21/0.21/0.20	0.21/0.21/0.20	0.24/0.23/0.22	
	Heating A	0.20/0.20/0.19	0.20/0.20/0.19	0.20/0.20/0.19	0.20/0.20/0.19	0.23/0.22/0.21	
Fan	Type	Turbo fan					
	Air flow rate (H/M/L)	m³/h	870/780/690	870/780/690	870/780/690	930/780/690	990/810/690
		L/s	233/200/183	233/200/183	233/200/183	250/217/200	275/225/192
	Motor output kW	0.06					
Sound power level (H/M/L)	dB	45/44/43					
Sound pressure level (H/M/L)	dB(A)	30/29/28					
Dimensions* H x W x D	mm	256+(33.5) x 840 (950) x 840 (950)					
	Liquid mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	
Pipe connections	Gas mm (inches)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	
	Drain piping	VP-25					
Net weight (Panel)	kg	19 (+5)					

GLOBAL REMARKS	Rated conditions:	
	Cooling	Heating
	Indoor air temperature 27°C DB / 19°C WB	20°C DB
Outdoor air temperature 35°C DB / 24°C WB	7°C DB / 6°C WB	

* The values in () for external dimensions and Net weight are the values for the optional ceiling panel.

Specifications are subject to change without notice.



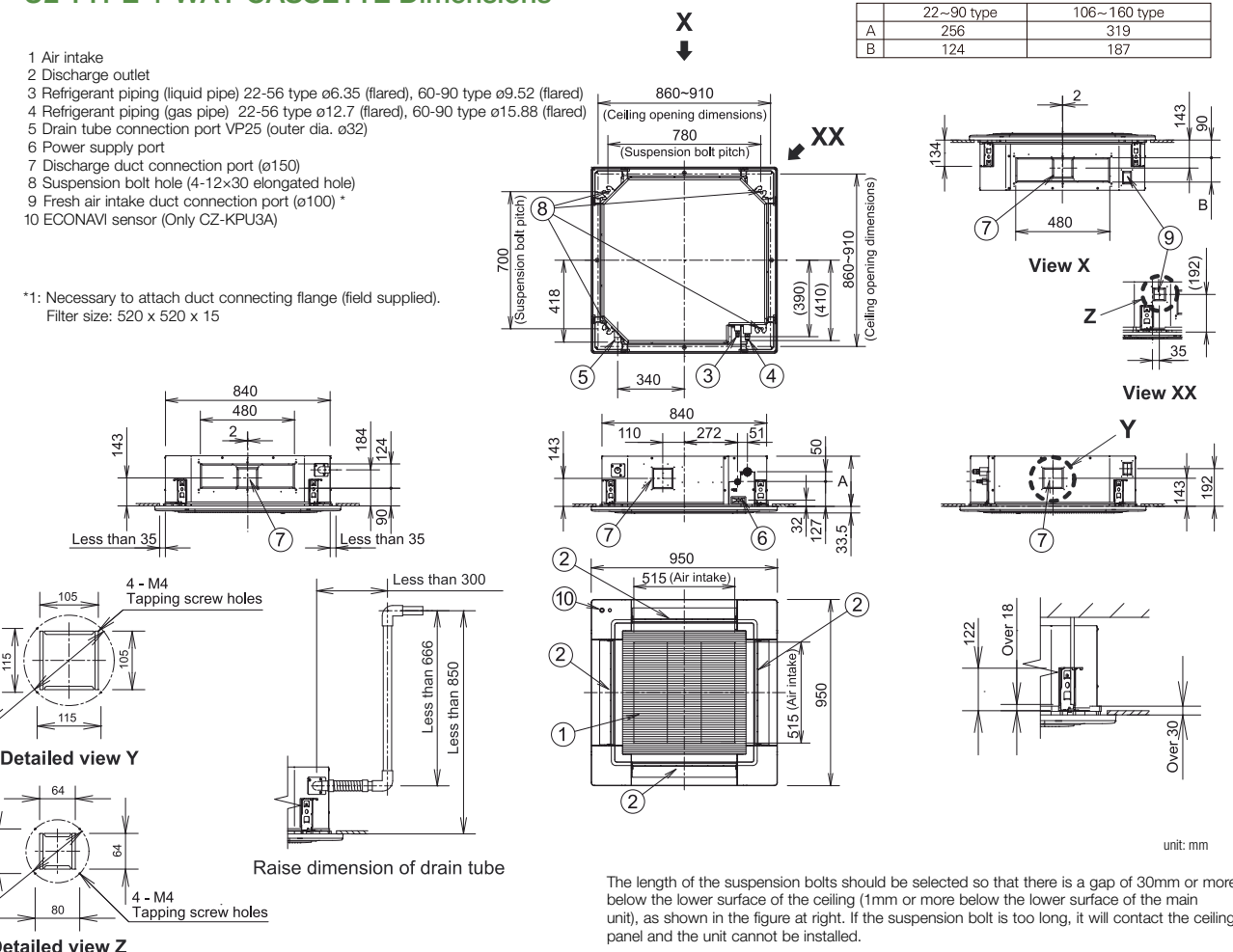
Test report for odours and mould suppression performance

No.	Target Substance	Effectiveness	Testing Institute	Test Report No.	Method	Result
1	Odours	Decrease by 0.7 level	Gunma Research Center	Test Report No. 27055	nanoe™X was operated in a test space (55m³) and the deodorisation effect on a piece of cloth impregnated with odour components of cigarette smoke was evaluated using 6 level odour intensity indication method.	Decrease in odour intensity by 0.7 level after 2 hour of operation
2	Mould	Inhibit mould growth	Institute of Environmental Biology	Test Report No.150901, 150904	Mould sensor was attached at indoor unit inside. In a test space (95m³) at 25 degree and 75% humidity, AC cooling with nanoe™X was operated during 2 hour per day for 9 days.	No mould growth after 9 days.



Model Name		S-60MU2E5A	S-73MU2E5A	S-90MU2E5A	S-106MU2E5A	S-140MU2E5A	S-160MU2E5A	
Power source		220/230/240 V, 1 phase - 50Hz/60Hz						
Cooling capacity	kW	6.0	7.3	9.0	10.6	14.0	16.0	
	BTU/h	20,500	24,900	30,700	36,200	47,800	54,600	
Heating capacity	kW	7.1	8.0	10.0	11.4	16.0	18.0	
	BTU/h	24,200	27,300	34,100	38,900	54,600	61,400	
Power input	Cooling kW	0.035/0.035/0.035	0.040/0.040/0.040	0.040/0.040/0.040	0.090/0.090/0.090	0.095/0.095/0.095	0.105/0.105/0.105	
	Heating kW	0.035/0.035/0.035	0.040/0.040/0.040	0.040/0.040/0.040	0.085/0.085/0.085	0.090/0.090/0.090	0.100/0.100/0.100	
Running current	Cooling A	0.34/0.33/0.32	0.37/0.36/0.35	0.39/0.38/0.37	0.74/0.71/0.68	0.77/0.74/0.71	0.85/0.82/0.79	
	Heating A	0.33/0.32/0.31	0.36/0.35/0.34	0.38/0.37/0.36	0.72/0.69/0.66	0.75/0.72/0.69	0.83/0.80/0.77	
Fan	Type	Turbo fan						
	Air flow rate (H/M/L)	m³/h	1,260/960/780	1,350/960/780	1,380/1,110/840	2,040/1,500/1,140	2,160/1,560/1,200	2,220/1,680/1,440
		L/s	350/283/233	367/283/233	383/317/250	550/450/350	600/433/333	600/483/383
	Motor output kW	0.06						
Sound power level (H/M/L)	dB	51/47/44						
Sound pressure level (H/M/L)	dB(A)	36/32/29						
Dimensions* H x W x D	mm	319+(33.5) x 840 (950) x 840 (950)						
	Liquid mm (inches)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	
Pipe connections	Gas mm (inches)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	
	Drain piping	VP-25						
Net weight (Panel)	kg	20 (+5)						

U2 TYPE 4-WAY CASSETTE Dimensions



Y2 TYPE 4-WAY Mini Cassette

Mini semi concealed cassette



Designed to fit perfectly into a 600 x 600mm ceiling grid without the need to alter the bar configuration, the Mini Cassette Y2 Type is ideal for small commercial and retrofit applications.

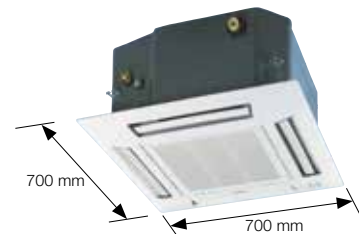


Technical focus

- Mini cassette fits into a 600 x 600mm ceiling grid
- Anti-mould and anti-bacteria washable filters
- Powerful drain pump gives 750mm lift
- DC fan motor with variable speed and a new heat exchanger ensures efficient power consumption
- Fresh air knock out
- Multi directional air flow

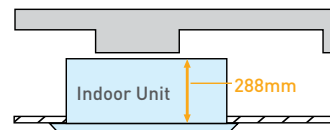
Compact design

The panel is a compact (700 x 700mm) so it can be installed even in a small room where space is limited.



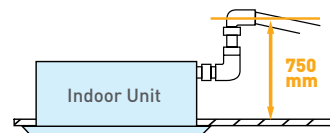
Lighter and slimmer, easier installation

When only 260mm of indoor body height, it can easily fit in limited spaces and tight spots. (Required 288mm from bottom of panel to top of the unit)



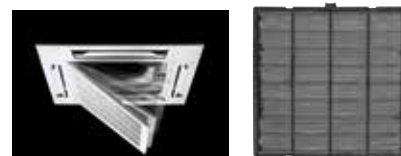
A drain height of up to 750 mm from the ceiling surface

The internal pump allows the drain pipe to be elevated up to 750mm above the base of the unit.



Anti-Mould Long-Life Air Filter

Anti-mould and anti-bacteria washable filter ensures clean, healthy air.



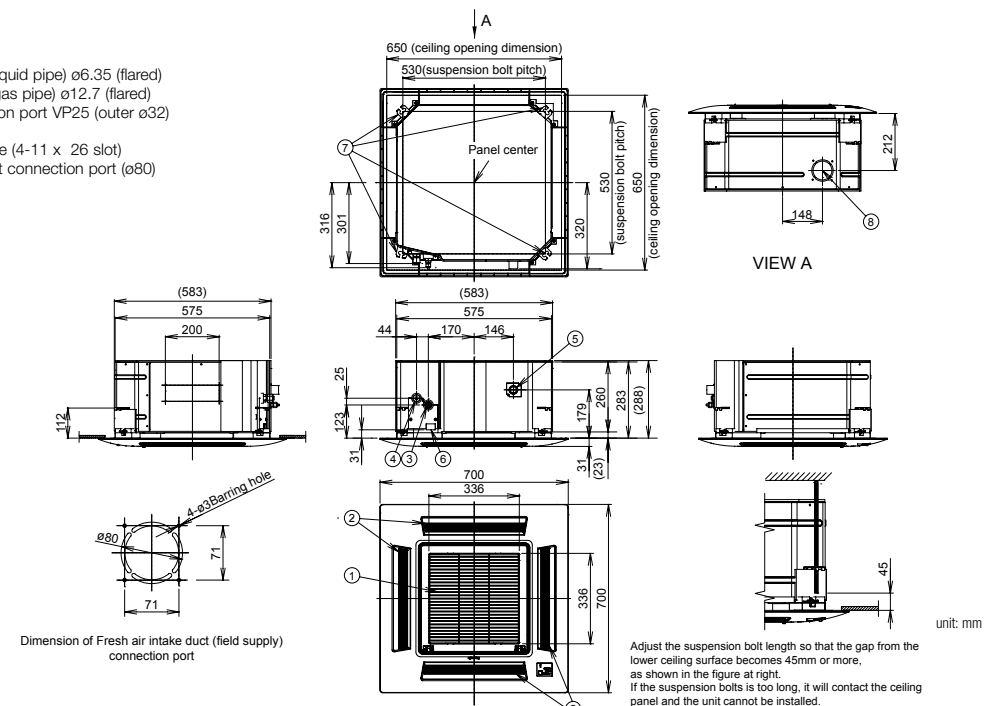
Model Name		S-22MY2E5A	S-28MY2E5A	S-36MY2E5A	S-45MY2E5A	S-56MY2E5A	
Power source		220/230/240 V, 1 phase - 50, 60 Hz					
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	
	BTU/h	7,500	9,600	12,300	15,400	19,100	
Heating capacity	kW	2.5	3.2	4.2	5.0	6.3	
	BTU/h	8,500	10,900	14,300	17,100	21,500	
Power input	Cooling kW	0.035	0.035	0.040	0.040	0.045	
	Heating kW	0.030	0.030	0.035	0.035	0.040	
Running amperes	Cooling A	0.30	0.30	0.30	0.32	0.35	
	Heating A	0.25	0.30	0.30	0.30	0.35	
Fan motor	Type	Turbo fan					
	Airflow rate (H/M/L)	m³/h	546/492/336	558/504/336	582/522/360	600/558/492	624/588/510
		L/s	155/140/93	160/140/93	165/151/100	172/160/137	185/163/145
	Output	kW	0.04	0.04	0.04	0.04	0.04
Power sound level (H/M/L)	Cooling dB	50/46/40	50/46/40	5 / 47/41	53/49/43	55/52/49	
	Heating dB	50/46/40	50/46/40	51/47/41	53/49/43	55/52/49	
Sound pressure level (H/M/L)	Cooling dB(A)	35/31/25	35/31/25	36/32/26	38/34/28	40/37/34	
	Heating dB(A)	35/31/25	35/31/25	36/32/26	38/34/28	40/37/34	
Dimensions* H x W x D	mm	288 (+31) x 575 (700) x 575 (700)	288 (+31) x 575 (700) x 575 (700)	288 (+31) x 575 (700) x 575 (700)	288 (+31) x 575 (700) x 575 (700)	288 (+31) x 575 (700) x 575 (700)	
	Liquid mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	
Pipe connections	Gas mm (inches)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	
	Drain piping	VP-25	VP-25	VP-25	VP-25	VP-25	
Net weight*	kg	18 (+2.4)	18 (+2.4)	18 (+2.4)	18 (+2.4)	18 (+2.4)	

GLOBAL REMARKS	Rated conditions:		
	Indoor air temperature	Cooling 27°C DB / 19°C WB	Heating 20°C DB
	Outdoor air temperature	35°C DB / 24°C WB	7°C DB / 6°C WB

*The values in () for external dimensions and Net weight are the values for the optional ceiling panel. Specifications are subject to change without notice.

Y2 TYPE 4-WAY CASSETTE Dimensions

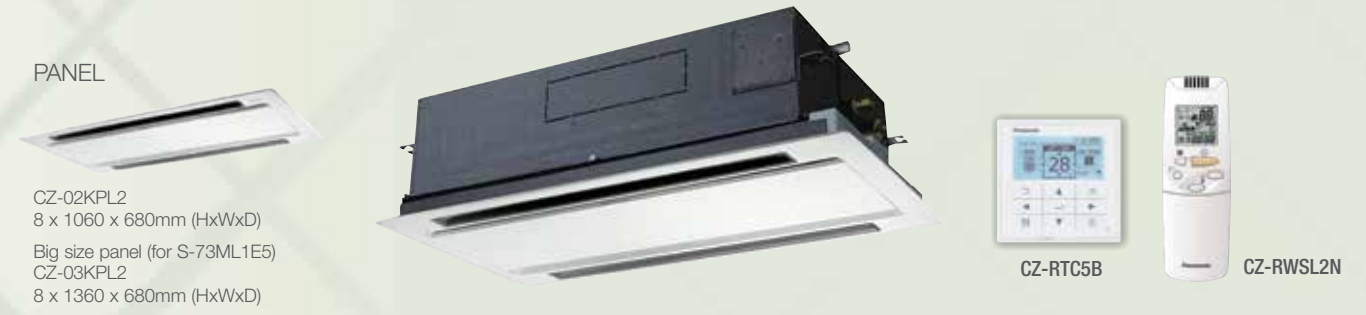
- 1 Air intake grill
- 2 Air outlet
- 3 Refrigerant piping (liquid pipe) ø6.35 (flared)
- 4 Refrigerant piping (gas pipe) ø12.7 (flared)
- 5 Drain tube connection port VP25 (outer ø32)
- 6 Power supply entry
- 7 Suspension bolt hole (4-11 x 26 slot)
- 8 Fresh air intake duct connection port (ø80)



L1 TYPE 2-WAY Cassette

Semi Concealed Cassette

The L1 is very thin, compact and light, allowing flexible installation options. A redesigned fan has been used to achieve this size and weight reduction.



PANEL
CZ-02KPL2
8 x 1060 x 680mm (HxWxD)
Big size panel (for S-73ML1E5)
CZ-03KPL2
8 x 1360 x 680mm (HxWxD)

CZ-RTC5B CZ-RWSL2N

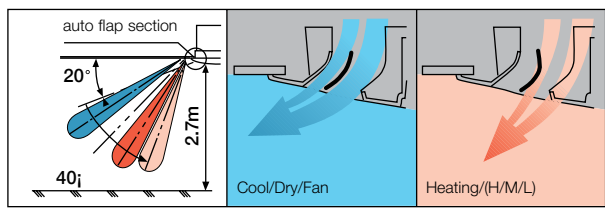


Technical focus

- Airflow and distribution is automatically altered depending on the operational mode of the unit
- Drain up is possible up to 500mm via the built-in drain pump
- Simple maintenance

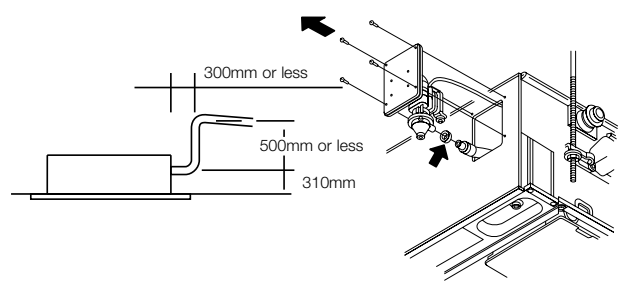
Auto flap control

Airflow and distribution is automatically altered depending on the operational mode (cooling or heating) of the unit.



Drain up is possible up to 500mm via the built-in drain pump.

Maintenance of the drain pump is possible from both sides, from the left side (piping side) and from the inside of the unit.



Simple maintenance

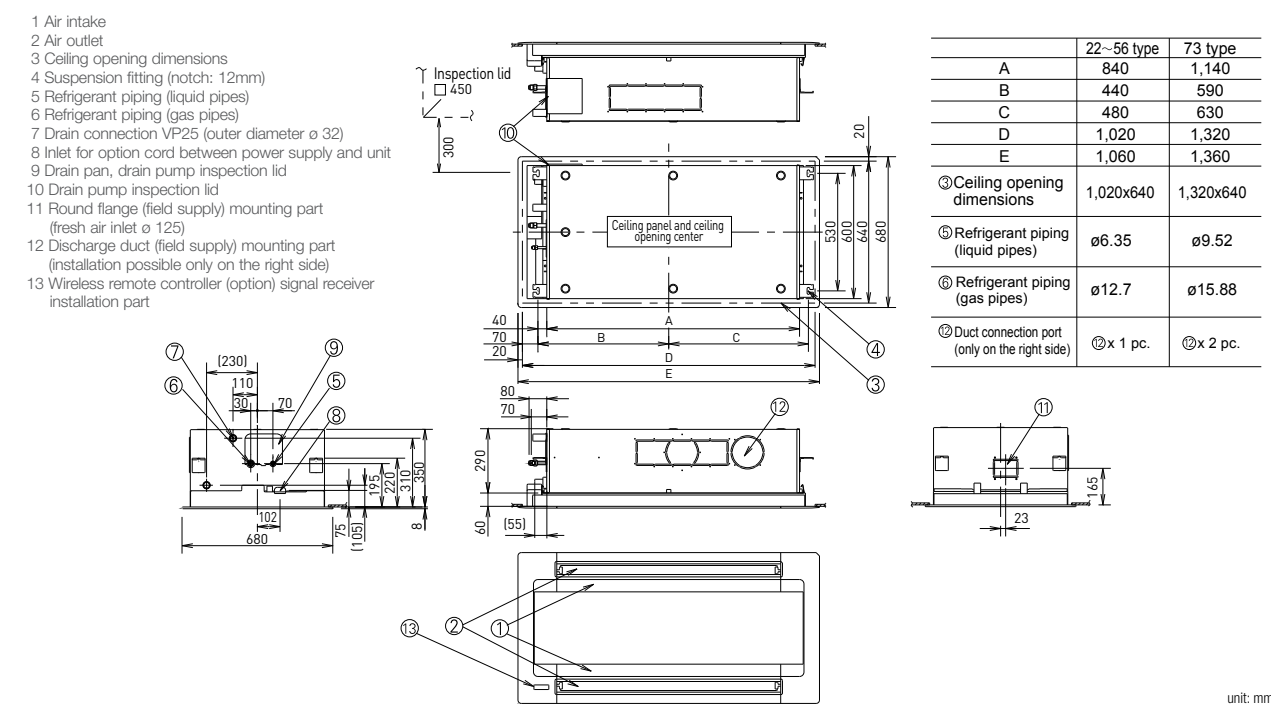
The drain pan is equipped with site wiring and can be removed. The fan case has a split construction, and the fan motor can be removed easily when the lower case is removed.

Model Name		S-22ML1E5	S-28ML1E5	S-36ML1E5	S-45ML1E5	S-56ML1E5	S-73ML1E5	
Power source		220/230/240V, 1 phase - 50 / 60Hz						
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.3	
	BTU/h	7,500	9,600	12,000	15,000	19,000	25,000	
Heating capacity	kW	2.5	3.2	4.2	5.0	6.3	8.0	
	BTU/h	8,500	11,000	14,000	17,000	21,000	27,000	
Power input	Cooling kW	0.086/0.090/0.095	0.086/0.092/0.097	0.088/0.093/0.099	0.091/0.097/0.103	0.091/0.097/0.103	0.135/0.145/0.154	
	Heating kW	0.055/0.058/0.062	0.055/0.060/0.064	0.057/0.061/0.066	0.060/0.065/0.070	0.060/0.065/0.070	0.100/0.109/0.117	
Running current	Cooling A	0.45/0.45/0.45	0.44/0.45/0.45	0.44/0.45/0.45	0.45/0.45/0.45	0.45/0.45/0.45	0.64/0.65/0.66	
	Heating A	0.29/0.29/0.30	0.28/0.29/0.30	0.28/0.29/0.30	0.29/0.29/0.30	0.29/0.29/0.30	0.46/0.48/0.49	
Fan	Type	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	
	Air flow rate (H/M/L)	m³/h	480/420/360	540/480/420	580/520/460	660/540/480	660/540/480	1,140/960/840
	L/s	133/117/100	150/133/117	161/144/128	183/150/133	183/150/133	317/267/233	
Motor output	kW	0.03	0.03	0.03	0.03	0.03	0.05	
Sound power level (H/M/L)	dB	40/38/35	44/40/37	45/42/39	46/44/40	46/44/40	49/46/44	
Sound pressure level (H/M/L)	dB(A)	30/27/24	33/29/26	34/31/28	35/33/29	35/33/29	38/35/33	
Dimensions* H x W x D	mm	350+8x640 (1,060) x600 (680)	350+8x640 (1,060) x600 (680)	350+8x640 (1,060) x600 (680)	350+8x640 (1,060) x600 (680)	350+8x640 (1,060) x600 (680)	350+8x 1,140 (1,360) x600 (680)	
	Liquid mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø9.52 (Ø3/8)	
Pipe connections	Gas mm (inches)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø15.88 (Ø5/8)	
	Drain piping	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	
Net weight*	kg	23 (+5.5)	23 (+5.5)	23 (+5.5)	23 (+5.5)	23 (+5.5)	30 (+9)	

GLOBAL REMARKS	Rated conditions:	
	Indoor air temperature	27°C DB / 19°C WB
	Outdoor air temperature	35°C DB / 24°C WB

*The values in () for external dimensions and Net weight are the values for the optional ceiling panel. Specifications are subject to change without notice.

L1 TYPE 2-WAY CASSETTE Dimensions



	22-56 type	73 type
A	840	1,140
B	440	590
C	480	630
D	1,020	1,320
E	1,060	1,360
③ Ceiling opening dimensions	1,020x640	1,320x640
⑤ Refrigerant piping (liquid pipes)	ø6.35	ø9.52
⑥ Refrigerant piping (gas pipes)	ø12.7	ø15.88
⑦ Duct connection port (only on the right side)	⑩ x 1 pc.	⑩ x 2 pc.

unit: mm

D1 TYPE 1-WAY Cassette

Semi concealed slim cassette



Designed for installation within the ceiling void, the D1 range of slimline 1-PIPE cassettes feature a quiet yet powerful fan that can reach the floor up 4.2m from ceiling height.

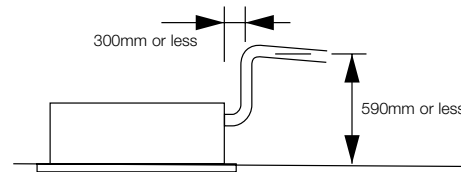


Technical focus

- Ultra-Slim profile
- Suitable for standard and high ceilings
- Built-in drain pump provides 590mm lift from ceiling height for flexible install options.
- Easy to install and maintain
- Hanging height can be easily adjusted
- Uses a DC fan motor to improve energy-efficiency

Drain height

A built-in drain pump provides up to 590mm lift from ceiling height for flexible install options.



Model Name	S-28MD1E5	S-36MD1E5	S-45MD1E5	S-56MD1E5	S-73MD1E5	
Power source	220/230/240 V, 1 phase - 50 / 60 Hz					
Cooling capacity	kW	2.8	3.6	4.5	5.6	7.3
	BTU/h	9,600	12,000	15,000	19,000	25,000
Heating capacity	kW	3.2	4.2	5.0	6.3	8.0
	BTU/h	11,000	14,000	17,000	21,000	27,000
Power input	Cooling kW	0.050/0.051/0.052	0.050/0.051/0.052	0.050/0.051/0.052	0.058/0.060/0.061	0.086/0.087/0.089
	Heating kW	0.039/0.040/0.042	0.039/0.040/0.042	0.039/0.040/0.042	0.046/0.048/0.049	0.075/0.076/0.077
Running current	Cooling A	0.40/0.39/0.39	0.40/0.39/0.39	0.40/0.39/0.39	0.46/0.46/0.46	0.71/0.70/0.69
	Heating A	0.36/0.35/0.35	0.36/0.35/0.35	0.36/0.35/0.35	0.42/0.41/0.41	0.66/0.65/0.63
Fan	Type	Sirocco fan				
	Air flow rate (H/M/L) m³/h	720/600/540	720/600/540	720/660/600	780/690/600	1,080/900/780
	L/s	200/167/150	200/167/150	200/183/167	217/192/167	300/250/217
	Motor output kW	0.05	0.05	0.05	0.05	0.05
Sound power level (H/M/L) dB	47/45/44	47/45/44	47/46/45	49/47/45	56/51/47	
Sound pressure level (H/M/L) dB(A)	36/34/33	36/34/33	36/35/34	38/36/34	45/40/36	
Dimensions* H x W x D mm		200+(20) x 1,000 (1,230) x 710 (800)	200+(20) x 1,000 (1,230) x 710 (800)	200+(20) x 1,000 (1,230) x 710 (800)	200+(20) x 1,000 (1,230) x 710 (800)	200+(20) x 1,000 (1,230) x 710 (800)
	Liquid mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø9.52 (Ø3/8)
Pipe connections	Gas mm (inches)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø15.88 (Ø5/8)
	Drain piping	VP-25				
Net weight* kg	21 (+5.5)	21 (+5.5)	21 (+5.5)	21 (+5.5)	22 (+5.5)	

GLOBAL REMARKS	Rated conditions:	
	Cooling	Heating
	Indoor air temperature 27°C DB / 19°C WB	20°C DB
Outdoor air temperature 35°C DB / 24°C WB	7°C DB / 6°C WB	

*The values in () for external dimensions and Net weight are the values for the optional ceiling panel. Specifications are subject to change without notice.

With 3 types of air-blow systems, the units can be used in various ways.



(1) One-direction "down-blow" system

Powerful one-direction "down-blow" system reaches the floor even from high ceilings (up to 4.2m).



(2) Two-direction ceiling-mounted system

"Down-blow" and "front-blow" systems are combined in a ceiling-mounted unit to blow air over a wide area.

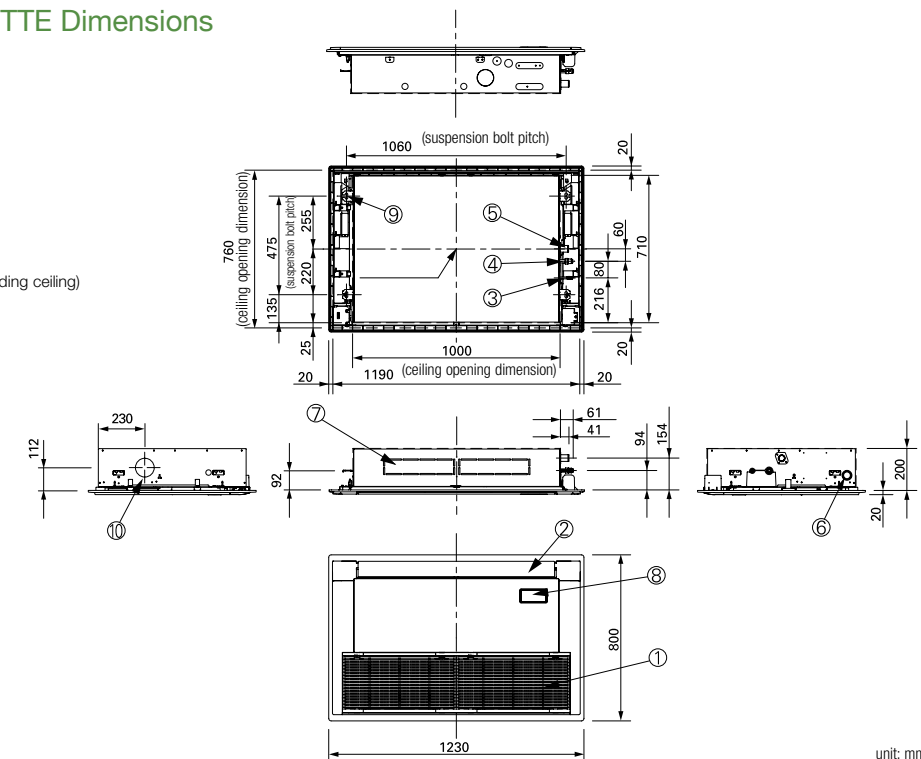


(3) One-direction ceiling-mounted system

This powerful ceiling-mounted "front-blow" system efficiently air-conditions the space in front of the unit. (Additional accessories required)

D1 TYPE 1-PIPE CASSETTE Dimensions

- 1 Air intake grille
- 2 Air outlet
- 3 Refrigerant piping (liquid pipes)
Size 28 to 56: Ø6.35 (flared)
Size 73: Ø9.52 (flared)
- 4 Refrigerant piping (gas pipes)
Size 28 to 56: Ø12.7 (flared)
Size 73: Ø15.88 (flared)
- 5 Drain connection VP25 (outer Ø32)
- 6 Power supply entry
- 7 Discharge duct connection port (for descending ceiling)
- 8 Wireless remote control receiver (option)
- 9 Suspension mounting (4-12 x 30 slot)
- 10 Fresh air intake (Ø100)



unit: mm

P1 TYPE Floor Standing

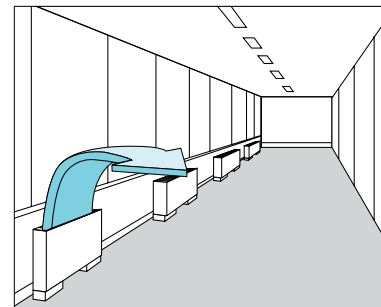
The compact floor standing P1 units are the ideal solution for providing perimeter air conditioning. A standard wired controller can be incorporated into the body of the unit.



Technical focus

- Pipes can be connected to either side of the unit from the bottom or rear
- Easy to install
- Front panel opens fully for easy maintenance
- Removable air discharge grille gives flexible air flow

Effective perimeter air conditioning



Model Name		S-22MP1E5	S-28MP1E5	S-36MP1E5	S-45MP1E5	S-56MP1E5	S-71MP1E5	
Power source		220/230/240 V, 1 phase - 50 / 60 Hz						
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	BTU/h	7,500	9,600	12,000	15,000	19,000	24,000	
Heating capacity	kW	2.5	3.2	4.2	5.0	6.3	8.0	
	BTU/h	8,500	11,000	14,000	17,000	21,000	27,000	
Power input	Cooling kW	0.051/0.056/0.061	0.051/0.056/0.061	0.079/0.085/0.091	0.116/0.126/0.136	0.116/0.126/0.136	0.150/0.160/0.170	
	Heating kW	0.036/0.040/0.045	0.036/0.040/0.045	0.064/0.070/0.076	0.079/0.091/0.101	0.079/0.091/0.101	0.110/0.120/0.130	
Running current	Cooling A	0.24/0.25/0.26	0.24/0.25/0.26	0.37/0.38/0.39	0.54/0.56/0.58	0.54/0.56/0.58	0.70/0.72/0.73	
	Heating A	0.17/0.18/0.19	0.17/0.18/0.19	0.30/0.31/0.32	0.37/0.41/0.43	0.37/0.41/0.43	0.52/0.54/0.56	
Fan	Type	Sirocco fan						
	Air flow rate (H/M/L)	m³/h	420/360/300	420/360/300	540/420/360	720/540/480	900/780/660	1,020/840/720
		L/s	117/100/83	117/100/83	150/117/100	200/150/133	250/217/183	283/233/200
	Motor output kW	0.01	0.01	0.02	0.02	0.03	0.06	
Sound power level (H/M/L)	dB	44/41/39	44/41/39	50/46/40	49/46/42	50/47/42	52/49/46	
Sound pressure level (H/M/L)	dB(A)	33/30/28	33/30/28	39/35/29	38/35/31	39/36/31	41/38/35	
Dimensions	H x W x D	mm 615 x 1,065 x 230						
	Liquid	mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø9.52 (Ø3/8)
	Gas	mm (inches)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø12.7 (Ø1/2)	Ø15.88 (Ø5/8)
Pipe connections	Drain piping	VP-20						
Net weight	kg	29	29	29	39	39	39	

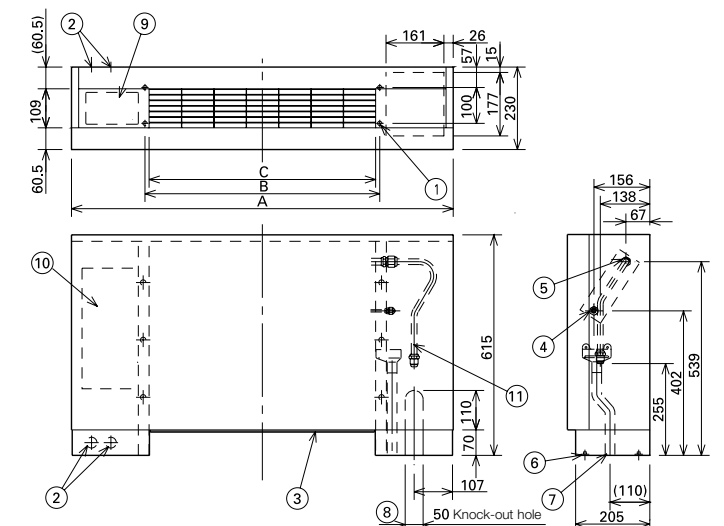
GLOBAL REMARKS	Rated conditions:	Cooling	Heating
	Indoor air temperature	27°C DB / 19°C WB	20°C DB
	Outdoor air temperature	35°C DB / 24°C WB	7°C DB / 6°C WB

Specifications are subject to change without notice.

P1 TYPE FLOOR STANDING Dimensions

- 4 x Ø12 holes (for floor fixing)
- Power supply outlet
- Air filter
- Refrigerant piping (liquid pipes)
- Refrigerant piping (gas pipes)
- Level adjustment bolt
- Drain outlet VP20 (with vinyl hose)
- Refrigerant piping connection port (bottom or rear)
- Operation switch (remote controller RCS-SH80AG) mounting part
- Electric equipment box
- Accessory copper pipe for gas pipe connection

Indoor unit	A	B	C	Liquid pipes	Gas pipes
22 to 36 type	1,065	665	632	Ø6.35	Ø12.7
45 type					
56 type	1,380	980	947	Ø9.52	Ø15.88
71 type					



unit: mm



