



SINRO[®]

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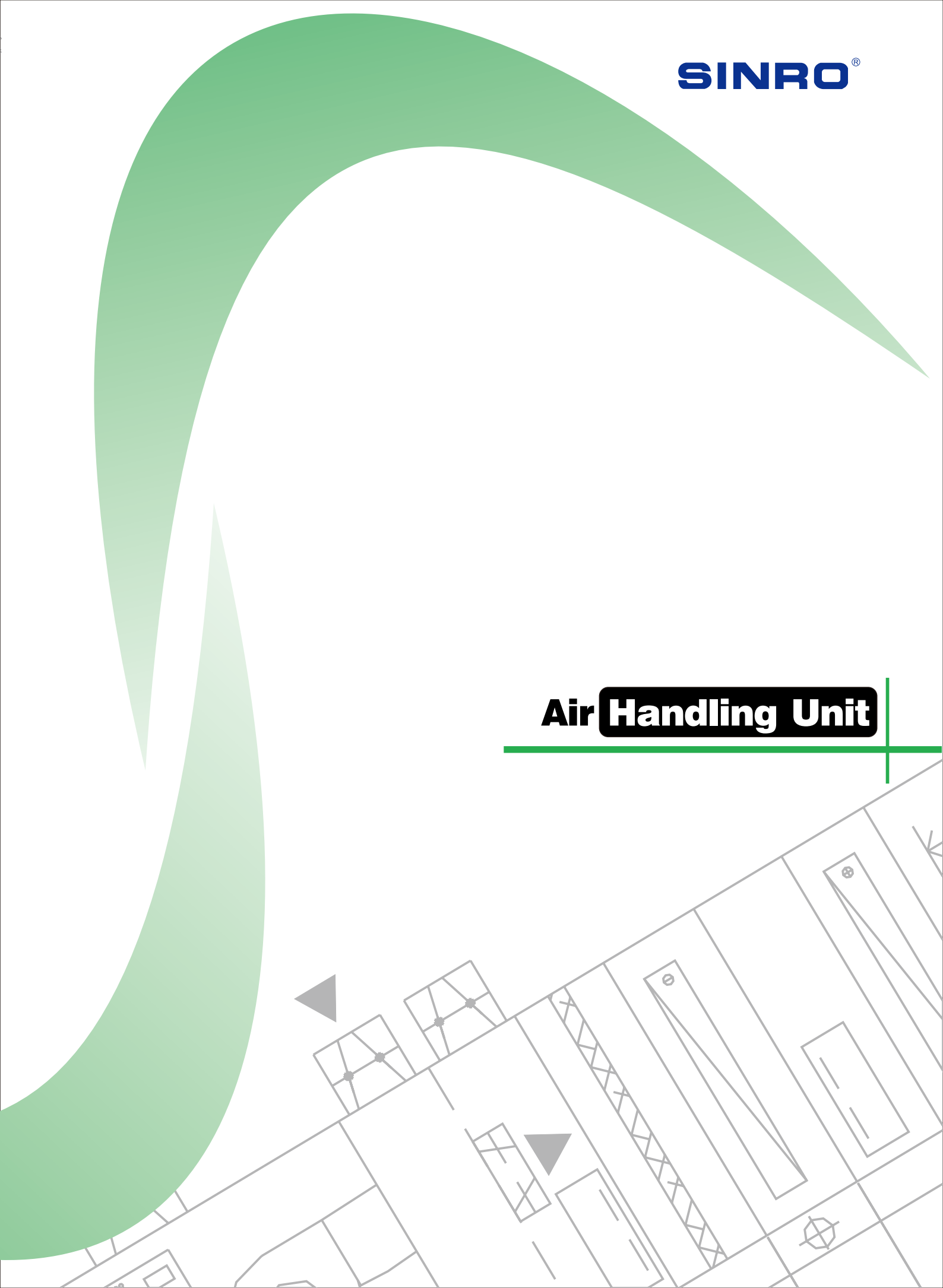
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Air Handling Unit




Our Design Concept



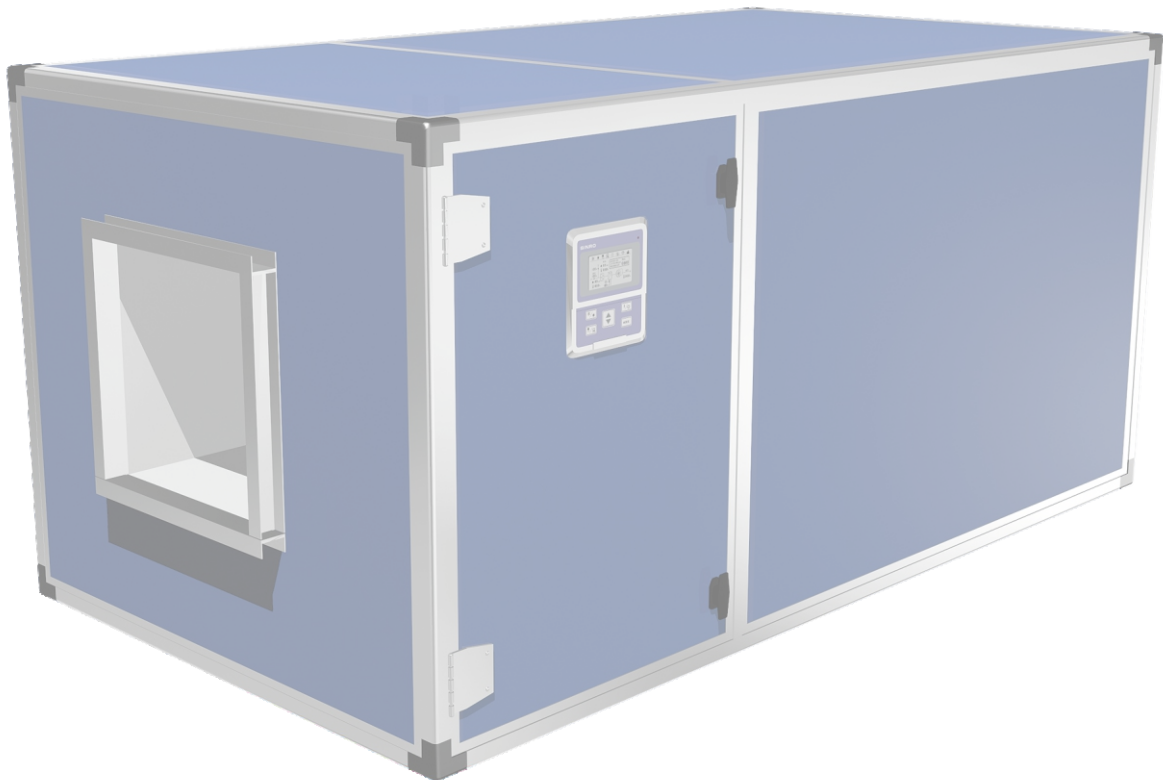


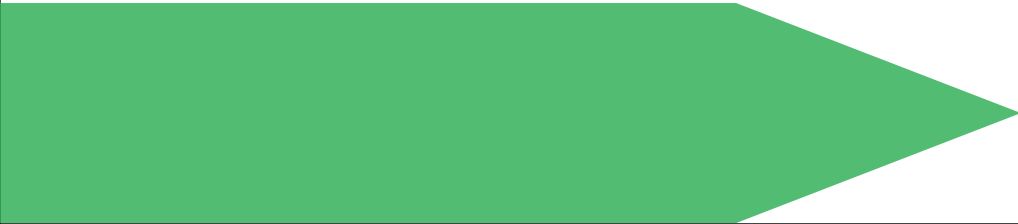
We make it simple

In today's high-quality and high-tech intelligent air-conditioning market, with the people's demand of comfortable, clean and energy-saving of air-conditioning system, Sinro design and manufacture SRA series air handling unit with many years of experience , which have the advantage of new-tech, high-performance and long-life. Each air handling unit is reflecting the Sinro's design concept.



Our Advantage





Sinro have manufactured air handling units many years. After many years of research and development of improved, SRA series air handling units adopt aluminum alloy frame and double-skin panels. Every panel could assemble or knock-down easily.

According to customers' requirements, each ordered air handling unit is not only high-quality but also competitive price. With the enterprising spirit of "Honesty, Cooperation and Innovation", Sinro would like to supply the electromechanical integration unit to every customers in order to save system cost and installation cost.



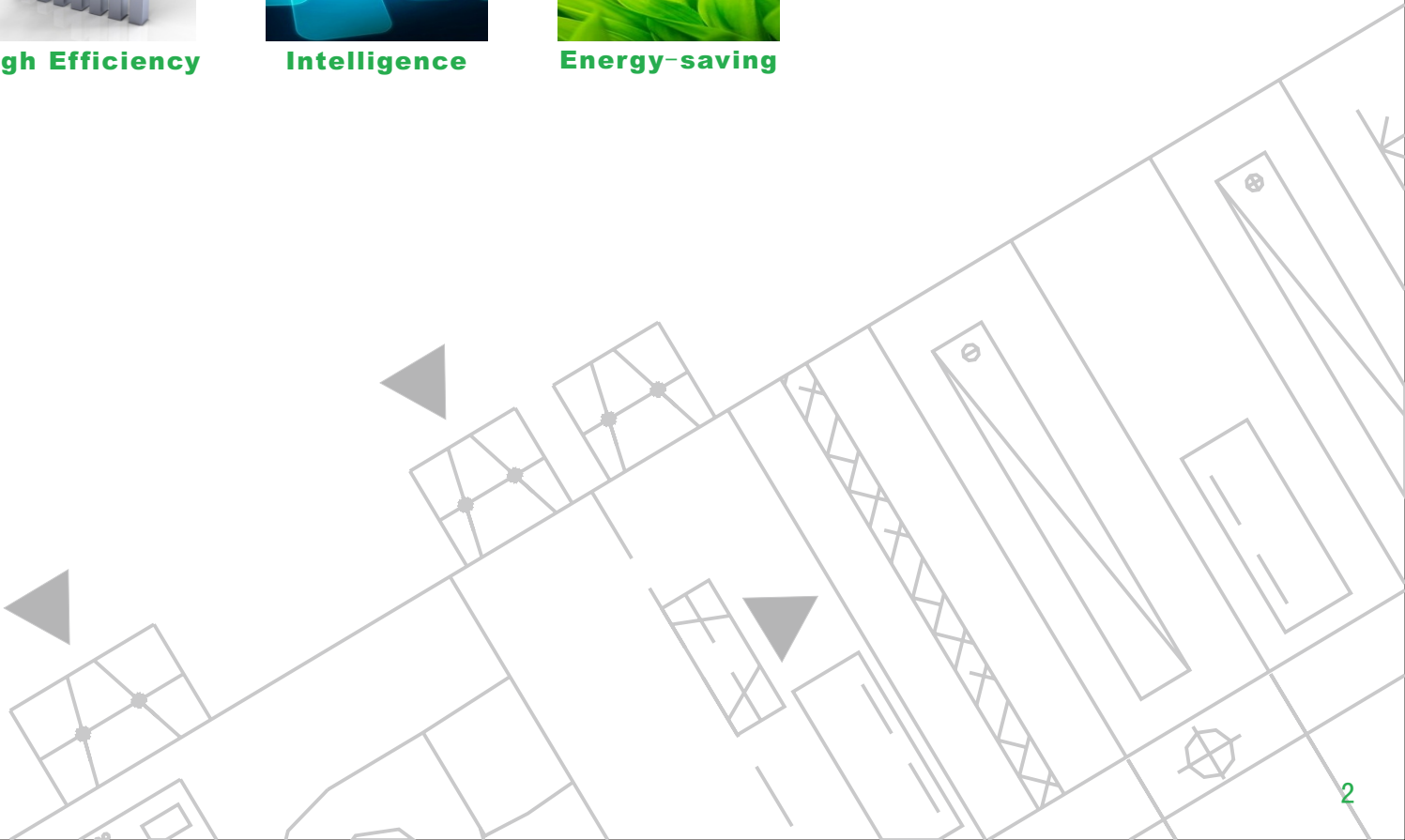
High Efficiency




Intelligence



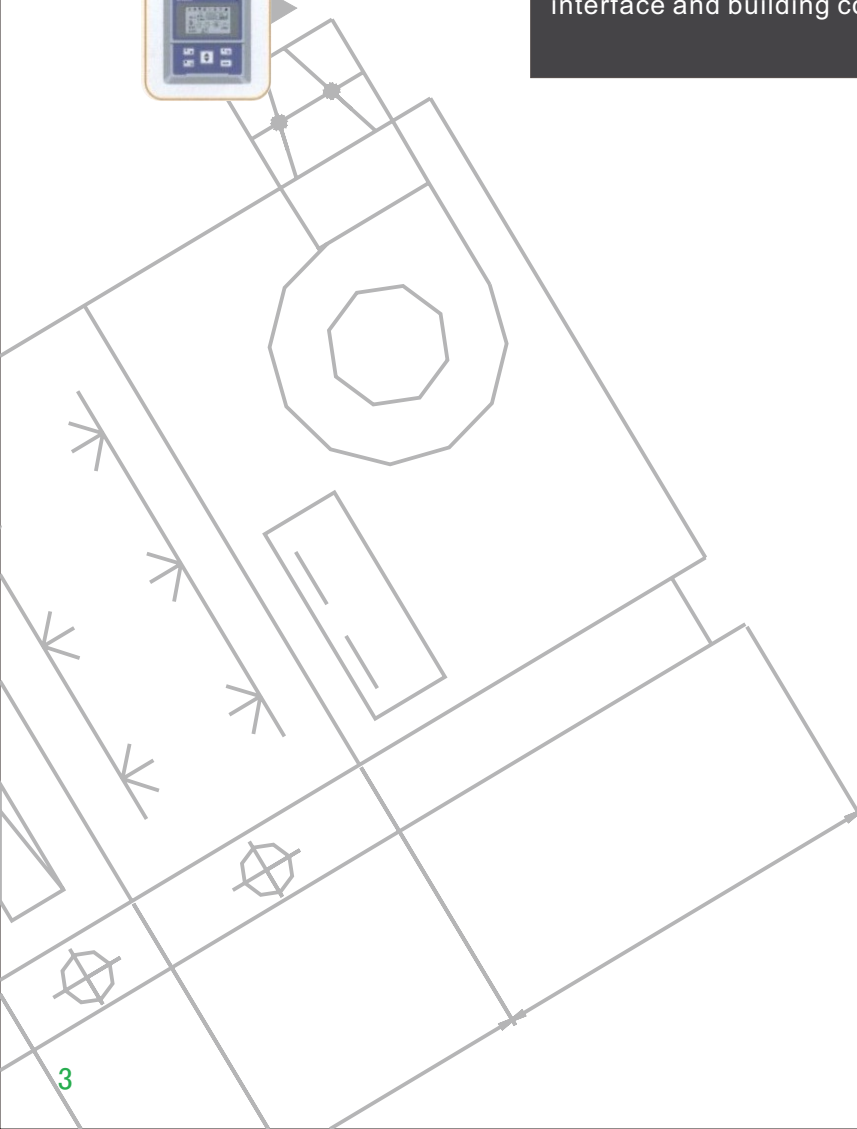
Energy-saving





SRA series air handling unit is special designed for the central air-conditioning system, which including the standard air handling unit and module air handling unit. The air handling unit could meet different requirements, such as cooling, heating, humidification, dehumidification, purification, sterilization and so on.

Besides, SRA series air handling unit could offer the optional accessories, for example, power start-up cabinet, VFD control and intelligence unit. These units will equip the ICU controller, which could make the communication between the interface and building control, and monitor the working site and internet.



Our Product

Model Selection

SRA IV-120 D 4 A R

R: right-hand side L: left-hand side

Air out direction: A-D. Details as per below diagram

No. of rows: 4-4 rows, 6-6 rows, 41-4 rows cooling coil+1 row heating coil,
42-4 rows cooling coil+2 rows heating coil

Unit type: D-ceiling type, W-horizontal type, L-vertical type, MD-decorated ceiling type, ML-decorated vertical type, MW-decorated horizontal type.

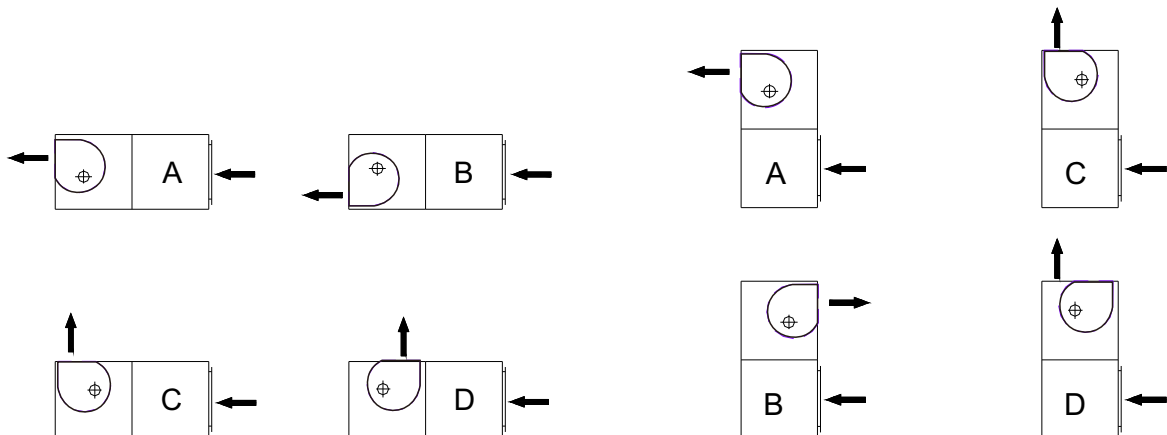
Air volume: for example 120 x 100 = 12,000 m³/h

Omission: standard unit, I-intelligence unit, V-variable air volume unit,
IV-intelligence variable air volume unit

SRA: Sinro air handling unit

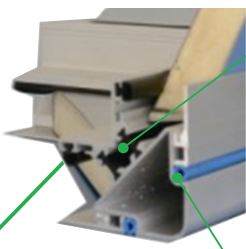
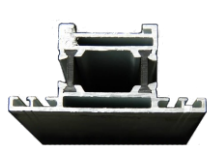
Air out direction

Ceiling Unit (please choose A or B)



Horizontal Unit

Vertical Unit



Heat insulating adhesive tape

Elastic sealing

Frame structure

- ◆ 1.5mm high strength aluminum alloy frame cabinet
- ◆ High strength plastic 3D corner
- ◆ Special design of elastic sealing. Air leakage rate less than 1%.
- ◆ Thermal break design. Cold bridge factor is 0.73.

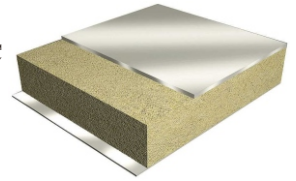


Access door

Sealing adhesive tape set in the access door post.

Super sandwich panel

- ◆ Insulated double skin construction
- ◆ Infill insulation Polyurethane density: 45 kg/m³. Thermal conductivity: 0.02 W/m²°C
- ◆ Self-supporting: withstand a positive or negative pressure differential
- ◆ Overall sound reduction
- ◆ Optional double skin material : stainless steel sheet, galvanized steel sheet or colour metal sheet



Octave Band	HZ	63	125	250	500	1000	2000	4000	8000	Sound insulation
25mm	dB (A)	12	16	21	30	31	32	40	41	20
50mm		18	24	25	31	34	29	43	43	25

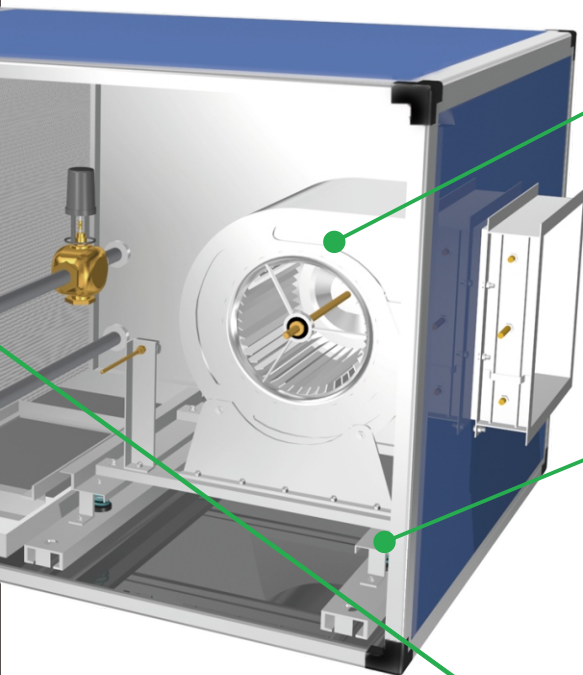
Our characteristic

Install and assemble

- ◆ Flexible and standardization structure
- ◆ Every panel could removable

Super-silent design

- ◆ Sound-absorbing panel and low-speed operation large diameter fan



Fan

- ◆ World famous brand fan
- ◆ Statically and dynamically balanced and tested



Power support frame

- ◆ Motor and fan mounted on a chassis with the adjustable slide rail fully isolated on spring anti-vibration mountings from the framework and panel



Heat-exchange coil

- ◆ Aluminum fins
- ◆ Zero leakage
- ◆ High heat-exchange efficiency
- ◆ Low windage resistance
- ◆ Easy cleaning
- ◆ Reliable and durable



Optional function



Access door type

- ◆ Standard type: knock-down type
- ◆ Optional: door hinge

door hinge knock-down type



Air inlet/outlet design

- ◆ Standard type: flange
- ◆ Optional: mixing box or damper

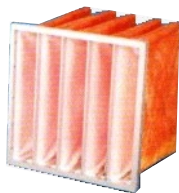
Filter

Prefilter



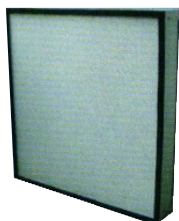
- ◆ Foldable type: efficiency: G3(80-90%)/G4(90%)
- ◆ Bag filter: efficiency: G3(80%)/G4(85%)
- ◆ Aluminum plate type: efficiency: G1 (60%) thickness: 25mm or 46mm

Mid-filter



- ◆ Foldable type: efficiency: F5(40%)/F7(80%)
- ◆ Bag filter: efficiency: F5(45%)/F6(60%)/F7(80%)/F8(90%)

High efficiency filter



- ◆ Sub-high efficiency filter: efficiency: 99.97%
- ◆ High efficiency filter: efficiency: 99.99%

Conclusion of the optional function

- ◆ Cooling coil, heating coil, steam heating, electrical heating
- ◆ Dry steam humidification, wet film humidification, electrode humidification
- ◆ Mid filter, Sub-high efficiency filter, High efficiency filter
- ◆ UV lamp, photocatalyst, heat recovery
- ◆ Mixing box, damper, silencer, flow equalization section, diffuser section, vacant section, air out section, secondary return air section
- ◆ VFD control system, intelligence control system

Humidification

Wet film humidification

- ◆ The air goes through the wet surface of the membrane material. Then the wet film humidifier will evaporate or absorb its moisture while reducing the temperature at the same time. It is widely used in hotels, office buildings, museums.
- ◆ Feature:
 - Clean
 - Noiselessness



Electrode humidification

- ◆ Electrode humidifier is the equipment which uses alternating current heat to heat the main water directly and mix the steam with air.



Dry steam humidification

- ◆ Dry steam humidification meets the requirement of precise control of relative humidity.
- ◆ Feature:
 - Humidify quickly and uniformly
 - Must supply dry steam
 - Initial cost high



UV-lamp

- ◆ Sterilize effectively
- ◆ Improve indoor air quality
- ◆ Disinfect the air flow, filters, coils inside of the AHU



Intelligence unit

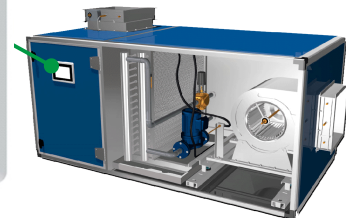
- ◆ ICU intelligence control system, PID precise control
- ◆ Graphical control : simple and efficient to handle
- ◆ Connect with the internet : use the open protocol
- ◆ Test before delivery : installation-time-saving and installation-cost-saving

System function

- ◆ Energy-saving control (enthalpy difference control)
- ◆ VFD control
- ◆ Supply air in constant pressure
- ◆ Coordination function of fire protection
- ◆ Comfortable temperature
- ◆ Interconnected control
- ◆ Optimum start-stop order
- ◆ Chinese display

Display data item

- ◆ Outside air/return air temperature
- ◆ Temperature setting
- ◆ Fan operation
- ◆ Damper/valve opening
- ◆ Unit operation
- ◆ Alarm chain
- ◆ Fan malfunction alarm
- ◆ VFD malfunction alarm
- ◆ Overheat malfunction alarm
- ◆ Filter malfunction alarm
- ◆ Fire Alerting
- ◆ Group control



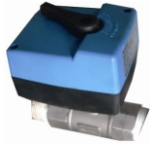
VFD control

- ◆ Stepless speed regulating according to the loading
Operation-cost-saving
- ◆ Motor life-saving
- ◆ Design program according to different project



Optional function

Motorized control valve



- ◆ Bi-directional AC motor
- ◆ Apply to valves of DN15 to DN150
- ◆ Fire retardant engineering plastic, measure up UL94V-0 standard
- ◆ Integrate with on-off switch at the end of stroke for longer motor life
- ◆ With manual switch and position indicator
- ◆ Electrical on/off type or floating (PID adjusting) type
- ◆ Detachable design, easy to install and maintain
- ◆ Good heat insulation design to avoid overheating inside of actuator
- ◆ Reliable and high safety requirement level
- ◆ 0(2)~10V dc or 0(4)~20mA dc control input signal, proportional control.
- ◆ 0~10V feedback signal.
- ◆ Stainless steel valve body



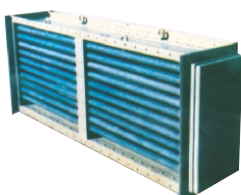
Damper actuator

- ◆ High dependable performance



Heat recovery – heat wheel

- ◆ 3A molecular sieve coating: energy recovery 70-90%
 - ◆ Round body reinforced structure
 - ◆ Round body cut sectioning technology, easy to transport
- Multi-shell structure



Heat recovery – heat pipe

- ◆ High thermal conductivity
- ◆ Safe and reliable
- ◆ Energy-saving
- ◆ Economical and practical
- ◆ A wide range of applications

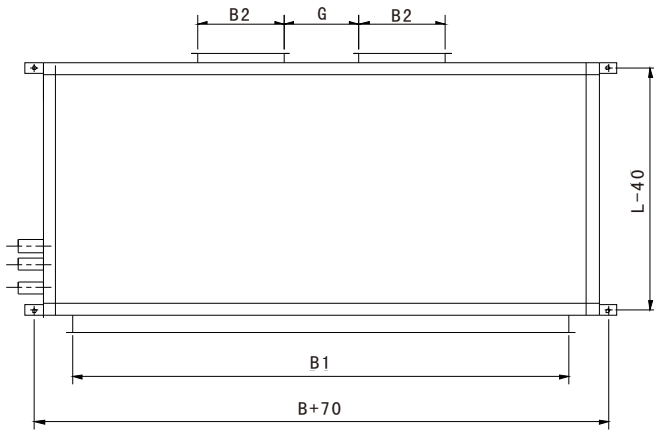
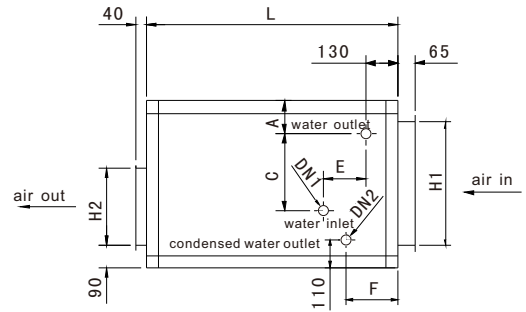
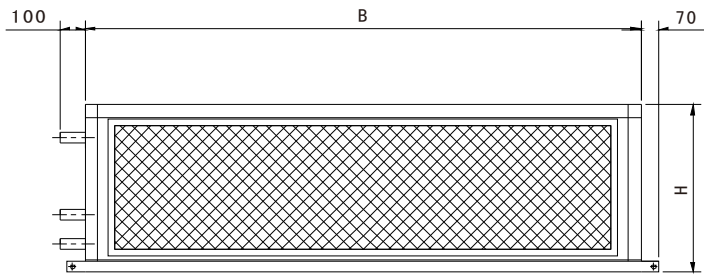
Technical Parameter Ceiling Unit

Standard working condition

Return air: Cooling: air in temperature 27/19.5 °C, water in/out temperature 7/12 °C
 Heating: air in temperature 21 °C, water in/out temperature 60/50 °C

Outside ai: Cooling: air in temperature 35/28 °C, water in/out temperature 7/12 °C
 Heating: air in temperature 7 °C, water in/out temperature 60/50 °C

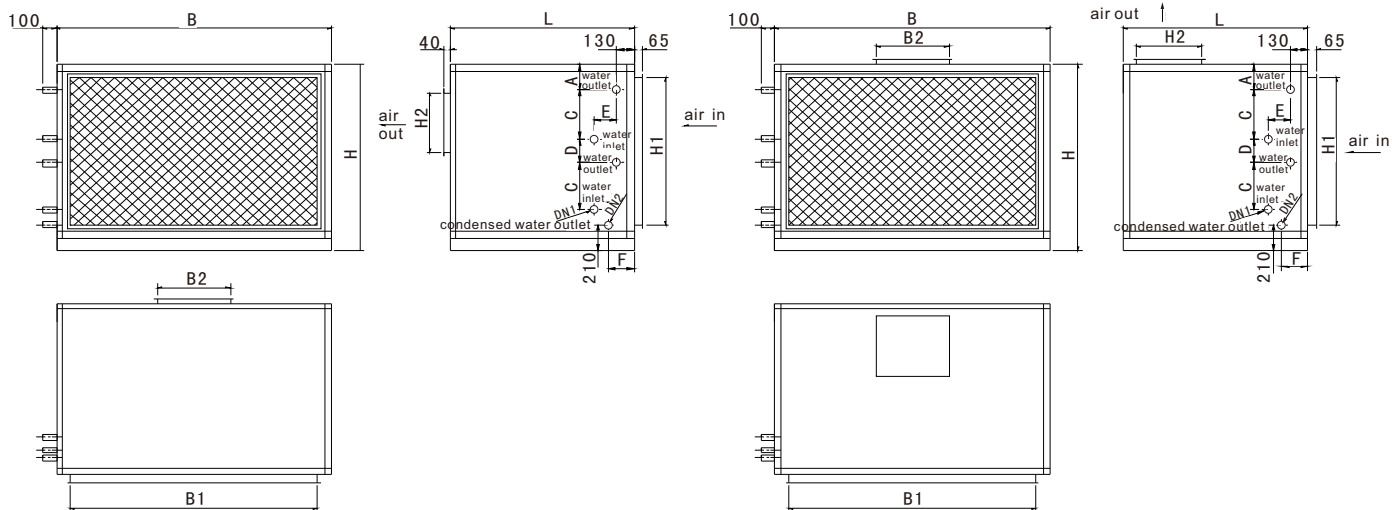
Model No	SA (m ³ /h)	Return air						Outside air					
		TC	WF	WPD	TH	WF	WPD	TC	WF	WPD	TH	WF	WPD
		kw	m ³ /h	kpa	kw	m ³ /h	kpa	kw	m ³ /h	kpa	kw	m ³ /h	kpa
SRA-20DL4	2000	11.3	1.9	21	17.6	1.5	18	20.6	3.5	35	25.9	2.2	22
SRA-20DL6		15.2	2.6	26	20.9	1.8	20	29.3	5	44	30.3	2.6	26
SRA-30DL4	3000	17	2.9	27	24.1	2.1	22	34	5.8	45	38.8	3.4	29
SRA-30DL6		22.8	3.9	35	31.3	2.7	26	45.4	7.8	18	44	3.8	11
SRA-40DL4	4000	22.7	3.9	25	34	2.9	21	47.2	8.1	42	49.9	4.3	26
SRA-40DL6		30.4	5.2	32	40.6	3.5	24	62	10.7	17	58.9	5.1	10
SRA-50DL4	5000	28.3	4.9	29	42.9	3.7	24	59.2	10.2	48	65.4	5.6	31
SRA-50DL6		38	6.5	37	50.9	4.4	28	77.6	13.3	19	74	6.4	11
SRA-60DL4	6000	34	5.8	32	52.1	4.5	27	73.9	12.7	17	76	6.6	11
SRA-60DL6		45.6	7.8	42	61.5	5.3	32	95.1	16.4	22	89.5	7.7	13
SRA-80DL4	8000	45.3	7.8	38	70.5	6.1	32	99.7	17.1	21	103	8.9	14
SRA-80DL6		60.8	10.5	16	80.4	6.9	11	127.4	21.9	27	120.6	10.4	16



Overall size (mm)			Air inlet (mm)		Air outlet (mm)			Water inlet/Outlet pipe			Condensed water outlet		Weight (kg)	
L	B	H	B1	H1	B2	H2	space G	DN1 (mm)	A	C	E	DN2 (mm)		F
900	1040	510	885	305	298	262								
900	1340	510	1190	305	298	262	-	32	150	154	99 165	25	210	196 205
1000	1250	660	1087	507	331	289	-	32	150	306	99 165	25	210	221 232
1000	1470	660	1274	507	395	341	-	40	150	306	99 165	40	210	248 262
1000	1720	660	1476	507	395	341	-	40	150	306	99 165	40	210	278 294
1000	2200	660	1968	507	331	289	264	50	150	306	99 165	40	210	360 381

Technical Parameter Horizontal Unit

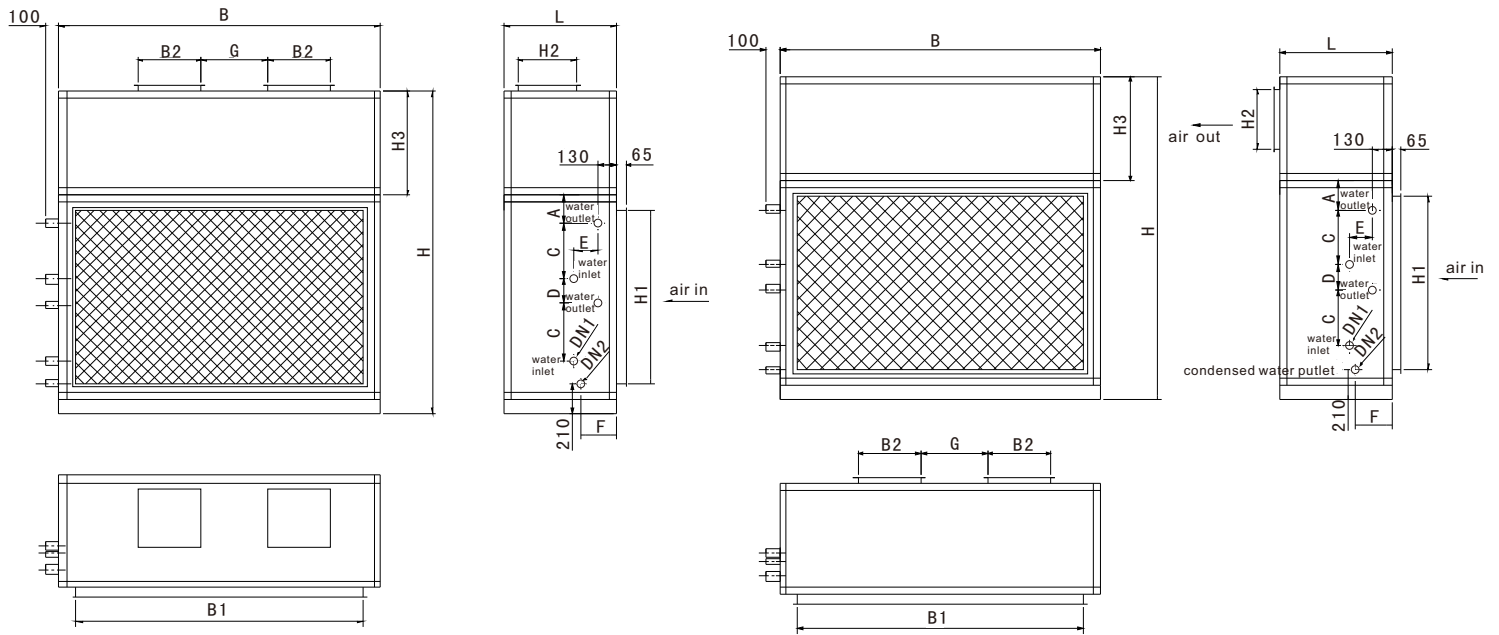
Model No	SA (m ³ /h)	Return air						Outside air						Overall	
		TC	WF	WPD	TH	WF	WPD	TC	WF	WPD	TH	WF	WPD	FC	BC
		kw	m ³ /h	kpa	kw	m ³ /h	kpa	kw	m ³ /h	kpa	kw	m ³ /h	kpa	(mm)	(mm)
SRA-20WL4	2000	11.3	1.9	21	17.7	1.5	18	20.6	3.5	35	26	2.2	22	900	1040
SRA-20WL6		15.2	2.6	26	20.9	1.8	20	29.3	5	44	30.4	2.6	26		
SRA-30WL4	3000	17	2.9	21	26.6	2.3	18	34	5.8	35	39	3.4	22	900	1040
SRA-30WL6		22.8	3.9	26	31.4	2.7	20	45.4	7.8	44	45.6	4	26		
SRA-40WL4	4000	22.7	3.9	21	35.4	3.1	18	47.2	8.1	35	52	4.5	22	930	1080
SRA-40WL6		30.4	5.2	26	40.8	3.6	20	62	10.7	44	60.8	5.3	26		
SRA-50WL4	5000	28.3	4.9	22	42.9	3.7	19	59.2	10.2	37	63	5.5	22	1040	1190
SRA-50WL6		38	6.5	28	51.1	4.4	21	77.6	13.3	47	74.3	6.4	26		
SRA-60WL4	6000	34	5.8	25	53.3	4.6	21	73.9	12.7	42	77.9	6.7	27	1040	1190
SRA-60WL6		45.6	7.8	32	62.7	5.4	25	95.1	16.4	17	88.1	7.6	10		
SRA-70WL4	7000	39.7	6.8	24	60.2	5.2	20	90.3	15.5	40	88.2	7.6	26	1160	1310
SRA-70WL6		53.2	9.1	31	71.6	6.2	24	112.7	19.4	16	100.2	8.6	10		
SRA-80WL4	8000	45.3	7.8	25	71.2	6.1	21	99.7	17.1	42	104.2	9	27	1160	1310
SRA-80WL6		60.8	10.5	32	83.4	7.2	25	127.4	21.9	17	117.1	10.1	10		
SRA-90WL4	9000	51	8.8	27	76.1	6.6	22	116.1	20	45	111.2	9.6	28	1160	1310
SRA-90WL6		68.4	11.8	35	90.6	7.8	26	144.9	24.9	18	127.2	11	10		
SRA-100WL4	10000	56.7	9.8	29	85.4	7.4	24	121.8	20.9	48	124.7	10.8	30	1160	1310
SRA-100WL6		76	13.1	37	101.5	8.8	28	157.6	27.1	19	142.5	12.3	11		
SRA-120WL4	12000	68	11.7	29	103.3	8.9	24	151.4	26	48	157.3	13.6	32	1350	1500
SRA-120WL6		91.2	15.7	38	122.5	10.6	29	192.6	33.1	20	178	15.3	12		
SRA-150WL4	15000	85	14.6	32	129.9	11.2	27	189.2	32.5	17	189.4	16.3	11	1450	1600
SRA-150WL6		114	19.6	42	153.5	13.3	32	240.7	41.4	22	223.4	19.2	13		
SRA-180WL4	18000	102	17.5	34	159.4	13.8	29	227.5	39.1	19	232.5	20	12	1450	1700
SRA-180WL6		136.8	23.5	46	186.8	16.2	35	289.2	49.7	24	272.1	23.5	14		
SRA-210WL4	21000	119	20.5	35	183.9	15.8	30	267.3	46	19	268.8	23.2	12	1530	1800
SRA-210WL6		159.6	27.4	47	216.3	18.6	36	338.6	58.2	24	315.4	27.2	15		
SRA-240WL4	24000	136	23.4	36	209.5	18	30	307.6	52.9	19	306.4	26.5	13	1700	1800
SRA-240WL6		182.4	31.4	48	246.8	21.4	39	388.5	66.8	25	359.7	31	15		
SRA-270WL4	27000	153	26.3	35	237.3	20.5	30	349	60	19	346.8	30	13	1700	1950
SRA-270WL6		205.2	35.3	47	278.8	24	36	438.8	75.5	24	406.3	35	15		
SRA-300WL4	30000	170	29.2	38	275.9	23.8	33	387.1	66.6	21	387.1	33.4	13	1700	1950
SRA-300WL6		228	39.2	16	302.5	26	12	487	83.7	26	453.4	39	16		
SRA-350WL4	35000	198.3	34.1	42	323.6	28	37	451.4	77.6	22	455.2	39.5	15	1850	2240
SRA-350WL6		266	45.7	17	366.2	31.5	14	567.3	97.6	29	530.6	46	18		
SRA-400WL4	40000	226.7	39	42	369	32	37	514.3	88.4	23	518.7	45	15	1950	2340
SRA-400WL6		304	52.3	18	417.8	36	14	648.2	111.5	29	604.8	52	18		
SRA-450WL4	45000	255	43.9	45	419.4	36.2	40	580.5	99.8	24	590.9	51	16	2240	2340
SRA-450WL6		342	58.8	19	474.8	41	15	724.5	124.6	32	686	59	19		
SRA-500WL4	50000	283.4	48.7	48	468	40.5	42	620.8	106.8	26	660	57	17	2240	2540
SRA-500WL6		380	65.3	21	527.6	45.5	16	796.1	136.9	34	761.8	65.5	21		
SRA-600WL4	60000	340	58.5	18	502.9	43.5	10	769.5	132.3	29	739.9	63.8	12	2340	2540
SRA-600WL6		456	78.4	23	603.8	52	11	971.5	167.1	39	878.6	75.5	14		



size (mm)		Air inlet (mm)		Air outlet (mm)				Water inlet/Outlet pipe				Condensed water outlet		Weight (kg)		
B	H	B1	H1	FC		BC		DN1 (mm)	A	C	D	E	DN2 (mm)	F	FC	BC
				B2	H2	B2	H2									
1040	610	885	305	298	262	288	288	32	150	154	-	99 165	25	210	177 184	212 219
1040	760	885	507	298	262	288	288	32	150	306	-	99 165	25	210	198 207	236 245
1040	930	885	610	331	289	361	361	32	200	357	-	99 165	25	210	225 237	266 278
1040	1000	885	610	395	289	404	404	40	200	433	-	99 165	40	210	249 261	296 309
1250	1000	1087	610	395	341	404	404	40	200	433	-	99 165	40	210	279 294	331 347
1250	1140	1087	858	471	404	453	453	50	200	585	-	99 165	40	210	322 341	393 412
1250	1230	1087	961	471	404	507	507	50	200	661	-	99 165	40	210	336 357	408 429
1340	1230	1190	961	471	404	507	507	50	200	661	-	99 165	40	210	356 391	440 462
1470	1230	1274	961	471	404	569	569	50	200	661	-	99 165	40	210	384 409	456 495
1530	1380	1377	1060	557	478	569	569	50	200	813	-	99 165	40	210	479 509	545 574
1720	1460	1579	1163	569	569	638	638	50	200	889	-	99 165	40	210	571 608	676 714
2000	1540	1785	1266	638	638	715	715	65	200	965	-	99 165	40	210	645 691	802 848
2000	1690	1785	1411	715	715	801	801	65	200	1117	-	99 165	40	210	759 861	985 1037
2000	1850	1785	1613	715	715	801	801	50x2	200	484	300	99 165	40	210	889 946	1012 1069
2000	2080	1785	1819	801	801	898	898	50x2	200	598	300	99 165	40	210	930 996	1149 1214
2200	2080	1968	1819	801	801	898	898	50x2	200	598	300	99 165	40	210	971 1058	1237 1309
2520	2080	2380	1819	898	898	1007	1007	65x2	200	598	300	99 165	40	210	1136 1219	1393 1497
2520	2360	2380	2067	898	898	1130	1130	65x2	200	712	300	99 165	40	210	1249 1343	1503 1597
2860	2360	2666	2067	1007	1007	1130	1130	80x2	200	712	300	99 165	40	210	1831 1941	2042 2152
3150	2360	2975	2067	1007	1007	1267	1267	80x2	200	712	300	99 165	40	210	1910 2032	2122 2243
3550	2360	3364	2067	1130	1130	1267	1267	80x2	200	712	300	99 165	40	210	2123 2260	2496 2634

Technical Parameter Vertical Unit

Model No	SA (m ³ /h)	Return air						Outside air						L
		TC	WF	WPD	TH	WF	WPD	TC	WF	WPD	TH	WF	WPD	
		kw	m ³ /h	kpa	kw	m ³ /h	kpa	kw	m ³ /h	kpa	kw	m ³ /h	kpa	
SRA-40LL4	4000	22.7	3.9	21	35.4	3.1	18	47.2	8.1	35	52	4.5	23	600
SRA-40LL6		30.4	5.2	26	41.8	3.6	20	62	10.7	14	58.5	5.1	8	
SRA-60LL4	6000	34	5.8	22	51.7	4.5	18	73.9	12.7	37	76.1	6.6	24	670
SRA-60LL6		45.6	7.8	28	61.6	5.3	21	95.1	16.4	15	86	7.4	8	
SRA-80LL4	8000	45.3	7.8	26	71.2	6.2	22	99.7	17.1	44	104.1	9	29	780
SRA-80LL6		60.8	10.5	34	83.7	7.2	26	127.4	21.9	18	117.8	10.2	10	
SRA-100LL4	10000	56.7	9.8	30	92.7	8	27	121.8	20.9	16	129.5	11.2	11	780
SRA-100LL6		76	13.1	40	107.4	9.3	31	157.6	27.1	21	151.6	13.1	12	
SRA-120LL4	12000	68	11.7	34	112.1	9.7	30	151.4	26	18	157	13.5	12	880
SRA-120LL6		91.2	15.7	45	129.4	11.2	35	192.6	33.1	23	183	15.8	14	
SRA-150LL4	15000	85	14.6	39	139.9	12.1	34	189.2	32.5	21	196.4	16.9	14	800
SRA-150LL6		114	19.6	16	157.8	13.6	13	240.7	41.4	27	228.6	19.7	16	
SRA-180LL4	18000	102	17.5	39	166.7	14.4	34	227.5	39.1	21	234.2	20.2	14	800
SRA-180LL6		136.8	23.5	16	188.6	16.3	13	289.2	49.7	27	273	23.5	16	
SRA-210LL4	21000	119	20.5	40	194.1	16.8	35	267.3	46	21	272.5	23.5	14	800
SRA-210LL6		159.6	27.4	17	219.5	18.9	13	338.6	58.2	28	318	27.4	17	
SRA-240LL4	24000	136	23.4	43	222.1	19.2	38	307.6	52.9	23	312.4	27	15	920
SRA-240LL6		182.4	31.4	18	251.5	21.7	14	388.5	66.8	30	364	31.5	18	
SRA-270LL4	27000	153	26.3	46	249.9	21.5	40	349	60	25	352	30.3	16	920
SRA-270LL6		205.2	35.3	20	283.5	24.5	15	438.8	75.5	33	409.7	35.3	20	
SRA-300LL4	30000	170	29.2	49	278.7	24	43	387.1	66.6	27	393.2	34	18	920
SRA-300LL6		228	39.2	21	316.2	27.3	16	487	83.7	35	456.7	39.5	21	
SRA-350LL4	35000	198.3	34.1	18	321.1	27.6	15	451.4	77.6	29	465.4	40	19	920
SRA-350LL6		266	45.7	23	373	32.2	18	567.3	97.6	39	537.9	46.5	24	
SRA-400LL4	40000	226.7	39	19	365.1	31.5	17	514.3	88.4	32	528.5	45.5	21	920
SRA-400LL6		304	52.3	26	424.3	36.5	20	648.2	111.5	43	611.5	52.6	26	
SRA-500LL4	50000	283.4	48.7	48	468	40.5	43	620.8	106.8	26	660	57	17	1300
SRA-500LL6		380	65.3	21	529.4	45.5	16	796.1	136.9	34	764.8	66	21	
SRA-600LL4	60000	340	58.5	18	541.9	47	15	769.5	132.3	29	785.8	68	19	1300
SRA-600LL6		456	78.4	23	632.2	54.5	18	971.5	167.1	39	912.4	79	23	



Overall size (mm)		Air inlet (mm)			Air outlet (mm)			Water inlet/Outlet pipe					Condensed water outlet		Weight (kg)
B	H	H3	B1	H1	B2	H2	space G	DN1 (mm)	A	C	D	E	DN2 (mm)	F	
1040	1510	600	885	610	331	289	-	32	200	357	-	99 165	25	210	278 289
1040	1810	670	885	858	395	341	-	40	200	585	-	99 165	40	210	334 349
1340	1920	780	1175	858	471	404	-	50	200	585	-	99 165	40	210	410 431
1720	1920	780	1480	858	471	404	-	50	200	585	-	99 165	40	210	490 517
2000	2020	880	1682	858	557	478	-	50	200	585	-	99 165	40	210	591 623
2350	1940	800	2071	858	471	404	384	50	200	585	-	99 165	40	210	656 695
2350	2100	800	2174	1060	471	404	384	65	200	737	-	99 165	40	210	705 750
2350	2250	800	2174	1163	471	404	384	65	200	889	-	99 165	40	210	791 893
2600	2370	920	2380	1163	557	478	458	50x2	200	295	-	99 165	40	210	971 1029
2860	2370	920	2666	1163	557	478	458	50x2	200	295	-	99 165	40	210	1028 1094
3150	2370	920	2975	1163	557	478	458	50x2	200	295	300	99 165	40	210	1081 1168
3750	2370	920	3570	1163	557	478	458	65x2	200	295	300	99 165	40	210	1209 1296
4096	2370	920	3856	1163	557	478	458	65x2	200	295	300	99 165	40	210	1273 1368
3150	3660	1300	2975	2067	801	801	630	80x2	200	712	300	99 165	40	210	1693 1815
3550	3660	1300	3364	2067	801	801	630	80x2	200	712	300	99 165	40	210	1857 1994

Technical Parameter

Forward centrifugal fan: Motor/Pressure drop data sheet

Air volume m ³ /h	rows	Motor kw																
		80 Pa	100 Pa	120 Pa	160 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	500 Pa	600 Pa	700 Pa	800 Pa	900 Pa	1000 Pa	1100 Pa	1200 Pa
2000	4	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.75	0.75								
	6	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.75	0.75								
3000	4	0.55	0.55	0.55	0.55	0.75	0.75	0.75	1.1	1.1	1.1	1.1						
	6	0.55	0.55	0.55	0.75	0.75	0.75	1.1	1.1	1.1	1.1	1.1						
4000	4		0.75	0.75	0.75	0.75	1.1	1.1	1.1	1.1	1.5	1.5						
	6		0.75	0.75	0.75	1.1	1.1	1.1	1.1	1.5	1.5	1.5						
5000	4		0.75	0.75	1.1	1.1	1.1	1.5	1.5	1.5	2.2	2.2						
	6		0.75	1.1	1.1	1.1	1.1	1.5	1.5	1.5	2.2	2.2						
6000	4		1.1	1.1	1.1	1.1	1.5	1.5	1.5	2.2	2.2	2.2						
	6		1.1	1.1	1.1	1.5	1.5	1.5	2.2	2.2	2.2	2.2						
7000	4			1.1	1.1	1.5	1.5	1.5	2.2	2.2	2.2	3						
	6			1.1	1.5	1.5	1.5	2.2	2.2	2.2	2.2	3	3					
8000	4			1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.2	3	3					
	6			1.5	1.5	1.5	2.2	2.2	2.2	2.2	2.2	3	3					
9000	4			1.5	2.2	2.2	2.2	2.2	2.2	2.2	3	3	4					
	6			2.2	2.2	2.2	2.2	2.2	2.2	3	3	3	4					
10000	4			2.2	2.2	2.2	2.2	3	3	3	4	4	4					
	6			2.2	2.2	2.2	3	3	3	3	4	4	4					
12000	4			2.2	2.2	2.2	3	3	3	4	4	4	5.5					
	6			2.2	2.2	3	3	3	4	4	4	4	5.5					
15000	4			3	3	3	4	4	4	5.5	5.5	7.5	7.5					
	6			3	3	4	4	4	5.5	5.5	5.5	7.5	7.5					
18000	4			3	4	4	4	5.5	5.5	5.5	7.5	7.5	7.5					
	6			4	4	4	5.5	5.5	5.5	5.5	7.5	7.5	7.5					
21000	4			4	4	4	5.5	5.5	5.5	5.5	7.5	7.5	7.5					
	6			4	4	4	5.5	5.5	5.5	7.5	7.5	11	11					
24000	4						5.5	5.5	7.5	7.5	7.5	11	11					
	6						5.5	7.5	7.5	7.5	11	11	11					
27000	4						5.5	7.5	7.5	7.5	11	11	15					
	6						5.5	7.5	7.5	7.5	11	11	15					
30000	4						7.5	7.5	7.5	11	11	11	15					
	6						7.5	7.5	11	11	11	15	15					
35000	4						7.5	7.5	11	11	11	15	15					
	6						7.5	11	11	11	15	15	15					
40000	4						11	11	11	11	15	15	18.5					
	6						11	11	11	15	15	15	18.5					
45000	4						11	11	11	15	15	18.5	18.5	22				
	6						11	11	15	15	15	18.5	18.5	22				
50000	4						11	15	15	15	18.5	18.5	22	22				
	6						11	15	15	15	18.5	18.5	22	22				
60000	4						15	15	15	18.5	18.5	22	30	30				
	6						15	15	15	18.5	22	22	30	30				

Backward centrifugal fan: Motor/Pressure drop data sheet

Air volume m ³ /h	rows	Motor kw																
		80 Pa	100 Pa	120 Pa	160 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	500 Pa	600 Pa	700 Pa	800 Pa	900 Pa	1000 Pa	1100 Pa	1200 Pa
2000	4				0.55	0.55	0.55	0.55	0.75	0.75	0.75	1.1	1.1	1.1	1.5	1.5	1.5	1.5
	6				0.55	0.55	0.55	0.55	0.75	0.75	0.75	1.1	1.1	1.1	1.5	1.5	1.5	1.5
3000	4				0.75	0.75	1.1	1.1	1.1	1.1	1.5	1.5	1.5	2.2	2.2	2.2	2.2	2.2
	6				0.75	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5	2.2	2.2	2.2	2.2	2.2
4000	4				0.75	0.75	1.1	1.1	1.1	1.1	1.5	1.5	2.2	2.2	2.2	2.2	3	3
	6				0.75	1.1	1.1	1.1	1.1	1.5	1.5	1.5	2.2	2.2	2.2	2.2	3	3
5000	4				1.1	1.1	1.1	1.1	1.5	1.5	2.2	2.2	2.2	2.2	3	3	3	4
	6				1.1	1.1	1.1	1.5	1.5	1.5	2.2	2.2	2.2	3	3	3	3	4
6000	4				1.1	1.5	1.5	1.5	2.2	2.2	2.2	2.2	3	3	3	4	4	4
	6				1.5	1.5	1.5	1.5	2.2	2.2	2.2	3	3	3	3	4	4	4
7000	4				1.5	1.5	1.5	2.2	2.2	2.2	2.2	3	3	3	4	4	4	5.5
	6				1.5	1.5	1.5	2.2	2.2	2.2	2.2	3	3	3	4	4	5.5	5.5
8000	4				1.5	1.5	1.5	2.2	2.2	2.2	3	3	3	4	4	5.5	5.5	5.5
	6				1.5	1.5	2.2	2.2	2.2	2.2	3	3	4	4	4	5.5	5.5	5.5
9000	4				1.5	2.2	2.2	2.2	2.2	3	3	4	4	4	5.5	5.5	5.5	5.5
	6				2.2	2.2	2.2	2.2	3	3	3	4	4	4	5.5	5.5	5.5	5.5
10000	4				2.2	2.2	2.2	2.2	3	3	3	4	4	5.5	5.5	5.5	5.5	7.5
	6				2.2	2.2	2.2	3	3	3	3	4	4	5.5	5.5	5.5	7.5	7.5
12000	4				2.2	3	3	3	3	4	4	5.5	5.5	5.5	5.5	7.5	7.5	7.5
	6				3	3	3	3	4	4	4	5.5	5.5	5.5	7.5	7.5	7.5	7.5
15000	4				3	3	4	4	4	4	5.5	5.5	5.5	7.5	7.5	7.5	11	11
	6				3	3	4	4	4	5.5	5.5	5.5	7.5	7.5	7.5	7.5	11	11
18000	4				3	4	4	4	4	5.5	5.5	7.5	7.5	7.5	11	11	11	11
	6				4	4	4	4	5.5	5.5	5.5	7.5	7.5	7.5	11	11	11	11
21000	4				4	4	4	4	5.5	5.5	5.5	7.5	7.5	11	11	11	11	15
	6				4	4	4	5.5	5.5	5.5	7.5	7.5	7.5	11	11	11	11	15
24000	4						5.5	5.5	5.5	7.5	7.5	7.5	11	11	11	11	15	15
	6						5.5	5.5	7.5	7.5	7.5	11	11	11	11	15	15	15
27000	4						5.5	5.5	7.5	7.5	7.5	11	11	11	15	15	15	15
	6						5.5	5.5	7.5	7.5	7.5	11	11	11	15	15	15	15
30000	4						7.5	7.5	7.5	7.5	11	11	11	15	15	15	15	18.5
	6						7.5	7.5	7.5	7.5	11	11	11	15	15	15	18.5	18.5
35000	4						7.5	7.5	7.5	11	11	11	15	15	15	18.5	18.5	22
	6						7.5	7.5	11	11	11	11	15	15	15	18.5	18.5	22
40000	4						7.5	11	11	11	11	15	15	15	18.5	18.5	22	22
	6						7.5	11	11	11	11	15	15	18.5	18.5	22	22	30
45000	4						11	11	11	11	15	15	15	18.5	18.5	22	22	30
	6						11	11	11	11	15	15	18.5	18.5	22	22	30	30
50000	4						11	11	11	11	15	15	18.5	18.5	22	22	30	30
	6						11	11	11	15	15	15	18.5	22	22	30	30	30
60000	4						11	15	15	15	18.5	18.5	22	30	30	30	30	37
	6						15	15	15	15	18.5	22	22	30	30	30	30	37

Ordering instructions

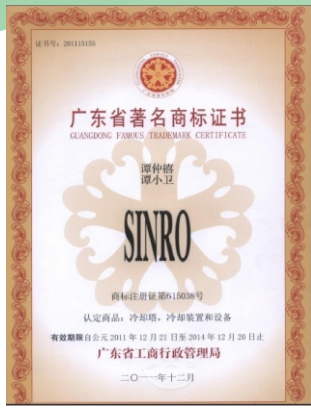
- ◆ Please state the model No. working condition and pressure drop.
- ◆ Please state the water inlet/outlet pipe direction.
- ◆ Facing return air inlet, if the connection on the left means left-hand unit, and vice versa. (The standard unit is left-hand unit.)
- ◆ Filter in vertical unit: upward draw type
Filter in ceiling unit and horizontal unit: horizontal draw type
- ◆ We could make the design according to the technical parameter, unit overall dimension and functions.
- ◆ Please confirm the design before ordering.

All rights reserved.

Matters need attention

Notices to Installation and Safety of Maintenance

- ◆ The unit should keep horizontal while lifting and installing.
- ◆ It should be kept enough maintenance space around the unit.
- ◆ Please check the unit overall surface. Please check the fan wheel while power off and earthing.
- ◆ Please check the circuit before power on. And please check the fan rotation direction after power off.
- ◆ It should equip the valves in water inlet/outlet pipes.
- ◆ Please be full of water in coils in summer, and discharge water out of coil in winter.
- ◆ Please clean the filters per week.
- ◆ It should equip the trap in condensed water pipe, and please keep it at least 60mm higher than drainpipe height.



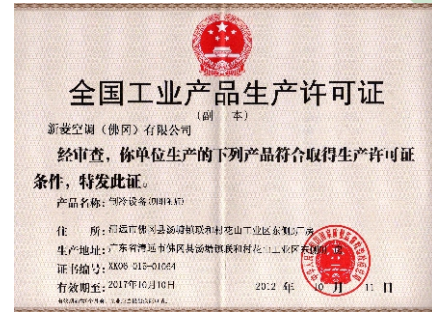
Famous Mark in GuangDong Province



ISO9001 Quality Management System Certification

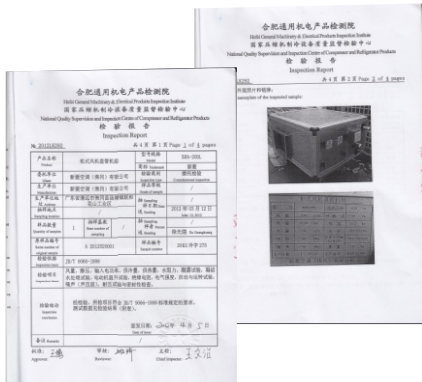
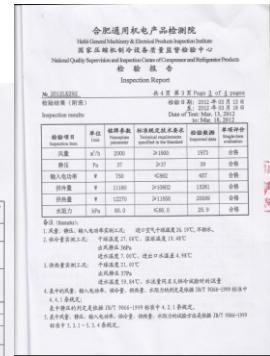


Business Register Certificate Contract Credit Certificate issued by GuangDong province



National Industrial Product Manufacturing Licence

Our honor



检验项目	单位	铭牌参数	标准规定技术要求	检验数据	单项评价
Inspection Item	Unit	Nameplate parameter	Technical requirements specified in the Standard	Inspected data	Single-Item evaluation
风量	m ³ /h	2000	≥1900	1973	合格
静压	Pa	37	≥37	38	合格
输入电功率	W	750	≤862	457	合格
供冷量	W	11160	≥10602	13261	合格
供热量	W	12270	≥11656	20589	合格
水阻力	kPa	60.0	≤66.0	25.9	合格

检验项目	单位	铭牌参数	标准规定技术要求	检验数据	单项评价
Inspection Item	Unit	Nameplate parameter	Technical requirements specified in the Standard	Inspected data	Single-Item evaluation
漏风试验	/	/	4.3.6 机组应漏风良好, 按 5.3.5 的方法试验, 在运行中箱体表面无漏风现象。	符合	合格
凝结水处理试验	/	/	4.3.7 机组应有凝结水处理装置, 按 5.3.6 的方法试验, 运行中不应有凝结水漏下。	符合	合格
电动机温升试验	/	/	4.6.1 机组的电动机绕组温升按 5.3.7 的方法试验, 电动机绕组的温升应不大于该电动机的绝缘等级所规定的温升。	符合	合格
绝缘	耐热试验后	W D	≥2	1999	合格
电阻	漏风试验后	W D	≥2	1999	合格
电气强度	/	/	机组带电部件与带电部件间之绝缘应能承受 100V、持续 1min、无击穿或闪络。	符合	合格
启动与运转试验	/	/	4.3.1 机组按 5.3.10 规定的的方法试验, 应能正常运转。	符合	合格
噪声(声压级)	dB(A)	/	≤58.0	53.8	合格
耐压试验与密封性检查	/	/	机组按 5.3.12 的规定试验, 正常运行和密封性检查时无渗漏。	符合	合格

Product Inspection Reports

Our job reference in China

Southwest China

Chongqing City Square.
Chongqing Aerospace Computer mall.
Chongqing Auto Technology Exhibition Center.
Chongqing Cigarettes Factory.
Chongqing Century Square.
Chongqing New World Department Store.
Chengdu ZhongHuan Square.
Sichuan JinMao Building.
Sichuan New Times Hotel.
Sichuan WuHou Garden.
ChengDu Banknote Printing Co., Ltd.
Xian Information Industry Garden.
Xian QianJin Department Store.
Xian Lotus Hotel.
Xian Moon Hotel.
Shanxi HuangLing Power Authority.
Shanxi JinLing Hotel.

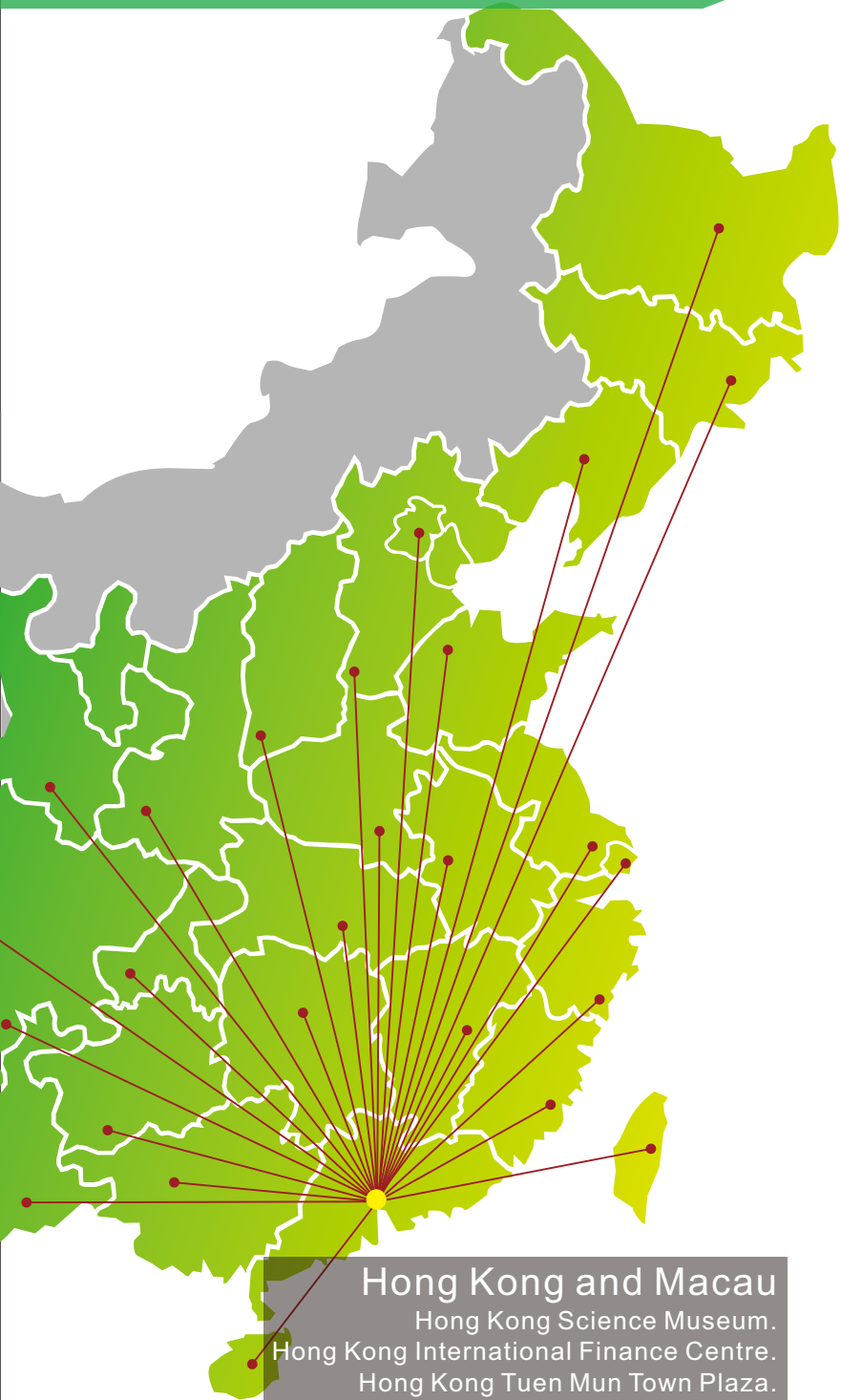
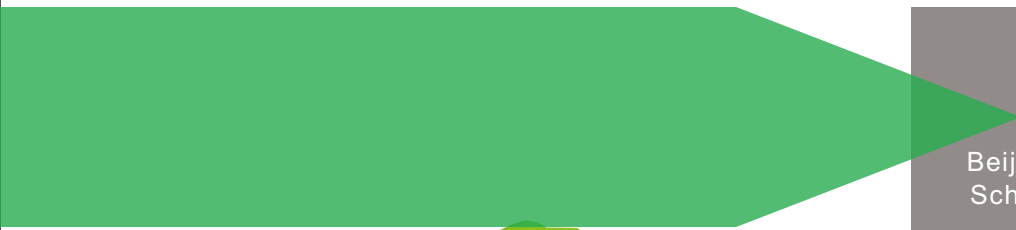
South China

Guangzhou Garden Hotel.
Accreditation Center of Exit & Entry Administration.
Department of Publics Security of Guangdong Province.
Guangzhou Tianhe Coach Terminal.
Guangzhou Unbilical Blood Bank.
Guangzhou International Investment Building.
Guangzhou FuXing Trading Building.
Guangzhou HaiYin Garden.
Guangzhou JinHui Building.
South China University of Technology Expert Building.
Guangzhou Iron And Steel Co., Ltd.
The Guangzhou Metro JY3B (Hong Kong City).
Guangzhou Higher People's Court.
Shenzhen Commerce Office Building.
Shenzhen Golden World centre.
Foshan Recom Hotel.
Zhongshan Public Security Bureau.
Zhongshan DaXin Square.
China Mobile Communication Building Jiangmeng.
Qingyuan Stadium.
Zhaoqing New World Garden.
Guangxi Electronics Technology Square.
Hainan Shangri-LA Hotel.



Central China

Wuhan National People's Congress Office Building.
Wuhan International Trade Building.
New World Department Store centre.
Wuhan New World Fashion Square.
Wuhan Xinhua JiaYuan.
Hubei KingYe Tobacco building.
Hubei TianTai Hotel.
Wuhan Budweiser Beer Co., Ltd.
The Second Affiliated Hospital of Hubei Medical College.
EZhou Steel Factory.
Hunan YuanDa Air-condition Co., Ltd.
Hunan FeiYun Hotel.



North China

- Beijing Chaoyangmeng Substation Center.
- School of Architecture Tsinghua University Peking China.
- Beijing Debao Hotel.
- Beijing Miyun Sewage Treatment Plant.
- Beijing Qianmen Commercial Building .
- Beijing Yanqing People's Department Store.
- Tianjin Kerry hotel.
- Tangshan Telecommunications Hub.
- Bank of China Harbin.
- New World Department Store (Harbin Branch).
- The People's Bank of China Jinan Branch.
- Tsingtao Center.
- Dandong International Hotel.
- New World Hotel Dalian.
- Dalian New World Building.
- New World Department Store (Shenyang Branch).
- Dongying Hotel.
- Weston Square.

East China

- Grand Gateway.
- Shanghai Plaza 66.
- Shanghai Kerry Centre.
- 21st Century Tower Four Seasons Hotel Shanghai Pudong.
- Shanghai Ramada Hotel.
- Shanghai New World Department Store Supermarket.
- Shanghai New World Department Store Changning Branch, Qibao Branch, Hongkou Branch, Jiuzhou Branch.
- Shanghai Hongkong New World Garden.
- Shanghai Zhongshan Square.
- New World Shanghai Hotel.
- Guoco Center Hotel.
- New World Department Store (Wuxi Branch).
- New World Department Store (Nanjing Branch).
- Hangzhou Rejing International Hotel.
- Kunshan Wanjiahui Commercial Building .
- Zhengzhou Yuhong International Department Stores.
- Xiamen ShiaMen Square.
- Shanghai Mart.
- Fuzhou Railway Station.
- Xiamen World Trade Center.

Hong Kong and Macau

- Hong Kong Science Museum.
- Hong Kong International Finance Centre.
- Hong Kong Tuen Mun Town Plaza.
- Hong Kong Office of DAB.
- The Chinese University of Hong Kong.
- Hong Kong Tuen Mun Hospital.
- Hong Kong New Town Plaza.
- Drorsett Far East Hotel-Hong Kong.
- Hong Kong Maxim's Food Restaurant.
- Holiday Inn Macau.
- Macau Fong Fong Kei Restaurant.
- MGM Macau Hotel.

Americas Region

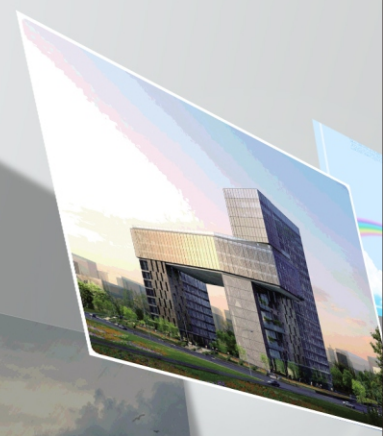
Umas COPIAPO
UC SAN CARLOS
Vina el Principal
Hotel Diego De Almagro
Casino Temuco
Casino Valdivia
Bodega Pencahue
Teatro Del Lago
Umas Comunidad Israecita-B
Achs Maipu
Casino Antofagasta Rev D-1
Casino Pto Varas
Mall Osorno
Hotel Pto Varas
Umas San Sebastian
Universidad Central Campus Almagro

Asian Region

Pakistan Library
Bahria
Fakhri Trade Center
Saudi Arabia Post Building
Commercial Cinema
Singapore Government Building
Philippine Grand Cenia Hotel
Naheed Super Market
PT Batavia

Oceania Region

Hyundai Headquarters
Gouger Street Redevelopment
Fijitsu Data Center



Our job reference in overseas

