

Horizontal Ducted Units

Climatcool U.S.A.
Hi-Tech Airconditioning

Tropical Series

-  Timer
 -  Built-in Filter
 -  Wired Controller
 -  Auto Restart Function
 -  Built-in Drain Pump
 -  Wifi Control
- optional ■ standard

Indoor Mid ESP Duct

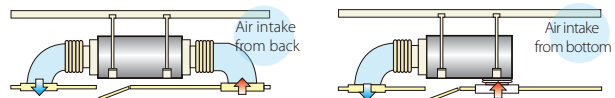
Fresh Air Intake >>

► Fresh air makes healthy, comfortable life.



Flexibility >>

► To provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.

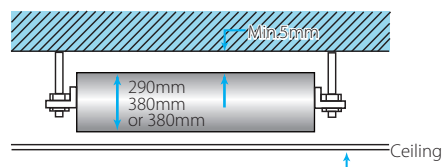


Wifi Control >>

► The optional WiFi modular makes it possible to monitor & control your AC while on the road through APP on your mobile phone or ipad.



Compact Size >>

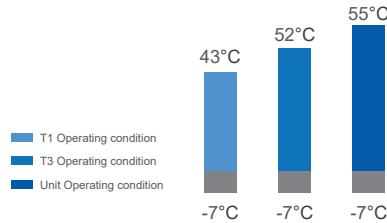


Horizontal Ducted Units

Outdoor Side Discharge

Up to 55°C Running >>

- ▶ Enjoy excellent performance even under ambient temperature up to 55°C, suitable for T3 operating condition.



Double Anti-Corrosion Technology >>

- ▶ Galvanized metal with world-class powder spraying technology can improved the anti-corrosion ability of the housing of outdoor units three times, especially in salty, moist surroundings.



Multiple Protection >>

- ▶ High Pressure protection, Low Pressure protection, Compressor overloading protection, High Ext. Temp. protection, Phase protection (Phase-loss, phase-reverse), Over-heating protection, anti-freezing protection, sensor failure alarm, failure code display and etc. The compressor could run reasonable operation range.



Specification



High Efficiency, R-410a

Unit Model	Indoor Outdoor	SATBT-18CN1-Q	SATBT-24CN1-Q	SATBT-30CN1-Q	SATBT-36CN1-Q	SATBT-48CN1-R	SATBT-60CN1-R	
		SAOUT-18CN1-Q	SAOUT-24CN1-Q	SAOUT-30CN1-Q	SAOUT-36CN1-Q	SAOUT-48CN1-R	SAOUT-60CN1-R	
Power Supply	V,HZ,Ph	220-240V/ 50Hz/ 1Ph				380-415V/ 50Hz/ 3Ph		
Cooling	Capacity (T1/T3)	Btu/h	17500/15200	23500/20500	28000/24500	34500/30500	48000 / 42000	52000/45500
		Kw	5.13/4.45	6.89/6.01	8.21/7.18	10.11/8.94	14.07/12.31	15.24/13.33
	Power Input (T1/T3)	Kw	1.48/1.78	1.96/2.35	2.4/2.9	2.88/3.50	4.00/4.80	4.40/5.23
	Current (T1/T3)	A	6.55/7.85	8.68/10.33	10.72/12.85	12.75/15.20	6.70/8.10	7.40/8.80
	EER (T1/T3)	(Btu/H)/W	11.82/8.54	11.99/8.72	11.67/8.45	11.98/8.71	12.00/8.75	11.82/8.70
Indoor Unit	Controller	Type	Wired Controller					
	Air Flow (H/M/L)	m ³ /h	1000/800/700	1400/12500/1050	1650/1450/1250	2200/1850/1600	2600/2300/1950	3100/2600/2200
	Noise Level (H/M/L)	dB(A)	43/41/40	45/43/41	45/41/39	47/43/40	49/45/43	53/50/47
	ESP	Pa	0-60	0-60	0-80	0-80	0-100	0-150
	Net Dimension (WxHxD)	mm±5	890x290x705	890x290x705	1250x290x705	1250x290x705	1250x320x705	1400x380x790
	Packing Dimension	mm±5	1070x360x800	1070x360x800	1430x360x800	1430x360x800	1430x390x800	1580x450x880
	Weight (Net/ Gross)	Kg	32/35.5	33/36.5	44/50	44/50	47/53	51.5/58.5
Outdoor Unit	Drainage Pipe	mm	DN20(R3/4)					
	Compressor	Type	Rotary				Scroll	
	Refrigerant/ Flow Control	Type	R-410a / Outdoor Capillary Tube					
	Noise Level	dB(A)	56	56	58	58	60	60
	Net Dimension (WxHxD)	mm±5	800x545x315	900x700x350	900x700x350	970x805x395	940x1366x401	940x1366x401
	Packing Dimension	mm±5	920x620x400	1020x770x430	1020x770x430	1105x895x495	1180x1490x460	1180x1490x460
	Weight (Net/ Gross)	Kg	39/42	49/53	55/59	68/73	104/116	105/117
	Connection	Liquid mm, in	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
Pipe Size	Gas mm, in	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	
Stuffing Quantity (20/40/40H)	Set	48/104/122	40/84/102	36/78/87	30/61/70	20/44/45	18/34/38	

Note:

1. The Above design and specification are subject to change without prior notice.
2. Cooling conditions; T1: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 35°C Db.
T3: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 46°C Db.

Standard Ducted Units

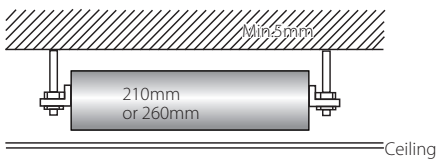
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- Timer
 - Built-in Filter
 - Wired Controller
 - Auto Restart Function
 - Built-in Drain Pump
 - Wifi Control
- optional ■ standard

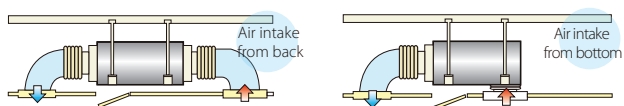
Indoor Cassette Unit

Compact Size >>



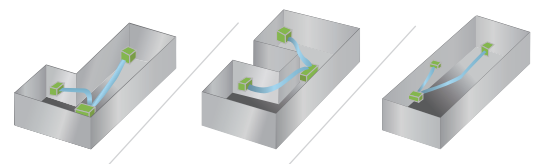
Flexibility >>

► To provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.



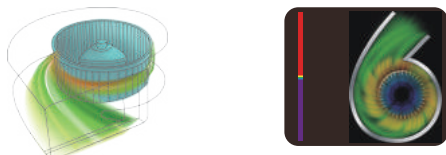
Ductable Connection >>

► Flexible installation, suit for different room structure.



Blower >>

► Centrifugal Fan Blade, increasing air flow and decreasing the noise.

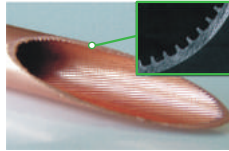


Standard Ducted Units

Outdoor Side Discharge

Fins & Coil >>

► Provide hydrophilic aluminum foil and inner grooved copper pipe to enhance the heat exchange performance.



Convenient Installation >>

► Multi-direction piping connection meets different requirements & convenient installation.



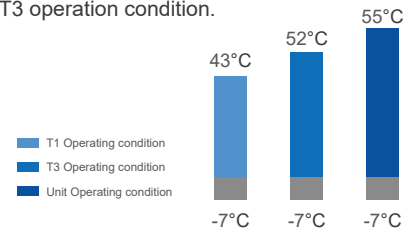
Easy Maintenance >>

► External globe valve and wiring port to make it easier for installation & maintenance.



Up to 55°C Running >>

► Enjoy excellent performance even under ambient temperature up to 55°C, suitable for T3 operation condition.



T3, Std. Efficiency, R-410a

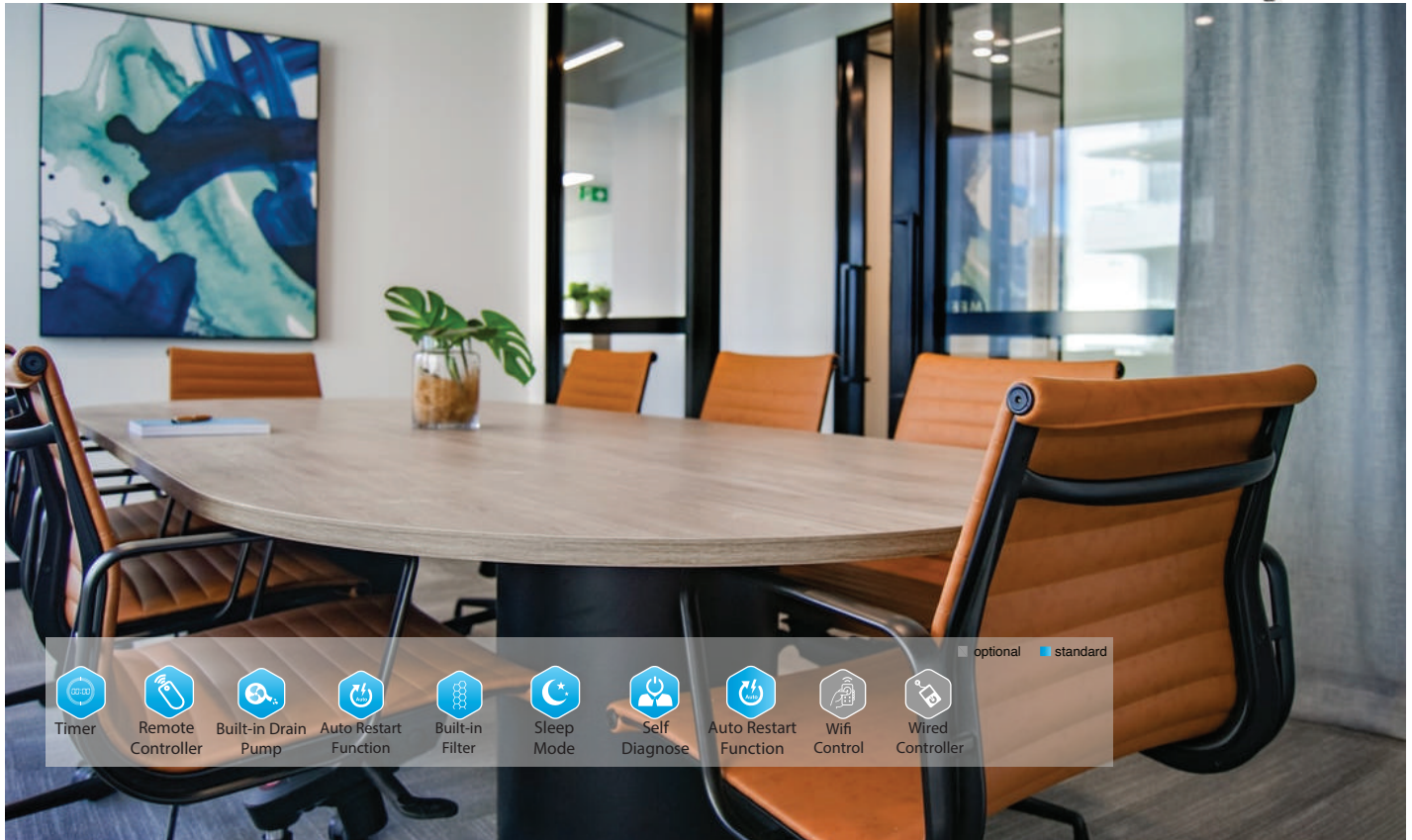
Unit Model		Indoor	SCTAT-18CWN1	SCTBT-24CWN1	SCTBT-30CWN1	SCCAT-36CRN1	SCCAT-48CRN1	SCCAT-60CRN1	
		Outdoor	SCOUT-18CN1	SCOUT-24CN1	SCOUT-30CN1	SCOUT-36CN1	SCOUT-48CN1	SCOUT-60CN1	
Power Supply		V,Hz,Ph	220-240V/ 50Hz/ 1Ph				380-415V/ 50Hz/ 3Ph		
Cooling	Capacity (T1/T3)	Btu/h	18000 / 16000	24000 / 21000	3000 / 27000	36000 / 32000	48000 / 42500	58000 / 51500	
		Kw	5.3 / 4.7	7.03 / 6.15	8.79 / 7.91	10.55 / 9.32	14.06 / 12.45	17.0 / 15.12	
	Power Input (T1/T3)	Kw	1.85 / 2.21	2.54 / 2.68	3.13 / 3.59	3.7 / 4.46	4.75 / 5.50	5.95 / 6.55	
	Current (T1/T3)	A	8.5 / 10.1	11.3 / 11.7	13.9 / 15.6	16.5 / 19.7	9.5 / 10.2	11.9 / 12.8	
	EER (T1/T3)	(Btu/h)/W	9.8 / 7.72	9.56 / 7.85	9.59 / 7.52	9.73 / 7.17	10.1 / 7.75	9.75 / 7.85	
Indoor Unit	Controller	Type	Wired Controller						
	Air Flow (H/M/L)	m ³ /h	1200/900/650	1600/1500/1300	1800/1600/1450	2400/1900/1500	2500/2000/1600	2500/2000/1600	
	Noise Level (H/M/L)	dB(A)	42/37/32	48/44/40	50/45/40	50/45/40	54/48/44	54/48/44	
	ESP	Pa	20	30	30	30	30	30	
	Net Dimension (WxHxD)	mm±5	1015x210x467	1190x260x643	1190x260x643	1425x260x643	1425x260x643	1425x260x643	
	Packing Dimension	mm±5	1110x240x510	1255x325x720	1255x325x720	1490x325x720	1490x325x720	1490x325x720	
	Weight (Net/ Gross)	Kg	21 / 25	32 / 36	32 / 36	28 / 33.5	31 / 35	31 / 35	
	Drainage Pipe	mm	25	25	25	25	30	30	
Outdoor Unit	Compressor	Type	Rotary						
	Refrigerant/ Flow Control	Type	R-410a / Outdoor Capillary Tube						
	Noise Level	dB(A)	55	57	58	60	60	60	
	Net Dimension (WxHxD)	mm±5	850x555x345	914x702x382	914x702x382	1015x810x445	911x1330x400	911x1330x400	
	Packing Dimension	mm±5	915x600x380	975x770x420	975x770x420	1075x875x495	965x1445x405	965x1445x405	
	Weight (Net/ Gross)	Kg	41.5 / 45	50 / 53	56 / 59	63 / 68	96 / 106	96 / 106	
	Connection	Liquid	mm, in	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Pipe Size	Gas	mm, in	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Stuffing Quantity (20/40/40H)	Set		45/104/122	45/98/112	41/94/108	40/70/84	27/54/54	27/54/54	

Note:

- The Above design and specification are subject to change without prior notice.
- Cooling conditions; T1: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 35°C Db.
T3: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 46°C Db.

Cassette Units

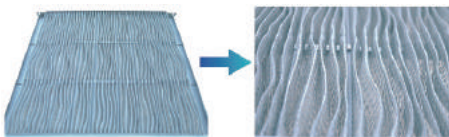
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Hi-Tech Airconditioning



Indoor Cassette Unit

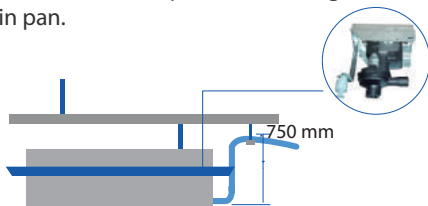
Long Term Filter >>

► The long-term air filter ensures better air quality and decreases the cleaning frequency.



Built-in Drain Pump >>

► All units come with standard built-in drain pump that can lift drain water up to 750mm height from the drain pan.



Fresh Air Intake >>

► Fresh Air makes indoor air healthy and comfortable.



Wifi Control >>

► The optional WiFi modular makes it possible to monitor & control your AC while on the road through APP on your mobile phone or ipad.

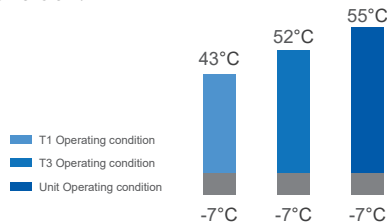


Cassette Units

Outdoor Side Discharge

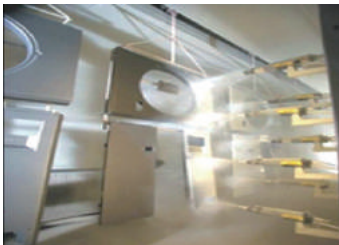
Up to 55°C Running >>

► Enjoy excellent performance even under ambient temperature up to 55°C, suitable for T3 operating condition.



Double Anti-Corrosion Technology >>

► Galvanized metal with world-class powder spraying technology can improve the anti-corrosion ability of the housing of outdoor units three times, especially in salty, moist surroundings.



Multiple Protection >>

► Hi pressure protection, Low Pressure protection, compressor overloading protection, high ext. temp. protection, phase protection (Phase-loss, phase-reverse), Over-heating protection, anti-freezing protection, sensor failure alarm, failure code display and etc. The compressor could run reasonable operation range.



Specification



T3, High Efficiency, R-410a

Unit Model	Indoor Outdoor	SACAT-18CRN1-Q	SACAT-24CRN1-Q	SACAT-30CRN1-Q	SACAT-36CRN1-Q	SACAT-48CRN1-Q		
		SAOUT-18CN1-Q	SAOUT-24CN1-Q	SMOUT-30CN1-Q	SAOUT-36CN1-Q	SAOUT-48CN1-R		
Power Supply	V, Hz, Ph	220-240V/ 50Hz/ 1Ph				380-415V/ 50Hz/ 3Ph		
Cooling	Capacity (T1/T3)	Btu/h	17500/15200	23500/20500	28000/24500	32500/29200	44500/38300	
		Kw	5.13/4.45	6.68/6.01	8.21/7.18	9.52/8.56	13.04/11.22	
	Power Input (T1/T3)	Kw	1.48/1.78	1.96/2.35	2.40/2.90	2.78/3.42	3.80/4.58	
	EER (T1/T3)	(Btu/H)/W	11.82/8.54	11.99/8.72	11.67/8.45	11.69/8.54	11.71/8.36	
	Controller	Type	Wireless Remote (Wired Controller - Optional)					
Indoor Unit	Air Flow (H/M/L)	m ³ /h	1000/800/670	1400/1100/950	1650/1300/1100	1800/1450/1250	2000/1800/1600	
	Noise Level (H/M/L)	dB(A)	43/40/38	48/43/40	50/47/44	51/48/45	55/51/48	
	Net Dimension (WxHxD)	mm±5	835/250/835	835/250/835	835x290x835	835/290x835	835x290x835	
	Packing Dimension	mm±5	910x310x910	910x310x910	910x350x910	910x350x910	910x350x910	
	Weight (Net/ Gross)	Kg	24/29	25/30	28/33	28/33	31/36	
	Drainage Pipe (OD)	mm	DN20	DN20	DN20	DN20	DN20	
Panel	Net (Panel)	mm±5	950x55x950					
	Packing (Panel)	mm±5	1000x100x1000					
	Net/Gross (Panel)	Kg	5.3/7.8					
	Compressor	Type	Rotary	Rortary	Rotary	Rotary	Scroll	
	Refrigerant/ Flow Control	Type	R-410a / Outdoor Capillary Tube					
Outdoor Unit	Noise Level	dB(A)	58	60	61	61	62	
	Net Dimension (WxHxD)	mm±5	800x530x286	888x699x318	888x699x318	970x803x395	940x1366x368	
	Packing Dimension	mm±5	920x620x400	1020x770x430	1020x770x430	1105x895x495	1080x1500x460	
	Weight (Net/ Gross)	Kg	39/42	49/53	55/59	68/73	101/117	
	Connection	Liquid	mm, in	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Pipe Size	Gas	mm, in	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)
	Stuffing Quantity (20/40/40H)	Set	39/81/95	31/68/76	31/68/76	24/48/54	22/44/54	

Note:

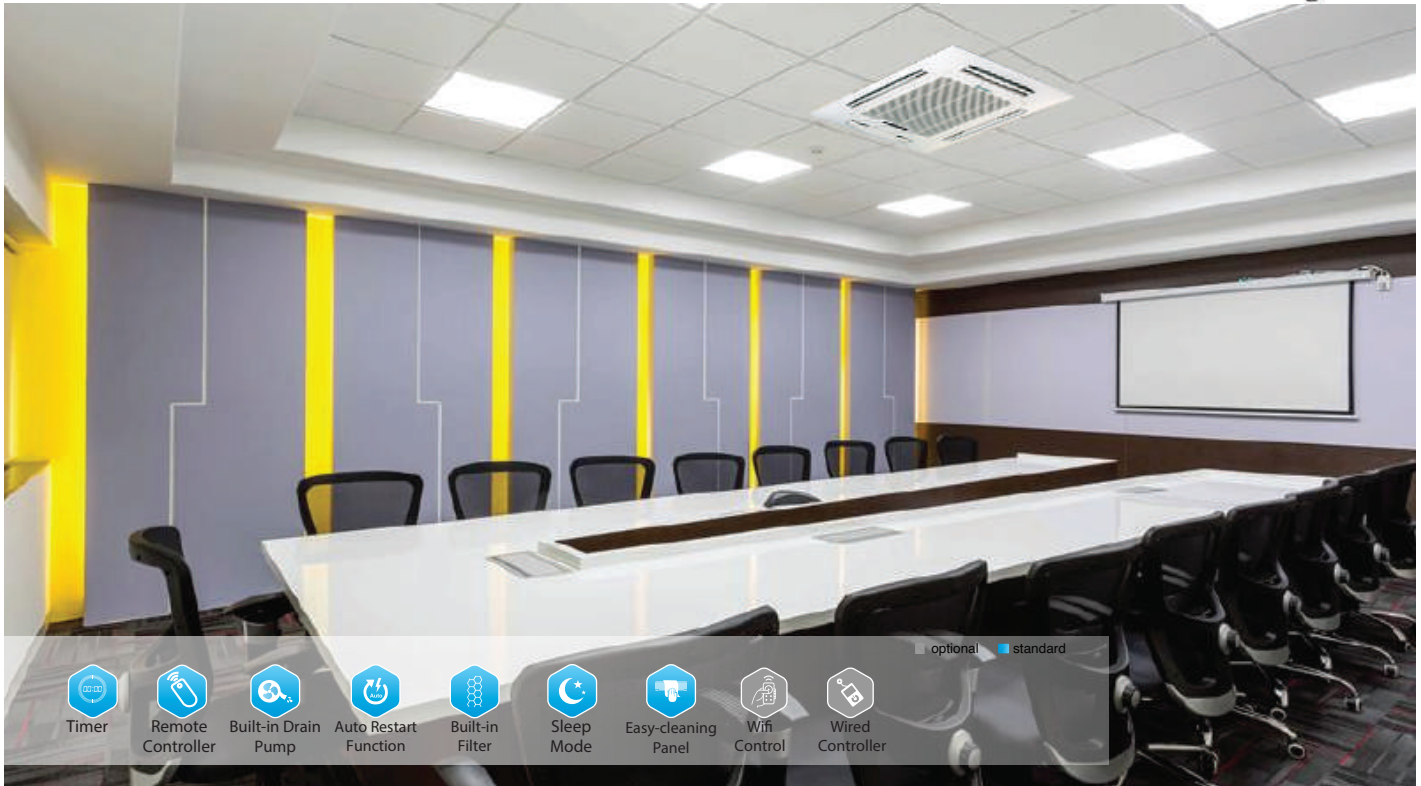
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2. Cooling conditions; T1: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 35°C Db.

T3: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 46°C Db.

Standard Cassette Units

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Hi-Tech Airconditioning



Timer



Remote Controller



Built-in Drain Pump



Auto Restart Function



Built-in Filter



Sleep Mode



Easy-cleaning Panel



Wifi Control



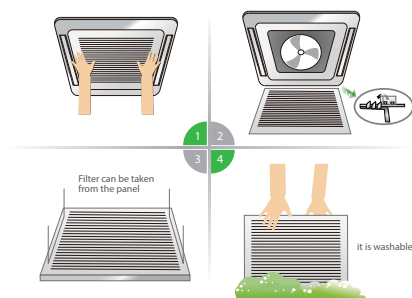
Wired Controller

optional standard

Indoor Cassette Unit

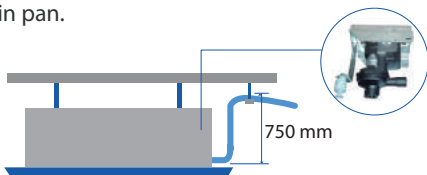
Filter >>

► Washable Filter, Convenient installation and maintenance



Built-in Drain Pump >>

► All units come with standard built-in drain pump that can lift drain water up to 750mm height from the drain pan.



Fire Resistance Elec. Box >>

► Fire resistance design box to enhance elec. safety with maintenance friendly & the E-Box is Galvanized Steel built in body.

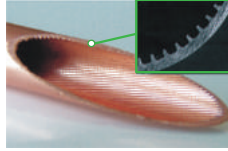


Standard Cassette Units

Outdoor Side Discharge

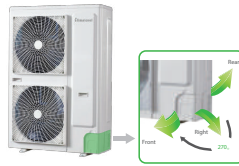
Fins & Coil >>

► Provide hydrophilic aluminum foil and inner grooved copper pipe to enhance the heat exchange performance.



Convenient Installation >>

► Multi-direction piping connection meets different requirements & convenient installation.



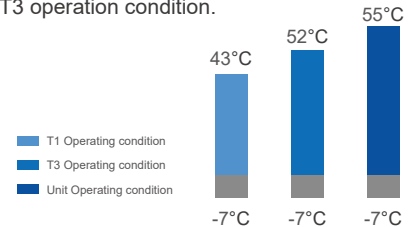
Easy Maintenance >>

► External globe valve and wiring port to make it easier for installation & maintenance.



Up to 55°C Running >>

► Enjoy excellent performance even under ambient temperature up to 55°C, suitable for T3 operation condition.



Specification



T3, Std. Efficiency, R-410a

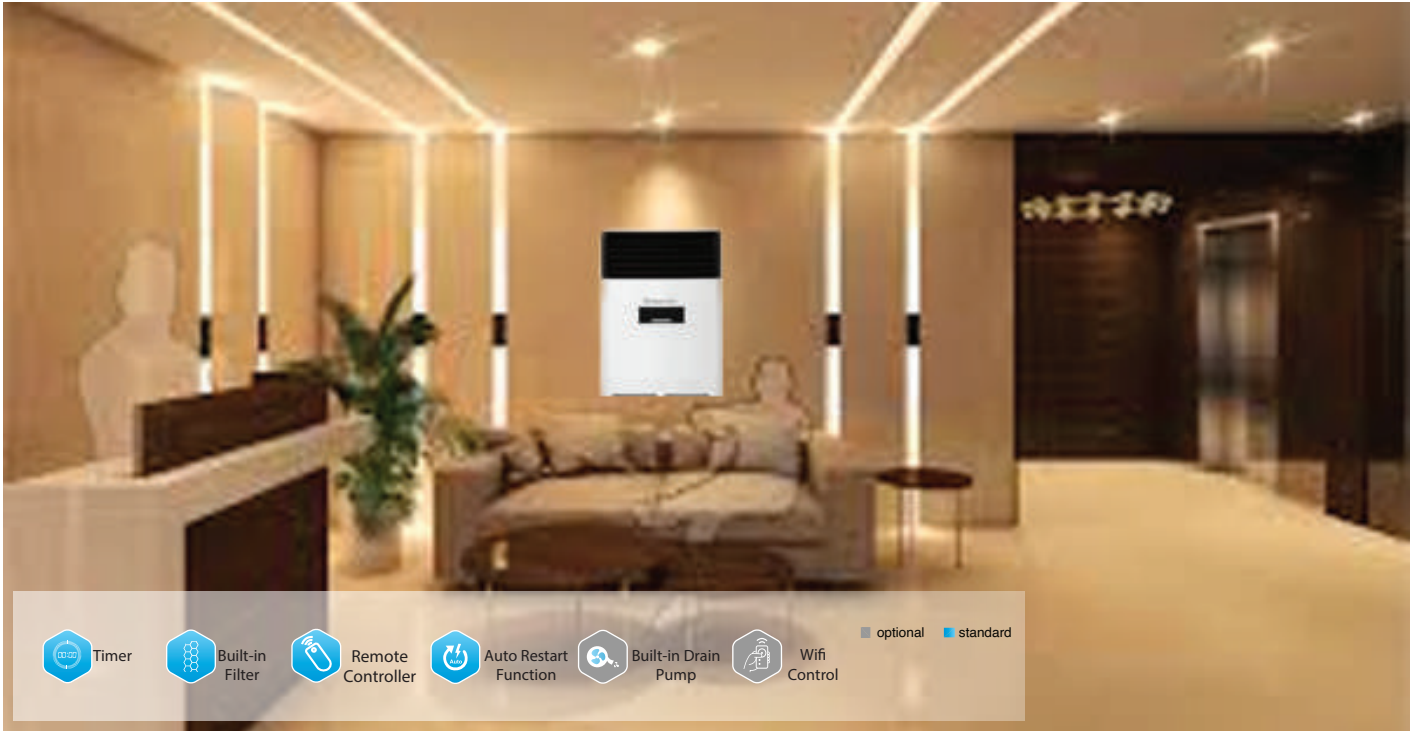
Unit Model	Indoor Outdoor	SCCBT-18CRN1	SCCAT-24CRN1	SCCAT-30CRN1	SCCAT-36CRN1	SCCAT-48CRN1	SCCAT-60CRN1		
		SCOUT-18CN1	SCOUT-24CN1	SCOUT-30CN1	SCOUT-36CN1	SCOUT-48CN1	SCOUT-60CN1		
Power Supply	V,Hz,Ph	220-240V/ 50Hz/ 1Ph				380-415V/ 50Hz/ 3Ph			
Cooling	Capacity (T1/T3)	Btu/h	17500 / 15000	24000 / 21000	3000 / 27000	36000 / 32000	48000 / 42500	58000 / 51500	
		Kw	5.1 / 4.4	7.03 / 6.15	8.79 / 7.91	10.55 / 9.3	14.0 / 12.45	17.0 / 15.05	
	Power Input (T1/T3)	Kw	1.77 / 2.05	2.54 / 2.68	3.13 / 3.59	3.7 / 4.46	4.75 / 5.5	5.95 / 6.55	
	Current (T1/T3)	A	8.5 / 9.5	11.3 / 11.7	13.9 / 15.9	16.5 / 19.7	9.5 / 10.2	11.9 / 12.8	
EER (T1/T3)	(Btu/H)/W	9.61 / 7.32	9.56 / 7.85	9.59 / 7.52	9.73 / 7.17	10.1 / 7.75	9.75 / 7.85		
Indoor Unit	Controller	Type	Wireless Remote (Wired Controller - Optional)						
	Air Flow (H/M/L)	m ³ /h	800/650/450	1300/1100/850	1300/1100/850	1700/1500/1300	2000/1650/1400	2000/1650/1400	
	Noise Level (H/M/L)	dB(A)	48/42/36	50/47/44	50/47/44	54/48/44	54/48/44	54/48/44	
	ESP	Pa	-	-	-	-	-	-	
	Net Dimension (WxHxD)	mm±5	580x260x580	840x230x840	840x230x840	840x230x840	840x230x840	840x230x840	
	Packing Dimension	mm±5	755x680x375	920x265x920	920x265x920	920x265x920	920x265x920	920x265x920	
	Weight (Net/ Gross)	Kg	16.5 / 22	24 / 29	24 / 29	28 / 33.5	31 / 35	31 / 35	
	Drainage Pipe	mm	25	25	25	25	25	25	
Panel	Net (Panel)	mm±5	650x40x650	950x50x950	950x50x950	950x50x950	950x50x950	950x50x950	
	Packing (Panel)	mm±5	750x95x750	1030x105x1030	1030x105x1030	1030x105x1030	1030x105x1030	1030x105x1030	
	Net/Gross (Panel)	Kg	2.7 / 4.0	5.4 / 8	5.4 / 8.0	5.4 / 8.0	5.4 / 8	5.4 / 8.0	
Outdoor Unit	Compressor	Type	Rotary						
	Refrigerant/ Flow Control	Type	R-410a / Outdoor Capillary Tube						
	Noise Level	dB(A)	55	57	58	60	60	60	
	Net Dimension (WxHxD)	mm±5	850x555x345	914x702x382	914x702x382	1015x810x445	911x1330x400	911x1330x400	
	Packing Dimension	mm±5	915x600x380	975x770x420	975x770x420	1075x875x495	965x1445x405	965x1445x405	
	Weight (Net/ Gross)	Kg	41.5 / 45	50 / 53	56 / 59	63 / 68	96 / 106	96 / 106	
	Connection	Liquid	mm, in	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
Pipe Size	Gas	mm, in	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	
Stuffing Quantity (20/40/40H)	Set		43/89/103	43/89/103	43/89/103	43/89/103	27/72/80	25/55/64	

Note:

1. The Above design and specification are subject to change without prior notice.
2. Cooling conditions; T1: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 35°C Db.
T3: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 46°C Db.

Standard Free-Standing Units

Climatcool U.S.A.
Hi-Tech Airconditioning

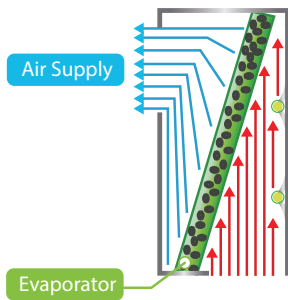


-  Timer
 -  Built-in Filter
 -  Remote Controller
 -  Auto Restart Function
 -  Built-in Drain Pump
 -  Wifi Control
- optional ■ standard

Indoor Free-Standing Unit

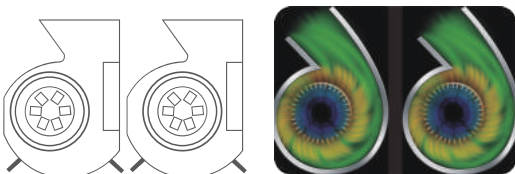
Evaporator Air Flow >>

► New Air Flow System with incline evaporator, having large heat-exchanger area in limited space, suction structure, faster heat exchanger.



Blower >>

► Centrifugal Fan Blade, Double CFD technology design, increasing air flow and decreasing noise level.

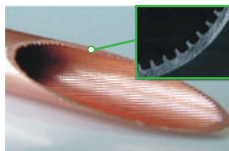


Standard Free-Standing Units

Outdoor Side Discharge

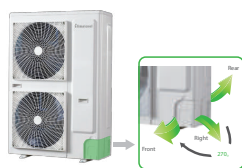
Fins & Coil >>

- Provide hydrophilic aluminum foil and inner grooved copper pipe to enhance the heat exchange performance.



Convenient Installation >>

- Multi-direction piping connection meets different requirements & convenient installation.



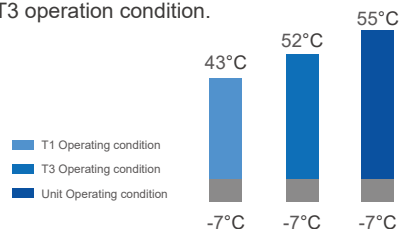
Easy Maintenance >>

- External globe valve and wiring port to make it easier for installation & maintenance.



Up to 55°C Running >>

- Enjoy excellent performance even under ambient temperature up to 55°C, suitable for T3 operation condition.



T3, Std. Efficiency, R-410a

Unit Model		Indoor Outdoor	SCFAT-48CRN1 SCOUT-48CN1	SCFAT-60CRN1 SCOUT-60CN1	
Power Supply		V,Hz,Ph	380-415V/ 50Hz/ 3Ph		
Cooling	Capacity (T1/T3)	Btu/h	48000 / 42500	58000 / 51500	
		Kw	14.06 / 12.45	17.0 / 15.12	
	Power Input (T1/T3)	Kw	4.75 / 5.50	5.95 / 6.55	
	Current (T1/T3)	A	9.5 / 10.2	11.9 / 12.8	
	EER (T1/T3)	(Btu/H)/W	10.1 / 7.75	9.75 / 7.85	
Indoor Unit	Controller	Type	Wireless Remote		
	Air Flow (H/M/L)	m ³ /h	2200/1950/1700	2500/1950/1700	
	Noise Level (H/M/L)	dB(A)	44/44/40	52/44/40	
	ESP	Pa	-	-	
	Net Dimension (WxHxD)	mm±5	742x1804x453	742x1804x453	
	Packing Dimension	mm±5	775x1930x540	775x1930x540	
	Weight (Net/ Gross)	Kg	82 / 89.5	88 / 95.4	
	Drainage Pipe	mm	30	30	
Outdoor Unit	Compressor	Type	Rotary		
	Refrigerant/ Flow Control	Type	R-410a / Outdoor Capillary Tube		
	Noise Level	dB(A)	60	60	
	Net Dimension (WxHxD)	mm±5	911x1330x400	911x1330x400	
	Packing Dimension	mm±5	965x1445x405	965x1445x405	
	Weight (Net/ Gross)	Kg	96 / 106	96 / 106	
	Connection	Liquid	mm, in	9.52 (3/8)	9.52 (3/8)
	Pipe Size	Gas	mm, in	19.05 (3/4)	19.05 (3/4)
Stuffing Quantity (40H)		Set	33	33	

Note:

1. The Above design and specification are subject to change without prior notice.
2. Cooling conditions; T1: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 35°C Db.
T3: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 46°C Db.

Rooftop Packaged Units

Climatcool U.S.A.
Hi-Tech Airconditioning



4.0 - 15.0 Ton



17.5 & 20 Ton



25.0 & 30.0 Ton

Design Flexibility >>

- ▶ Compact design.
- ▶ Flanges of air flow inlet and outlet as standard.
- ▶ It is suitable for installation in rooftop and ground.



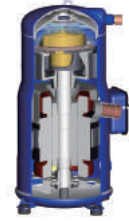
Design Flexibility >>

- ▶ Pre-painted exterior cabinet panels pass 1000Hrs. Salt Spray test for durability.
- ▶ Weather-resistant construction w/ capped steams & sloped top panels.
- ▶ G90 Galvanized heavy gauge plate conforming to ASTM-A-653.



Reliable Scroll Compressor >>

- ▶ Famous brand compressor: Copeland, Danfoss & Hitachi.
- ▶ No complex internal suction & discharge valves for quieter operation & higher reliability.
- ▶ Compact, light-weight design, & fewer moving parts design.



Multi-protection Design >>

- ▶ Multi-measurement to ensure units operate normally & reliability: System Current Protection, High/ Low pressure switch protection, temperature sensor on/off protection, etc.
- ▶ Three-phase protection can be customized.



HP/LP switch



Temperature sensor

Rooftop Packaged Units



Specification

Unit Model		SMRCT-48CWN-R(C)	SMRCT-60CWN-R(C)	SMRCT-62CWN-R(C)	SMRCT-075CWN-R(D)	
Power Supply		V,Hz,Ph 380-415V/ 50Hz/ 3Ph				
Cooling	Capacity (T1/T3)	Btu/h	48000/38908	58000/47782	75000/61433	89000/69625
		Kw	14.1/11.4	17.0/14.0	22.0/18.0	26.1/20.4
	Power Input (T1/T3)	Kw	4.1/4.77	4.99/5.87	6.4/7.4	7.6/8.5
	EER (T1/T3)	(Btu/H)/W	11.7/8.1	11.6/8.1	11.7/8.3	11.7/8.2
	Controller	Type	Wired Controller (KJR-12B/dP(T)-E			
Fans	Air Flow (H/M/L)	cfm	1750	2000	2800	2830
	ESP	Pa	75	75	80	80
	Indoor Fan (Drive Type / Qty.)		Direct / 1	Direct / 1	Direct / 1	Direct / 1
	Outdoor Fan (Drive Type / Qty)		Direct / 1	Direct / 1	Direct / 1	Direct / 1
Compressor	Compressor	Type	Scroll	Scroll	Scroll	Scroll
		Brand	Copeland	Copeland	Copeland	Danfoss
		Qty.	1	1	1	1
	Refrigerant/ Flow Control	Type	R-410a / Orifice			
Others	Net Dimension (WxHxD)	mm±5	1310x840x900	1310x840x900	1475x840x1130	1475x840x1130
	Packing Dimension	mm±5	1332x865x935	1332x865x935	14975x867x1152	1492x1248x1146
	Weight (Net/ Gross)	Kg	223/228	231/236	223/228	231/236
Stuffing Quantity (20/40/40H)	Pcs.	22/?/64	22/?/64	12/24/1948	12/24/48	
Unit Model		SMRCT-85CWN-R(C)	SMRCT-100CWN-R(C)	SMRCT-125CWN-R(C)	SMRCT-150CWN-R(C)	
Power Supply		V,Hz,Ph 380-415V/ 50Hz/ 3Ph				
Cooling	Capacity (T1/T3)	Btu/h	103000/80887	120000/100341	15000/125400	180000/146000
		Kw	30.2/23.7	35.2/29.4	44.0 / 36.8	52.8 / 42.8
	Power Input (T1/T3)	Kw	8.8/10.0	10.3/12.3	13.0 / 15.5	15.9 / 18.5
	EER (T1/T3)	(Btu/H)/W	11.7/8.1	11.7/8.2	11.5 / 8.1	11.3 / 7.9
	Controller	Type	Wired Controller (KJR-12B/dP(T)-E			
Fans	Air Flow (H/M/L)	cfm	3500	4100	5500	7000
	ESP	Pa	80	90	110	110
	Indoor Fan (Drive Type / Qty.)		Belt / 1	Belt / 1	Belt / 1	Belt / 1
	Outdoor Fan (Drive Type / Qty)		Direct / 1	Direct / 1	Direct / 1	Direct / 1
Compressor	Compressor	Type	Scroll	Scroll	Scroll	Scroll
		Brand	Copeland	Copeland	Copeland	Copeland
		Qty.	1	1	2	2
	Refrigerant/ Flow Control	Type	R-410a / Orifice			
Others	Net Dimension (WxHxD)	mm±5	1483x1138x1231	1483x1138x1231	1965x1230x1130	1965x1230x1130
	Packing Dimension	mm±5	1492x1248x1146	1492x1248x1146	1990x1260x1140	1990x1260x1140
	Weight (Net/ Gross)	Kg	302/313	323/335	433 / 453	470 / 490
Stuffing Quantity (20/40/40H)	Pcs.	8/16/32	8/16/32	6/12/24	6/12/24	
Unit Model		SMRCT-175CWN-R(C)	SMRCT-200CWN-R(D)	SMRCT-250CWN-R(D)	SMRCT-300CWN-R(D)	
Power Supply		V,Hz,Ph 380-415V/ 50Hz/ 3Ph				
Cooling	Capacity (T1/T3)	Btu/h	208000/184000	240000/199800	300000/251700	360000/336300
		Kw	61.0 / 539.	70.3 /58.6	87.9 / 73.8	105.5 / 98.6
	Power Input (T1/T3)	Kw	18.4 / 22.8	21.6 / 25.1	27.5 / 32.4	33.3 / 42.6
	EER (T1/T3)	(Btu/H)/W	11.3 / 8.1	11.1 / 8.0	10.9 / 7.8	10.8 / 7.9
	Controller	Type	Wired Controller (KJR-12B/dP(T)-E			
Fans	Air Flow (H/M/L)	cfm	7600	8800	10000	12000
	ESP	Pa	110	120	130	270
	Indoor Fan (Drive Type / Qty.)		Belt / 1	Belt / 1	Belt / 1	Belt / 1
	Outdoor Fan (Drive Type / Qty)		Direct / 2	Direct / 2	Direct / 2	Direct / 2
Compressor	Compressor	Type	Scroll	Scroll	Scroll	Scroll
		Brand	Copeland	Copeland	Danfoss	Danfoss
		Qty.	2	2	2	2
	Refrigerant/ Flow Control	Type	R-410a / Orifice			
Others	Net Dimension (WxHxD)	mm±5	2192x1247x1670	2192x1247x1670	2220x1245x2320	2220x1245x2320
	Packing Dimension	mm±5	2212x1284x1695	2212x1284x1695	2230x1275x2330	2230x1275x2330
	Weight (Net/ Gross)	Kg	590 / 620	670 / 700	895 / 925	910 / 940
Stuffing Quantity (20/40/40H)	Pcs.	3/7/14	3/7/14	2/5/10	2/5/10	

Note:

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- Cooling conditions; T1: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 35°C Db.
T3: Indoor air temp.27°C DB/19°C WB, Outdoor air temp. 46°C Db.

3. Made in Malaysia & China are available

Air Cooled Modular Chiller

Climatcool U.S.A.
Hi-Tech Airconditioning



25Kw-30Kw



60Kw



120Kw



180Kw



250Kw

Features

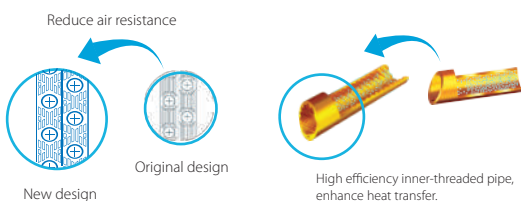
Wide Application Range >>

- ▶ The cooling capacity ranging from 25Kw to 250Kw and combination model's maximum capacity up to 2000Kw.



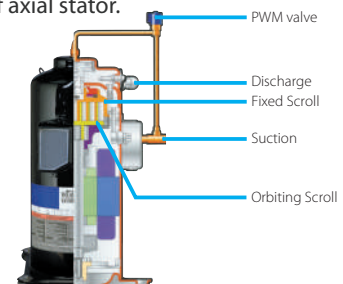
High performance Heat Exchanger >>

- ▶ New designed window fins enlarge the heat-exchanging area, decrease the air resistance, save more power & enhance heat exchange performance.



Advance Technology >>

- ▶ The digital scroll compressor utilize axial complaint sealing technology to precisely adjust the axial motion range of the stator scroll pan and there is an additional connecting by-pass between the suction inlet and pressure bore at the floating sealing point of axial stator.



- ▶ Provides 10% - 100% stepless capacity output to precisely control room temp.
- ▶ Less electromagnetic interference, no EMC problem.

Air Cooled Modular Chiller



Specification

Model			SMGBT-F25W/RN1	SMGBT-D25W/RN1	SMGBT-F30W/RN1	SMGBT-D30W/RN1
Power Supply		V/Ph/ Hz	380-415/3/50			
Capacity	Cooling (T1/T3)	Kw	28.0/24.9	28.0/24.9	30.0/25.8	30.0/25.8
	Heating	Kw	29.5	29.5	32	32
Power Input	Cooling (T1/T3)	Kw	9.3/11.16	9.3/11.6	10.0/12.0	10.0/12.0
	Heating	Kw	9.2	9.2	9.8	9.8
T1 EER/COP			3.01/3.21	3.01/3.21	3.00/3.27	3.00/3.27
Refrigerant Type			R-410a			
Comp ressor	Type*		F	D+F	F	D+F
	Qty.	Pcs.	2	1+1	2	1+1
Water Side Heat Exchange	Type	Double Pipe Heat Exchanger				
	Water Flow	m ³ /h	4.8	4.8	5.2	5.2
	Pressure Drop	Kpa	60	60	60	60
	Connection Pipe		DN40			
Air Side Heat Exchanger	Type	Fin-Coil Heat Exchanger				
	Fan Type/ Qty.		Axial / 1			
	Air Flow	m ³ /h	12000			
	Fan Motor Input	Kw	0.4			
Others	Noise Level	dB (A)	65			
	Net Dimension (WxHxD)	mm	1514x1865x841			
	Packaing (WxHxD)	mm	1590x2065x995			
	Net/ Operation Weight	Kg	380/420			
	Loading Qty.(20'/40HQ)	Pcs.	6/14			

Model			SMGBT-F60W/RN1	SMGBT-D60W/RN1	SMGBT-F120W/RN1	SMGBT-F180W/RN1	SMGBT-F250W/RN1
Power Supply		V/Ph/ Hz	380-415/3/50				
Capacity	Cooling (T1/T3)	Kw	60.0/51.6	60.0/51.6	120.0/103.2	180.0/155.8	250.0/216.0
	Heating	Kw	64	65	128	195	270
Power Input	Cooling (T1/T3)	Kw	19.3/23.16	19.4/23.28	38.5/46.2	57.9/58.5	78.3/86.3
	Heating	Kw	19.8	20.4	41.5	59.4	80
T1 EER/COP			3.11/3.23	3.09/3.19	3.12/3.08	3.11/3.28	3.19/3.38
Refrigerant Type			R-410a				
Comp ressor	Type*		F	D+F	F	F	D+F
	Qty.	Pcs.	2	1+2	4	6	6
Water Side Heat Exchange	Type	Shell and Tube Heta Exchanger					
	Water Flow	m ³ /h	10.3	10.3	22.4	31	43
	Pressure Drop	Kpa	15	15	25	30	40
	Connection Pipe		DN100	DN100	DN65	DN80	DN100
Air Side Heat Exchanger	Type	Fin-Coil Heat Exchanger					
	Fan Type/ Qty.		Axial / 2	Axial / 2	Axial / 4	Axial / 6	Axial / 8
	Air Flow	m ³ /h	24000	24000	48000	72000	96000
	Fan Motor Input	Kw	0.7x2	0.55x2	0.7x4	0.7x6	0.7x8
Others	Noise Level	dB (A)	65	67	70	74	74
	Net Dimension (WxHxD)	mm	2000x1880x900	2000x1880x900	2000x2090x1685	2850x2110x2000	2850x2110x2000
	Packaing (WxHxD)	mm	2090x2055x985	2090x2055x985	2090x2240x1755	2980x2260x2135	2980x2260x2135
	Net/ Operation Weight	Kg	580/650	600/670	1150/1270	1730/2000	2450/2600
	Loading Qty.(20'/40HQ)	Pcs.	5/11	5/11	3/6	1/3	1/3

Note:

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2. Cooling conditions; T1: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 35°C Db.
T3: Indoor air temp.27°C DB/19°C WB, Outdoor air temp. 46°C Db.

Large Split Units

Climatcool U.S.A.
Hi-Tech Airconditioning



Conventional split A/C series

Indoor Large Duct

- Timer
 - Auto Restart Function
 - Auto Defrosting
 - Independent Dehumidification
 - Anti-Cold Air Funtion
 - PTC Heater
 - Wired Controller
- optional ■ standard

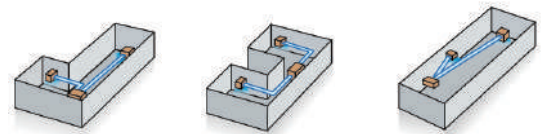
Convenient installation >>

- ▶ Compact design, Concealed installation without floor space requirement.
- ▶ Hidden in the ceiling, unit installation is not hindered by the location of lighting fixtures or room structure.
- ▶ Air inlet & outlet flange are standard for easy duct connection.
- ▶ Easy maintenance through the inspection port.



Free air duct design >>

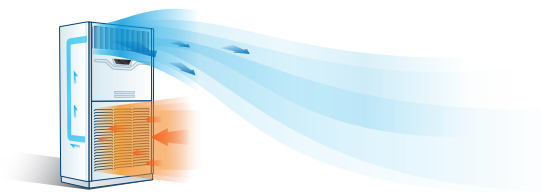
- ▶ Multi diffuser from one indoor unit, air-conditioned multi rooms at the same time.
- ▶ Three speeds of air supply can be chosen via controller.
- ▶ The indoor unit is suitable for various applications where there are many rooms or halls, such as restaurant, concert halls and hotels.
- ▶ Flexible duct design for different room styles.



Indoor Free-Standing Unit

- Timer
 - Auto Restart Function
 - Auto Defrosting
 - Independent Dehumidification
 - Anti-Cold Air Funtion
 - PTC Heater
- optional ■ standard

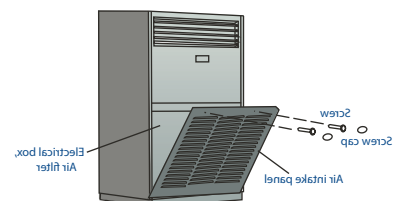
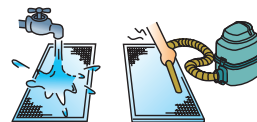
Strong wing, long distance air supply >>



Touch screen control >>



Washable inlet filter >>



Large Split Units

Specification Ducted



6 & 8 Ton



10 Ton

T3, High Efficiency, R-410a

Unit Model		Indoor Outdoor	SMTA-76CRN1 SMOV-76CN1-C	SMTB1TA-96CWN1 SMOV-96CN1-C	SMTA-120CRN1 SMOV-120CN1-C	SMTA-150CRN1 SMOV-76CN1-C/2
Power Supply		V,HZ,Ph	380-415V/ 50Hz/ 3Ph			
Cooling	Capacity (T1/T3)	Btu/h	75100/64100	96000/80523	119400/102400	150100/130300
		Kw	22.0/18.8	28.0/23.6	35.0/30.0	44.0/38.2
	Power Input (T1/T3)	Kw	6.40/7.80	8.18/9.81	10.28/12.62	12.9/16.29
	EER (T1/T3)	(Btu/H)/W	11.7/8.2	11.7/8.2	11.6/8.1	11.6/8.0
Indoor Unit	Controller	Type	Wireless Controller	Wired Controller	Wireless Controller	
	Air Flow (Hi)	m ³ /h	4250	5100	6375	7650
	Noise Level (H/M/L)	dB(A)	58	56	63	79
	ESP	Pa	100	100	150	150
	Net Dimension (WxHxD)	mm±5	1443x450x846	1452x462x797	1988x669x906	1988x669x906
	Packing Dimension	mm±5	1549x476x917	1555x500x875	2095x800x964	2095x800x964
	Weight (Net/ Gross)	Kg	108/120	97/109	188/220	188/200
	Fan Type/Drive Type		Centrifugal/ Direct			
	Compressor	Type	Scroll			
	Refrigerant/ Flow Control	Type	R-410a / Capillary			
Outdoor Unit	Net Dimension (WxHxD)	mm±5	1260x908x700			
	Packing Dimension	mm±5	1320x1060x730			
	Weight (Net/ Gross)	Kg	171/190	185/202	199/215	342/380
	Connection Liquid	mm, in	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	9.52 (3/8)*2
	Pipe Size Gas	mm, in	22 (7/8)	25 (1)	15.88 (1-1/8)	22 (7/8)*2
	Stuffing Quantity (20'/40'H)	Set	13/30	13/30	8/20	4/15

Specification Free- Standing



T3, High Efficiency, R-410a

Unit Model		Indoor Outdoor	SMFA-76CRN1 SMOV-76CN1-C	SMFA-96CRN1 SMOV-96CN1-C	SMFA-120CRN1 SMOV-120CN1-C
Power Supply		V,HZ,Ph	380-415V/ 50Hz/ 3Ph		
Cooling	Capacity (T1/T3)	Btu/h	75100/64800	96000/80523	121000/110900
		Kw	22.0/19.0	28.0/23.6	35.0/32.5
	Power Input (T1/T3)	Kw	6.64/8.0	8.18/9.81	10.28/13.36
	EER (T1/T3)	(Btu/H)/W	11.6/8.10	11.7/8.20	11.6/8.30
Indoor Unit	Controller	Type	Wireless Remote Controller		
	Air Flow (Hi)	m ³ /h	4250	5100	6060
	Noise Level (H/M/L)	dB(A)	58	56	65
	ESP	Pa	-	-	-
	Net Dimension (WxHxD)	mm±5	1200x1860x518		
	Packing Dimension	mm±5	1362x2050x582		
	Weight (Net/ Gross)	Kg	158/174	140/154	148/174
	Fan Type/Drive Type		Centrifugal/ Direct		
	Compressor	Type	Scroll		
	Refrigerant/ Flow Control	Type	R-410a / Capillary		
Outdoor Unit	Net Dimension (WxHxD)	mm±5	1260x908x700		
	Packing Dimension	mm±5	1320x1060x730		
	Weight (Net/ Gross)	Kg	171/190	185/202	199/215
	Connection Liquid	mm, in	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)
	Pipe Size Gas	mm, in	22 (7/8)	25 (1)	15.88 (1-1/8)
	Stuffing Quantity (20'/40'H)	Set	13/30	13/30	8/20

Note:

1. The Above design and specification are subject to change without prior notice.

2. Cooling conditions; T1: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 35°C Db.

T3: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 46°C Db.

3. Made in Malaysia & China are available

Air Cooled Screw Chiller

Climatcool U.S.A.
Hi-Tech Airconditioning



Features

Environment Responsibility >>



- ▶ A more efficient chiller means less power consumption, which reduces greenhouse gas (CO₂) emissions.
- ▶ R-134a friendly refrigerant has no ozone-depletion potential.
- ▶ High efficiency, world class, sustainable and reliable performance.

Design Flexibility >>

- ▶ Six basic capacity module, wide array of module combination.
- ▶ Standard module for flexible stock and fast delivery.
- ▶ Field-coupled to meet large project tonnage requirements.
- ▶ Low initial investment and maintenance cost.

Lowest total cost of ownership >>

- ▶ Reliability, Low Risk of uncomfortable downtime.
- ▶ The best parts, Bitzer Comp. Danfoss EXV, & Schneider electric.



- ▶ World class testing facilities to ensure the performance & reliability.
- ▶ Each unit was extensively tested to verify its operational reliability & to insure a smooth startup.
- ▶ Serviceability, low maintenance costs.

Silent operation >>

- ▶ Large dimension impellers reduced speed causing less noise.
- ▶ The lower ambient temp., the lower fan air flow then reduce noise.
- ▶ Intelligent control logic balance the performance & working fan numbers to control the noise & power consumption.
- ▶ Super low noise model is optional.



Air Cooled Screw Sciller

Specification



Model		SLSBLGW380/C	SLSBLGW500/C	SLSBLGW600/C	SLSBLGW760/C	
Power Supply		V/Ph/ Hz 380-415/3/50				
Capacity	Cooling	Kw	376	496	594	756
	Power Input	Kw	124	159	187	246
EER/COP		3.03/3.93	3.12/4.02	3.17/3.94	3.07/4.12	
Refrigerant Type		R-134a				
Compressor	Type*	Semi-Hermetic, Twin Screw				
	Qty.	Pcs.	1	1	1	2
	Brand	Bitzer				
Water Side Heat Exchange	Type	Shell and Tube Heat Exchanger				
	Water Flow	m ³ /h	65.4	86	103.2	130.7
	Pressure Drop	Kpa	39	54	56	75
	Connection Pipe	Victaulic Coupling				
Air Side Heat Exchanger	Type	Fin-Coil Heat Exchanger				
	Fan Type/ Qty.		Axial / 6	Axial / 8	Axial / 10	Axial / 12
	Air Flow	m ³ /h	23000*6	23000*8	23000*10	23000*12
	Fan Motor Input	Kw	2.4*6	2.4*8	2.4*10	2.4*12
	Net Dimension (WxHxD)	mm	3810x2400x2280	4865x2400x2280	5800x2370x2280	7400x2370x2280
Net/ Operation Weight	Kg	3420/3640	4460/4770	5170/5510	6630/7080	
Loading Qty.(40'/40HQ)	Pcs.	3/3	3/3	3/3	1	
Model		SLSBLGW900/C	SLSBLGW1000/C	SLSBLGW1200/C	SLSBLGW1420/C	
Power Supply		V/Ph/ Hz 380-415/3/50				
Capacity	Cooling	Kw	902	996	1203	1419
	Power Input	Kw	285	318	381	466
COP/IPLV		3.16/3.94	3.13/4.01	3.157/4.26	3.04/3.80	
Refrigerant Type		R-134a				
Compressor	Type*	Semi-Hermetic, Twin Screw				
	Qty.	Pcs.	2	2	2	2
	Brand	Bitzer				
Water Side Heat Exchange	Type	Shell and Tube Heat Exchanger				
	Water Flow	m ³ /h	154.8	172	206.4	244.2
	Pressure Drop	Kpa	74	75	71	69
	Connection Pipe	Victaulic Coupling				
Air Side Heat Exchanger	Type	Fin-Coil Heat Exchanger				
	Fan Type/ Qty.		Axial / 14	Axial / 16	Axial / 20	Axial / 20
	Air Flow	m ³ /h	23000*14	23000*16	23000*20	23000*20
	Fan Motor Input	Kw	2.4*14	2.4*16	2.4*20	2.4*20
	Net Dimension (WxHxD)	mm	8800x2370x2280	9640x2370x2280	11700x2370x2280	11700x2400x2280
Net/ Operation Weight	Kg	7980/8600	9160/9760	9580/10350	10730/11640	
Loading Qty.(40'/40HQ)	Pcs.	1	1	1	1	

Note:

1. The Above design and specification are subject to change without prior notice.
2. Cooling conditions; T1: Indoor air temp. 27°C DB/19°C WB, Outdoor air temp. 35°C Db.

VRF Units

Climatcool U.S.A.
Hi-Tech Airconditioning

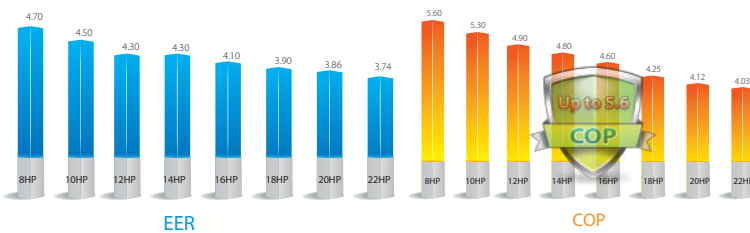
All DC Inverter VRF System



Features

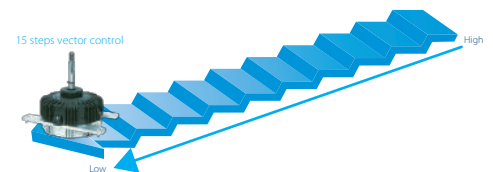
High EER & COP >>

► DC Compressor & Fan Motors together with high-eff. heat exchanger combine to give the V5X Series top-class energy effy. in cooling & heating.



All DC Fan Motor >>

► Fan Speed is controlled according to the system pressure and system load, minimizing energy consumption.



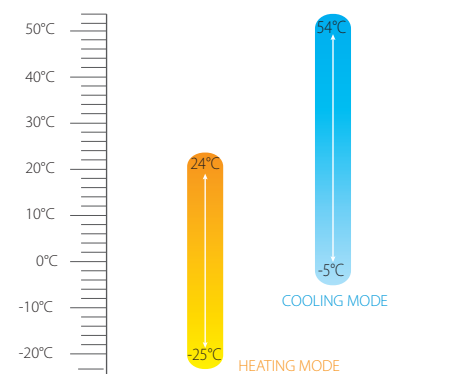
All DC Inverter Compressor >>

► At the heart of the V5X Series outdoor unit lies a world-leading DC inverter scroll compressor. The compressor's innovative design and numerous high performance features reduce power consumption by 25%.



Wide Operation Range >>

► The Units can operate stably in a wide ambient temp. range from -5°C to 54°C in cooling mode and from -25°C to 24°C in heating mode.



VRF Units

Wide Capacity Range >>

► The Units has an extensive range of capacity from 8HP to 88HP, meeting all customer requirements from small to large buildings.



8-22HP



22-24HP



46-66HP



68-88HP

Indoor Units Lineup Standard with AC or DC Motor for VRF

Kw			1.8	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0	56.0		
Cassette	One-Way Cassette		AC Series																					
	Two-way Cassette			AC Series																				
	Four way Cassette				AC Series																			
	Compact Four way Cassette				AC Series																			
Duct	Low Static Pressure		AC Series																					
	Medium Static Pressure			AC Series																				
										AC Series														
	High Static Pressure								AC Series						AC Series									
	Fresh Air Processing Unit																		AC Series					
Wall Mounted			AC Series																					
Floor-Ceiling				AC Series																				
Floor Standing		AC Series																						
Console		DC Series																						

■ AC Series
■ DC Series

Chilled Water Fan Coil Units

Climatcool U.S.A.
Hi-Tech Airconditioning



Cassette features >>

- ▶ Capacity range: 300CFM to 1500CFM, available in 2-pipe & 4-pipe.
- ▶ Units with PCB or without PCB are optional.
- ▶ 4-way air supply panel is standard for 4-way cassette, 360° air supply panel is standard for compact 4-way cassette.
- ▶ Unique design of the centrifugal fan ensures extra-quiet operation and high efficiency.
- ▶ Wireless remote control with LED display is Std., Wired control is optional.
- ▶ Safety Grill for safety maintenance.
- ▶ Built-in drain pump with high pumping head.
- ▶ Optional extended drainage pan for protecting your ceiling better.
- ▶ Four Speed motor with once reserved for more choice.
- ▶ Fresh Air supply makes life healthier and more comfortable.

Duct Features >>

- ▶ Capacity range: 200CFM to 2000CFM, available in 2-pipe & 4-pipe.
- ▶ Wide externa; static pressure supplying, three external static pressure (12Pa/30Pa/50Pa) setting for added flexibility.
- ▶ A patent design is able to prevent abnormal noise caused by blowing fins.
- ▶ Higher efficient heat exchange for complete contranantant flow.
- ▶ Safe factory installed electric heater is optional.
- ▶ Standard extended drainage pan for protecting your ceiling better.
- ▶ Return air plenum and filter are standard.
- ▶ Left or right hand piping connection, field convertible.
- ▶ Fresh air supply makes life healthier and more comfortable.

Duct High Static features >>

- ▶ High air volume, high static pressure, high capacity.
- ▶ High-pressure centrifugal fans.
- ▶ Easy to clean and change the air filter.
- ▶ Safe factory installed electric heater is optional.
- ▶ Standard extended drainage pan for protecting your ceiling better.
- ▶ Return air plenum and filter are standard.
- ▶ Four speed motor with one reserved for more choice.
- ▶ Pipe connection from left or right can be selected (in Factory).

Wall Mounted features >>




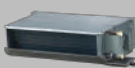
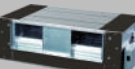



- ▶ Alternative panel supplies more choice for customs.
- ▶ Cross Flow fan creates quiet and comfortable environment.
- ▶ Wireless remote controller with LED display is Std., wire controller is optional.
- ▶ Multi-connection outlet pipe method: Left/right/rear, satisfy the need of different rooms.
- ▶ Built-in the 3 way electromagnetic valve.
- ▶ Easy maintenance has been realized as the front panel can be removed for easy access.
- ▶ Four speed motor with one reserved for more choice.

Floor Standing and Ceiling & Floor Features >>




- ▶ Flexible for installation, designed for horizontal/vertical, concealed/cabinet application.
- ▶ Ultra-thin body, streamlined appearance.
- ▶ Air return from the side or below for increased choice flexibility.
- ▶ Built-in the 3 way electromagnetic valve.
- ▶ movable louver makes wide angle air flow.
- ▶ Pipe connection from left or right can be selected (in Factory).

Chilled Water Fan Coil Units

2-Pipe FCU's

Air Flow (CFM)		150	200	250	300	400	450	500	600	750	800	850	900	950	1000	1200	1400	1500	1600	1800	2000	2200	
Cassette	One-Way 																						
	Four way 																						
	Compact Four way 																						
Duct	Duct Standard 																						
	High Static Pressure 																						
Wall Mounted 																							
Floor-Ceiling 																							
Floor Standing 																							

4-Pipe FCU's

Air Flow (CFM)		200	300	400	500	600	750	800	850	950	1000	1200	1400	1500
Compact 4-way Cassette 														
4-way Cassette 														
Duct 														

Note:

1. The Above design and specification are subject to change without prior notice.
2. The standard power supply for all fan coil units is 220V-240V/50Hz; 208-230V/60Hz can be customized for all fan coil units..

ERV Units



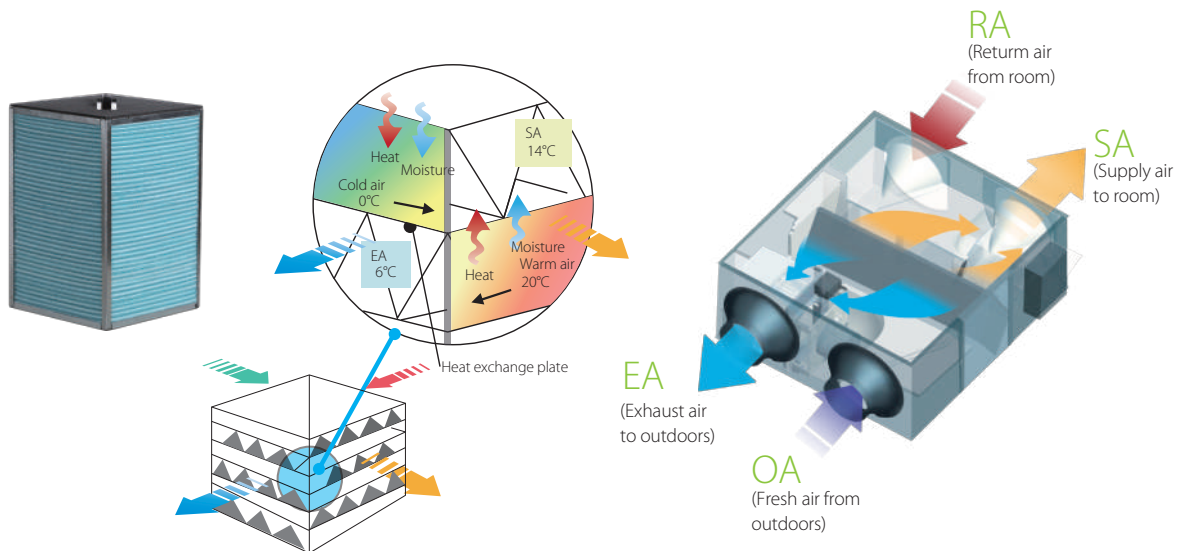
The ERV is the energy recovery process in residential and commercial HVAC System that exchange the energy contained in exhausted air of a building or condition space, using it to treat the incoming outdoor ventilation air. The heat exchanged core is made of special paper processed with chemical treatment, which could realize better temperature and humidity control of the room environment.

Model Names

- ERV-200
- ERV-300
- ERV-400
- ERV-500
- ERV-800
- ERV-1000



- ERV-1500
- ERV-2000



Multi-modes for different situation >>>

Heat Exchange Mode

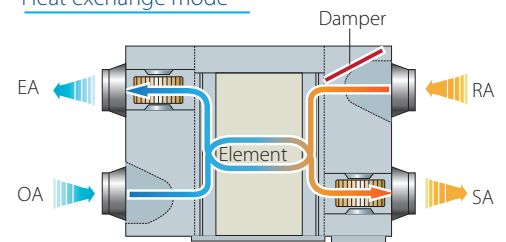
When air flow formed by the fans goes through the heat exchanged core in cross way, due to temperature difference between two channels of the core, thermal transmission happens naturally.

In summer days, high temperature outdoor air gets cooled by indoor exhaust air; in winter, low temperature outdoor air gets heated by indoor exhaust air. So the energy contained in exhaust air can be reclaimed and energy efficiency gets improved.

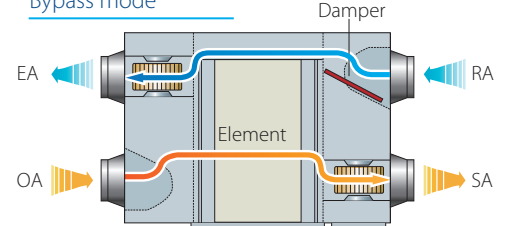
Bypass Mode

In mild climate areas or seasons, when temperature and humidity level difference between indoor and outdoor is small, the unit works as conventional ventilation fan. Both supply fan and exhaust fan works at the same speed (Hi/mid/low/auto).

Heat exchange mode



Bypass mode



ERV Units

Air Supply Mode

It is one kind of bypass mode with air supply fan speed higher than exhaust fan speed. It can be used in mild climate area where large amount fresh air is needed.

Exhaust Air Mode

It is also one kind of bypass mode with exhaust fan speed higher than air supply fan speed. It can be used in mild climate area where large amount exhaust air needs to be expelled.

Auto Mode

The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoor and indoor temperature. Both the two fans work at low speed.

Specification

Unit Model				ERV-200	ERV-300	ERV-400	ERV-500
Power Supply		V,Hz,Ph		220-240 / 50 / 1			
Cooling	Temperature	High / Mid	%	55	55	55	55
	Exchange Effy.	Low	%	60	60	60	60
	Enthalpy	High / Mid	%	50	50	50	50
	Exchange Effy.	Low	%	55	55	55	55
Heating	Temperature	High / Mid	%	60	60	60	65
	Exchange Effy.	Low	%	65	65	65	70
	Enthalpy	High / Mid	%	55	55	60	60
	Exchange Effy.	Low	%	60	60	65	65
Fan	Type			Centrifugal Fan			
	Air Flow Rate	H/M/L	m ³ /h	200/200/150	300/300/225	400/400/300	500/500/375
	ESP	H/M/L	Pa	75/58/35	75/60/40	80/65/43	80/68/45
	Motor Output	W		20	40	80	120
Others	Heat Exchange Element Material			Specially Processed Non-Flamable Paper			
	Net Dimension (WxHxD)	mm±5		866x264x655	944x270x722	944x270x927	1038x270x1026
	Packing Dimension	mm±5		930x445x730	1010x450x800	1010x450x1010	1120x452x1120
	Weight (Net/ Gross)	Kg		23/40	26/44	31/52	41/64

Unit Model				ERV-800	ERV-1000	ERV-1500	ERV-2000
Power Supply		V,Hz,Ph		220-240 / 50 / 1	220-240 / 50 / 1	380-415 / 50 / 3	380-415 / 50 / 3
Cooling	Temperature	High / Mid	%	55	55	55	55
	Exchange Effy.	Low	%	60	60	/	/
	Enthalpy	High / Mid	%	50	50	50	50
	Exchange Effy.	Low	%	55	55	/	/
Heating	Temperature	High / Mid	%	65	65	65	65
	Exchange Effy.	Low	%	70	70	/	/
	Enthalpy	High / Mid	%	60	60	60	60
	Exchange Effy.	Low	%	65	65	/	/
Fan	Type			Centrifugal Fan			
	Air Flow Rate	H/M/L	m ³ /h	800/800/600	1000/1000/750	1500	1500
	ESP	H/M/L	Pa	100/82/54	100/85/58	160	170
	Motor Output	W		360	360	450	450
Others	Heat Exchange Element Material			Specially Processed Non-Flamable Paper			
	Net Dimension (WxHxD)	mm±5		1286x388x1006	1286x388x1256	1600x540x1270	1650x540x1470
	Packing Dimension	mm±5		1380x573x1100	1390x580x1350	1680x720x1350	1760x720x1580
	Weight (Net/ Gross)	Kg		68/88	79/110	163/224	182/247

FAHU & AHU

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FAHU



AHU

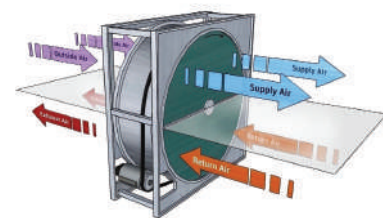
Cooling Coil >>

- ▶ All Cooling coil is designed using professional computer selection which is ARI Performance Certified. The software is carefully formulated, designed and being fine tuned through laboratory testinf and real life application to meet the highest standard of HVAC industry. ARI Performance Certified is the trusted mark of performance assurance for heating, ventilation, air conditioning and commercial refrigeration equipment.
- ▶ The Cooling coil is available in Chilled Water and Direct Expansion Type.



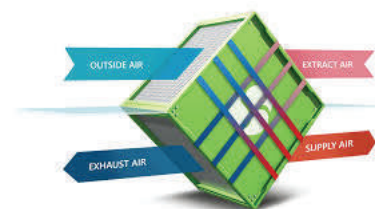
Rotary Heat Exchanger >>

- ▶ A Compact construction, high recovery effectiveness, less spacing taken up, driven power required, suitable for large air flow.
- ▶ Both Sensible and latent heat recovery with the efficiency of 70-90%. The counter flow between fresh air and exhaust air offers self-cleaning capability.
- ▶ A Thermal Wheel consist of a circular honeycomb matrix of heat-absorbing material, which is slowly rotated within the supply & exhaust air stream of an air-handling system.



Cross-Flow Plate Heat Exchanger >>

- ▶ A simple construction, safe operation, drive free, good air tightness, cross contamination free but large spacing taken up and not suitable for large air flow.
- ▶ Fresh air & exhaust air exchange the energy in the plate type H.E. and depends on the material used for H.E, the heat transferred can be sensible or total heat. The efficiency is about 50%, however, due to no physical contact of Fresh air & exhaust air, there is no pollution of fresh air by the exhaust air.



Fan & Motor >>

- ▶ Fans are statically & dynamaly balance and are available in the following varieties: Forward & Backward curved impeller blades, Backward airfoil curve impeller blades
- ▶ Yilida brand centrifugal fan, high performance efficiency, 3-phase, class "F" insulation and IP54 protection AC motor.
- ▶ Belt drive, optimal selection of drive ratio, increase fan/ motor assembly efficiency, easy for maintenance.



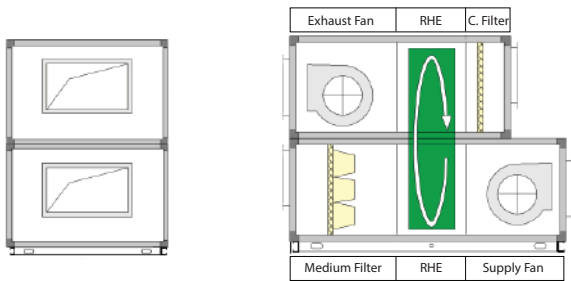
FAHU & AHU

Air Filter >>

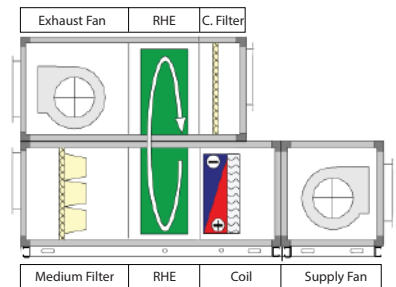
- ▶ Coarse Filter: Corrugated plate type, 25mm/ 46mm thickness.
- ▶ Medium Filter: Bag type, made of fire proof chemical fibres.
- ▶ High-Medium/ sub HEPA Filter: Bag or plate type, made of fiber glass.



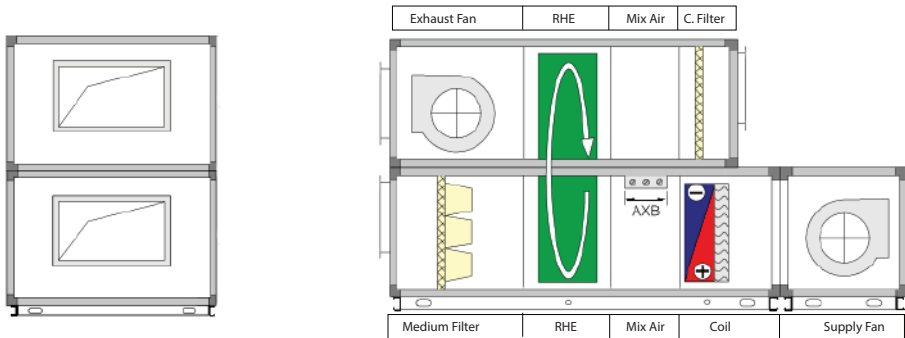
FAHU Combination 1 >>



FAHU Combination 2 >>

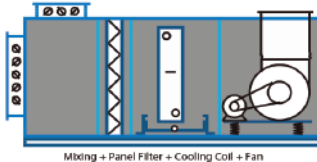


FAHU Combination 3 >>

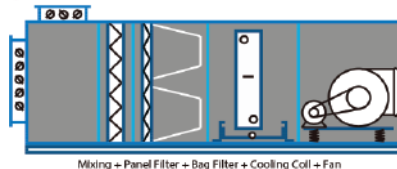


AHU Combination >>

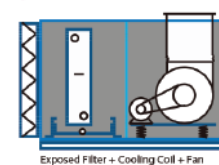
❖ Horizontal Combination 1:



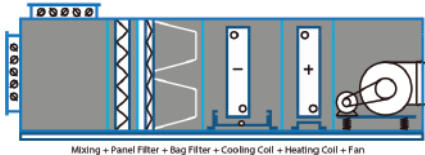
❖ Horizontal Combination 2:



❖ Horizontal Combination 3:



❖ Horizontal Combination 4:



❖ Horizontal Combination 5:

