

Equipment with Environment Friendly Refrigerant



Climatcool[©] U.S.A.

Hi-Tech Airconditioning

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Profile

Climatcool Air Conditioners, an Industry leader known for superior product performance and reliability, offers a variety of cooling and heating systems to suit any requirement. Our range of products includes Window/Packaged air conditioners from 1 to 30 tons and Decorative Split from 1 to 15 tons comprised of Wall, Cassette, Floor Ceiling and Free Standing type. Climatcool also has a full range of Packaged Chiller system from 1 to 400 tons with matching Chilled Water Fan Coil units and Chilled Water Double Skin Air Handling units.

Climatcool is now ready with the environment friendly product. Our latest introduction of complete range of VRF airconditioning units and decorative mini split units, ductable split units, rooftop package units, etc. are available with refrigerant R410a which is very high EER, efficient and compact equipment. Most of our product range is listed and certified by various government agencies of the GCC countries. Thanks to the technical collaboration with climatcool in USA has further strengthened our commitment towards high quality standards

Our logistics is handled by our parent company SURE group from Sharjah Airport Free Zone (SAIF ZONE). We maintain a large covered facility for stock and distribution of Airconditioning equipment in UAE and all the surrounding countries.

Features

Climatcool is one of the leaders in the air conditioning industry and an established brand mark over the years offering a comprehensive range of superb Fan Coil/Air Handling units built to the highest engineering standard in our sister company M/s AVV International, Thailand. Climatcool has their associate manufactures in ROC and ME to provide similar equipment. All cooling coils are in accordance with current ARI 440 norms.

Climatcool gives you one stop shop for Central Split, Decorative & 100% fresh Air Handling units. The units are designed, built and tested to provide the best value solution available to designers and installer like.

This is achieved by an unsurpassed broad range of model sizes (note: - most competitors limit their range to 8 basic model sizes) and based on a standard unit chassis designed and dimensioned to handle nominal air flow 200 to 4000 cfm. Within the above product range are vertical or horizontal models, cased or uncased with numerous options.

Among key features of Climatcool Fan Coil Units and Air Handling Units, are efficient and quiet operations, ease of installation, trouble free operation and long-term reliability of components. Purpose selected and qualified components comply with the latest industry standard for example motors multi-speed PSC type are UL approved, insulated to class b having an enclosure protection to IP 44 and bearing sealed for life. Cooling coil performance tested and related in accordance with ARI 410 standards and each coil individually pressure tested to 24 bars (350 psi).

Electrical wiring in compliance with the latest safety IEC standards. Various flitters options offered and equipped to EU2 or EU3 grade depending on type and application. Casing and drain pan fabricated from prime quality galvanized steel insulated with open cell thermal and acoustic class 'O' foam.

Climatcool currently offer a comprehensive range of air conditioning product including advanced air treatment equipment to comply with the latest technical codes, such as euro vent, which emphasize rating guarantee by certified test performance.

Full after sales service is available including 24 hr AMC service with adequate spare parts stock.

Window Unit

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* ESMA Compliance

R410a Environment Friendly Refrigerant



F Window

Self-evaporative System

The slinger-up system automatically recycle condensate water of evaporator to condenser, no need of water bucket. It can bring more cooling power and improve cooling efficiency.



R-410A

Specifications - Rotary Compressor - Window Type

Indoor unit model			SMWTF1-12CMN1-QB8	SMWTF1-18CMN1-QB8	SMWTF1-24CMN1-QB8	SMWTF1-28CMN1-QB8
Performance						
Power Supply		V~,Hz,Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Cooling Capacity	T1 / T3 (35°C / 46°C)	Btu/h	12000 / 10250	18000 / 15680	24000 / 18175	28000 / 21295
		kW	3.5 / 3.0	5.3 / 4.6	7.0 / 5.3	8.2 / 6.2
Power Input	Cooling	W	1256 / 1577	1920 / 2376	2512 / 2673	2930 / 3131.6
EER	T1 / T3 (35°C / 46°C)	Btu/h-W	9.6 / 6.5	9.4 / 6.6	9.4 / 6.8	9.6 / 6.8
Compressor Type			Rotary	Rotary	Rotary	Rotary
Air Flow Volume	Indoor	m³/h (H/M/L)	450/400/360	750/650/550	770/670/550	850/760/680
Noise Level	Indoor	dB(A) (H/M/L)	51/48/46	56/53/50	58/54/50	62/58/55
Dimension & Weight & Piping Size						
Net Dimension		mm (WxDxH)	600x560x380	660x680x428	660x680x428	660x780x428
Packing Dimension		mm (WxDxH)	685x620x430	746x815x515	746x815x515	770x915x510
Net/Gross Weight	Indoor	kg	34/37	53.8/58.1	59x65	63/67
Applicable Area & Stuffing Quantity						
Stuffing Quantity	20'/40'/40'HQ	set	135/285/342	84/180/225	84/180/225	72/156/195

Wall Mounted Split Units

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R410A Environment Friendly Refrigerant

Plasma dust collector generates a high voltage electrostatic zone, absorbs and eliminates dust, smoke and pollen particles. It also deodorizes air to remove tobacco odours, garbage smells etc.

Refrigerant leak is automatically detected & the device stops the compressor by giving electronic display 'EC' on the unit. Optional wired controller is available for specific application. 3D air flow swing ensures even distribution of cold air in the room.

Maximum operating ambient temperature is 52°C.



R410A



Self Diagnosis

Specifications - Rotary Compressor - Wall Mount Type

Indoor unit model			SMST12F-12CRN1-Q	SMST12F-18CRN1-Q	SMST12F-24CRN1-Q	SMST12F-30CRN1-Q	SMSTABF-36CRN1-Q
Outdoor unit model			SMOTB-12CN1-Q	SMOTB-18CN1-Q	SMOTB-24CN1-Q	SMOTB-30CN1-Q	SMOTB-36CN1-Q
Performance							
Power Supply		V~,Hz,Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Cooling Capacity	T1 / T3 (35°C / 46°C)	Btu/h	12000 / 10493	18000 / 15822	24000 / 19681	30000 / 20856	36000 / 25777
		Kw	3.5 / 3.07	5.3 / 4.64	7.0 / 5.77	8.8 / 6.11	10.6 / 7.55
Power Input	Cooling	W	1209 / 1463	1813 / 2225	2417 / 2530	3021 / 3009	3626 / 3758
Operating Current	Cooling	A	5.5 / 6.65	8.3 / 10.11	11.1 / 11.5	13.8 / 13.7	16.6 / 17.1
EER	T1 / T3 (35°C / 46°C)	Btu/h-W	9.93 / 7.17	9.93 / 7.11	9.93 / 7.78	9.93 / 6.93	9.93 / 6.86
COP		W/W		-	-		
Air Flow Volume	Indoor	m³/h (H/M/L)	650/570/490	850/730/630	1100/1000/810	1150/1040/850	1150/1040/850
Noise Level	Indoor	dB(A) (H/M/L)	42/38/35	45/39/36	48/46/39	49/46/40	49/46/40
	Outdoor	dB(A)	56	60	57	60	60
Dimension & Weight & Piping Size							
Net Dimension	Indoor	mm (WxDxH)	800x188x275	940x205x275	1045x235x315	1045x235x315	1259x282x362
	Outdoor	mm (WxDxH)	780x250x540	845x320x700	845x320x700	845x320x700	945x395x810
Packing Dimension	Indoor	mm (WxDxH)	865x265x350	1015x265x350	1135x395x315	1135x395x315	1340x380x450
	Outdoor	mm (WxDxH)	910x335x585	965x395x755	965x395x755	965x395x755	1090x475x855
Net/Gross Weight	Indoor	kg	8/10	10/13	12.5/15.5	12.5/15.5	20.5/26
	Outdoor	kg	28.5/31.5	41.5/44.5	47.5 / 50.5	51 / 53	66/70
Piping Size	Liquid	Ømm(inch)	6.35(1/4")	6.35(1/4")	9.52(3/8")	9.52(3/8")	9.52(3/8")
	Gas	Ømm(inch)	12.7(1/2")	12.7(1/2")	15.9(5/8")	15.9(5/8")	15.9(5/8")
Applicable Area & Stuffing Quantity							
Applicable Area	Indoor	m²	16-27	26-44	31-51	34-56	44-73
Stuffing Quantity	20'/40'/40'HQ	set	112/235/265	76/150/179	69/140/160	69/140/160	38/78/98

Cassette Units

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R-410A

Specifications - Rotary/Scroll Compressor - Cassete type

Indoor unit model			SMCDT-18CRN1-QC5	SMCDT-24CRN1-QC5	SMCDT-36CRN1-QC5W	SMCDT-48CRN1-QC5W
Outdoor unit model			SMOUT-18CN1-Q	SMOUT-24CN1-Q	SMOUT-36CN1-Q	SMOUT4DU-48CN1-R
Performance						
Power Supply		V~,Hz,Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	3800-415, 50, 3
Cooling Capacity	T1 / T3 (35°C / 46°C)	Btu/h	17113 / 14375	23061 / 20048	35495 / 32532	45942 / 39259
		kW	5.014 / 4.212	6.757 / 5.874	10.411 / 9.532	13.461 / 11503
Compressor Type	Rotary - Scroll	Hermetic	Rotary	Scroll	Scroll	Scroll
Power Input	Cooling	W	1481.2 / 1765.3	1952.9 / 2340.2	3209.9 / 3989.5	3959.12 / 4793
EER	T1 / T3 (35°C / 46°C)	Btu/h-W	11.55 / 8.14	11.81 / 8.57	11.06 / 8.15	11.6 / 8.19
Air Flow Volume						
	Indoor	m ³ /h (H/M/L)	1095/935/805	1338/1164/944	2114/1827/1487	2257/1989/1723
Noise Level	Indoor	dB(A) (H/M/L)	42/39/37	47/43/39	56/53/48	58/55/52
	Outdoor	dB(A)	56	58	63	63
Dimension & Weight & Piping Size						
Net Dimension	Indoor	mm (WxDxH)	840x840x245	840x840x245	840x840x287	840x840x287
	Outdoor	mm (WxDxH)	845x320x700	945x395x810	990x345x965	938x392x1369
Packing Dimension	Indoor	mm (WxDxH)	1035x1035x90	1035x1035x90	1035x1035x90	1035x1035x90
	Outdoor	mm (WxDxH)	965x395x755	1090x475x865	112x435x1100	1095x495x1505
Net/Gross Weight	Indoor	kg	29/37	29/37	34/41	34/41
	Outdoor	kg	48.5/51	60.5/66	90/100	102.5/114.5
Piping Size	Liquid	Ømm(inch)	6.35(1/4")	9.52(3/8")	9.52(3/8")	9.52(3/8")
	Gas	Ømm(inch)	12.7(1/2")	15.9(5/8")	19(3/4")	19(3/4")
Applicable Area & Stuffing Quantity						
Applicable Area	Indoor	m ²	21-35	42-70	42-70	56-93
Stuffing Quantity	20'/40'/40'HQ	set	43/89/103	43/89/103	27/72/80	25/55/64

Horizontal Disch. Ducted Split Units

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R410A Environment Friendly Refrigerant



**OUTSTANDING
FEATURES**

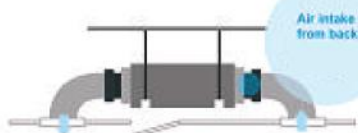
Duct



R-410a GAS

Flexible Air Intake Ways ▶

Air inlet from back standard and from bottom optional. The size of the plate from bottom and flange from back is the same, it's easy for installer to change the air inlet from back to bottom.



Air intake from back

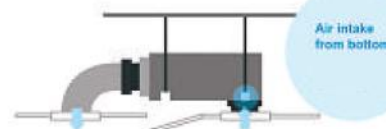
Wired Controller ▶

Compared with infrared remote controller, wired controller can be fixed on the wall and avoid mislaying.



Flexible Air Intake Ways ▶ Open return

Air inlet from back standard and from bottom optional. The size of the plate from bottom and flange from back is the same, it's easy for installer to change the air inlet from back to bottom.



Air intake from bottom

Fresh Air ▶

Fresh air hole as standard, it's easy to connect with air from outside and brings fresh and comfortable feeling.



Duct joint fresh air duct

Capacity (Btu/h@T1)		12,000 & 18,000	24,000	30,000 & 36,000	42,000 & 48,000	60,000
Indoor Unit Horizontal Duct Type	220~240V 50Hz 1Ph					
Outdoor Unit Horizontal Discharge Type	220~240V* 50Hz 1Ph	*	*	**	**	**
	380~415V** 50Hz 3Ph					

Horizontal Disch. Ducted Split Units



R-410a

Specifications - Rotary/Scroll Compressor - Ducted Horizontal Discharge Type

Indoor unit model			SMST12F-12CRN1-Q	SMTBT-18CWN1-Q	SMTBT-24CWN1-Q	SMTBT-30CWN1-Q	SMTBT-36CWN1-Q
Outdoor unit model			SMOTB-12CN1-Q	SMOUT-18CN1-Q	SMOUT-24CN1-Q	SMOUT-30CN1-Q	SMOUT-36CN1-Q
Performance							
Power Supply		V~,Hz,Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Cooling Capacity	T1 / T3(35°C / 46°C)	Btu/h	12000 / 10493	18000 / 15724	24000/21120	33000 / 30495	36000 / 33520
		kW	3.5 / 3.07	5.27 / 4.61	7.0 3/ 6.2	9.67 / 8.93	10.55 / 9.82
Power Input	Cooling (T1 / T3)	W	1209 / 1463	1507 / 1850	2010 /2500	2763 / 3760	3015 / 4060
	Heating	W				-	
EER	T1 / T3(35°C / 46°C)	Btu/h-W	5.5 / 6.65	11.9 / 8.5	11.9 / 8.4	11.9 / 8.1	11.9 / 8.3
COP		W/W			-		-
Static Pressure		Pa	0-60	0-60	0-80	0-80	0-80
Air Flow Volume	Indoor	m ³ /h (H/M/L)	516/446/347	816/546/397	1260/808/671	1560/1015/770	1848/1103/955
Noise Level	Indoor	dB(A) (H/M/L)	42/30/26	43/31/27	44/33/29	44/33/29	49/39/36
Dimension & Weight & Piping Size							
Net Dimension		mm (WxDxH)	800x188x275	920x635x270	920x635x270	1140x775x270	1200x865x300
Packing Dimension	Indoor Unit	mm (WxDxH)	780x250x540	1135x655x350	1135x655x350	1355x795x350	1405x920x373
Net/Gross Weight		kg	30/34	31/36	31/36	42/47	48/56
Net Dimension		mm (WxDxH)	865x265x350	845x320x700	945x395x810	990x345x965	900x345x965
Packing Dimension	Outdoor Unit	mm (WxDxH)	910x335x585	965x395x755	1090x475x855	1120x435x1100	1120x435x1100
Net/Gross Weight		kg	48/50	49/51	76/86	86/96	86/96
Piping Size	Liquid	mm(inch)	6.35(1/4")	6.35(1/4")	9.52(3/8")	9.52(3/8")	9.52(3/8")
	Gas	mm(inch)	12.7(1/2")	12.7(1/2")	15.9(5/8")	19(5/8")	19(3/4")
	Drainage(OD)	mm	25	25	25	25	25
Max. Pipe Length		m	25	25	25	30	30
Max. Height Difference		m	10	10	10	15	20
Applicable Area & Stuffing Quantity							
Applicable Area		m ²	20-34	21-35	28-47	36-47	42-70
Stuffing Quantity	20'/40'/40"HQ		56/115/130	56/115/130	35/75/90	31/65/71	25/54/60

Indoor unit model			SMTBT-36CWN1-R	SMHGT4-42CWN1-R	SMHGT4-48CWN1-R	SMHGT4-55CWN1-R
Outdoor unit model			SMOUT-36CN1-R	SMOUT4DU-42CN1-R	SMOUT4DU-48CN1-R	SMOUT4DU-55CN1-R
Performance						
Power Supply		V~,Hz,Ph	380-420, 50, 3	380-420, 50, 3	380-420, 50, 3	380-420, 50, 3
Cooling Capacity	T1 / T3(35°C / 46°C)	Btu/h	36000 / 33520	42000 / 36661	48000 / 44850	55000 / 48931
		kW	10.55 / 9.82	12.3 / 10.74	14.06/ 13	16.1/ 14.34
Power Input	Cooling (T1 / T3)	W	3015 / 4060	3520 / 4400	4019 /5030	4606 /6020
	Heating	W				
EER	T1 / T3(35°C / 46°C)	Btu/h-W	11.9 / 8.3	11.9 / 8.15	11.9 / 8.9	11.9 / 8.13
COP		W/W	-		-	-
Static Pressure		Pa	0-80	0-100	0-200	0-200
Air Flow Volume	Indoor	m ³ /h (H/M/L)	1848/1103/955	2282/1439/1115	3150/2850/2400	3150/2850/2400
Noise Level	Indoor	dB(A) (H/M/L)	49/39/36	49/39/36	53/51/48	53/51/48
Dimension & Weight & Piping Size						
Net Dimension		mm (WxDxH)	1200x865x300	1200x865x300	1200x625x380	1400x860x440
Packing Dimension	Indoor Unit	mm (WxDxH)	1405x920x373	1405x920x373	1485x675x450	1605x910x505
Net/Gross Weight		kg	48/56	46.5 / 56	47/55	75/83
Net Dimension		mm (WxDxH)	900x345x965	990x345x1170	938x392x1369	990x345x1369
Packing Dimension	Outdoor Unit	mm (WxDxH)	1120x435x1100	1120x435x1307	1095x495x1505	1120x435x1505
Net/Gross Weight		kg	86/96	86/96	9.52 / 119	86/96
Piping Size	Liquid	mm(inch)	9.52(3/8")	9.52(3/8")	9.52(3/8")	9.52(3/8")
	Gas	mm(inch)	19(3/4")	19(3/4")	15.9(7/8")	19(7/8")
	Drainage(OD)	mm	25	25	25	25
Max. Pipe Length		m	30	50	50	30
Max. Height Difference		m	20	25	25	15
Applicable Area & Stuffing Quantity						
Applicable Area		m ²	42-70	48-80	56-93	64-107
Stuffing Quantity	20'/40'/40"HQ	set	25/54/60	22/52/61	19/40/48	19/40/48

Vertical Disch. Ducted Split Units

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R410A Environment Friendly Refrigerant

Capacity (Btu/h@T1)		24,000	36,000	48,000	60,000
Indoor Unit Vertical Duct Type	220~240V 50Hz 1Ph				
Outdoor Unit Top Discharge Type	220~240V* 50Hz 1Ph 380~415V** 50Hz 3Ph	 *	 **	 **	 **

Capacity (Btu/h@T1)		36,000	42000	48000	57,000
Indoor Unit Horizontal Duct Type	220~240V 50Hz 1Ph				
Outdoor Unit Vertical Discharge Type	220~240V* 50Hz 1Ph 380~415V** 50Hz 3Ph	 *	 **	 **	 **

- ❖ Compatible with R410A refrigerant.
- ❖ Tropical design with **Copeland** compressor.
- ❖ Fully-insulated design minimizes indoor noise levels.
- ❖ 3-speed fan for enhanced comfort.
- ❖ Built-in drain pump can be customized for Horizontal duct indoor unit.
- ❖ Two air intake methods: air intake from rear/air intake from bottom.
- ❖ For 3 Tons available in 220V/ 1ph/ 50Hz and 380V/ 3ph/ 50Hz power supply.
- ❖ Maximum operating ambient temperature is 52°C.

Controller

Optional Wired Controller (For Vertical Type)			
			
KJR-23B Cooling only		KJR-10B/DP(T)-E KJR-12B(DP) (For Horizontal Type)	

Vertical Disch. Ducted Split Units

Specifications - Tropical SEER 13 A5 Duct

Indoor unit model			SMTBT4-24CWN1-QN	SMTBT4-36CWN1-QN	SMTBT4-36CWN1-RN	SMHGT4-48CWN1-RN	SMHGT4-55CWN1-RN
Outdoor unit model			SMOT4V-24CN1-QN	SMOT4V-36CN1-QN	SMOT4V-36CN1-RN	SMOVT4-48CN1-RN	SMOT4V-55CN1-RN
Power supply	Indoor unit	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Outdoor unit	V/Ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling	T1 Capacity	Btu/h	23,800	35,000	34,400	48,000	57,000
	T3 Capacity	Btu/h	20,600	30,200	29,800	41,500	50,000
	EER (T1/T3)	Btu/h.W	11.6/8.2	12.2/8.6	11.6/8.2	11.6/8.1	11.7/8.1
Compressor		-	Scroll (Copeland)	Scroll (Copeland)	Scroll (Copeland)	Scroll (Copeland)	Scroll (Copeland)
Motor	Indoor unit	-	PSC type	PSC type	PSC type	PSC type	PSC type
	Outdoor unit	-	AC type	AC type	AC type	AC type	AC type
Air flow	Indoor unit *	CFM	1,020/900/780	1,237/1,101/969	1,237/1,101/969	1,732/1,481/1,267	1,789/1,732/1,481
	Outdoor unit	CFM	1,765	3,000	3,000	3,394	4,029
Indoor standard ESP		Pa	10	35	35	50	50
Indoor ESP range		Pa	10~30	10~80	10~80	10~100	10~100
Noise level	Indoor unit	dB(A)	46	49	49	51	52
	Outdoor unit	dB(A)	62	64	64	68	68
Connection pipe	Liquid side	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas side	mm	Φ19.1	Φ19.1	Φ19.1	Φ22.2	Φ22.2
Net dimension (W×H×D)	Indoor unit	mm	1,230×270×775	1,230×270×775	1,230×270×775	1,300×420×690	1,300×420×690
	Outdoor unit	mm	600×633×600	710×759×710	710×759×710	710×843×710	740×843×740
Packing (W×H×D)	Indoor unit	mm	1,355×350×795	1,355×350×795	1,355×350×795	1,430×450×768	1,430×450×768
	Outdoor unit	mm	628×667×628	738×793×738	738×793×738	728×877×728	768×877×768
Net/Gross weight	Indoor unit	kg	38/44	38/44	38/44	70/77.5	70/77.5
	Outdoor unit	kg	59/62	86/90	81/85	89/93	98/102

Notes:

1. The capacity is based on the following conditions:

T3 cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 46°C DB.

T1 cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB.

2. ESP: External static pressure.

3. Wired Controller at Standard

*: Indoor unit air flow is based on the standard ESP.

Indoor unit model			SMTBT4-36CWN1-Q	SMTBT4-42CWN1-R	SMHGT4-48CWN1-R	SMHGT4-55CWN1-R
Outdoor unit model			SMOT4V-36CN1-Q	SMOVT4-42CN1-R	SMOVT4-48CN1-R	SMOT4V-55CN1-R
Power Supply		V~, Hz, Ph	220-240, 50, 1	380-420, 50, 3	380-420, 50, 3	380-415, 50, 3
Cooling Capacity	T1 / T3 (35°C / 46°C)	Btu/h	35000 / 30200	42000 / 34785	48000 / 43386	56100 / 50183
		kW	10.25 / 8.85	12.306 / 10.2	14.064 / 12.71	16.437 / 14.70
Power Input	Cooling	W	2869 / 3412	3430 / 4088	4080 / 5080	4790 / 6135
EER	T1 / T3 (35°C / 46°C)	Btu/h-W	12.2 / 8.6	12.24 / 8.51	11.76 / 8.54	11.71 / 8.2
Air Flow Volume	Indoor	CFM (H/M/L)	1146/1101/969	1463.3/1138/977	1802/1481/1267	1802/1481/1267
Noise Level	Indoor	dB(A) (H/M/L)	44/42/40	44/41.5/39.5	52/50/48	52/50/48
	Outdoor	dB(A)	61	61	63	63
ESP	Rated	Pa	37	50	50	50
	Range	Pa	0-80	0-100	0-100	0-100
Throttle	Outdoor	Type	Capillary	Capillary	Capillary	Capillary
Dimension & Weight & Piping Size						
Net Dimension	Indoor	mm (WxDxH)	1200x865x300	1200x625x380	1200x625x380	1200x625x380
	Outdoor	mm (WxDxH)	710x710x843	710x710x843	710x710x843	740x740x843
Packing Dimension	Indoor	mm (WxDxH)	1405x920x373	1485x675x450	1485x675x450	1485x675x450
	Outdoor	mm (WxDxH)	738x738x872	738x738x872	738x738x872	768x768x872
Net/Gross Weight	Indoor	kg	44.5/53	51.2/64.2	53/64	53/64
	Outdoor	kg	80/84.5	84.5/89.5	84.5/89.5	85/90
Drainage Water Pipe Diameter		Ømm(inch)OD	25(1")	25(1")	25(1")	25(1")
Piping Size	Liquid	Ømm(inch)	9.52(3/8")	9.52(3/8")	9.52(3/8")	9.52(3/8")
	Gas	Ømm(inch)	19(3/4")	22.2(7/8")	22.2(7/8")	22.2(7/8")
Applicable Area & Stuffing Quantity						
Applicable Area	Indoor	m ²	42-70	48-80	56-93	64-107
Stuffing Quantity	20"/40"/40"HQ	set	31/65/71	22/52/61	17/41/59	17/41/59

Notes:

1. The capacity is based on the following conditions:

T3 cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 46°C DB.

T1 cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB.

The refrigerant piping length between indoor unit and outdoor unit is 7.5m.

2. ESP: External static pressure.

3. Wired Controller at Standard.

*: Indoor unit air flow is based on the standard ESP.

* Tons Model available in 220V/ 1ph/ 50Hz and 380V/ 3ph/ 50Hz power supply.

Large Capacity Split Units

Split Air Conditioner

R410A Environment Friendly Refrigerant

ESMA Compliance

Climatcool® U.S.A.
Hi-Tech Airconditioning

Climatcool tropical split type air conditioners are designed and manufactured to meet the requirements of the tropical ambient. The cooling ambient temperature is up to 52°C. The units are completely assembled, internally wired, charged outdoor unit with refrigerant at the factory. It is applicable to home, office, hospital, schools, hotel, place of worship and others public service locations.

Capacity (Kw@T1)			22	28	35	44
R410A	Duct type	Medium static pressure				
		High static pressure				
	Floor standing type					
	Outdoor unit					

Outdoor Unit

8/10HP



12HP



- ❖ Casing with heavy gauge galvanized steel plate. Both side of casing is water proof and anti-corrosion coated.
- ❖ High efficiency scroll compressor with thermal protectors.
- ❖ Inner-threaded copper tubes mechanically bonded to a configured hydrophilic aluminum fin. more high performance heat exchanger.
- ❖ Direct drive motor, axial fans with high anti-corrosion aluminum blades.

Indoor Unit - Duct Type



Large Capacity Split Units

Specifications - R410A High Static Pressure Duct

Indoor unit model			SMHB-76CRN1	SMHB-76HRN1	SMHB-96CRN1	SMHB-96HRN1
Outdoor unit model			SMOV-76CN1-C	SMOV-76HN1-C	SMOV-96CN1-C	SMOV-96HN1-C
Type			Cooling only	Heat pump	Cooling only	Heat pump
Power supply	Indoor unit	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Outdoor unit	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	T1/T3 cooling	Kw	22.0/18.8	22.0/18.8	28.0/23.6	28.0/23.3
	Heating	Kw	-	25.0	-	31.0
Power input	T1/T3 cooling	Kw	6.40/7.92	6.40/7.92	8.23/9.94	8.23/9.94
	Heating	Kw	-	8.3	-	10.3
EER		Btu/h.W	11.7/8.1	11.7/8.1	11.6/8.1	11.6/8.1
COP		Btu/h.W	-	10.3	-	10.3
Refrigerant	Type/Quantity		R410A/5.4kg	R410A/5.4kg	R410A/6.0kg	R410A/6.0kg
Air flow (Indoor unit)		m ³ /h	4,250 (2,500CFM)	4,250 (2,500CFM)	5,100 (3,000CFM)	5,100 (3,000CFM)
ESP (Extend static pressure)		Pa	196	196	196	196
Noise level	Indoor unit	dB(A)	58	58	61	61
	Outdoor unit	dB(A)	65	65	67	67
Connection pipe	Liquid/Gas	mm	Φ9.52/Φ22	Φ9.52/Φ22	Φ9.52/Φ25	Φ9.52/Φ25
	Max. length	m	50	50	50	50
	Max. height	m	30	30	30	30
Controller			Wireless remote controller			
Net dimension (W×H×D)	Indoor unit	mm	1,443×450×846	1,443×450×846	1,443×450×846	1,443×450×846
	Outdoor unit	mm	1,260×908×700	1,260×908×700	1,260×908×700	1,260×908×700
Packing (W×H×D)	Indoor unit	mm	1,549×476×917	1,549×476×917	1,549×476×917	1,549×476×917
	Outdoor unit	mm	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730
Net/Gross weight	Indoor unit	kg	105/120	105/120	105/120	105/120
	Outdoor unit	kg	171/190	174/193	185/202	187/204
Loading Qty.	20'/40'HQ	Sets	13/30	13/30	13/30	13/30

Notes:

The capacity is based on the following conditions:

T3 cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 46 °C DB. T1 cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35 °C DB. Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB. The refrigerant piping length between indoor unit and outdoor unit is 7.5m.

Large Capacity Split Units

Specifications - R410A Medium Static Pressure Duct

Indoor unit model			SMTA-76CRN1	SMTA-76HRN1	SMTA-96CRN1	SMTA-96HRN1
Outdoor unit model			SMOV-76CN1-C	SMOV-76HN1-C	SMOV-96CN1-C	SMOV-96HN1-C
Type			Cooling only	Heat pump	Cooling only	Heat pump
Power supply	Indoor unit	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Outdoor unit	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	T1/T3 cooling	Kw	22.0/18.8	22.0/18.8	28.0/23.6	28.0/23.6
	Heating	Kw	-	25.0	-	31.0
Power input	T1/T3 cooling	Kw	6.40/7.80	6.40/7.80	8,180/9,810	8,180/9,810
	Heating	Kw	-	7.5	-	9.04
EER (T1/T3)		Btu/h.W	11.7/8.2	11.7/8.2	11.7/8.2	11.7/8.2
Refrigerant	Type/Quantity		R410A/5.4kg	R410A/5.4kg	R410A/6.0kg	R410A/6.0kg
Air flow (Indoor unit)		m ³ /h	4,250 (2,500CFM)	4,250 (2,500CFM)	5,100 (3,000CFM)	5,100 (3,000CFM)
ESP (Extend static pressure)		Pa	100	100	100	100
Noise level (Indoor/Outdoor unit)		dB(A)	58/65	58/65	61/67	61/67
Connection pipe	Liquid/Gas	mm	Φ9.52/Φ22	Φ9.52/Φ22	Φ9.52/Φ25	Φ9.52/Φ25
	Max. length	m	50	50	50	50
	Max. height	m	30	30	30	30
Controller			Wireless remote controller			
Net dimension (W×H×D)	Indoor unit	mm	1,443×450×846	1,443×450×846	1,443×450×846	1,443×450×846
	Outdoor unit	mm	1,260×908×700	1,260×908×700	1,260×908×700	1,260×908×700
Packing (W×H×D)	Indoor unit	mm	1,549×476×917	1,549×476×917	1,549×476×917	1,549×476×917
	Outdoor unit	mm	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730
Net/Gross weight	Indoor unit	kg	105/120	105/120	105/120	105/120
	Outdoor unit	kg	171/190	174/193	185/202	187/204
Loading Qty.	20'/40'HQ	Sets	13/30	13/30	13/30	13/30

Indoor unit model			SMTA-120CRN1	SMTA-120HRN1	SMTA-150CRN1	SMTA-150HRN1
Outdoor unit model (×Quantity)			SMOV-120CN1-C	SMOV-120HN1-C	SMOV-76CN1-C (×2)	SMOV-76HN1-C (×2)
Type			Cooling only	Heat pump	Cooling only	Heat pump
Power supply	Indoor unit	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Outdoor unit	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	T1/T3 cooling	kW	35.0/30.0	35.0/30.0	44.0/38.2	44.0/38.2
	Heating	kW	-	38.0	-	47.0
Power input	T1/T3 cooling	kW	10.28/12.62	10.28/12.62	13.20/16.29	13.20/16.29
	Heating	kW	-	11.4	-	14.06
EER/COP		Btu/h.W	11.6/8.1	11.6/8.1	11.4/8.0	11.4/8.0
Refrigerant	Type/Quantity		R410A/7.2kg	R410A/7.2kg	R410A/5.4kg	R410A/5.4kg
Air flow (Indoor unit)		m ³ /h	6,375 (3,750CFM)	6,375 (3,750CFM)	7,650 (4,500CFM)	7,650 (4,500CFM)
ESP (Extend static pressure)		Pa	150	150	150	150
Noise level (Indoor/Outdoor unit)		dB(A)	63/69	63/69	79/65	79/65
Connection pipe	Liquid/Gas	mm	Φ12.7/Φ28.6	Φ12.7/Φ28.6	Φ9.52/Φ22	Φ9.52/Φ22
	Max. length	m	50	50	50	50
	Max. height	m	30	30	30	30
Controller			Wireless remote controller			
Net dimension (W×H×D)	Indoor unit	mm	1,988×669×906	1,988×669×906	1,988×669×906	1,988×669×906
	Outdoor unit	mm	1,260×908×700	1,260×908×700	1,260×908×700	1,260×908×700
Packing (W×H×D)	Indoor unit	mm	2,095×800×964	2,095×800×964	2,095×800×964	2,095×800×964
	Outdoor unit	mm	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730
Net/Gross weight	Indoor unit	kg	188/220	188/220	188/200	188/200
	Outdoor unit	kg	199/215	201/217	171/190	174/193
Loading Qty.	20'/40'HQ	Sets	8/20	8/20	4/15	4/15

Notes:

The capacity is based on the following conditions:

T3 cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 46°C DB.

T1 cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

The refrigerant piping length between indoor unit and outdoor unit is 7.5m.

Roof Top Package Units

Unit with NEW R410A Refrigerant
Compact & Efficient

ESMA Compliance

Climatcool[®] U.S.A.
Hi-Tech Airconditioning

R410A Environment Friendly Refrigerant

ROOFTOP PACKAGE UNITS

**R410A REFRIGERANT
EFFICIENT AND ENVIRONMENT FRIENDLY
WITH HIGH E E R**

SMRC T SERIES



4,5,6.2&7.5 Ton

8.5&10 Ton

12.5&15 Ton

17.5&20 Ton

25&30 Ton



Roof Top Package Units

Specifications - ClimaCreator R410A Cooling Only

Model			SMRCT-48CWN1-R(C)	SMRCT-60CWN1-R(C)	SMRCT-062CWN1-R(C)	SMRCT-075CWN1-R(C)
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	T1 cooling	Btu/h	48,000	58,000	75,000	89,000
		Kw	14.1	17.0	22.0	26.1
	T3 cooling	Kw	11.4	14.0	18.0	20.4
Power input	T1 cooling	Kw	4.1	4.99	6.4	7.6
	T3 cooling	Kw	4.77	5.87	7.4	8.5
EER	T1/T3	Btu/h.W	11.7/8.1	11.6/8.1	11.7/8.3	11.7/8.2
Refrigerant	Type		R410A	R410A	R410A	R410A
	Quantity	kg	2.65	2.95	4.0	3.7
Air flow (Indoor fan)		CFM	1,750	2,000	2,800	2,830
ESP (Extend static pressure)		Pa	75	75	80	80
Optional electric heater*		Kw	-	-	15.0	15.0
Wired controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-25B	KJR-25B
Centralized controller (Optional)			Yes	Yes	No	No
Net dimension (W×H×D)		mm	1,310×840×900	1,310×840×900	1,475×840×1,130	1,475×840×1,130
Packing (W×H×D)		mm	1,495×865×1,150	1,495×865×1,150	1,495×870×1,150	1,495×870×1,150
Net/Gross weight		kg	223/228	231/236	223/228	231/236
Loading Qty.		Pieces	12/48	12/48	12/48	12/48

Model			SMRCT-085CWN1-R(D)	SMRCT-100CWN1-R(D)	SMRCT-125CWN1-R(C)	SMRCT-150CWN1-R(C)
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	T1 cooling	Btu/h	103,000	120,000	150,000	180,000
		Kw	30.2	35.2	44.0	52.8
	T3 cooling	Kw	23.7	29.4	36.8	42.8
Power input	T1 cooling	Kw	8.8	10.3	13.0	15.9
	T3 cooling	Kw	10.0	12.3	15.9	18.5
EER	T1/T3	Btu/h.W	11.7/8.1	11.7/8.2	11.5/7.9	11.3/7.9
Refrigerant	Type		R410A	R410A	R410A	R410A
	Quantity	kg	4.2	4.2	1.7+2.8	2.25+3.9
Air flow (Indoor fan)		CFM	3,500	4,100	5,500	7,000
ESP (Extend static pressure)		Pa	80	90	110	110
Optional electric heater*		Kw	20.0	20.0	20.0 (or 30.0)	20.0 (or 30.0)
Wired controller			KJR-23B	KJR-23B	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			No	No	Yes	Yes
Net dimension (W×H×D)		mm	1,483×1,138×1,231	1,483×1,138×1,231	1,965×1,230×1,130	1,965×1,230×1,130
Packing (W×H×D)		mm	1,500×1,255×1,160	1,500×1,255×1,160	1,995×1,255×1,160	1,995×1,255×1,160
Net/Gross weight		kg	302/313	323/335	433/453	470/490
Loading Qty.		Pieces	8/32	8/32	6/24	6/24

Model			SMRCT-175CWN1-R(C)	SMRCT-200CWN1-R(C)	SMRCT-250CWN1-R(C)	SMRCT-300CWN1-R(C)
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	T1 cooling	Btu/h	208,000	240,000	300,000	360,000
		Kw	61.0	70.3	87.9	105.5
	T3 cooling	Kw	53.9	58.6	73.8	98.6
Power input	T1 cooling	Kw	18.4	21.6	27.5	33.3
	T3 cooling	Kw	22.8	25.1	32.4	42.6
EER	T1/T3	Btu/h.W	11.3/8.1	11.1/8.0	10.9/7.8	10.8/7.9
Refrigerant	Type		R410A	R410A	R410A	R410A
	Quantity	kg	3.7+3.7	5.65+5.65	6.0+6.0	7.6+7.6
Air flow (Indoor fan)		CFM	7,600	8,800	10,000	12,000
ESP (Extend static pressure)		Pa	110	120	130	270
Optional electric heater*		Kw	40.0	40.0	40.0	40.0
Wired controller			KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E	KJR-12B/dP(T)-E
Centralized controller (Optional)			Yes	Yes	Yes	Yes
Net dimension (W×H×D)		mm	1,670×1,247×2,192	1,670×1,247×2,192	2,320×1,245×2,220	2,320×1,245×2,220
Packing (W×H×D)		mm	1,695×1,284×2,212	1,695×1,284×2,212	2,330×1,275×2,230	2,330×1,275×2,230
Net/Gross weight		kg	590/620	670/700	895/925	910/940
Loading Qty.		Pieces	3/14	3/14	2/10	2/10

*Maximum operating ambient temperature is 52°C.

Air Cooled Chillers (Scroll Comp.)

Air Cooled Scroll Chiller

R410A Environment Friendly Refrigerant

ESMA Compliance

Climatcool® U.S.A.
Hi-Tech Airconditioning

Climatcool air cooled chiller is a kind of air cooled chiller adopt scroll compressors connected with several CHW, FCU & AHU to supply the heating and cooling for the residential and commercial buildings.



25/30Kw module



60Kw module



120Kw module



180Kw module



250Kw module



Wired controller

- ❖ Environment care, R410A environmental friendly refrigerant.
- ❖ Modular design. Max. 16 modules can be combined.
- ❖ Wide range of ambient temperature. Cooling ambient temperature range is from 10°C to 52°C, and heating ambient temperature range is from -10°C to 21°C.
- ❖ Backup functions
- ❖ Save energy. Modular design no need to operate all chillers when the building required partial load.
- ❖ Other features:

Description	Standard	Option
Hermetic scroll compressor	√	
Compressor crankcase heaters	√	
Compressor circuit breakers	√	
Compressor overload protection	√	
Condenser fan direct-drive	√	
Condenser fan (Plastic)	√	
Condenser fan guard	√	
Condenser motor circuit breakers		√
Aluminum fins condenser coils	√	
Low pressure switch	√	
High pressure switch	√	
Wired controller: KJRM-120D/BMK-E	√	

Description	Standard	Option
Wired controller: KJR-120A/MBTE		√
BMS gateway (Lonworks)		√
BMS gateway (BACnet)		√
Remote control input	√	
Alarm signal output	√	
Anti-freezing protection	√	
Over-load protection	√	
Power phases sequence protection	√	
Anti-corrosion fins		√
Water flow switch		√
Three phase power protector		√

Product Lineup

Capacity (Kw@T1)	Model	Heat exchanger type (Water side)	Compressor quantity (Pcs)		Electrical controller quantity	Maximum combinations	Maximum output(Kw)	Wired controller
			Digital	Fixed				
25	SMGBT-F25W/RN1	Double pipe	0	2	1	16	400	KJRM-120D/BMK-E
	SMGBT-D25W/RN1	Double pipe	1	1	1	16	400	
30	SMGBT-F30W/RN1	Double pipe	0	2	1	16	480	
	SMGBT-D30W/RN1	Double pipe	1	1	1	16	480	
60	SMGBT-F60W/RN1	Shell and tube	0	2	1	16	960	
	SMGBT-D60W/RN1	Shell and tube	1	2	1	16	960	
120	SMGBT-F120W/RN1	Shell and tube	0	4	2	8	960	
180	SMGBT-F180W/RN1	Shell and tube	0	6	3	5	900	
250	SMGBT-F250W/RN1	Shell and tube	0	8	2	8	2000	

Air Cooled Chillers (Scroll Comp.)

Specifications - R410A air cooled scroll modular chiller

Model		SMGBT-F25W/RN1	SMGBT-D25W/RN1	SMGBT-F30W/RN1	SMGBT-D30W/RN1
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	T1/T3 cooling	Kw	28.0/24.9	30.0/25.8	30.0/25.8
	Heating	Kw	29.5	32.0	32.0
Power input	T1/T3 cooling	Kw	9.3/11.16	10.0/12.0	10.0/12.0
	Heating	Kw	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		R410A	R410A	R410A	R410A
Compressor	Type *	F	D+F	F	D+F
	Quantity	2	1+1	2	1+1
Water side heat exchange	Type	Double pipe heat exchanger			
	Water flow	m ³ /h	4.8	5.2	5.2
	Pressure drop	kPa	60	60	60
	Connection pipe	DN40	DN40	DN40	DN40
Air side heat exchange	Type	Fin-coil heat exchanger			
	Fan type×Qty.	Axial×1	Axial×1	Axial×1	Axial×1
	Air flow	m ³ /h	12,000	12,000	12,000
	Fan motor input	Kw	0.4	0.4	0.4
Noise level	dB(A)	65	65	65	65
Net dimension (D×H×W)	mm	1,514×1,865×841	1,514×1,865×841	1,514×1,865×841	1,514×1,865×841
Packing (W×H×W)	mm	1,590×2,065×995	1,590×2,065×995	1,590×2,065×995	1,590×2,065×995
Net/Operation weight	kg	380/420	380/420	380/420	380/420
Loading Qty.	20'/40'HQ	Pieces	6/14	6/14	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	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	T1/T3 cooling	Kw	60.0/51.6	120.0/103.2	180.0/155.8	250.0/216.0
	Heating	Kw	64.0	65.0	128.0	195.0
Power input	T1/T3 cooling	Kw	19.3/23.16	38.5/46.2	57.9/58.5	78.3/86.3
	Heating	Kw	19.8	20.4	41.5	59.4
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		R410A	R410A	R410A	R410A	R410A
Compressor	Type *	F	D+F	F	F	F
	Quantity	2	1+2	4	6	8
Water side heat exchange	Type	Shell and tube heat exchanger				
	Water flow	m ³ /h	10.3	22.4	31.0	43.0
	Pressure drop	kPa	15	25	30	40
	Connection pipe	DN100	DN100	DN65	DN80	DN100
Air side heat exchange	Type	Fin-coil heat exchanger				
	Fan type×Qty.	Axial×2	Axial×2	Axial×4	Axial×6	Axial×8
	Air flow	m ³ /h	24,000	48,000	72,000	96,000
	Fan motor input	Kw	0.7×2	0.7×4	0.7×6	0.7×8
Noise level	dB(A)	65	67	70	74	74
Net dimension (D×H×W)	mm	2,000×1,880×900	2,000×1,880×900	2,000×2,090×1,685	2,850×2,110×2,000	3,800×2,130×2,000
Packing (W×H×W)	mm	2,090×2,055×985	2,090×2,055×985	2,090×2,240×1,755	2,980×2,260×2,135	3,900×2,200×2,100
Net/Operation weight	kg	580/650	600/670	1,150/1,270	1,730/2,000	2,450/2,600
Loading Qty.	20'/40'HQ	Pieces	5/11	3/6	1/3	1/3

Notes:

* Compressor type, D means Digital scroll compressor; F means Fixed scroll compressor.

T3 cooling: Inlet/outlet chilled water temperature is 12°C/7°C, Outdoor ambient temperature is 46°C DB.

T1 cooling: Inlet/outlet chilled water temperature is 12°C/7°C, Outdoor ambient temperature is 35°C DB.

Heating: Inlet/outlet warm water temperature is 40°C DB/45°C WB; Outdoor temperature 7°C DB/6°C WB.

Water side fouling factor: 0.086m²·°C/Kw.

Air Cooled Chillers (Screw Comp.)

Air Cooled Screw Chiller

R134A Environment Friendly Refrigerant

ESMA Compliance

Climatcool[®]
Hi-Tech Airconditioning U.S.A.

Climatcool Aqua Force series air cooled chiller is a kind of air cooled chiller adopt screw compressors connected with several CHW, FCU & AHU to supply the heating and cooling for the residential and commercial buildings



SLSBLGW380/C(T3)



SLSBLGW500/C(T3)



SLSBLGW600/C(T3)



SLSBLGW760/C(T3)



SLSBLGW900/C(T3)



SLSBLGW1000/C(T3)



SLSBLGW1200/C(T3)

- ❖ Advanced twin-rotor screw compressor. Adopts the latest advanced 5-6 asymmetry dentiform rotors.
- ❖ The compressor motor is direct drive type with two poles to operate. It is non-reversing, squirrel cage induction type suitable for the voltage shown on the equipment schedule.
- ❖ Standard **Bitzer** compressor, other brands are optional.
- ❖ The microprocessor controller on the state of art microprocessor technology. It can monitor and control the operation of the unit by operating parameter automatically.
- ❖ The unit reserved with RS485 port can be interfaced with BAS (Building Automation System).
- ❖ Multi-functions: Power-down memory function, self-diagnosis, data acquisition & storing, and so on.
- ❖ Touchable control with colorful screen.
- ❖ Applicable range:

Content	Running range
Ambient temperature	Tropical application: 15°C~52 °C
Outlet water temperature	5°C~15°C
Max. inlet/outlet water temperature defference	8 °C
Voltage tolerance	Rating voltage: ±10%
Power supply frequency	Rating frequency: ±2%
Compressor Max. start count	4 times per hour
Environment quality	High corrosive environment and high humidity should be avoid.

Air Cooled Chillers (Screw Comp.)

Specifications - R134a Air Cooled Screw Modular Chiller

Model			SLSBLGW300/C(T3)	SLSBLGW410/C(T3)	SLSBLGW500/C(T3)	SLSBLGW600/C(T3)
Power supply			380V, 3P+N+PE, 50Hz	380V, 3P+N+PE, 50Hz	380V, 3P+N+PE, 50Hz	380V, 3P+N+PE, 50Hz
Cooling capacity		Kw	310	408	500	601
Compressor	Type	Semi-hermetic, twin screw compressor				
	Quantity		2	2	2	2
	Capacity step		8-step: 12.5%, 25%, 37.5%, 50%, 62.5%, 75%, 87.5%, 100%			
Refrigerant type			R134a			
Water side heat exchange	Type		Shell and tube heat exchange			
	Water flow	m ³ /h	51.6	70.2	86.0	103.2
	Pressure drop	Pa	35	39	54	56
	Connection pipe		DN125	DN125	DN125	DN125
Air side heat exchange	Type		M shape, Fin-coil heat exchange			
	Fan type×Qty.		Axial×6	Axial×6	Axial×8	Axial×10
	Air flow	m ³ /h	23,000×6	23,000×6	23,000×8	23,000×10
	Motor input	Kw	2.4×6	2.4×6	2.4×8	2.4×10
Net dimension (W×H×L)		mm	2,280×2,370×3,810	2,280×2,370×3,810	2,280×2,370×4,680	2,280×2,370×5,800
Shipping weight		kg	3,260	3,320	4,730	5,500
Operation weight		kg	3,480	3,540	5,040	5,740
Operation ambient temperature rage			15°C~52°C			
Loading Qty.	40'/40'HQ	Pcs	3/3	3/3	2/2	2/2

Model			SLSBLGW760/C(T3)	SLSBLGW900/C(T3)	SLSBLGW1000/C(T3)	SLSBLGW1200/C(T3)
Power supply			380V, 3P+N+PE, 50Hz	380V, 3P+N+PE, 50Hz	380V, 3P+N+PE, 50Hz	380V, 3P+N+PE, 50Hz
Cooling capacity		Kw	756	902	996	1,203
Compressor	Type	Semi-hermetic, twin screw compressor				
	Quantity		2	2	2	2
	Capacity step		8-step: 12.5%, 25%, 37.5%, 50%, 62.5%, 75%, 87.5%, 100%			
Refrigerant type			R134a			
Water side heat exchange	Type		Shell and tube heat exchange			
	Water flow	m ³ /h	130.7	155.1	172.0	206.4
	Pressure drop	Pa	75	74	75	71
	Connection pipe		DN150	DN150	DN150	DN200
Air side heat exchange	Type		M shape, Fin-coil heat exchange			
	Fan type×Qty.		Axial×12	Axial×14	Axial×16	Axial×20
	Air flow	m ³ /h	23,000×12	23,000×14	23,000×16	23,000×20
	Motor input	Kw	2.4×12	2.4×14	2.4×16	2.4×20
Net dimension (W×H×D)		mm	2,280×2,430×7,720	2,280×2,430×8,800	2,280×2,430×9,640	2,280×2,430×11,700
Shipping weight		kg	6,630	7,980	9,160	9,580
Operation weight		kg	7,080	8,600	9,760	10,350
Operation ambient temperature rage			15°C~52°C			
Loading Qty.	40'HQ	Pcs	1	1	1	1

Notes:

The capacity is based on the following conditions:

Chilled water inlet/outlet temperature is 12°C/7°C, Outdoor temperature 35°C DB/24°C WB.

Noise preventer is required.

Water side fouling factor: 0.086m²·°C/Kw.



VRF Tropical Inverter Type

ESMA Compliance

Climatcool®
U.S.A.
Hi-Tech Airconditioning

R410A Environment Friendly Refrigerant

Climatcool tropical VRF system is designed and manufactured to offer the solutions for villas, hotels, hospital, offices, shops, schools, malls, skyscrapers, high rise tower buildings or large projects and other applications under high ambient temperature. World leading DC inverter scroll compressor. Dual inverter compressor, most energy efficient: IPLV-7.5 W/W. Largest basic modular capacity 16HP and largest single system capacity 64HP, can be extended up to 88 HP for tropical applications.

The system supports total length of 1,000m and level difference of 110m. Climatcool D4 Plus offers the solution for skyscrapers, high rise tower buildings or large projects.

Possibility to connect up to 64 IDUs to a single set of ODU.

Tropical design operation up to 54°C ambient temperature.

Capacity (KW@T1)	10.5	14	25	28	33	40	45	56	61 -> & More
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DC Inverter Mini VRF



DC Inverter V5X



8 ~ 10HP



16 ~ 20HP



24 ~ 30HP

Indoor Units Lineup Standard or with DC Motor for VRF and Splits

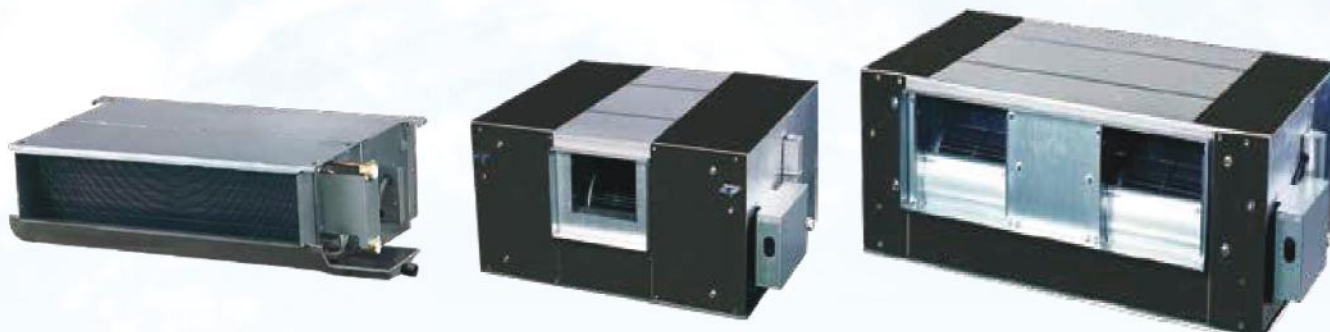
Capacity (x100W)		15	18	22	28	36	45	56	71	80	90	100	112	125	140	160	200	250	280	400	450	560
One-way Cassette			●	●	●	●	●	●	●													
Two-way Cassette				●	●	●	●	●	●													
Compact Four-way Cassette		●		●	●	●	●															
Four-way Cassette					●	●	●	●	●	●	●	●	●		●							
Concealed Duct Unit (A5 Type)		●		●	●	●	●	●														
										●	●		●		●							
High Static Pressure Duct									●	●	●		●									
															●	●						
																	●	●	●			
																				●	●	●
Low Static Pressure Duct			●	●	●	●	●	●	●													
Ceiling & Floor						●	●	●	●	●	●		●		●	●						
Wall Mounted		●		●	●	●	●	●														
				●	●	●	●	●														
									●	●	●											
Fresh Air Processing Unit														●	●							
																	●	●	●			

Refer to the complete VRF manual for more information

Chilled Water FCU & AHU

2-Pipe Duct Type Air Handler

Climatcool[®] U.S.A.
Hi-Tech Airconditioning



Features

- Capacity range: 200~2000CFM, available in 2-pipe having 2 rows or 3 rows or 4 rows.
- 220-240V/1Ph/50Hz power supply is standard, 208-230V/1Ph/60Hz can be customized.
- Wide external static pressure supplying. Three external static pressure (12Pa/30Pa/50Pa) settings for added flexibility.
- A patent design is able to prevent abnormal noise caused by blowing flins.
- Higher efficient heat exchange for complete contranatant 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 connections, field convertible.
- Fresh air supply makes life healthier and more comfortable.

12Pa ESP	SMKT2-200(E)G12	SMKT2-300(E)G12	SMKT2-400(E)G12	SMKT2-500(E)G12	SMKT2-600(E)G12	SMKT2-800(E)G12	SMKT2-1000(E)G12	SMKT2-1200(E)G12	SMKT2-1400(E)G12
30Pa ESP	SMKT2-200(E)G30	SMKT2-300(E)G30	SMKT2-400(E)G30	SMKT2-500(E)G30	SMKT2-600(E)G30	SMKT2-800(E)G30	SMKT2-1000(E)G30	SMKT2-1200(E)G30	SMKT2-1400(E)G30

12Pa ESP	SMKT3-200(E)G12	SMKT3-300(E)G12	SMKT3-400(E)G12	SMKT3-500(E)G12	SMKT3-600(E)G12	SMKT3-800(E)G12	SMKT3-1000(E)G12	SMKT3-1200(E)G12	SMKT3-1400(E)G12
30Pa ESP	SMKT3-200(E)G30	SMKT3-300(E)G30	SMKT3-400(E)G30	SMKT3-500(E)G30	SMKT3-600(E)G30	SMKT3-800(E)G30	SMKT3-1000(E)G30	SMKT3-1200(E)G30	SMKT3-1400(E)G30
50Pa ESP	50Pa can be customized					SMKT3-800G50-A4	SMKT3-1000G50-A4		

4-Row Duct									
12Pa ESP	12Pa can be customized								
30Pa ESP	SMKT4-200(E)G30	SMKT4-300(E)G30	SMKT4-400(E)G30	SMKT4-500(E)G30	SMKT4-600(E)G30	SMKT4-800(E)G30	SMKT4-1000(E)G30	SMKT4-1200(E)G30	SMKT4-1400(E)G30
50Pa ESP	SMKT4-800G50-A4	SMKT4-1000G50-A4	SMKT4-1200G50-A4	SMKT4-1400G50-A4	SMKT4-1600G50-A4	SMKT4-1800G50-A4	SMKT4-2000G50-A4		

Specifications -2-Row Duct Type (Low Static)

Model SMKT2-				200G12 200G30 200EG30	300G12 300G30 300EG30	400G12 400G30 400EG30	500G12 500G30 500EG30	600G12 600G30 600EG30
Air flow	H/M/L	m³/h		340/255/170	510/385/255	680/510/340	850/640/425	1020/765/510
	H/M/L	CFM		200/150/100	300/225/150	400/300/200	500/375/250	600/450/300
External Static pressure			Pa	G12 models: 12; G30 models: 30				
Cooling	Capacity	H/M/L	Kw	2/1.74/1.52	2.7/2.31/2.03	3.6/3.11/2.66	4.4/3.74/3.25	5.5/4.58/4.09
	Water flow rate	H	l/h	344	464	619	757	946
	Water pressure drop	H	kPa	5	11	19	22	14
Heating	Capacity	H/M/L	Kw	3.2/2.75/2.37	4.3/3.74/3.23	5.4/4.64/4.05	6.8/5.78/5.07	8.1/6.77/5.92
	Water pressure drop	H	kPa	4.2	9.5	15.5	18.3	11.8
Power supply			V/ph/Hz	220-240/1/50				
Power input	12Pa	H	W	31	50	60	80	97
	30Pa	H	W	45	60	67	89	110
Electric heater capacity		E	W	550	650	1100	1100	1600
Sound pressure level	12Pa	H/M/L	dB(A)	36/34/29	38/33/29	38/35/31	39/36/32	40/36/33
	30Pa	H/M/L	dB(A)	41/37/31	41/37/32	42/39/33	45/41/34	46/41/35
Fan motor	Type	Low noise 4-speed fan motor						
	Quantity							
Fan	Type	Centrifugal, forward-curved Blades						
	Quantity							
Coil	Row	2						
	Max. Working pressure	MPa						
	Diameter	mm						
Body	Dimensions	W×H×D	mm	741×241×522	841×241×522	941×241×522	941×241×522	1161×241×522
	Packing	W×H×D	mm	790×260×550	890×260×550	990×260×550	990×260×550	1210×260×550
	Net weight	*/E	kg	13.9/15.4	16.5/18	19.2/20.7	19.2/20.7	22/24
	Gross weight	*/E	kg	16.2/17.7	19/20.5	21.6/23.1	21.6/23.1	25/27
Pipe connection	Water inlet/outlet pipe	Inch		RC3/4				
	Drain pipe	mm		ODΦ24				

Model SMKT2-				800G12 800G30 800EG30	1000G12 1000G30 1000EG30	1200G12 1200G30 1200EG30	1400G12 1400G30 1400EG30
Air flow	H/M/L	m³/h		1360/1020/680	1700/1275/850	2040/1530/1020	2380/1785/1190
	H/M/L	CFM		800/600/400	1000/750/500	1200/900/600	1400/1050/700
External Static pressure			Pa	G12 models: 12; G30 models: 30			
Cooling	Capacity	H/M/L	Kw	7.5/6.33/5.68	8.9/7.61/6.41	10.8/9.13/7.93	12.3/10.46/9.27
	Water flow rate	H	l/h	1290	1531	1858	2116
	Water pressure drop	H	kPa	14	22	39	46
Heating	Capacity	H/M/L	Kw	11/9.48/8.25	13.5/11.72/10.03	16.5/14.05/12.24	19.5/16.85/14.63
	Water pressure drop	H	kPa	12.5	19	32.6	40.1
Power supply			V/ph/Hz	220-240/1/50			
Power input	12Pa	H	W	140	172	205	216
	30Pa	H	W	130	171	212	249
Electric heater capacity		E	W	2200	2200	3200	3200
Sound pressure level	12Pa	H/M/L	dB(A)	42/37/33	44/39/34	46/40/35	48/42/37
	30Pa	H/M/L	dB(A)	46/41/36	47/43/37	48/44/38	49/44/39
Fan motor	Type	Low noise 4-speed fan motor					
	Quantity						
Fan	Type	Centrifugal, forward-curved Blades					
	Quantity						
Coil	Row	2					
	Max. Working pressure	MPa					
	Diameter	mm					
Body	Dimensions	W×H×D	mm	1461×241×522	1566×241×522	1856×241×522	2022×241×522
	Packing	W×H×D	mm	1510×260×550	1615×260×550	1905×260×550	2070×260×550
	Net weight	*/E	kg	30.9/33.4	33.4/36.4	38.5/42	42.1/46.1
	Gross weight	*/E	kg	34.5/37	37/40	42/45.5	47.5/51.5
Pipe connection	Water inlet/outlet pipe	Inch		RC3/4			
	Drain pipe	mm		ODΦ24			

Note:

1. H: high fan speed; M: medium fan speed; L: low fan speed.
2. The data is the performance in relevant external static pressure.
3. Cooling conditions: entering water 7℃, temperature rise 5℃, entering air temperature 27℃DB/19℃WB.
Heating conditions: entering water 50℃, entering air temperature 20℃DB, the same water flow as the cooling conditions.
4. The noise is tested in the semi-anechoic test room.
5. * for models without electric heater, E for models with electric heater.

Specifications - 3-Row Duct Type (Low Static)

Model SMKT3-				200G12 200G30 200EG30	300G12 300G30 300EG30	400G12 400G30 400EG30	500G12 500G30 500EG30	600G12 600G30 600EG30
Air flow	H/M/L	m ³ /h		340/255/170	510/385/255	680/510/340	850/640/425	1020/765/510
	H/M/L	CFM		200/150/100	300/225/150	400/300/200	500/375/250	600/450/300
External Static pressure			Pa	G12 models: 12; G30 models: 30				
Cooling	Capacity	H/M/L	Kw	2.2/1.9/1.68	3.1/2.7/2.3	4/3.4/2.95	4.6/3.96/3.45	5.8/4.88/4.45
	Water flow rate	H	l/h	378	533	688	791	998
	Water pressure drop	H	kPa	14	26	18	24	36
Heating	Capacity	H/M/L	Kw	3.5/3.08/2.59	5.3/4.61/3.98	6.8/5.85/5.1	7.9/6.95/6	9.8/8.6/7.4
	Water pressure drop	H	kPa	10.5	21.8	16.9	22.3	31.6
Power supply			V/ph/Hz	220-240/1/50				
Power input	12Pa	H	W	33	53	66	87	100
	30Pa	H	W	49	64	75	93	114
Electric heater capacity		E	W	550	650	1100	1100	1600
Sound pressure level	12Pa	H/M/L	dB(A)	35/32/26	36/33/27	37/34/28	40/36/30	42/38/32
	30Pa	H/M/L	dB(A)	41/37/31	42/38/32	43/39/33	44/40/34	45/41/35
Fan motor	Type	Low noise 4-speed fan motor						
	Quantity	1						
Fan	Type	Centrifugal, forward-curved Blades						
	Quantity	1						
Coil	Row	3						
	Max. Working pressure	MPa						
	Diameter	mm						
Body	Dimensions	W×H×D	mm	741×241×522	841×241×522	941×241×522	941×241×522	1161×241×522
	Packing	W×H×D	mm	790×260×550	890×260×550	990×260×550	990×260×550	1210×260×550
	Net weight	*/E	kg	14.6/16.1	17/18.5	20.2/21.7	20.2/21.7	23/25
	Gross weight	*/E	kg	16.9/18.4	19.5/21	22.6/24.1	22.6/24.1	26/28
Pipe connection	Water inlet/outlet pipe	Inch		RC3/4				
	Drain pipe	mm		ODΦ24				

Model SMKT3-				800G12 800G30 800EG30	800G50-A4	1000G50-A4	1000G12 1000G30 1000EG30	1200G12 1200G30 1200EG30	1400G12 1400G30 1400EG30
Air flow		H/M/L	m³/h	1360/1020/680	1512/1412/1265	1738/1664/1554	1700/1275/850	2040/1530/1020	2380/1785/1190
		H/M/L	CFM	800/600/400	890/831/745	1023/980/915	1000/750/500	1200/900/600	1400/1050/700
External Static pressure			Pa	G12 models:12; G30models: 30 G50mode:50					
Cooling	Capacity	H/M/L	kW	8.2/6.88/6.25	6.97/6.66/6.28	7.77/7.58/7.33	97.8/6.57	11/9.8/8.35	12.5/10.8/9.44
	Water flow rate	H	l/h	1410	1198	1336	1548	1892	2150
	Water pressure drop	H	kPa	39	19	24.5	32	39	45
Heating	Capacity	H/M/L	kW	13.6/11.97/10.2	9.57/9.09/8.43	10.61/10.25/9.82	16/14.24/12	20.1/18.27/15.43	21/18.7/15.75
	Water pressure drop	H	kPa	33.8	16.9	21.1	30.7	34.6	40.1
Power supply			V/ph/Hz	220-240/1/50					
Power input	12Pa	H/M/L	W	145	/	/	180	210	222
	30Pa			154	/	/	180	220	278
	50Pa			/	151/130/111	174/147/130	/	/	/
Electric heater capacity		E	W	2200	/	/	2200	3200	3200
Sound pressure level	12Pa	H/M/L	dB(A)	43/39/33	/	/	45/41/35	46/42/36	48/44/38
	30Pa			46/42/36	/	/	47/43/37	48/44/38	49/45/39
	50Pa			/	49.7/47.8/45.6	50.1/48/45.8	/	/	/
Fan motor	Type			Low noise 4-speed fan motor					
	Quantity			2	1	1	2	2	2
Fan	Type			Centrifugal, forward-curved Blades					
	Quantity			4	2	2	4	4	4
Coil	Row			3					
	Max. Working pressure		MPa	1.6					
	Diameter		mm	Φ9.52					
Body	Dimensions	W×H×D	mm	1461×241×522	1180×340×612	1180×340×612	1566×241×522	1856×241×522	2022×241×522
	Packing	W×H×D	mm	1510×260×550	1310×380×693	1310×380×693	1615×260×550	1905×260×550	2070×260×550
	Net weight	*E	kg	31.9/34.4	38.3	39.8	34.4/37.4	39.5/43	43.1/47.1
	Gross weight	*E	kg	35.5/38	47.2	48.6	38.1/41.1	43/46.5	48.4/52.4
Pipe connection	Water inlet/outlet pipe		Inch	RC3/4					
	Drain pipe		mm	ODΦ24					

Note:

1. H: high fan speed; M: medium fan speed; L: low fan speed.
2. The data is the performance in relevant external static pressure.
3. Cooling conditions: entering water 7℃, temperature rise 5℃, entering air temperature 27℃DB/19℃WB.
Heating conditions: entering water 50℃, entering air temperature 20℃DB, the same water flow as the cooling conditions.
4. The noise is tested in the semi-anechoic test room.
5. * for models without electric heater, E for models with electric heater.

Specifications -4-Row Duct Type (Low Static)

Model SMKT4-				200G30	300G30	400G30	500G30	600G30	800G30	1000G30
Air flow	H/M/L	m³/h		340/255/170	510/385/255	680/510/340	850/640/425	1020/765/510	1360/1020/680	1700/1275/850
	H/M/L	CFM		200/150/100	300/225/150	400/300/200	500/375/250	600/450/300	800/600/400	1000/750/500
External Static pressure			Pa	30	30	30	30	30	30	30
Cooling	Capacity	H/M/L	Kw	2.5/2.16/1.87	3.3/2.85/2.47	4.4/3.72/3.22	4.8/4.18/3.64	6.2/5.38/4.65	8.8/7.43/6.57	9.5/8.18/7.06
	Water flow rate	H	l/h	430	568	757	826	1066	1514	1634
	Water pressure drop		kPa	2.6	5	8.1	9.8	15.4	12.3	18
Heating	Capacity	H/M/L	Kw	4.1/3.51/3.03	5.8/5.05/4.35	7.1/6.11/5.33	8.5/7.04/6.28	10.5/9.03/7.77	14.5/12.38/10.88	16.3/13.45/12.05
	Water pressure drop	H	kPa	2.2	4.2	6.9	8.1	12.7	10	15.4
Power supply		V/ph/Hz		220-240/1/50						
Power input		H	W	50	65	80	98	110	155	180
Sound pressure level		H/M/L	dB(A)	37/33/27	38/34/28	38/35/29	40/35/30	41/36/31	42/37/32	44/39/33
Fan motor	Type	Low noise 4-speed fan motor								
	Quantity			1	1	1	1	1	2	2
Fan	Type	Centrifugal, forward-curved Blades								
	Quantity			1	2	2	2	2	4	4
Coil	Row			4						
	Max. Working pressure		MPa	1.6						
	Diameter		mm	Φ9.52						
Body	Dimensions	W×H×D	mm	741×241×522	841×241×522	941×241×522	941×241×522	1161×241×522	1461×241×522	1566×241×522
	Packing	W×H×D	mm	790×260×550	890×260×550	990×260×550	990×260×550	1210×260×550	1510×260×550	1615×260×550
	Net weight		kg	15.3	17.5	20.7	20.7	23.5	32.9	35.4
	Gross weight		kg	17.6	20	23.1	23.1	26.5	36.5	39.1
Pipe connection	Water inlet/outlet pipe		Inch	RC3/4						
	Drain pipe		mm	OD Φ24						

Model SMKT4(H)- High Static				1200G30	1400G30	1500	1500G50	2000	2000G50
Air flow		H/M/L	m³/h	2040/1530/1020	2380/1785/1190	2550/2100/1300	2550/2100/1300	3400/2550/1700	3400/2550/1700
		H/M/L	CFM	1200/900/600	1400/1050/700	1500/1240/760	1500/1240/760	2000/1500/1000	2000/1500/1000
External Static pressure			Pa	30	30	30	50	30	50
Cooling	Capacity	H/M/L	Kw	11.8/9.82/8.74	13/11.23/9.83	13.5/11.5/10.1	13.5/11.5/10.1	18/15.3/13.5	18/15.3/13.5
	Water flow rate	H	l/h	2030	2236	2322	2322	3096	3096
	Water pressure drop	H	kPa	21.2	24.7	11.5	11.5	26.2	26.2
Heating	Capacity	H/M/L	Kw	16.5/14.05/12.23	17/14.31/12.69	17.5/14.9/13.2	17.5/14.9/13.2	23.4/19.8/17.5	23.4/19.8/17.5
	Water pressure drop	H	kPa	17.6	20.8	10	10	24.3	24.3
Power supply			V/ph/Hz	220-240/1/50					
Power input		H	W	220	275	236	474	360	665
Sound pressure level		H/M/L	dB(A)	45/40/34	47/42/36	48/44/39	51/47/42	50/46/41	53/49/44
Fan motor	Type			Low noise 4-speed fan motor					
	Quantity			2	2	1	1	1	1
Fan	Type			Centrifugal, forward-curved Blades					
	Quantity			4	4	2	2	3	3
Coil	Row			4					
	Max. Working pressure		MPa	1.6					
	Diameter		mm	Φ9.52					
Body	Dimensions	W×H×D	mm	1856×241×522	2022×241×522	1369×342×612	1369×342×612	1500×342×612	1500×342×612
	Packing	W×H×D	mm	1905×260×550	2070×260×550	1421×381×619	1421×381×619	1552×381×619	1552×381×619
	Net weight		kg	40.5	44.1	46	46	57	53.7
	Gross weight		kg	44	49.4	49.8	50	61	58.6
Pipe connection	Water inlet/outlet pipe		Inch	RC3/4					
	Drain pipe		mm	ODΦ24					

Note:

1. H: high fan speed; M: medium fan speed; L: low fan speed.
2. The data is the performance in relevant external static pressure.
3. Cooling conditions: entering water 7℃, temperature rise 5℃, entering air temperature 27℃ DB/19℃ WB.
4. Heating conditions: entering water 50℃, entering air temperature 20℃ DB, the same water flow as the cooling conditions.
5. The noise is tested in the semi-anechoic test room.

Specifications -4-Row Duct Type (Medium Static)

Model SMKT4-				800G50-A4	1000G50-A4	1200G50-A4	1400G50-A4
Air flow	H/M/L	m³/h		1454/1342/1200	1646/1527/1405	2049/1851/1666	2424/1851/1666
	H/M/L	CFM		856/790/706	970/900/827	1206/1090/981	1427/1090/981
External Static pressure			Pa	50	50	50	50
Cooling	Capacity	H/M/L	Kw	7.92/7.56/7.09	8.15/7.93/7.54	10.99/10.17/9.55	12.14/10.17/9.55
	Water flow rate	H	l/h	1363	1402	1890	2089
	Water pressure drop	H	kPa	48.0	21.4	27.8	32.5
Heating	Capacity	H/M/L	Kw	10.42/9.89/9.12	11.25/10.72/10.06	14.35/13.23/12.22	16.08/13.23/12.22
	Water pressure drop	H	kPa	39.7	23.3	24.8	29.2
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power input	50Pa	H/M/L	W	144/124/105	176/146/128	320/284/250	392/284/250
Sound pressure level	50Pa	H/M/L	dB(A)	48.4/47.9/46.6	49.5/48.1/47.3	50.9/50/48.5	51.7/50/49.5
Fan motor	Type		Low noise 4-speed fan motor				
	Quantity			1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades				
	Quantity			2	2	2	2
Coil	Row			4	4	4	4
	Max. Working pressure		MPa	1.6	1.6	1.6	1.6
	Diameter		mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Body	Dimensions	W×H×D	mm	1180x340x612	1180x340x612	1369x340x612	1369x340x612
	Packing	W×H×D	mm	1310x380x693	1310x380x693	1490*380*693	1490*380*693
	Net weight		kg	39.3	40.8	46.3	46.3
	Gross weight		kg	47	49.6	56.4	56.4
Pipe connection	Water inlet/outlet pipe		Inch	RC3/4	RC3/4	RC3/4	RC3/4
	Drain pipe		mm	ODΦ24	ODΦ24	ODΦ24	ODΦ24

Model SMKT4-				1600G50-A4	1800G50-A4	2000G50-A4
Air flow	H/M/L	m³/h		2431/1917/1742	3380/2239/1878	3668/2544/2199
	H/M/L	CFM		1431/1128/1025	1990/1318/1105	2160/1497/1294
External Static pressure			Pa	50	50	50
Cooling	Capacity	H/M/L	Kw	12.19/10.54/9.87	16.16/12.35/11.01	17.34/13.75/12.44
	Water flow rate	H	l/h	2096	2779	2983
	Water pressure drop	H	kPa	33.4	58.3	61.5
Heating	Capacity	H/M/L	Kw	16.55/13.83/12.9	21.7/15.79/13.91	23.4/17.92/16.08
	Water pressure drop	H	kPa	30.0	52.3	52.9
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power input	50Pa	H/M/L	W	482/338/296	538/358/308	583/387/334
Sound pressure level	50Pa	H/M/L	dB(A)	52.9/50.7/50	53.6/51.1/50.2	54.4/52.7/51.6
Fan motor	Type		Low noise 4-speed fan motor			
	Quantity			1	1	1
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity			2	3	3
Coil	Row			4	4	4
	Max. Working pressure		MPa	1.6	1.6	1.6
	Diameter		mm	Φ9.52	Φ9.52	Φ9.52
Body	Dimensions	W×H×D	mm	1369x340x612	1500x340x612	1500x340x612
	Packing	W×H×D	mm	1490*380*693	1620x380x693	1620x380x693
	Net weight		kg	46.3	54.8	54.8
	Gross weight		kg	56.4	64.6	64.6
Pipe connection	Water inlet/outlet pipe		Inch	RC3/4	RC3/4	RC3/4
	Drain pipe		mm	ODΦ24	ODΦ24	ODΦ24

Note:

1. H: high fan speed; M: medium fan speed; L: low fan speed.

2. The data is the performance in relevant external static pressure.

3. Cooling conditions: entering water 7℃, temperature rise 5℃, entering air temperature 27℃DB/19℃WB.

Heating conditions: entering water 50℃, entering air temperature 20℃DB, the same water flow as the cooling conditions.

4. The noise is tested in the semi-anechoic test room.

Double Skin Air Handling Units Chilled Water & DX Type

Climatcool®
U.S.A.
Hi-Tech Airconditioning



220-240V~50Hz~1Ph
380-415V~50Hz~3Ph

As a leader in HVAC, Climatcool offers a quality range of 12 models with airflow starting from 1000 CMH and 150 mm total static pressure, to 8000 CMH and 450 MM total static pressure with following salient features:

ROBUST CONSTRUCTION

The frame work comprises an assembly of extruded aluminum profiles and peralluman nylon glass fiber reinforced corner joints. The double skin sandwich panels with injection polyurethane foam provide robust casing construction for high static systems. The unit sections are mounted on galvanized sheet steel channel and aluminum die cast legs to assure stability and ease of lifting and handling at site. HIGH IAQ AIR SUPPLY Double skin panel construction allows easy inspection, cleaning and maintenance of interior surfaces. Moisture intrusions and microbial growth and inhibited with non-hydroscopic properties of polyurethane foam. Various options of flat filter, frontal flat filter, bag filter and hepa filter media are available to meet the different air quality requirements. Double door gaskets are used for positive sealing of access panel.

COIL SECTION

Coil section is designed for Cooling coil, Heating Coil, and Direct expansion coil. The coils are mounted on 14g galvanized steel sheet rigid frame with additional channel frame for easy access during servicing. Drain pan is fabricated from 0.8 mm (22g) stainless steel sheet and stainless steel nipple for drain connection. Entire assembly is mounted on PUF insulated bottom panel.

APPLICATION FLEXIBILITY

The major components such as fans, cooling coils, heating coils, filter etc. can be selected as per the desired indoor conditions. The modular construction of the units further helps in choosing the right unit for every application. Moreover, the handling and transportation of the unit is much easier in knockdown condition. The fan discharge location can be changed from horizontal to vertical per site requirement without affecting the overall dimensions.

LOW NOISE

These units are specially designed as per noise control standards. The centrifugal fans have exclusive features. These fans are belt driven and are isolated from the main structure with anti-vibration spring isolators and fire retardant flexible canvas connection. This guarantees minimum vibrations and thus less noise.

ENERGY SAVING FEATURES

The Double Skin Air Handling Units utilize free flow coils. The fins of these coils have a mild ripple with the-formed directional guide channels to improve heat transfer efficiencies.



FRAME WORK

Extruded aluminum profiles joined by 3D Peralluman nylon glass fiber reinforced corner joints form the structural frame to house all internal components. Double Skin sandwich panels are fabricated from inside with 0.63 mm (24g) galvanized sheet steel and outside with 0.63 mm (24g) imported high polymer polyester coated (prepainted) galvanized sheet steel with protection film on the top. The panels are polyurethane foam injection, with PUF density of 40 Kg/M3, resulting in high rigidity and sound attenuation characteristics. Standard panel thickness are 25mm and 50mm. Entire unit is mounted on 2.0 mm (14g) galvanized sheet steel channels of 100mm height and aluminum die-cast legs, with provision of lifting holes. FAN SECTION Fan section is designed for double inlet, double width, forward curved blower up to 85 mm total static pressure with imported Nicotra or Comefri make blowers. BSL-LAU blowers can be supplied as an option.

OPTIONAL PRODUCT FEATURES

Thermal Barrier Air Handling Units are available as optional in 46mm panel thickness. The frame work comprises as assembly of extruded aluminum thermal barrier profiles and nylon glass fiber reinforced corner joints.

Prestigious Installations in the Gulf



Green Community - Dubai



Sarrouh Tower - Palm Jumeirah



Business Bay Tower - Dubai



F1 Motor City - Dubai

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ENVIRO/11-15/4 (REV2)

Manufacturer reserves the right, for product enhancement to make changes in Specifications and Design of the equipment without any prior notice.