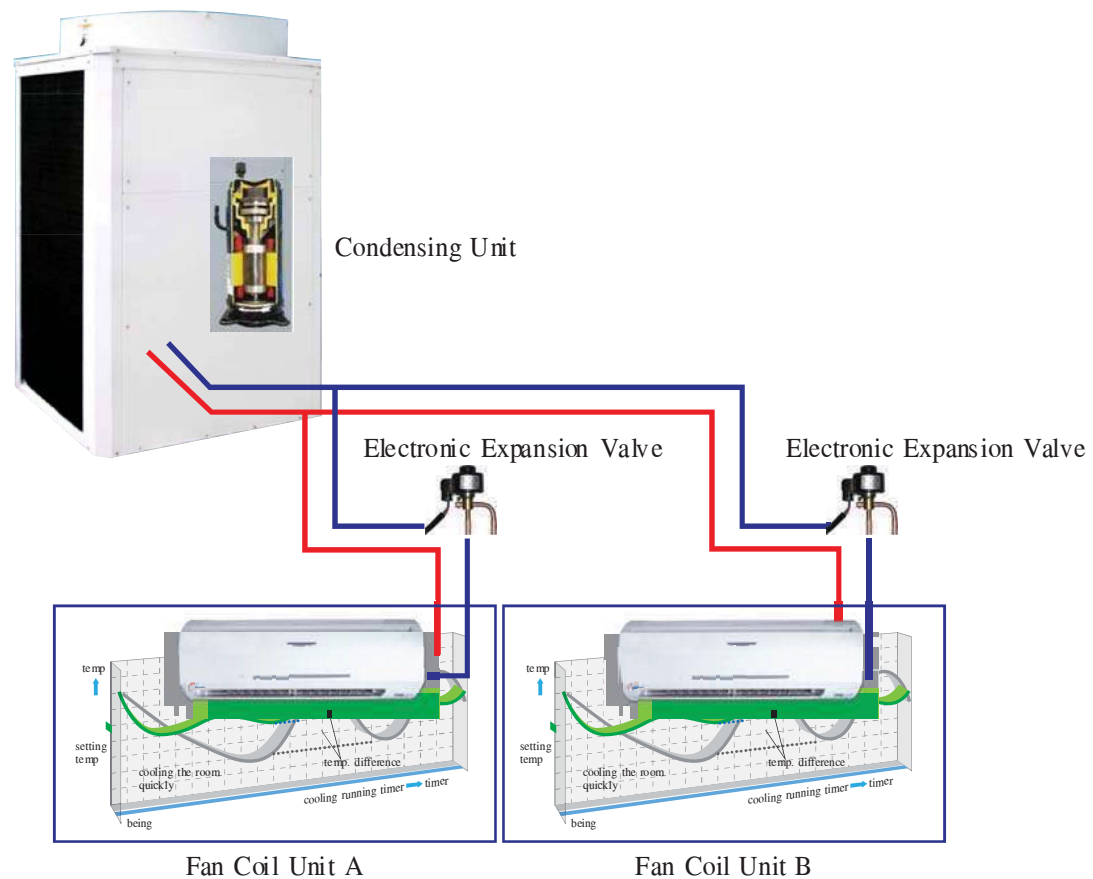


SAKURA®



VRF Central AC

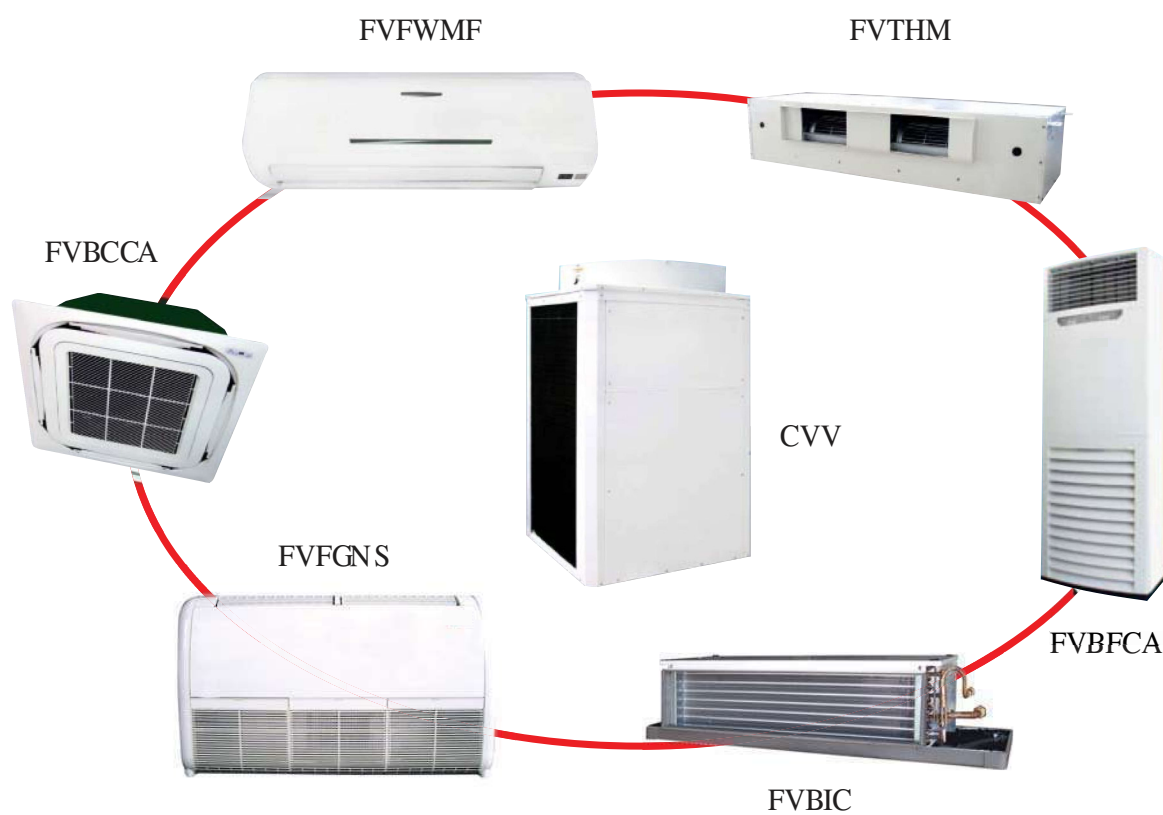




VRF stands for Variable Refrigerant Flow or system to regulate the flow of refrigerant variable by using the electronic expansion valve to control amount of refrigerant to be transmitted from outdoor unit to each of indoor unit with moderate amount of refrigerant. This works together with adjustability of speed of inverter compressor the advantage of the system is it to have the ability of adjusting the temperature constantly precisely, and energy saving purpose.



Indoor Units



FVFWMF (Wall Mounted Type)

Features

- Capacity up to 3.5 tons.
- Electronic expansion valve for refrigerant flow control.
- Automatic swing louver for better air flow distribution.
- Smooth and quiet operation.
- LCD wireless and wired remote Controller with various mode.
- Exclusive cold plasma air purifier (optional).
- R4 10a application is available upon request.
- 60 Hz application is available upon request.



Wireless Remote
Controller



Wire Remote
Controller

Technical Specifications

Unit Model	Indoor	FVFWMF009	FVFWMF012	FVFWMF018	FVFWMF024	FVFWMF030	FVFWMF036	FVFWMF042
Nominal Cooling Capacity	Btu/hr	9000	12000	18000	24000	30000	36000	42000
	Kw	2.64	3.52	5.28	7.04	8.80	10.56	12.32
Nominal Heating Capacity	Btu/hr	9500	12500	18500	24600	30700	36900	42900
	Kw	2.79	3.67	5.42	7.21	9.00	10.82	12.58
Nominal Airflow	CFM	350	350	550	700	700	1200	1200
	CMH	595	595	935	1190	1190	2040	2040
Maximum Power Input	W	45	45	60	60	60	100	100
Maximum Running Current	A	0.23	0.23	0.30	0.30	0.30	0.50	0.50
Sound Level(High/Low)	dBA	40/35	40/35	42/37	45/40	45/40	48/43	48/43
Unit Dimension	Height	mm	280	280	320	325	385	385
	Width	mm	800	800	1020	1080	1080	1604
	Depth	mm	210	210	220	250	250	265
Packing Dimension	Height	mm	319	319	370	379	379	405
	Width	mm	860	860	1080	1140	1140	1705
	Depth	mm	282	282	282	317	317	330
Unit Weight	Kg	12.0	12.9	13.5	16.5	16.5	27.5	27.5
Power supply	V/Ph/Hz	220-240/1/50						
System Refrigerant		R22/R410a						
Pipe Connection	Liquid	inch OD	1/4	1/4	3/8	3/8	3/8	1/2
	Suction	inch OD	3/8	3/8	5/8	5/8	5/8	3/4
	Drain	inch OD	3/4	3/4	3/4	3/4	3/4	3/4

Remark:

- Specifications are subject to change without prior notice for product improvement.
- Cooling capacity are based on condition (Indoor : 27°C DB / 19°C WB , Outdoor : 35°C DB / 24°C WB)
- Heating capacity are based on condition (Indoor : 20°C DB , Outdoor : 7°C DB / 6°C WB)

FVFGNS (Ceiling / Floor Universal Type)



FVFGNS



Wireless Remote
Controller



Wired Remote
Controller

Features

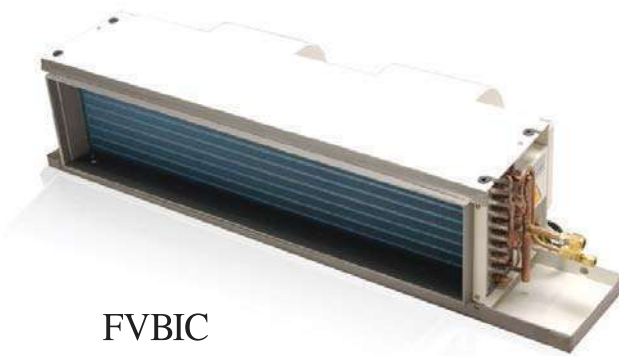
- Capacity up to 5 tons.
- Electronic expansion valve for refrigerant flow control.
- Automatic swing louver for better air flow distribution.
- Smooth and quiet operation.
- LCD wireless and wired Controller with various mode.
- Exclusive cold plasma air purifier (optional).
- Galvanized steel sheet with electrostatic powder painting.
- R410a application is available upon request.
- 60 Hz application is available upon request.

Technical Specifications

Unit Model	Indoor	FVFGNS012	FVFGNS018	FVFGNS024	FVFGNS030	FVFGNS036	FVFGNS042	FVFGNS048	FVFGNS054	FVFGNS060
Nominal Cooling Capacity	Btu/hr	12000	18000	24000	30000	36000	42000	48000	54000	60000
	Kw	3.52	5.28	7.04	8.80	10.56	12.32	14.08	15.84	17.60
Nominal Heating Capacity	Btu/hr	12500	18500	24600	30700	36900	42900	48600	55000	61500
	Kw	3.67	5.42	7.21	9.00	10.82	12.58	14.25	16.13	18.04
Nominal Airflow	CFM	400	600	800	800	1200	1400	1400	1600	1600
	CMH	680	1020	1360	1360	2040	2380	2380	2720	2720
Maximum Power Input	W	120	120	120	120	240	240	240	240	240
Maximum Running Current	A	0.6	0.6	0.6	0.6	0.60x2	0.60x2	0.60x2	0.60x2	0.60x2
Sound Level(Hi/Low)	dBA	42/38	43/38	44/40	44/40	49/44	50/44	50/44	52/46	52/46
Unit Dimension	Height	mm	618	618	618	618	618	618	618	618
	Width	mm	1020	1020	1320	1320	1821	1821	1821	1821
	Depth	mm	260	260	260	260	260	260	260	260
Packing Dimension	Height	mm	670	670	670	670	670	670	670	670
	Width	mm	1035	1035	1330	1330	1835	1835	1835	1835
	Depth	mm	300	300	300	300	300	300	300	300
Unit Weight	Kg	31.0	32.0	40.0	42.0	52.0	56.0	56.0	59.0	59.0
Power supply	V/Ph/Hz	220-240/1/50								
System Refrigerant		R22/R410a								
	Liquid	inch OD	1/4	3/8	3/8	3/8	3/8	1/2	1/2	1/2
	Suction	inch OD	3/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4
	Drain	inch OD	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

Remark: - Specifications are subject to change without prior notice for product improvement.
 - Cooling capacity are based on condition (Indoor : 27°C DB / 19°C WB , Outdoor : 35°C DB / 24°C WB)
 - Heating capacity are based on condition (Indoor : 20°C DB , Outdoor : 7°C DB / 6°C WB)

FVBIC (Ducted Type - Low Static)



FVBIC



Wireless Remote
Controller



Wired Remote
Controller

Features

- Capacity up to 5 tons.
- Electronic expansion valve for refrigerant flow control.
- LCD wired and wireless remote Controller with various mode.
- Plenum box and filter (optional).
- Galvanized steel sheet with electrostatic powder painting.
- Easy installation, maintenance and service.
- R410a application is available upon request.
- 60 Hz application is available upon request.
- Auxiliary drain pan (option).

Technical Specifications

Unit Model	Indoor	FVBIC012	FVBIC018	FVBIC024	FVBIC030	FVBIC036	FVBIC042	FVBIC048	FVBIC054	FVBIC060
Nominal Cooling Capacity	Btu/hr	12000	18000	24000	30000	36000	42000	48000	54000	60000
	Kw	3.52	5.28	7.04	8.80	10.56	12.32	14.08	15.84	17.60
Nominal Heating Capacity	Btu/hr	12500	18500	24600	30700	36900	42900	48600	55000	61500
	Kw	3.67	5.42	7.21	9.00	10.82	12.58	14.25	16.13	18.04
Nominal AirFlow	CFM	400	600	800	800	1000	1400	1400	1600	1600
	CMH	680	1020	1360	1360	1700	2380	2380	2720	2720
External Static Pressure	in.wg(Pa)	0.1(25)	0.1(25)	0.1(25)	0.1(25)	0.1(25)	0.1(25)	0.1(25)	0.1(25)	0.1(25)
Maximum Power Input	W	120	120	120	120	240	240	240	240	240
Maximum Running Current	A	0.6	0.6	0.6	0.6	0.6x2	0.6x2	0.6x2	0.6x2	0.6x2
Sound Level(Hi/Low)	dBA	40/36	42/38	44/39	44/39	48/43	49/44	49/44	50/44	50/44
Unit Dimension	Height	mm	273	273	273	273	273	273	273	273
	Width	mm	974	974	1275	1275	1429	1734	1734	1734
	Depth	mm	470	470	470	470	470	470	470	470
Packing Dimension	Height	mm	293	293	293	293	293	293	293	293
	Width	mm	994	994	1295	1295	1449	1754	1754	1754
	Depth	mm	490	490	490	490	490	490	490	490
Unit Weight	Kg	18.0	22.0	25.0	25.0	32.0	42.0	42.0	45.0	45.0
Power supply	V/Ph/Hz	220-240/1/50								
System Refrigerant		R22/R410a								
Pipe Connection	Suction	inch OD	3/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4
	Liquid	inch OD	1/4	3/8	3/8	3/8	3/8	1/2	1/2	1/2
	Drain	inch OD	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

Remark: - Specifications are subject to change without prior notice for product improvement.
- Cooling capacity are based on condition (Indoor : 27°C DB / 19°C WB , Outdoor : 35°C DB / 24°C WB)
- Heating capacity are based on condition (Indoor : 20°C DB , Outdoor : 7°C DB / 6°C WB)

FVTHM (Ducted Type - Medium Static)



FVTHM



Wireless Remote
Controller



Wired Remote
Controller

Features

- Capacity range : 5 tons.
- External Static Pressure up to 0.3 in.wg (75 Pa).
- Ultra slim design.
- 5 steps motor speed.
- Electronic expansion valve for refrigerant flow control.
- LCD wired and wireless remote Controller with various mode.
- Aluminium washable filter.
- Galvanized steel sheet with electrostatic powder painting.
- R410a application is available upon request.
- 60 Hz application is available upon request.

Technical Specifications

Unit Model	Indoor	FVTHM012	FVTHM018	FVTHM024	FVTHM030	FVTHM036	FVTHM042	FVTHM048	FVTHM054	FVTHM060
Nominal Cooling Capacity	Btu/hr	12000	18000	24000	30000	36000	42000	48000	54000	60000
	Kw	3.52	5.28	7.04	8.80	10.56	12.32	14.08	15.84	17.60
Nominal Heating Capacity	Btu/hr	12500	18500	24600	30700	36900	42900	48600	55000	61500
	Kw	3.67	5.42	7.21	9.00	10.81	12.57	14.24	16.12	18.02
Nominal Airflow	CFM	400	600	700	1000	1100	1200	1200	1500	1500
	CMH	680	1020	1190	1700	1870	2040	2040	2550	2550
External Static Pressure	in.wg (Pa)	0.3(75)	0.3(75)	0.3(75)	0.3(75)	0.3(75)	0.3(75)	0.3(75)	0.3(75)	0.3(75)
Maximum Power Input	W	330	330	330	560	560	560	560	770	770
Maximum Running Current	A	1.6	1.6	1.6	2.7	2.7	2.7	2.7	3.7	3.7
Metering Device		Electronic Expansion Valve								
Sound Level	dBA	40/35	43/37	45/40	48/43	48/43	50/45	50/45	53/47	53/47
Unit Dimension	Height	mm	305	305	305	305	305	305	305	305
	Width	mm	876	876	1256	1256	1556	1556	1556	1556
	Depth	mm	536	536	536	536	536	536	536	536
Packing Dimension	Height	mm	345	345	345	345	345	345	345	345
	Width	mm	915	915	1325	1325	1580	1580	1580	1580
	Depth	mm	545	545	545	545	545	545	545	545
Unit Weight	Kg	27.0	28.0	42.0	44.5	49.0	56.5	56.5	61.0	61.0
Power Supply	V/Ph/Hz	220-240/1/50								
System Refrigerant		R22/R410a								
Pipe Connection	Liquid	inch OD	1/4	3/8	3/8	3/8	3/8	1/2	1/2	1/2
	Suction	inch OD	3/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4
Drain tube	inch OD	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

Remark:

- Specifications are subject to change without prior notice for product improvement.
- Cooling capacity are based on condition (Indoor : 27°C DB / 19°C WB , Outdoor : 35°C DB / 24°C WB)
- Heating capacity are based on condition (Indoor : 20°C DB , Outdoor : 7°C DB / 6°C WB)

FVTHM (Ducted Type - High Static)



FVBAC



Wireless Remote
Controller



Wired Remote
Controller

Features

- Capacity range : 5 tons.
- External Static Pressure 0.6 to 1.2 in.wg (150 to 300 Pa).
- Ultra slim design.
- Electronic expansion valve for refrigerant flow control.
- LCD wired and wireless remote Controller with various mode.
- Aluminium washable filter.
- Galvanized steel sheet with electrostatic powder painting.
- R410a application is available upon request.
- 60 Hz application is available upon request.

Technical Specifications

Unit Model		Indoor	FVBAC075	FVBAC100	FVBAC125	FVBAC150	FVBAC200	FVBAC250	FVBAC300	FVBAC350	FVBAC400	FVBAC450	FVBAC500	FVBAC600
Nominal Cooling Capacity	Btu/hr		75000	100000	125000	150000	200000	250000	300000	350000	450000	450000	500000	600000
	Kw		21.98	29.31	36.64	43.96	58.62	73.27	87.92	102.58	117.23	131.89	146.54	175.85
Nominal Heating Capacity	Btu/hr		78750	107000	131250	160500	210000	267500	315000	374500	420000	481500	525000	642000
	Kw		61.55	31.36	38.47	47.04	61.55	78.40	92.32	109.76	123.09	141.12	153.87	188.16
Nominal Airrow	CFM		2500	2800	4100	4400	6000	7800	9000	10400	12000	13200	14600	17600
External Static Pressure	Pa		150	150	150	150	150	200	200	200	200	250	250	300
Maximum Power Input	W		1300	787 x 2	1100	1500	3659	3659	6446	8625	6446	8625	12475	8625
Maximum Running Current	A		6.5	4.0 x 2	2.89	3.7	6.78	6.78	11.8	15.6	11.8	15.6	22.3	15.6
Metering Device			Thermostat Expansion Valve											
Unit Dimension	Height	mm	485	550	870	870	870	1165	1165	1368	1368	1368	1368	1772
	Width	mm	1560	1560	1575	1575	1905	1905	1905	1905	2422	2422	2422	2442
	Depth	mm	765	765	985	985	985	1242	1242	1242	1518	1518	1518	1820
Packing Dimension	Height	mm	695	760	1100	1100	1100	1395	1395	1595	1595	1595	1595	1970
	Width	mm	1675	1675	1675	1675	2005	2005	2005	2005	2530	2530	2530	2530
	Depth	mm	865	865	1085	1085	1085	1345	1345	1345	1615	1615	1615	1915
Unit Weight	Kg		129	150	215	217	235	368	378	503	556	570	850	920
Power Supply	V/Ph/Hz		220-240/1/50											
System Refrigerant			R22/R410a											
Pipe Connection	Liquid	inch OD	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Suction	inch OD	1-1/8	1-1/8	1-3/8	1-3/8	1-1/8	1-3/8	1-3/8	1-1/8,1-3/8	1-1/8	1-3/8	1-3/8	1-3/8
	Drain tube	inch OD	1	1	1	1	1	1	1	1	1	1	1	1

Remark: - Specifications are subject to change without prior notice for product improvement.
- Cooling capacity are based on condition (Indoor : 27°C DB / 19°C WB , Outdoor : 35°C DB / 24°C WB)
- Heating capacity are based on condition (Indoor : 20°C DB , Outdoor : 7°C DB / 6°C WB)

FVBSCA (One-Way Cassette Type)



FVBSCA



Wireless Remote
Controller



Wired Remote
Controller

Features

- Capacity up to 1-1.5 tons .
- Exclusive cold plasma air purifier (optional).
- Electronic expansion valve for refrigerant flow control.
- Automatic swing louver for better air flow distribution.
- Smooth and quiet operation.
- LCD wireless and wired Controller with various mode.
- R410a application is available upon request
- 60 Hz application is available upon request

Technical Specifications

Unit Model			Indoor	FVBSCA012	FVBSCA018
Nominal Cooling Capacity			Btu/Hr	12000	18000
			Kw	3.52	5.28
Nominal Airflow			CFM	400	500
			CMH	680	850
Maximum Power Output			W	54	54
Maximum Running Current			A	0.60	0.60
Sound Level(Hi/Low)			dBA	41/38/36	43/40/37
Unit Dimension	Unit	Height	mm	980	980
		Width	mm	420	420
		Depth	mm	245	245
	Panel	Height	mm	1140	1140
		Width	mm	540	540
		Depth	mm	50	50
Unit Weight	Unit		Kg	27	28
Power Supply			V/Ph/Hz	220-240/1/50	
System Refrigerant				R22/R410a	
Pipe Connection	Liquid		inch OD	1/4	3/8
	Suction		inch OD	3/8	5/8
	Drain		inch OD	3/4	3/4

Remark: - Specifications are subject to change without prior notice for product improvement.
 - Cooling capacity are based on condition (Indoor : 27°C DB / 19°C WB , Outdoor : 35°C DB / 24°C WB)
 - Heating capacity are based on condition (Indoor : 20°C DB , Outdoor : 7°C DB / 6°C WB)

FVBCCA (Four-Way Cassette Type)



FVBCCA



Wireless Remote
Controller



Wired Remote
Controller

Features

- Capacity up to 5 tons.
- Exclusive cold plasma air purifier (optional).
- Electronic expansion valve for refrigerant flow control.
- Automatic swing louver for better air flow distribution.
- Smooth and quiet operation.
- LCD wireless and wired Controller with various mode.
- R410a application is available upon request.
- 60 Hz application is available upon request.

Technical Specifications

Unit Model			Indoor	FVBCCA012	FVBCCA018	FVBCCA024	FVBCCA030	FVBCCA036	FVBCCA042	FVBCCA048	FVBCCA056	FVBCCA060
Nominal Cooling Capacity			Btu/Hr	12000	18000	24000	30000	36000	42000	48000	56000	60000
			Kw	3.52	5.28	7.04	8.80	10.56	12.32	14.08	16.42	17.60
Nominal Heating Capacity			Btu/Hr	12500	18500	24600	30700	36900	42900	48600	57300	61500
			Kw	3.67	5.42	7.21	9.00	10.82	12.58	14.25	16.81	18.04
Nominal Airflow			CFM	500	500	1000	1000	1000	1200	1200	1600	1600
			CMH	850	850	1700	1700	1700	2040	2040	2720	2720
Maximum Power Input			W	90	90	210	210	210	210	210	210	210
Maximum Running Current			A	0.44	0.44	1.00	1.00	1.00	1.00	1.00	1.03	1.03
Sound Level(Hi/Low)			dB A	43/37	43/37	44/39	44/39	44/39	49/44	49/44	52/45	52/45
Unit Dimension	Unit	Height	mm	255	255	280	280	280	280	280	295	295
		Width	mm	649	649	830	830	830	830	830	960	960
		Depth	mm	647	647	830	830	830	830	830	960	960
	Panel	Height	mm	60	60	40	40	40	40	40	55	55
		Width	mm	650	650	950	950	950	950	950	1140	1140
		Depth	mm	650	650	950	950	950	950	950	1140	1140
Packing Dimension	Unit	Height	mm	280	280	310	310	310	310	310	310	310
		Width	mm	685	685	865	865	865	865	865	865	865
		Depth	mm	645	645	865	865	865	865	865	865	865
	Panel	Height	mm	100	100	100	100	100	100	100	100	100
		Width	mm	710	710	980	980	980	980	980	980	980
		Depth	mm	710	710	980	980	980	980	980	980	980
Unit Weight	Unit		Kg	19.0	21.5	45.0	45.0	49.0	50.0	50.0	55.0	55.0
	Panel		Kg	2.5	2.5	7.0	7.0	7.0	7.0	7.0	7.5	7.5
Power Supply			V/Ph/Hz	220-240/1/50								
System Refrigerant				R22/R410a								
Pipe Connection	Liquid		inch OD	1/4	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2
	Suction		inch OD	3/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4	3/4
	Drain		inch OD	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

Remark: - Specifications are subject to change without prior notice for product improvement.
- Cooling capacity are based on condition (Indoor : 27°C DB / 19°C WB , Outdoor : 35°C DB / 24°C WB)
- Heating capacity are based on condition (Indoor : 20°C DB , Outdoor : 7°C DB / 6°C WB)

FVBFCA (Floor Standing Type)



FVBFCA



Wireless Remote
Controller



Wired Remote
Controller

Features

- Capacity range : 5 tons.
- Automatic swing louver.
- Ultra slim design.
- Electronic expansion valve for refrigerant flow control.
- Wireless remote controller with various mode.
- Synthetic washable filter.
- Galvanized steel sheet with electrostatic powder painting.
- R410a application is available upon request.
- 60 Hz application is available upon request.

Technical Specifications

Unit Model		Indoor	FVBFCA024	FVBFCA030	FVBFCA036	FVBFCA042	FVBFCA048	FVBFCA060	FVBFCA075	FVBFCA080	FVBFCA090	FVBFCA100	FVBFCA125	FVBFCA150	FVBFCA200	FVBFCA250
Nominal Cooling Capacity		Btu/hr	24000	30000	36000	42000	48000	60000	75000	80000	90000	100000	125000	150000	205200	250400
Nominal Airflow		CFM	1000	1000	1000	1600	1600	1600	2000	2000	2300	2300	3500	3500	4600	7000
Maximum Power Input		W	270	270	270	540	540	540	550	550	600	600	540	540	1000	960
Maximum Running Current		A	1.32	1.32	1.32	2.60	2.60	2.60	3.7	3.7	3.7	3.7	2.6 x 2	2.6 x 2	3.7 x 2	2.6 x 4
Unit Dimension	Height	mm	1740	1740	1740	1892	1892	1892	1900	1900	1900	1900	1900	1900	1910	1910
	Width	mm	530	530	530	657	657	657	840	840	840	840	1200	1200	1562	2300
	Depth	mm	370	370	370	380	380	380	420	420	420	420	420	420	420	420
Packing Dimension	Height	mm	1750	1750	1750	1895	1895	1895	2060	2060	2060	2060	2110	2110	2060	2060
	Width	mm	550	550	550	675	675	675	960	960	960	960	1320	1320	1762	2500
	Depth	mm	385	385	385	390	390	390	540	540	540	540	550	550	620	620
Unit Weight		Kg	40	43	43	68	68	70	92	92	98	98	142	147	180	280
Power Supply		V/Ph/Hz	220-240/1/50													
System Refrigerant			R22/R410a													
Pipe Connection	Liquid	inch OD	3/8	3/8	3/8	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	2 x 5/8	2 x 5/8
	Suction	inch OD	5/8	5/8	5/8	3/4	3/4	3/4	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	2 x 1-1/8	2 x 1-3/8
Drain tube		inch OD	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1-1/8

Remark: - Specifications are subject to change without prior notice for product improvement.
- Cooling capacity are based on condition (Indoor : 27°C DB / 19°C WB , Outdoor : 35°C DB / 24°C WB)
- Heating capacity are based on condition (Indoor : 20°C DB , Outdoor : 7°C DB / 6°C WB)

Outdoor Unit Specification

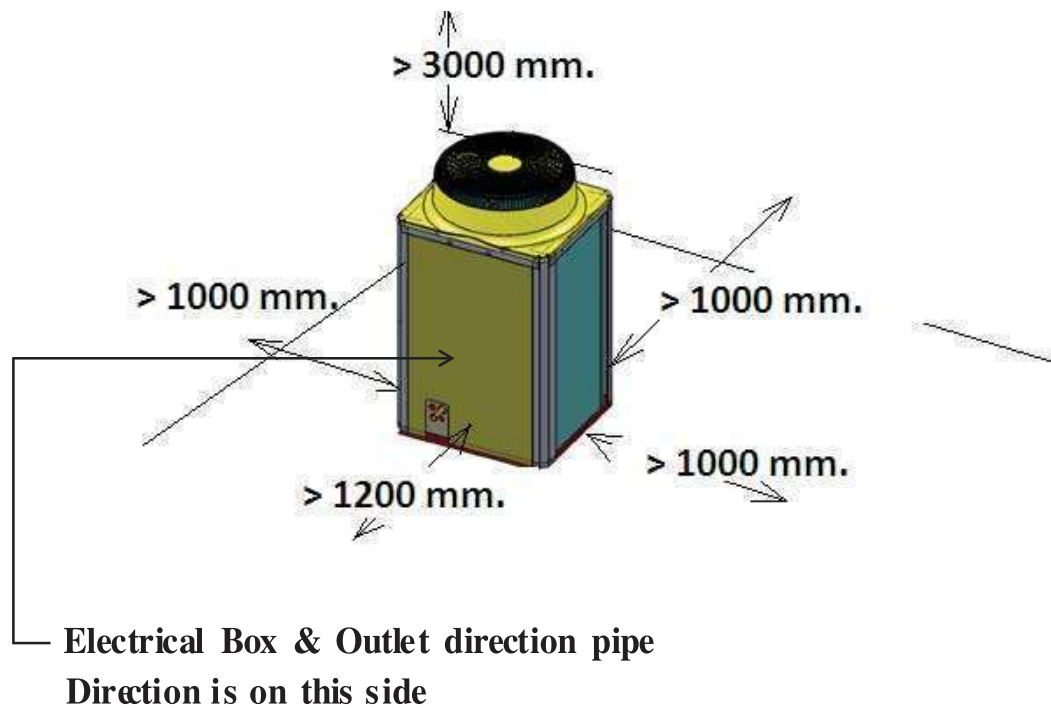


Model			SRV-H250/R1MV	SRV-H280/R1MV	SRV-H335/R1MV	SRV-H400/R1MV
Power supply			380 ~415V, 3Ph, 50/60Hz			
Cooling	capacity	kW	25.2	28.0	33.5	40.0
	EER	W/W	4.75	4.08	4.02	3.87
Heating	capacity	kW	28.0	31.5	37.5	45.0
	COP	W/W	4.86	4.42	4.25	4.17
Air Flow Volume		m ³ /h	12000	12000	12000	14500
Sound Pressure level		dB(A)	43~58	43~58	43~58	43~61
Liquid/gas piping size		mm	12.7/22.2	12.7/22.2	12.7/22.2	12.7/28.6
Net Dimension(W*D*H)		mm	990*765*1635	990*765*1635	990*765*1635	1340*765*1635
Net Weight		kg	223	223	248	270

Model			SRV-450/R1MV	SRV-H500/R1MV	SRV-H560/R1MV	SRV-H615/R1MV
Power supply			380 ~415V, 3Ph, 50/60Hz			
Cooling	capacity	kW	45.0	50.4	56.0	61.5
	EER	W/W	3.66	3.59	3.51	3.32
Heating	capacity	kW	50.0	55.5	63.0	69.0
	COP	W/W	4.10	3.91	3.82	3.67
Air Flow Volume		m ³ /h	15000	15000	21000	21000
Sound Pressure level		dB(A)	43~61	43~61	43~63	43~63
Liquid/gas piping size		mm	12.7/28.6	12.7/28.6	15.9/28.6	15.9/28.6
Net Dimension(W*H*D)		mm	1340*765*1635	1340*765*1635	1340*765*1635	1340*765*1635
Net Weight		kg	270	318	355	355

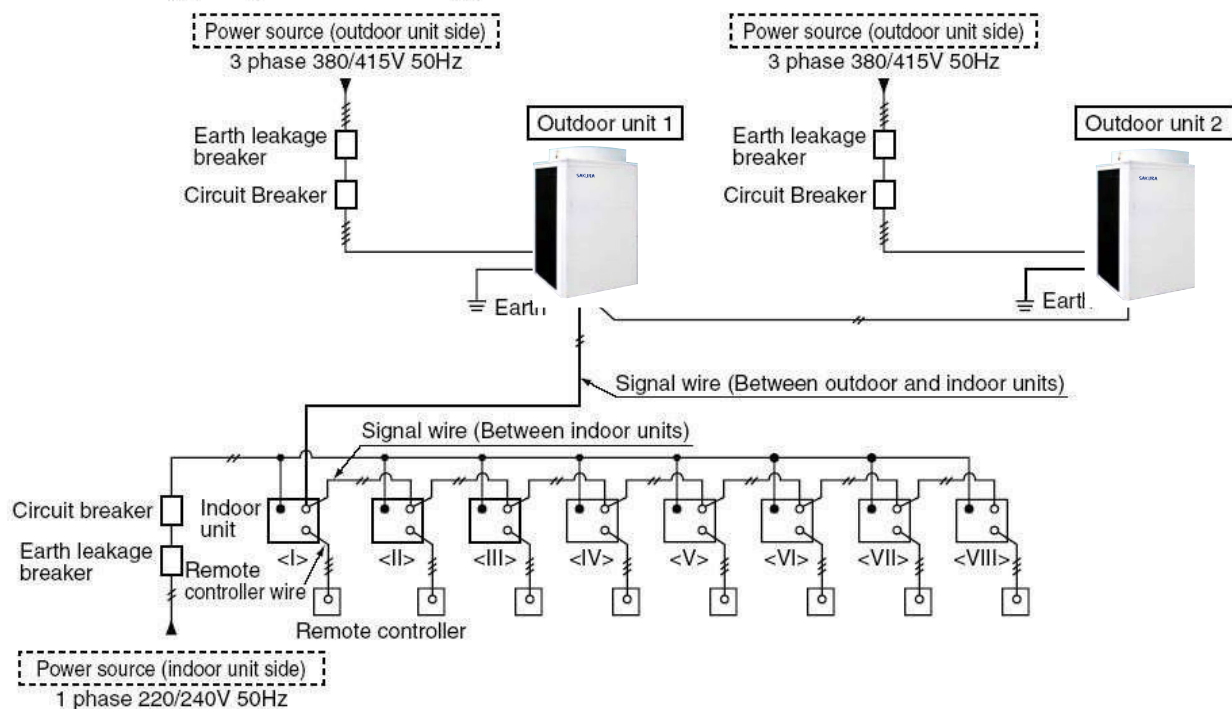
Remark: - Specifications are subject to change without prior notice for product improvement.
 - Cooling capacity are based on condition (Indoor : 27°C DB / 19°C WB , Outdoor : 35°C DB / 24°C WB)
 - Heating capacity are based on condition (Indoor : 20°C DB , Outdoor : 7°C DB / 6°C WB)

Installation of Outdoor Condensing Unit



Wiring Connection System

Wiring System Diagrams



Piping System

Length and Drop Height Permitted of The Refrigerant Piping :

			Permitted Value		Piping
Pipe · Length	Total Pipe Length (Actual)		< 30 HP	350 m	L1+L2+L3+L4+L5+a+b+c+d+e
			>30 HP	500 m	
	Max. Piping (L)	Actual Length	150 m	L1+L4+L5+e	
		Equivalent length	175 m		
	Piping (Fastest from the RST line pipe branch) Equivalent length(l)			40 m	L4+L5+e
Drop Height	Indoor Outdoor	Outdoor Unit Up	70 m	-----	
	Unit Drop Height(H)	Outdoor Unit Down	40 m	-----	
	Indoor Unit to Indoor Unit Drop Height(h)		15 m	-----	

Equivalent Length = Actual Pipe Length + Number of Bends x Eq. Length for Bends + Numbers of Oil Traps x Eq. Length of Oil Traps :

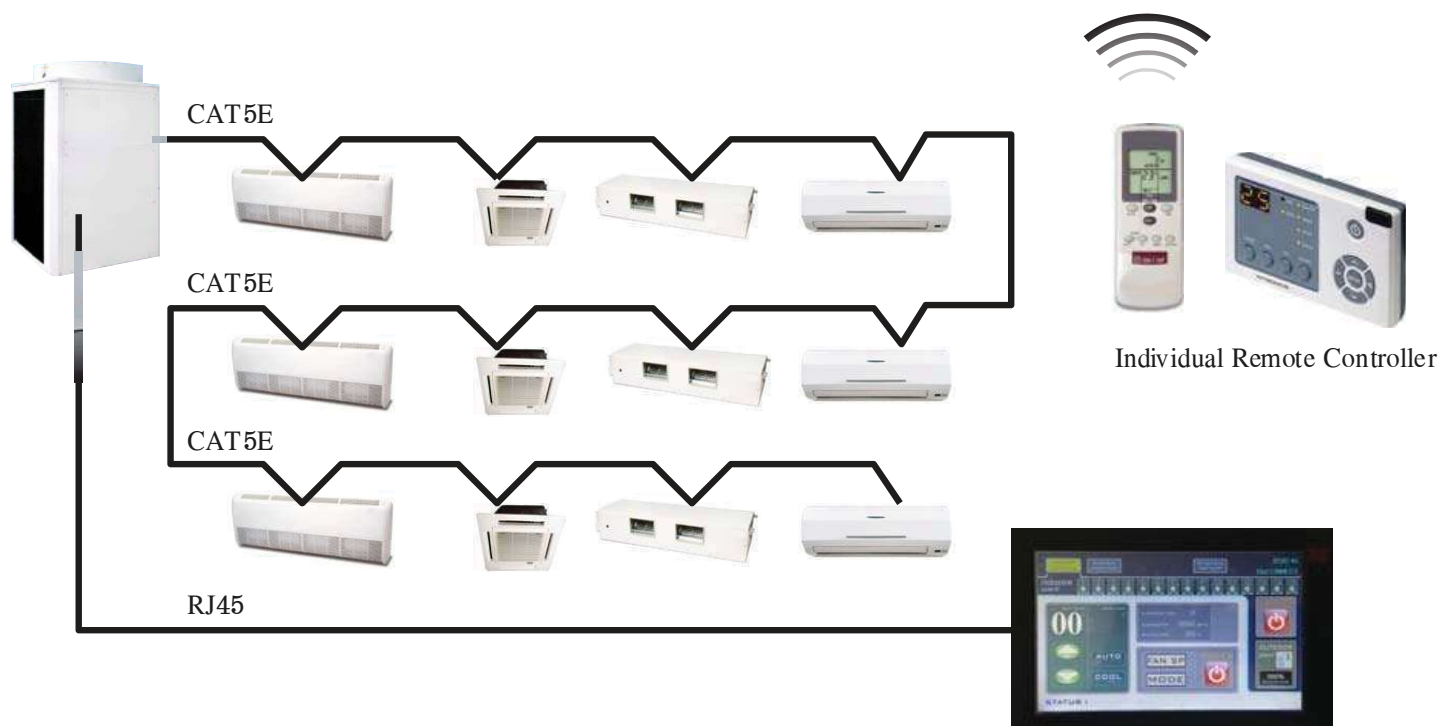
Diameter (mm)	Bends (m)	Oil Traps (m)
Ø9.52	0.18	1.3
Ø12.7	0.20	1.5
Ø15.88	0.25	2.0
Ø19.05	0.35	2.4
Ø22.23	0.40	3.0

Unit Capacity		Liquid		Suction	
		Inch	mm.	Inch	mm
Pipe size from outdoor unit to the RST branch					
Capacity (kW)	Capacity (BTU)				
21.98	75,000	1/2	12.7	7/8	22.23
29.31	100,000	1/2	12.7	7/8	22.23
36.64	125,000	5/8	15.9	1 - 1/8	28.58
43.96	150,000	5/8	15.9	1 - 1/8	28.58
Pipe size from 1 branch to another					
kW	BTU				
X < 5.6	X < 19000	3/8	9.52	1/2	12.7
5.6 <= X < 14.2	19000 <= X < 49000	3/8	9.52	5/8	15.9
14.2 <= X < 22	49000 <= X < 76000	3/8	9.52	3/4	19.1
22 <= X < 30	76000 <= X < 105000	3/8	9.52	7/8	22.2
30 <= X < 47	105000 <= X < 160000	1/2	12.7	9/8	28.6

If the equivalent length of outdoor unit to the furthest indoor unit more than 90 m, main pipe must be up size 1 size selection of refrigerant pipe.

Note : X denotes summation of the capacity for all indoors after the branch.

BMS (Building Management System)

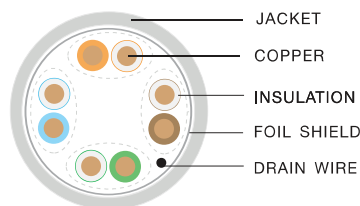


This illustrates signal wiring between outdoor unit indoor unit and central control unit.

Category 5E FTP (Shield) Cable (CAT5 FTD).

SPECIFICATIONS

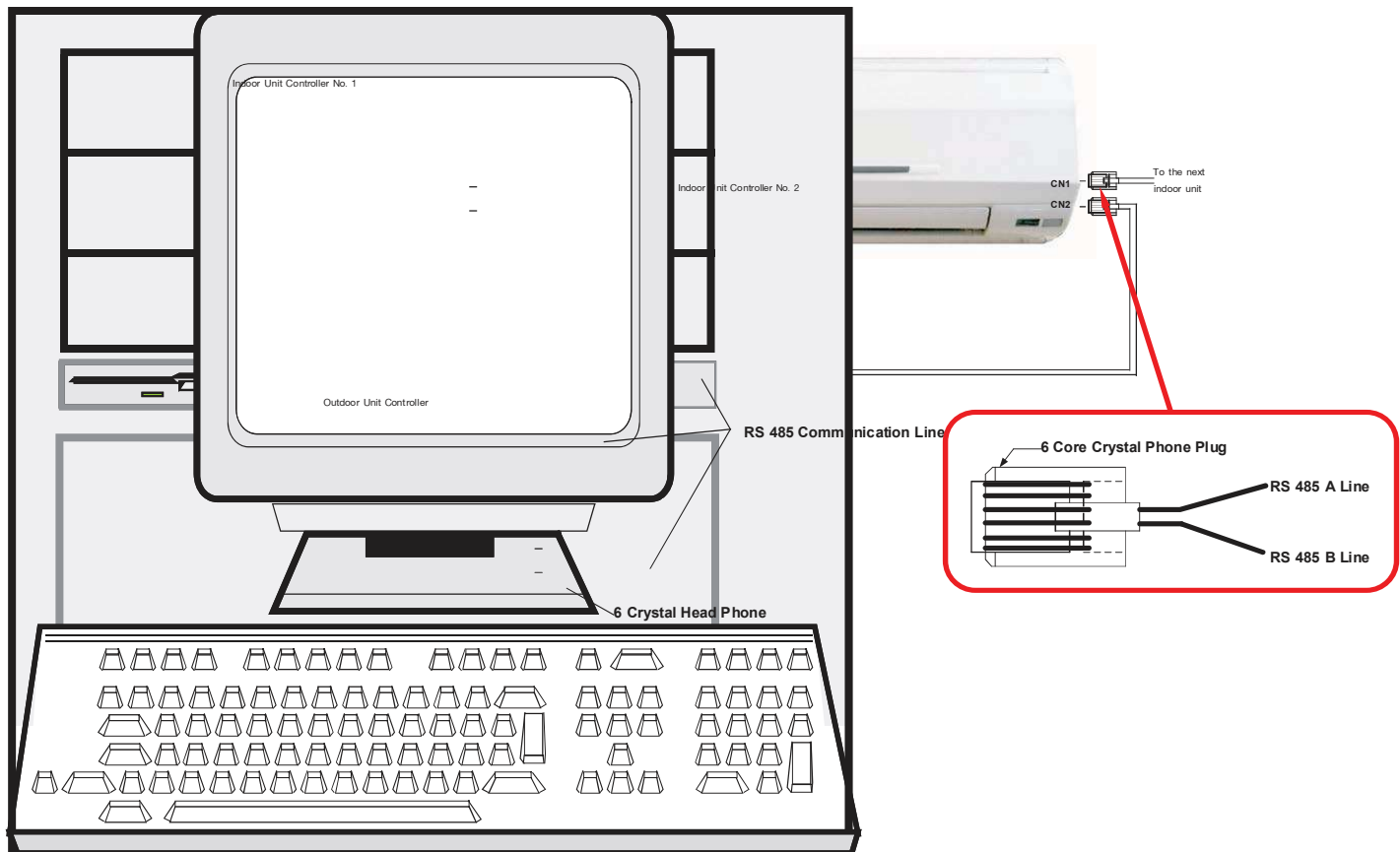
Applications	: Gigabit Ethernet(1000 Base T), Fast Ethernet, 100 Mbps TPDDI, 10 Base T, 155 Mbps ATM, ISDN, Broadband video and Analg voice, Digital voice (VoIP)
Insulation	: PE (Polyethylene), 0.81 mm.diameter
Jacket	: FRPVC -CMR UL/NEC Rating : US-9035 (Plenum and LHZH-Flame Retardant & Low Smoke Zero Halogen Polymer Alloy :optional)
Standards	: TIA/EIA-568A/B Category 5E, ISO/IEC-11801, CENELEC EN50173 , UL E197771, NEMA WC63.1
Benefit	: Mylar-Aluminum tape Shield with drain wire
Specification	: 4 PAIRS FTP Shield CAT5E CABLE
Impedance	: 100+/-15 Ohms
Mutual Capacitance	: 5.6 nF max/100m
DC Resistance	: 9.38 ohms max/100m @ 100 MHz
DC Resistance Unbalance	: 5% max of a pair
Normal Velocity of Propagation	: Non - Plenum insulated 69 % Plenum FEP insulated 70 %
Delay Skew	: 25 ns/100 m.
Propagation Delay	: 536 ns/100 m.@350 MHz
Attenuation to Crosstalk Ratio	: min 16.3 dB @100 MHz, typical 20.3 dB min 7.4 dB @155 MHz, typical 11.4 dB
Operating temperature	: -20°C to 60°C
Storage temperature	: -20°C to 80°C
Voltage	: 300 VAC or VDC



RS485 (Line Communication Connection)

Connection Between Controller Indoor and Outdoor Unit :

- The address code of the communication modules should not be connected in one project.
- The communication cable and heavy-current wires should be separated and the distance between them should be secured, 15cm or more.
- Use communication cable with 2 core shield twisted pair.
- Crystal head.



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