



FS MULTI VRF // HEATING AND COOLING SYSTEMS



HIGH  
EFFICIENCY  
MATTERS



## WITH UNIQUE ETHEREA WALL MOUNTED (WHITE AND SILVER), DESIGN INDOOR UNITS ARRIVE TO PROFESSIONAL APPLICATIONS!



ETHEREA  
designed to care for you



### New FS Multi from Panasonic an outstanding VRF solution!

The FS Multi is the new range of VRF which capitalizes on Panasonic's experience in air conditioning buildings and large surface areas with its Urban Multi series and VRF - R410A technology. Ideal for commercial areas as well as for uses in the home, the FS Multi always meets the requirements of the most demanding customers.

#### THE ADVANTAGES OF PANASONIC'S FS MULTI

- Up to 6 different indoor unit types.
- Up to 30 indoor units in total, from 2.2 kW to 9 kW.
- Possibility to connect a unique wall type Ethera design, white and silver.
- 3 outdoor unit ratings: 4,5 and 6 H.P., single-phase.
- Panasonic Inverter technology with R410A gas, for greater comfort and economy with lower consumption.

#### OUTDOOR UNITS

A new outdoor unit design which is more adapted to today's building and architectural requirements.

- Up to 8 indoor units can be connected
- Capacities from 11.2 to 15.5 kW
- A 30 m difference in elevation

Mini-VRF Outdoor unit		4 H.P. U-4LA1E5	5 H.P. U-5LA1E5	6 H.P. U-6LA1E5
Cooling Capacity	kW	11.2	14	15.5
Heating Capacity	kW	12.5	16	18
Maximum Connection Ratio	%	130	130	130
Indoor unit selection allowance		5.6 kW to 14.5 kW within max 6 indoor	7.0 kW to 18.2 kW within max 8 indoor	7.7 kW to 20.1 kW within max 8 indoor
Power consumption Cooling / Heating	kW	3.10 / 3.04	4.31 / 3.97	5.15 / 4.69
EER	Cooling	3.61 <b>A</b>	3.25 <b>A</b>	3.01 <b>B</b>
COP	Heating	4.11 <b>A</b>	4.03 <b>A</b>	3.84 <b>A</b>
Operating current Cooling / Heating	A	23.50 / 21.40	19.80 / 18.10	14.20 / 13.90
Starting current	A	14	20	24
Max current	A	22.5	26	29
Maximum power input	kW	4.4 in cooling / 4.7 in heating	5.7 at cooling/heating	6.2 at cooling/heating
Power source	V/Hz	230 / 50	230 / 50	230 / 50
Recommended fuse size	A	30	30	30
Sound pressure level Cooling / Heating	dB(A)	52 / 54	53 / 55	55 / 57
Sound power	dB	74	72	71
Dimension	H x W x D	mm 1340 x 900 x 350	1340 x 900 x 350	1340 x 900 x 350
Net weight	kg	115	123	123
Air flow rate	m³/min	92	95	98
Outdoor temperature Cooling / Heating	°C	-5 to +43 / -15 to +24	-5 to +43 / -15 to +24	-5 to +43 / -15 to +24
Pipe length (min. - max.)	m	20-90	20-90	20-90
Height difference ID - OD	m	30	30	30
Pipe diameter Liquid / Gas	mm (inch)	9.52 (3/8) / 15.88 (5/8)	9.52 (3/8) / 15.88 (5/8)	9.52 (3/8) / 15.88 (5/8)

#### EXAMPLE OF CORRECT COMBINATION:

Outdoor unit: U-4LA1E5 (minimum combination capacity: 5.6 kW, maximum combination capacity: 14.5 kW)  
Indoors: S-22KA1E5 (2.2 kW) + S-28KA1E5 (2.8 kW) + S-36YA1E5 (3.6 kW)  
Total capacity of indoor units selected: 8.6 kW.

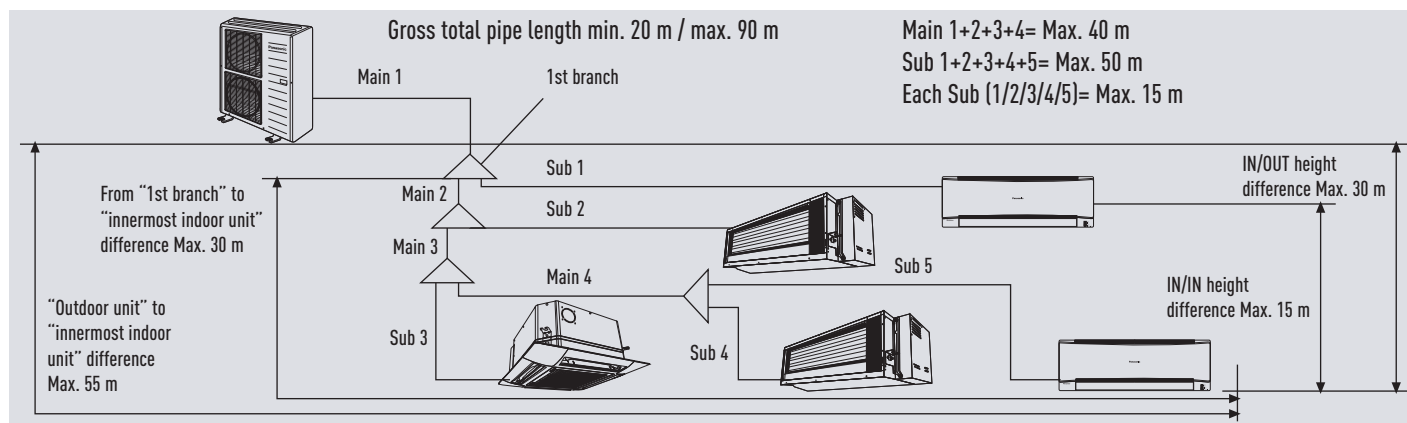
#### EXAMPLE OF INCORRECT COMBINATION:

Outdoor unit: U-4LA1E5 (minimum combination capacity: 5.6 kW, maximum combination capacity: 14.5 kW)  
Indoors: S-22KA1E5 (2.2 kW) + S-28KA1E5 (2.8 kW)  
Total capacity of indoor units selected: 5.0 kW. The total indoor capacity is lower than the minimum permitted.

#### EXAMPLE OF INCORRECT COMBINATION:

Outdoor unit: U-4LA1E5 (minimum combination capacity: 5.6 kW, maximum combination capacity: 14.5 kW)  
Indoors: S-22KA1E5 (2.2 kW) + S-28KA1E5 (2.8 kW) + S-90UA1E5 (9.0 kW) + S-56NA1E5 (5.6 kW)  
Total capacity of indoor units selected: 19.6 kW. The total indoor capacity is higher than the maximum permitted.

#### REFRIGERANT PIPE LENGTH



\* Not for all combinations.

EER and COP classification is at 230V in accordance with EU directive 2002/31/EC.



## WALL TYPE White, KA1 series, Etherea design

Elegant and exclusive design, inspired by Etherea's domestic best seller. Capacity: 2.2, 2.8, 3.6, 4.5, 5.6, 6.3, 7.1 kW



Mini-VRF Wall KA1 series		0.8 H.P. - 2.2 kW S-22KA1E5	1.0 H.P. - 2.8 kW S-28KA1E5	1.5 H.P. - 3.6 kW S-36KA1E5	1.75 H.P. - 4.5 kW S-45KA1E5	2.0 H.P. - 5.6 kW S-56KA1E5	2.5 H.P. - 6.3 kW S-63KA1E5	3.0 H.P. - 7.1 kW S-71KA1E5
Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1
Heating Capacity	kW	2.5	3.2	4.2	5.1	6.4	7.1	8
Power consumption Cooling / Heating	kW	0.025 / 0.025	0.027 / 0.027	0.03 / 0.03	0.035 / 0.035	0.045 / 0.045	0.05 / 0.05	0.055 / 0.055
Dimension (H x W x D) / Net weight	mm / kg	290 x 870 x 204 / 9	290 x 870 x 204 / 9	290 x 870 x 204 / 9	290 x 870 x 204 / 9	290 x 1070 x 235 / 11	290 x 1070 x 235 / 12	290 x 1070 x 235 / 12
Sound pressure level Low / High	dB(A)*	33 / 38	33 / 39	34 / 42	35 / 43	38 / 44	39 / 46	40 / 48
Pipe diameter Liquid / Gas	mm (inch)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	9.52 (3/8) 15.88 (5/8)

Remote controls not included, see next page for references.

## WALL TYPE Silver, KA1 series, Etherea design

Elegant and exclusive design, inspired by Etherea's domestic best seller. Capacity: 2.2, 2.8, 3.6, 4.5 kW



Mini-VRF Wall KA1 series		0.8 H.P. - 2.2 kW S-22KA1E5S	1.0 H.P. - 2.8 kW S-28KA1E5S	1.5 H.P. - 3.6 kW S-36KA1E5S	1.75 H.P. - 4.5 kW S-45KA1E5S
Cooling Capacity	kW	2.2	2.8	3.6	4.5
Heating Capacity	kW	2.5	3.2	4.2	5.1
Power consumption Cooling / Heating	kW	0.025 / 0.025	0.027 / 0.027	0.03 / 0.03	0.035 / 0.035
Dimension (H x W x D) / Net weight	mm / kg	290 x 870 x 204 / 9	290 x 870 x 204 / 9	290 x 870 x 204 / 9	290 x 870 x 204 / 9
Sound pressure level Low / High	dB(A)*	33 / 38	33 / 39	34 / 42	35 / 43
Pipe diameter Liquid / Gas	mm (inch)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)

Remote controls not included, see next page for references.

## CASSETTE 60X60, YA1 series

Stylish and compact, it can be installed in ceilings and standard architectural modules. Capacity: 2.2, 2.8, 3.6, 4.5, 5.6 kW



Mini-VRF Mini-Cassette YA1 series		0.8 H.P. - 2.2 kW S-22YA1E5 CZ-KPY1	1.0 H.P. - 2.8 kW S-28YA1E5 CZ-KPY1	1.5 H.P. - 3.6 kW S-36YA1E5 CZ-KPY1	1.75 H.P. - 4.5 kW S-45YA1E5 CZ-KPY1	2.0 H.P. - 5.6 kW S-56YA1E5 CZ-KPY1
Cooling Capacity	kW	2.2	2.8	3.6	4.5	5.6
Heating Capacity	kW	2.5	3.2	4.2	5.1	6.4
Power consumption Cooling / Heating	kW	0.035 / 0.035	0.035 / 0.035	0.040 / 0.040	0.040 / 0.040	0.045 / 0.045
Dimension (H x W x D) / Net weight	mm / kg	260 x 575 x 575 / 18	260 x 575 x 575 / 18	260 x 575 x 575 / 18	260 x 575 x 575 / 18	260 x 575 x 575 / 18
Sound pressure level Low / High	dB(A)*	33 / 36	33 / 37	34 / 38	35 / 39	36 / 40
Pipe diameter Liquid / Gas	mm (inch)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)

750 mm drain-up mechanism included. Remote controls not included, see next page for references.

## CASSETTE 90X90, UA1 series

Elegant design and high airflow rate for a comfortable and appealing environment. Capacity: 6.3, 7.1, 9.0 kW



Mini-VRF Cassette comparison UA1 series		2.5 H.P. - 6.3 kW S-63UA1E5 CZ-BT03P	3.0 H.P. - 7.1 kW S-71UA1E5 CZ-BT03P	3.5 H.P. - 9.0 kW S-90UA1E5 CZ-BT03P
Cooling Capacity	kW	6.3	7.1	9.0
Heating Capacity	kW	7.1	8	10
Power consumption Cooling / Heating	kW	0.11 / 0.11	0.115 / 0.115	0.115 / 0.115
Dimension (H x W x D) / Net weight	mm / kg	246 x 840 x 840 / 26	246 x 840 x 840 / 26	246 x 840 x 840 / 26
Sound pressure level Low / High	dB(A)*	35 / 41	36 / 42	36 / 42
Pipe diameter Liquid / Gas	mm (inch)	6.35 (1/4) / 12.70 (1/2)	9.52 (3/8) 15.88 (5/8)	9.52 (3/8) 15.88 (5/8)

750 mm drain-up mechanism included. Remote controls not included, see next page for references.

## HIDE AWAY 0-3 mmAq, NA1 series

Compact design. Guarantees good air distribution. 0-3 mmAq. Capacity: 2.2, 2.8, 3.2, 3.6, 4.5, 5.6 kW



Mini-VRF Duct NA1 series (D4)		0.8 H.P. - 2.2 kW S-22NA1E5	1.0 H.P. - 2.8 kW S-28NA1E5	1.25 H.P. - 3.2 kW S-32NA1E5	1.5 H.P. - 3.6 kW S-36NA1E5	1.75 H.P. - 4.5 kW S-45NA1E5	2.0 H.P. - 5.6 kW S-56NA1E5
Cooling Capacity	kW	2.2	2.8	3.2	3.6	4.5	5.6
Heating Capacity	kW	2.5	3.2	3.6	4.2	5.1	6.4
Power consumption Cooling / Heating	kW	0.075 / 0.075	0.08 / 0.08	0.085 / 0.085	0.085 / 0.085	0.095 / 0.095	0.105 / 0.105
Dimension (H x W x D) / Net weight	mm / kg	200 x 900 x 550 / 21	200 x 900 x 550 / 21	200 x 900 x 550 / 22	200 x 900 x 550 / 22	200 x 900 x 550 / 22	200 x 900 x 550 / 22
Air flow rate	m³/min	6-8-10	7-9-11	7-9-11	7-9-11	8-10-12	8.5-10.5-12.5
External static pressure	Pa/mmAq	0 or 29 / 0 or 3 mmAq (factory default 0 mmAq)					
Sound pressure level Low / High	dB(A)*	30 / 36	30 / 37	31 / 38	31 / 38	32 / 39	32 / 39
Pipe diameter Liquid / Gas	mm (inch)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)

Remote controls not included, see next page for references. Filter for S-NA1E5 not available.

## HIDE AWAY 5-7 mmAq, MA1 series

Unit designed to offer maximum flexibility in terms of installation methods. 5-7 mmAq. Capacity: 4.5, 5.6, 6.3, 7.1, 9.0 kW



Mini-VRF Duct MA1 series (D3)		1.75 H.P. - 4.5 kW S-45MA1E5	2.0 H.P. - 5.6 kW S-56MA1E5	2.5 H.P. - 6.3 kW S-63MA1E5	3.0 H.P. - 7.1 kW S-71MA1E5	3.5 H.P. - 9.0 kW S-90MA1E5
Cooling Capacity	kW	4.5	5.6	6.3	7.1	9.0
Heating Capacity	kW	5.1	6.4	7.1	8.0	10
Power consumption Cooling / Heating	kW	0.135 / 0.135	0.135 / 0.135	0.135 / 0.135	0.135 / 0.135	0.175 / 0.175
Dimension (H x W x D) / Net weight	mm / kg	250 x 780+100 x 650 / 29	250 x 780+100 x 650 / 29	250 x 1000+100 x 650 / 32	250 x 1000+100 x 650 / 32	250 x 1000+100 x 650 / 32
Air flow rate	m³/min	13-15	13-15	13-15-17	13-15-17	15-17-19
External static pressure	Pa/mmAq	49 or 69 / 5-7 (factory default 5 mmAq)				
Sound pressure level Low / High	dB(A)*	35 / 42	35 / 42	36 / 43	36 / 43	37 / 44
Pipe diameter Liquid / Gas	mm (inch)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	6.35 (1/4) / 12.70 (1/2)	9.52 (3/8) 15.88 (5/8)	9.52 (3/8) 15.88 (5/8)

Remote controls not included, see next page for references. S-MA1E5 with dust filter.

\* Indoor noise level measured at 230 V.

	2.2 kW	2.8 kW	3.2 kW	3.6 kW	4.5 kW	5.6 kW	6.3 kW	7.1 kW	9.0 kW
Wall type White S- _KA1E5									
Wall type Silver S- _KA1E5S									
Cassette 60x60 S- _YA1E5									
Cassette 90x90 S- _UA1E5									
Hide away 0-3 mmAq S- _NA1E5									
Hide away 5-7 mmAq S- _MA1E5									

### EXAMPLE OF A SYSTEM WITH CENTRALISED CONTROL

Unified ON/OFF controller  
CZ-01ANA11P

Centralised control  
CZ-02ESM11P

Schedule timer  
CZ-01ESW11P

UD GATEWAY  
CZ-20GWAP

URBAN NET

Power supply for Urban Net  
CZ-TE20P

Adaptor for Urban Net  
CZ-TA40P

FS MULTI

FS

[illegible]

Line Branch Pipe  
CZ-P155BK1

[illegible]