

NEW

F3 TYPE Mid Static Adaptive Ducted



nanoe™ X Generator Mark3



Please refer to the nanoe™ X website for the Mark 3 information.



Self-diagnosing Function



Automatic Fan Operation



Dry mode

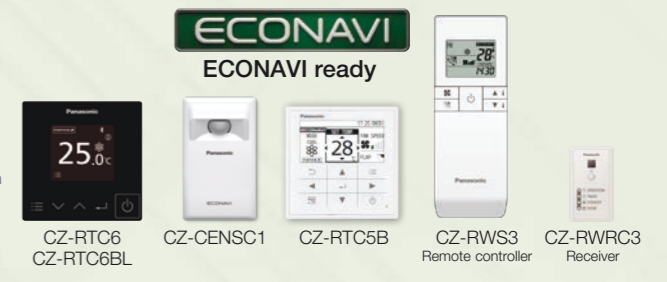


Automatic Restart Function



Built-in Drain Pump

Optional accessory



Control all aspects of your environment with exceptional performance and quiet operation. Vertical installation flexibility offers the perfect solution when ceiling heights are restricted.



S-22MF3E5AN / S-28MF3E5AN / S-36MF3E5AN / S-45MF3E5AN / S-56MF3E5AN



S-60MF3E5AN / S-73MF3E5AN / S-90MF3E5AN



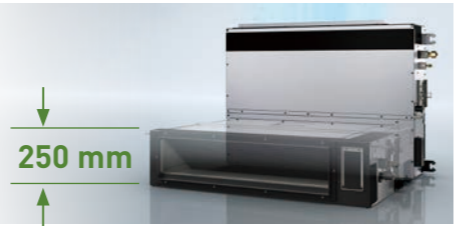
S-106MF3E5AN / S-140MF3E5AN / S-160MF3E5AN

Technical focus

- 4 installation possibilities with horizontal and vertical mounting and selectable rear or bottom air inlet
- DC fan motor for variable external static pressure control
- Industry-leading horizontal/vertical design with 250 mm height
- Powerful 150 Pa static pressure in a compact unit.
- Leading-class low sound levels from 20 dB(A)
- Improved drain pan suitable for both horizontal / vertical installation
- nanoe™ X : 100x for CAC (100 times more nanoe™ particle for wide commercial space)
- Possible to control discharge air temperature for accurate room temperature control.

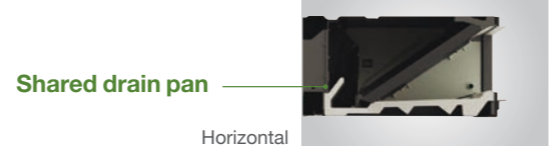
Powerful 150 Pa external static pressure in an industry-leading horizontal/vertical installation design

Delivering static pressure up to 150 Pa external static pressure, the industry-leading horizontal/vertical design offers the power you need in a compact form factor.



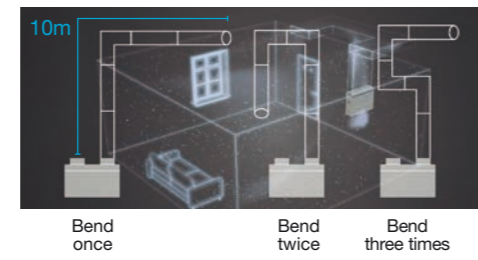
Improved drain pan design

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



Superior Air Quality

Combined with the strong static pressure this model ensures pristine nanoe™ X air travels unaffected even through multiple duct shapes at lengths of 10 m, as well as making them ideal for use in larger spaces.



As the experiments demonstrate, even with a total ductwork length of up to 10 m, effectiveness of nanoe™ X is maintained.

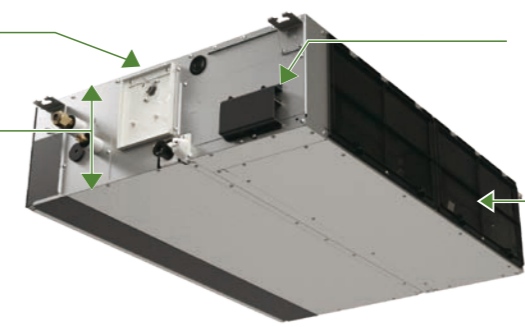


Model Name		S-22MF3E5AN	S-28MF3E5AN	S-36MF3E5AN	S-45MF3E5AN	S-56MF3E5AN
Power source		220/230/240 V, 1 phase - 50/60 Hz				
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
	BTU/h	7,500	9,600	12,300	15,400	19,100
Heating capacity	kW	2.5	3.2	4.2	5.0	6.3
	BTU/h	8,500	10,900	14,300	17,100	21,500
Power input	Cooling kW	0.06/0.06/0.06	0.06/0.06/0.06	0.06/0.06/0.06	0.06/0.06/0.06	0.089/0.089/0.089
	Heating kW	0.06/0.06/0.06	0.06/0.06/0.06	0.06/0.06/0.06	0.06/0.06/0.06	0.089/0.089/0.089
Running current	Cooling A	0.46/0.45/0.44	0.46/0.45/0.44	0.46/0.45/0.44	0.46/0.45/0.44	0.65/0.63/0.61
	Heating A	0.46/0.45/0.44	0.46/0.45/0.44	0.46/0.45/0.44	0.46/0.45/0.44	0.65/0.63/0.61
Fan motor	Type	Sirocco fan				
	Cooling m³/h	768/660/480	768/660/480	840/720/480	840/720/480	960/840/600
	Air flow rate (H/M/L) L/s	213/183/133	213/183/133	233/200/133	233/200/133	267/233/167
	Heating m³/h	840/720/480	840/720/480	840/720/480	840/720/480	960/840/600
	Air flow rate (H/M/L) L/s	233/200/133	233/200/133	233/200/133	233/200/133	267/233/167
	Output kW	0.107	0.107	0.107	0.107	0.107
External static pressure Pa		30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)
Sound power level (H/M/L) dB		54/51/43	54/51/43	54/51/43	54/51/43	58/55/47
Sound pressure sound (H/M/L) dB(A)		31/28/20	31/28/20	31/28/20	31/28/20	35/32/24
Dimensions H x W x D mm		250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730
	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-20	VP-20	VP-20	VP-20	VP-20
Net weight kg		26	26	26	26	26

Built-in Drain pump (DC motor pump)

Space saving height of 250 mm for all models

250 mm standardised height provides easy and uniform installation for models with different capacities, especially when ceiling heights are restricted.

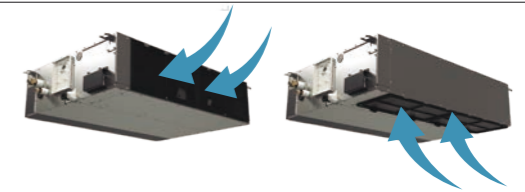


External electrical equipment box makes maintenance easy

Built-in filter

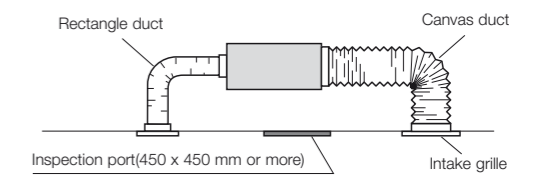
Selectable air inlet position

A removable panel allows air inlet position to be adjusted to enable rear or bottom entry, depending on ductwork installation.



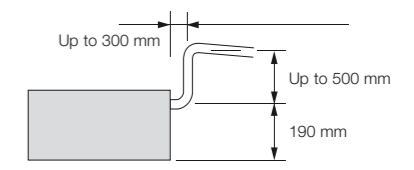
System example

An inspection port (450 mm x 450 mm or larger) is required at the lower side of the indoor unit body.



More powerful drain pump

Using a high-lift built-in drain pump, drain piping can be elevated up to 690 mm from the base of the unit.



S-60MF3E5AN	S-73MF3E5AN	S-90MF3E5AN	S-112MF3E5AN	S-140MF3E5AN	S-160MF3E5AN
220/230/240 V, 1 phase - 50/60 Hz					
6.0	7.3	9.0	11.2	14.0	16.0
20,500	24,900	30,700	38,200	47,800	54,600
7.1	8.0	10.0	12.5	16.0	18.0
24,200	27,300	34,100	42,700	54,600	61,400
0.079/0.079/0.079	0.079/0.079/0.079	0.136/0.136/0.136	0.265/0.265/0.265	0.265/0.265/0.265	0.330/0.330/0.330
0.079/0.079/0.079	0.079/0.079/0.079	0.136/0.136/0.136	0.265/0.265/0.265	0.265/0.265/0.265	0.330/0.330/0.330
0.53/0.52/0.51	0.53/0.52/0.51	0.92/0.90/0.88	1.80/1.76/1.72	1.80/1.76/1.72	2.22/2.14/2.09
0.53/0.52/0.51	0.53/0.52/0.51	0.92/0.90/0.88	1.80/1.76/1.72	1.80/1.76/1.72	2.22/2.14/2.09
Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
1,260/1,080/900	1,260/1,080/900	1,500/1,380/960	2,220/1,920/1,560	2,220/1,920/1,560	2,400/2,040/1,680
350/300/250	350/300/250	417/383/267	617/533/433	617/533/433	667/567/467
1,260/1,080/900	1,260/1,080/900	1,500/1,380/960	2,220/1,920/1,560	2,220/1,920/1,560	2,400/2,040/1,680
350/300/250	350/300/250	417/383/267	617/533/433	617/533/433	667/567/467
0.165	0.165	0.165	0.259	0.259	0.259
30 (10-150)	30 (10-150)	40 (10-150)	50 (10-150)	50 (10-150)	50 (10-150)
54/51/46	54/51/46	58/56/48	64/59/55	64/59/55	66/60/56
31/28/23	31/28/23	35/33/25	41/36/32	41/36/32	43/37/33
250 x 1,000 x 730	250 x 1,000 x 730	250 x 1,000 x 730	250 x 1,400 x 730	250 x 1,400 x 730	250 x 1,400 x 730
Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)
Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)
VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
31	31	31	40	40	40

GLOBAL REMARKS

Rated conditions: Cooling
Indoor air temperature 27°C DB / 19°C WB

Outdoor air temperature 35°C DB / 24°C WB

Rated conditions: Heating
Indoor air temperature 20°C DB

Outdoor air temperature 7°C DB / 6°C WB

Specifications are subject to change without notice.