

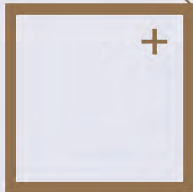
THINK INNOVATION

SAMJUNG TECH

Absorption Chiller & Fan Coil Unit



www.samjungtech.com



Competitiveness and achievements



Challenging to the 21st century with the core technology

Samjung Tech has reinforced human resources, information infrastructures and technical development capacity since established. In addition, it has minimized the business crisis from economic cycles by saving the cost and expanding its market share through a high-quality service. It has successfully attained at shortening the delivery, improving quality of products from combining equipment manufacturing and construction, and spurred on the global strategy for expanding export.

Samjung Tech's competitiveness

Building up reliability with customers

Succeeding to manpower and the technology from Samsung Heavy Industries, we have maintained the good reputation as a reliable company.

Innovative technology

We acquired lots of intellectual properties by developing innovative technology and preoccupied the market prior to other competitors.

Synergy from combining manufacturing and construction

It has been a leading company shortening the time limit for delivery, improving quality of products, and saving the cost from combining equipment manufacturing and construction.

Outstanding human resources and organization

Most of the employees have job experience for a long time. We take absolutely advantageous position over accumulated technology, know-how, skillfulness, and organization.

Samjung Tech

A company with Samsung's reliable technology and people

Samjung Tech has been growing and developing into a leading company since it separated from Samsung group in January 2000. On the basis of its abundant experience and high technologies, Samjung Tech has expanded its businesses into the various fields such as refrigeration & air conditioning system, parking system, platform screen doors system, construction, and all kinds of facility construction works.

Samjung Tech comprises headquarters in Seoul, five nationwide branches located in metropolitans, and factories and research institutes established in Gimpo and Changwon, Korea. Through close collaboration of each part, Samjung Tech is willing to satisfy customers.

Also Samjung Tech provides its top-notch products for foreign customers through overseas agents network worldwide.



Refrigeration & air conditioning system of Samjung Tech

Close to customers at all time -

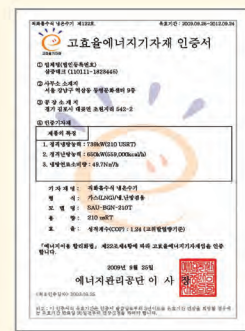
Samjung Tech is at the center of beautiful and convenient life.

Refrigeration & air conditioning system of Samjung Tech has lead a pure and pleasant green life-culture.

Samjung Tech has directly produced and supplied various equipments such as absorption chiller & heater, air handling unit, heat recovery ventilation system, cooling tower, fan coil unit, EHP, etc.

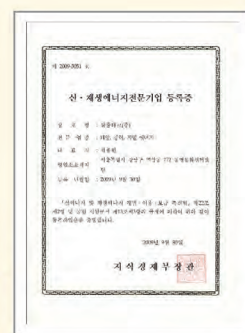
Especially, absorption chiller & heater has become the best items of the industry because we have supplied about 3,000 units to domestic and foreign countries until now through continuous R&D and stable after-sale service.

In addition, we were proudly approved our Quality Control System by being awarded the certificate for the quality competitiveness enterprise from MKE.



Hybrid solar energy absorption chiller

Samjung Tech has been approved of the research and development of a new & renewable energy technology from the government and has, as a major company, successfully completed a task of developing hybrid solar energy absorption chiller with 30RT level. Based on this, it has led many projects related to technical development in the solar energy field.



(Registration certificate for a new & renewable energy specialized company)

Absorption Chiller & Fan Coil Unit



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Direct Fired Double Effect Absorption Chiller & Heater, T-Series



Based on accumulated technical know-how along with the technical cooperation with Hitachi in the past, Samjung has achieved high efficiency in operation, as well as excellent reliability and simplicity in maintenance by developing next generation Direct Fired Double Effect Absorption Chiller & Heater T-series, which are equipped with a highly functional PLC panel and high efficient energy saving technology. This high efficient and energy saving type produces heat source for heating and cooling with excellent capability at low costs. Samjung's absorption chiller and heater has been advanced to the new dimension of chiller and heater and it realizes energy saving as well as cost saving of total air-conditioning system.

**Triple TOP
Satisfaction**

TOP HIGH RELIABILITY

Attached high performance PLC panel for prevention of malfunction, protection of equipment and foretelling of disorder.

TOP ENERGY SAVING

Save annual cooling cost to about 24% with new technology

TOP SIMPLE OPERATION & MAINTENANCE

Operate chiller easily and reduce cost and time for maintenance with wide color touchscreen and various function

Major characteristics

The Top energy saving is realized with the newest technology and perfect performance test facilities

1. Applied optimum cycle design technology and two stage Evaporator and Absorber

2. Applied new developed High Efficiency special type tubes to improve the Heat Transfer effects

3. Adopted High Efficient SUS-Plate and welded type Solution Heat Exchanger of SWEP to compact and improve the Heat Transfer effects

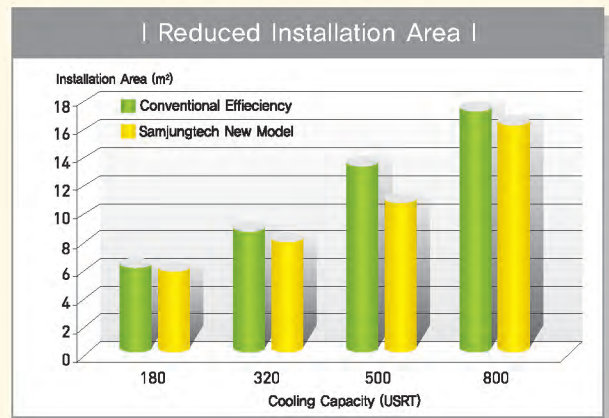
4. Adopted High Efficient SUS-Plate and welded type Condensing Refrigerant Heat Exchanger of SWEP to use the Condensing Waste Heat of Refrigerant

5. Applied optimum combustion technology and Exhaust Gas Heat Exchanger to improve the Heat Transfer effects through the Waste Heat Recovery

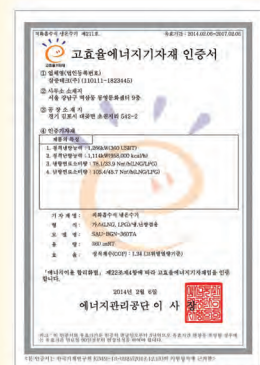
6. Applied intelligent touch screen type PLC Panel (Please see page)

7. Save 24% Running Cost for cooling per year

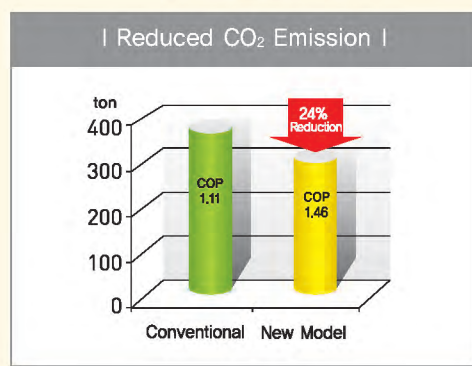
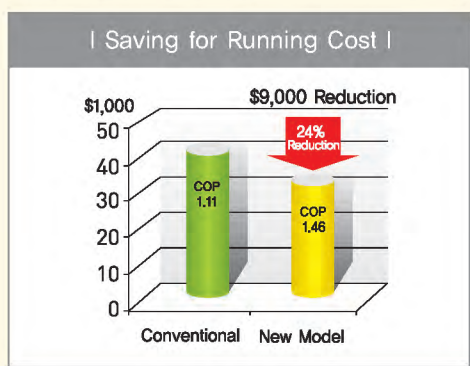
8. World-best level compact size



9. Qualified and acquired the Certificate of High Efficiency Chiller of all models by Government Office



10. Equipped the perfect Performance Test Facility in factory



Above graph is based on followings.

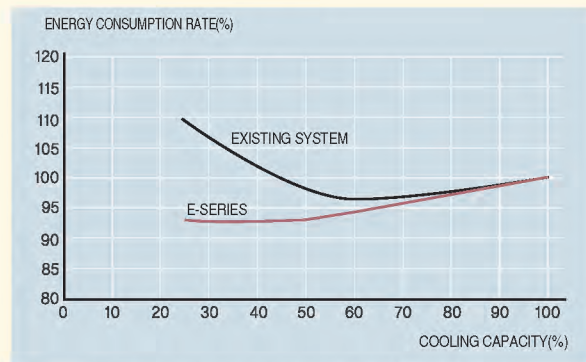
1. Cooling capacity 500 usRT 2. 800 hours of cooling operation time per year 3. Korea gas tariff standard

Exquisite control

Highly efficient operation and energy saving is realized with delicate and perfect operating control

1. 10% Increase in Partial Load Characteristic Compared to the Average Load Rate of Existing Model by Control of Whole Solution Circulation Flow Rate

Optimal condition for solution circulation is maintained for the highly efficient operation.



<Characteristic Comparison for Partial Load>

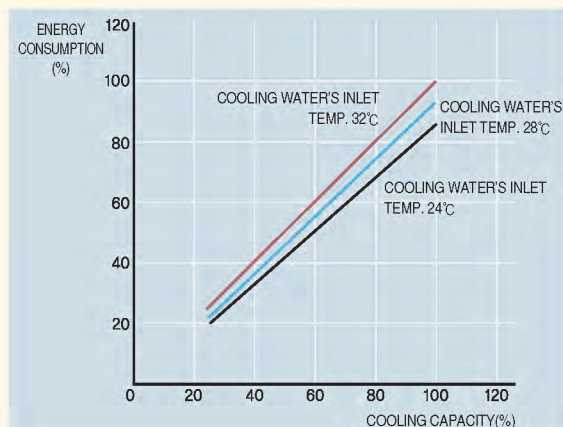
2. Energy Savings through Ideal Control of Dilution Operation Time

Stopping time has shortened compared to the conventional model through dilution operation time calculated by PLC. Also, the whole system's energy is saved by shortened operation time of pump and cooling tower during the dilution operation time.

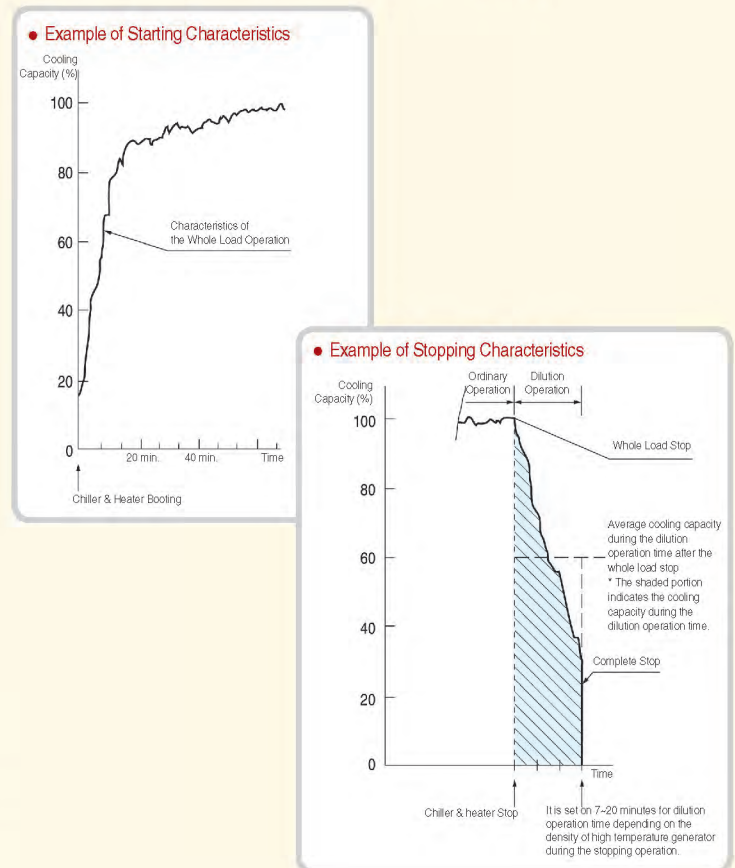
3. Characteristics of the Partial Load

Samjung Absorption Chiller and Heater is advantageous in energy saving not only under normal condition but also under the partial load condition.

The figure below indicates the relationship between cooling capacity (%) and energy consumption (%) at the cooling water's inlet temperature of 32°C, 28°C, 24°C, respectively.

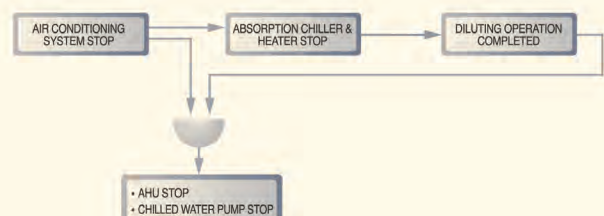


4. Characteristics of Starting and Stopping



5. Caution for stopping the Chiller and Heater

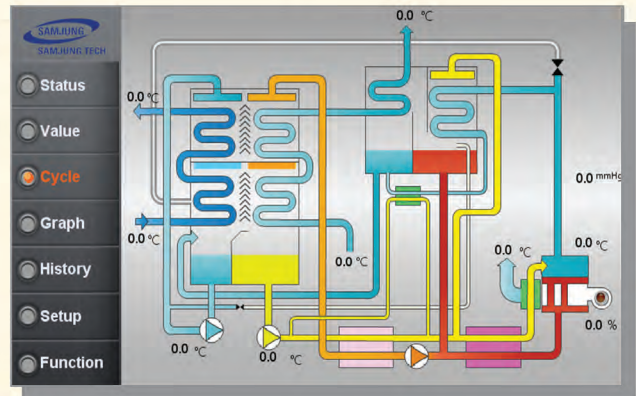
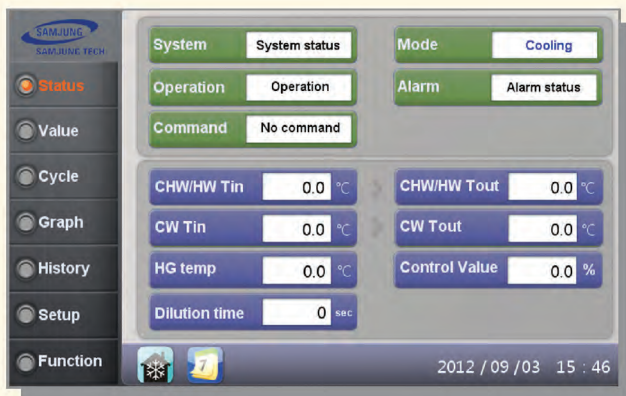
The circulating solution's temperature must be low enough from crystallization, and from the point of stopping to the complete stop by reaching the non crystallization area is known as the dilution operation. During the dilution operation, it is necessary to load the chiller and heater in order to prevent the refrigerant freezing and solution crystallization. Therefore, in case both stop at the same time, it is necessary to configure an interlock operation circuit to have chiller & heater to stop before the air conditioning unit where the air conditioning unit stops even after the completion of dilution operation.



Wide touch screen & easy operation check

The high efficient touch screen type PLC panel make possible more energy saving, convenient and safety control of chiller

1. Energy saving and rapid control for the change of load is realized by the more accurate and advanced PID control,
2. Large and clear color touch screen and highest PLC controller
 - Equip highest level 65,000 color, 10.4" wide color touch screen and the high reliable PLC of SIEMENS
3. Provide all of convenient and advanced functions for operating
 - Easily see and check the operating status of important parts and the operating trend of important values in real time at [Status], [Cycle] and [Graph] screen
 - Scheduling and remote operating / Operating history / Failure and alarm history / Setup function of the important target values etc.
 - Save all data for 5 years and print the operating report with USB memory



4. Advanced smart control panel
 - Remote control interface system(Optional)
 - The operator can easily control and monitor the chiller by interface system with a remote PC or Smart Phone
5. Safety operation through the pre-alarm, preventive maintenance and protection of system



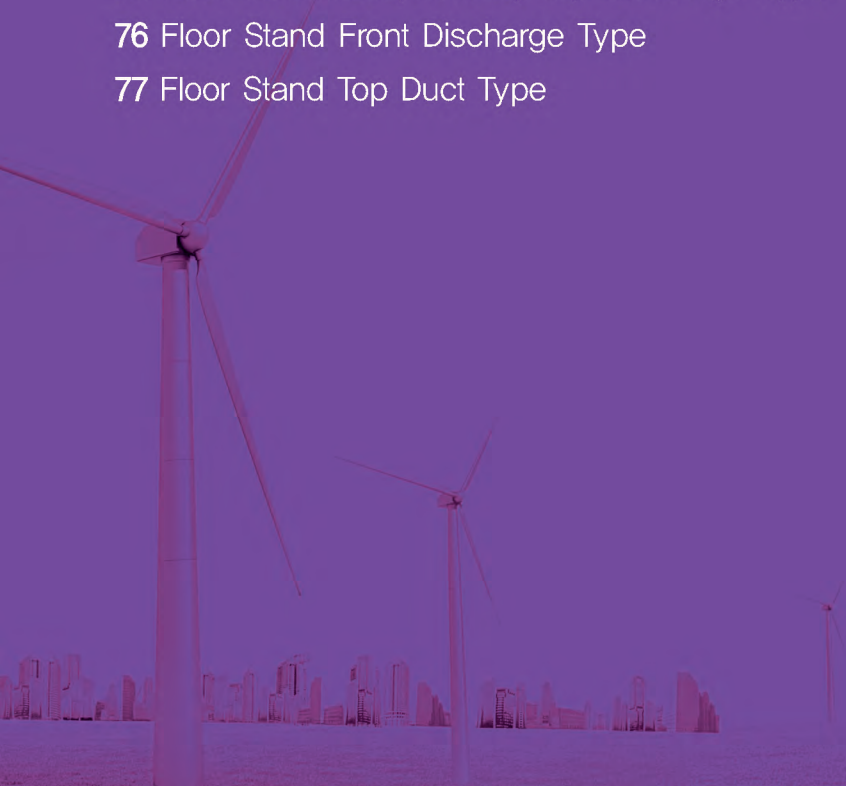
List of preventive protection and detection

- Preventive control of super cooled chilled water
- Limiting load control
- Frequency of purge
- Preventive control of over concentrated solution
- Abnormal temperature of the cooling water
- Pollution of cooling water tube
- Pollution of HTG tube
- Refrigerant over freezing prevention control

05

Fan Coil Unit(F.C.U.)

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- 68 Floor Exposed, Top Discharge Type
- 69 Floor Exposed, Slant Discharge Type
- 70 Floor Exposed, Lowboy Top Discharge Type
- 71 Floor Concealed, Front Discharge Type
- 72 Floor Concealed, Top Discharge Type
- 73 Floor Concealed, Slant Discharge Type
- 74 Floor Concealed, Front Suction Type
- 75 Floor Concealed, Lowboy Top Discharge Type
- 76 Floor Stand Front Discharge Type
- 77 Floor Stand Top Duct Type



FAN COIL UNIT (F.C.U.)

Samjung tech's diversified and economical fan coil units create pleasant space with optimum temperature. Comfortable indoor living for highly sophisticated and diversified buildings is guaranteed. They are designed with energy saving, space saving and easy installation in mind. Also, with Samjung's distinct interior know-how, fan coil units present natural ambiance with their elegant shapes and colors. Samjung's fan coil units are designed with radiator and ventilator in one compact unit realizing an excellent air-conditioning system for any types of environments and spaces. Samjung has been researching with unceasing effort for high efficiency, low noise, simple operation and expanding model selections.

Simple operation

The recent models with a digital controller make simple operation possible. The existing models also can be converted into one-touch system by three steps.

Diversification of models

There are variety of models according to purpose and condition. It is easy to choice suitable to wind, waves and installation condition.

Low-noise operation

Quiet indoor atmosphere is guaranteed by applying low-noise fan which minimizes the operating sound.

Application of the super high-efficient SLIT FIN

A heat exchanger is manufactured with our own unique expanding method, and super high-efficient SINE WAVE and SLIT FIN are applied.

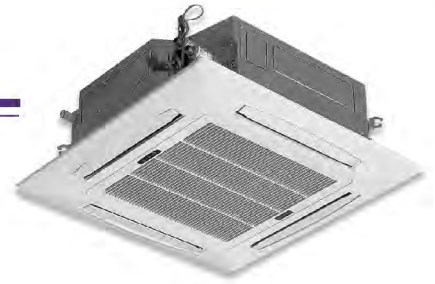
Compact design

Installation space is minimized with compact design which is effectively composed of high mechanism.



[Ceiling 4-Way Cassette Type]

(SC4D)



■ Specifications

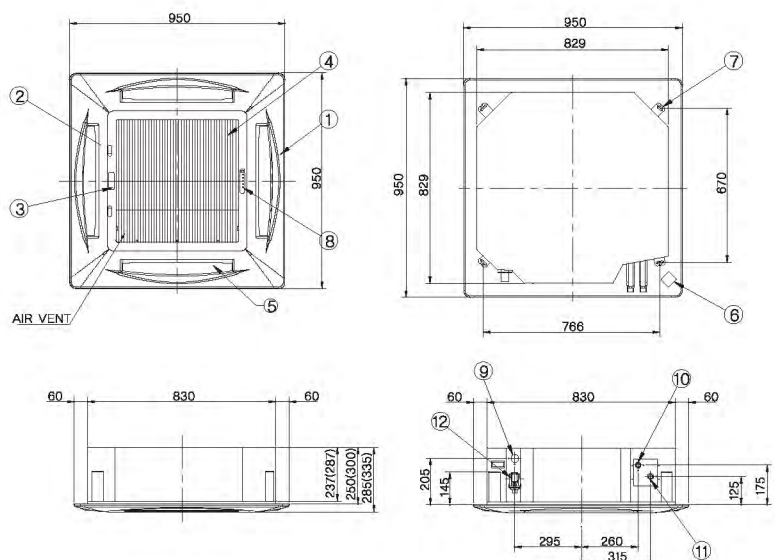
SECTION		MODEL	SC4D-3K		SC4D-4K		SC4D-5K		SC4D-6K		SC4D-8K		SC4D-10K	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			4,350	3,150	5,950	4,300	7,250	5,250	8,650	6,250	11,300	8,150	13,500	10,000
HEATING CAPACITY (kcal/hr)			8,080	5,050	10,900	6,850	13,400	8,400	16,000	10,000	21,000	13,000	25,000	15,500
FLOW RATE (LPM)			15	11	20	14	24	18	29	21	38	27	45	33.3
PRESSURE DROP (mAq)			2.9	2.6	3.1	2.8	3.7	2.9	5.1	3.5	5.8	4.9	8.1	7.2
VENTILATOR	TYPE		Single suction turbo type											
	NO.		1											
	AIR FLOW (m³/min)		13		16		19		22		26		33	
	MOTOR ELECTRIC POWER (W)		110				110		140		140		200	
CONTROL			3 Steps auto wireless remote control											
POWER			AC 1P 220V 50Hz											
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE		PF 3/4"(20A)											
	DRAIN PIPE SIZE		ø16(external diameter) / Drain Pump embedded(10W) / Head 600mm											
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER			Vinyl chloride(Flush)											
WEIGHT (kg)			34				34.5				35.5		39	
WRAPPING			Body : galvanized steel sheet, veneer : injection goods(HIPS, ABS)											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

DESCRIPTION	MATL	DIMENSION	Q'TY	REMARKS
1 Interior Grille Ass'Y	-	HIPS	1	Color : White Beige
2 Grille Button Attachment Snaps	-	HIPS	1	Sliding Type
3 Name Plate	-	-	1	-
4 Return Grille	-	HIPS	2	Color : White Beige
5 Air Guide Vane	-	ASS'Y	4	-
6 Swing Motor	-	ASS'Y	1	Stepping Motor : DC12V 150Q

DESCRIPTION	MATL	DIMENSION	Q'TY	REMARKS
7 Hanging Bracket	t1.6	GI	4	-
8 Receiver Remote Control	-	Acrylic	1	Wireless Remote Controller
9 Drain Joint Port	ø16(External diameter)	-	1	-
10 Cold/Hot Water Outlet	-	BS	1	-
11 Cold/Hot Water Inlet	PF 3/4"(20A)	BS	1	-
12 Drain Pump	PF 3/4"(20A)	-	1	1P, 220V, 60Hz



[Ceiling 2-way Cassette Type]

(SC2D)



■ Specifications

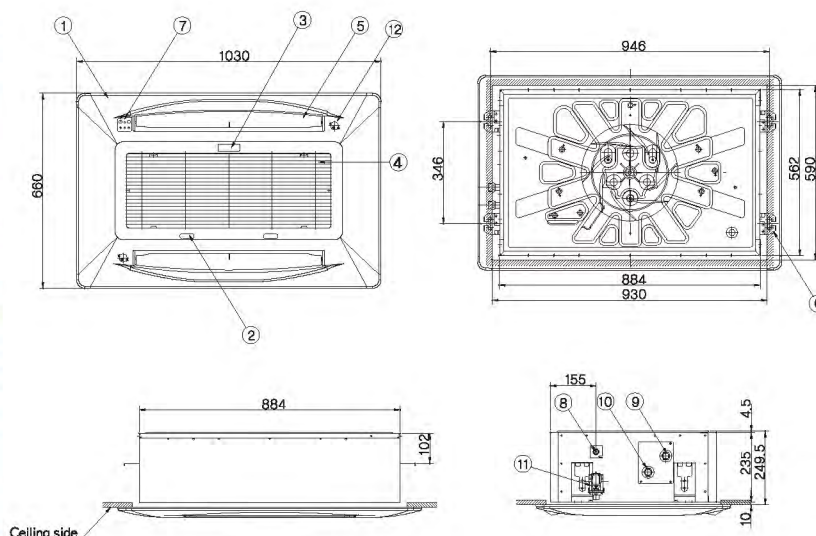
SECTION		MODEL	SC2D-3K		SC2D-4K		SC2D-5K	
CAPACITY CONDITION			A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			4,850	3,150	5,700	4,200	6,435	5,000
HEATING CAPACITY (kcal/hr)			8,900	5,050	10,400	6,335	11,900	7,300
FLOW RATE (LPM)			15	11	20	14	24	18
PRESSURE DROP (mAq)			0.7	0.6	2.0	1.0	2.9	1.6
VENTILATOR	TYPE		Single suction turbo type					
	NO.		1					
	AIR FLOW (m³/min)		11		13		16	
	MOTOR ELECTRIC POWER (W)		80		95		110	
CONTROL			3 steps rotary switch					
POWER			AC 1P 220V 50Hz					
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)					
PIPE	IN, OUT PIPE SIZE		PF 3/4" (20A)					
	DRAIN PIPE SIZE		ø16(external diameter) / Drain Pump embedded(10W) / Head 600mm					
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant					
AIR FILTER			Vinyl chloride(wash)					
WEIGHT (kg)			31		31		33	
WRAPPING			Galvanized steel sheet					

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

DESCRIPTION	MATL	DIMENSION	Q'TY	REMARKS
1 Interior Grille Ass'Y	-	HIPS	1	Color : White Beige
2 Grille Button Attachment Snaps	-	HIPS	2	Sliding Type
3 Name Plate	-	-	1	-
4 Return Grille	-	HIPS	1	Color : White Beige
5 Air Guide Vane	-	ASS'Y	4	-
6 Hanging Bracket	t1.6	GI	4	-

DESCRIPTION	MATL	DIMENSION	Q'TY	REMARKS
7 Receiver Remote Control	-	Acrylic	4	Black (Wireless Remote Controller)
8 Drain Joint Port	ø16(External diameter)	-	1	-
9 Cold/Hot Water Outlet	PF 3/4" (20A)	-	1	-
10 Cold/Hot Water Inlet	PF 3/4" (20A)	-	1	-
11 Drain Pump	PF 3/4" (20A)	-	1	1P, 220V, 60Hz
12 Swing Motor	DC12V 150Q	-	2	Stepping Motor



[Ceiling 1-way Cassette Type]

(SC1D)



■ Specifications

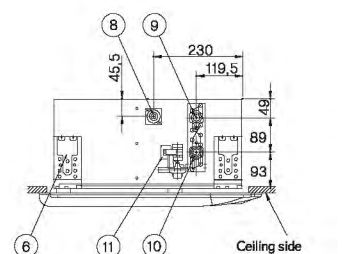
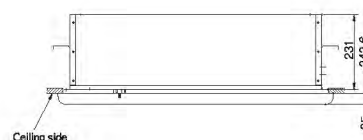
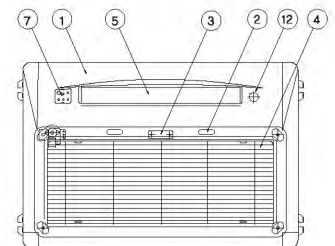
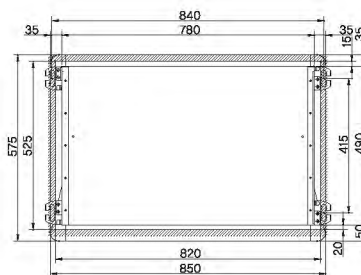
SECTION		MODEL	SC1D-1.5K		SC1D-2K		SC1D-2.5K		SC1D-3K		SC1D-3.5K	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,240	1,600	2,700	2,100	3,020	2,500	4,000	3,100	4,550	3,500
HEATING CAPACITY (kcal/hr)			4,400	2,560	5,000	3,200	5,780	3,700	7,300	4,500	8,450	5,300
FLOW RATE (LPM)			7.5	5.3	9.0	7.0	10.1	8.3	13.3	10.3	15.2	11.7
PRESSURE DROP (mAq)			0.43	0.22	0.62	0.38	0.78	0.53	2.05	1.24	2.64	1.56
VENTILATOR	TYPE		Double suction turbo type									
	NO.		1									
	AIR FLOW (m³/min)		5.6		7		9		9		11	
	MOTOR ELECTRIC POWER (W)		50		50		65		65		65	
CONTROL			3 steps rotary switch									
POWER			AC 1P 220V 50Hz									
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)									
PIPE	IN, OUT PIPE SIZE		PF 3/4"(20A)									
	DRAIN PIPE SIZE		ø16(external diameter) / Drain Pump embedded(10W) / Head 600mm									
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant									
AIR FILTER			Vinyl chloride(Flush)									
WEIGHT (kg)			28		28		28		30		30	
WRAPPING			Galvanized steel sheet									

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

DESCRIPTION	MATL	DIMENSION	Q'TY	REMARKS
1 Interior Grille Ass'y	-	HIPS	1	Color : White Beige
2 Grille Button Attachment Snaps	-	HIPS	1	Sliding Type
3 Name Plate	-	-	1	-
4 Return Grille	-	HIPS	2	Color : white Beige
5 Air Guide Vane	-	ASS'Y	2	-
6 Hanging Bracket	-	GI	4	-

DESCRIPTION	MATL	DIMENSION	Q'TY	REMARKS
7 Receiver Remote Control	-	Acrylic	4	Black (Wireless Remote Controller)
8 Drain Joint Port	ø16(External diameter)	-	1	-
9 Cold/Hot Water outlet	PF 3/4" (20A)	-	1	-
10 Cold/Hot Water Inlet	PF 3/4" (20A)	-	1	-
11 Drain Pump	-	-	1	1P, 220V, 60Hz
12 Swing Motor	DC 12V 15Ω	-	2	Stepping Motor



[Ceiling Exposed Type]

(SCO)



■ Specifications

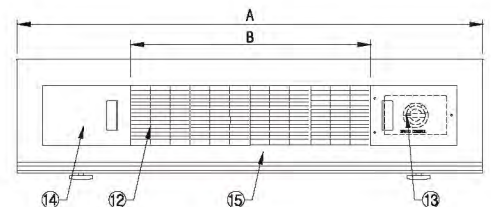
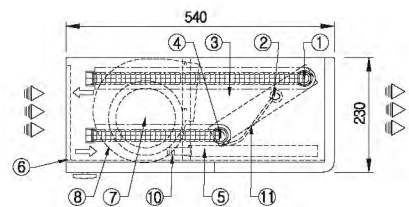
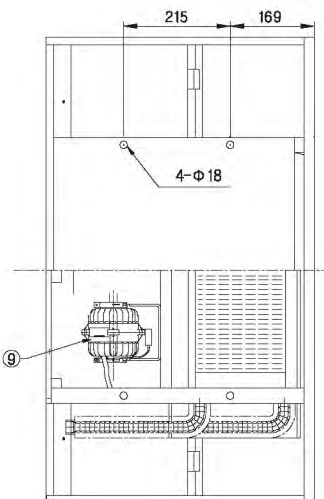
SECTION		MODEL	SCO-20A		SCO-30A		SCO-40A		SCO-60A		SCO-80A		SCO-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (ℓ /min)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE		Double suction turbo type											
	NO.		1		1		2		2		3		4	
	AIR FLOW (m³/min)		5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)		40		50		65		80		40 + 50		80 x 2	
CONTROL			3 steps rotary switch											
POWER			AC 1P 220V 50Hz											
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE		PF 3/4"(20A)											
	DRAIN PIPE SIZE		Nipple 3/4"(20A)											
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER			Vinyl chloride(Flush)											
WEIGHT (kg)			23		26		29		34		41		49	
WRAPPING			Cold-reduced carbon steel sheet											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

MODEL	A	B	G	M	F
1 20A	940	120×4=480	4	1	1
2 30A	1060	120×5=600	5	1	1
3 40A	1180	120×6=720	6	1	2
4 60A	1420	120×8=960	8	1	2
5 80A	1660	120×10=1200	10	2	3
6 120A	1900	120×12=1440	12	2	4

DESCRIPTION	MATL	DIMENSION	QTY	REMARKS
1 Water Outlet	PF 3/4" (20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	-
3 Inner Side Casing	t1.2	GI	2	-
4 Water Inlet	PF 3/4" (20A)	BS	1	Manual
5 Drain Pan	-	GI	1	-
6 Air Filter	-	Vinyl Chloride	1	Vinyl Chloride
7 Fan Impeller	Ø145	ABS	F	-
8 Fan Housing	-	ABS	F	-
9 Motor	1P, 220V, 60Hz	ASS'Y	M	-
10 Drain Connection	Nipple 1/2" (15A)	-	1	-
11 Heat & Cooling Coil	OD3/8×10.35	CU-AL	1	Slit Fin Adopt
12 Grille	120×120	Heat-Resisting ABS	G	-
13 Access Door	120×200	ABS	2	-
14 Outer Air Panel	t1.0	CR	1	-



[Ceiling Concealed Type]

(SCR)



■ Specifications

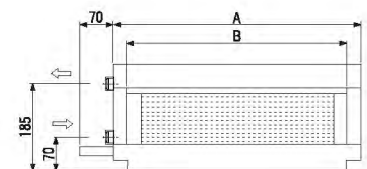
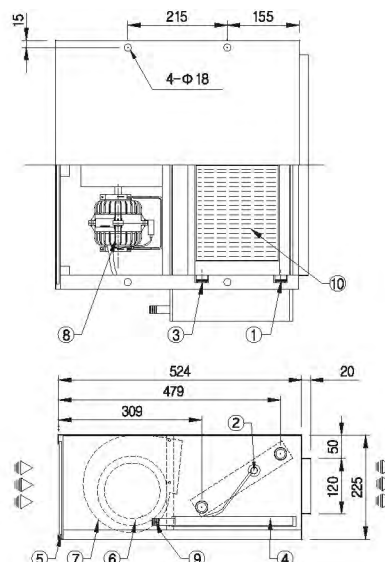
SECTION		MODEL	SCR-20A		SCR-30A		SCR-40A		SCR-60A		SCR-80A		SCR-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,620	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (ℓ /min)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE		Double suction turbo type											
	NO.		1		1		2		2		3		4	
	AIR FLOW (m³/min)		5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)		40		50		65		80		40 + 50		80 x 2	
CONTROL			3 steps rotary switch											
POWER			AC 1P 220V 50Hz											
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE		PF 3/4"(20A)											
	DRAIN PIPE SIZE		Nipple 3/4"(20A)											
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER			Vinyl chloride(Flush)											
WEIGHT (kg)			15		17		20		24		32		40	
WRAPPING			Cold-reduced carbon steel sheet											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

	MODEL	A	B	M	F
1	20A	540	480	1	1
2	30A	660	600	1	1
3	40A	780	720	1	2
4	60A	1020	960	1	2
5	80A	1260	1200	2	3
6	120A	1500	1440	2	4

	DESCRIPTION	MAT'L	DIMENSION	QTY	REMARK
1	Water Outlet	PF 3/4" (20A)	BS	1	-
2	Air Vent	PT 1/8"	BS	1	Manual
3	Water Inlet	PF 3/4" (20A)	BS	1	-
4	Drain Pan	-	GI	1	-
5	Air Filter	-	Vinyl Chloride	1	Flush
6	Fan Impeller	Ø145	ABS	F	Sirocco
7	Fan Housing	-	ABS	F	-
8	Motor	1P, 220V, 60Hz	ASS' Y	M	-
9	Drain Connection	Nipple 1/2" (15A)	-	1	-
10	Heat & Cooling Coil	OD3/8" x 10.35	CU-AL	1	Slit Fin T



[Ceiling High Static Pressure Type] (SCHP)



■ Specifications

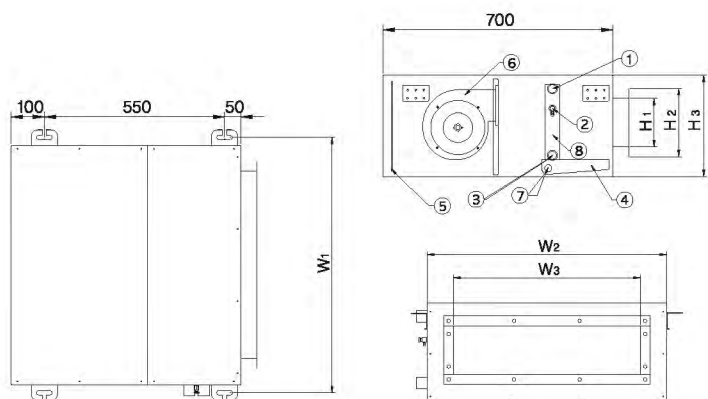
SECTION		MODEL		SCHP-132		SCHP-172		SCHP-212		SCHP-282		SCHP-312		SCHP-352		SCHP-402		SCHP-502		SCHP-552	
CAPACITY CONDITION				A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)				4,450	3,230	5250	3,990	8,400	4,520	11,650	6,830	12,900	8,140	15,000	9,090	16,800	11,530	21,000	15,700	23,100	17,580
HEATING CAPACITY (kcal/hr)				8,400	5,200	10,000	6,000	15,500	8,600	21,000	12,600	23,400	14,000	27,000	15,830	30,200	18,000	38,000	24,700	42,000	26,200
FLOW RATE (LPM)				14.8	10.8	17.5	13.3	28.0	15.1	38.8	22.8	43.0	27.1	50.0	30.3	56.0	38.4	70.0	52.3	77.0	58.6
PRESSURE DROP (mAq)				2.4	1.3	3.3	1.9	4.2	1.1	4.8	1.6	6.4	2.6	10.2	3.8	4.4	2.1	2.7	1.5	3.6	2.1
VENTILATOR	TYPE			Double suction turbo type																	
	NO.			1		1		1		1		1		2		2		2		2	
	AIR FLOW (m³/min)			13		17		21		28		31		35		40		50		55	
	MOTOR ELECTRIC POWER (W)			145		200		380		460		460		550		630		880		880	
CONTROL				3 steps rotary switch																	
POWER				AC 1P 220V 50Hz																	
HEAT EXCHANGER				Unite type Multi-Pass Cross Finned Tube(Slit Fin)																	
PIPE	IN, OUT PIPE SIZE			F3/4"(20A)												PT 1"(25A)					
	DRAIN PIPE SIZE			Nipple 3/4"(20A)																	
LAGGING, SOUND-ABSORBING MATERIAL				Styrofoam, P.E Foam / Flame resistance																	
AIR FILTER				Vinyl chloride(Flush)																	
WEIGHT (kg)				37		37		38		14		43		45		54		62		64	
WRAPPING				Body : Galvanized steel sheet, veneer : injection Goods(HIPS, ABS)																	

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

MODEL		132	172	212	282	312	352	402	502	552
1	W1	560	560	610	850	910	1,050	1,200	1,500	1,630
2	W2	510	510	560	800	860	1,000	1,150	1,450	1,580
3	W3	350	350	400	640	700	840	990	1,240	1,240

DESCRIPTION	MAT'L	DIMENSION	QTY	REMARK
1	Water Outlet	PF 3/4" (20A)	BS	1 -
2	Air Vent	PT 1/8"	BS	1 Manual
3	Water Inlet	PF 3/4" (20A)	BS	1 -
4	Drain Pan	-	GI	1 -
5	Air Filter	-	Vinyl Chloride	1 Flush
6	Fan Motor	1P, 220V, 60Hz	ASS' Y	M -
7	Drain Connection	Nipple 1/2" (15A)	-	1 -
8	Heat & Cooling Coil	OD3/8" x 10.35	CU-AL	1 Slit Fin T



[Floor Exposed, Front Discharge Type] (SFOA)



■ Specifications

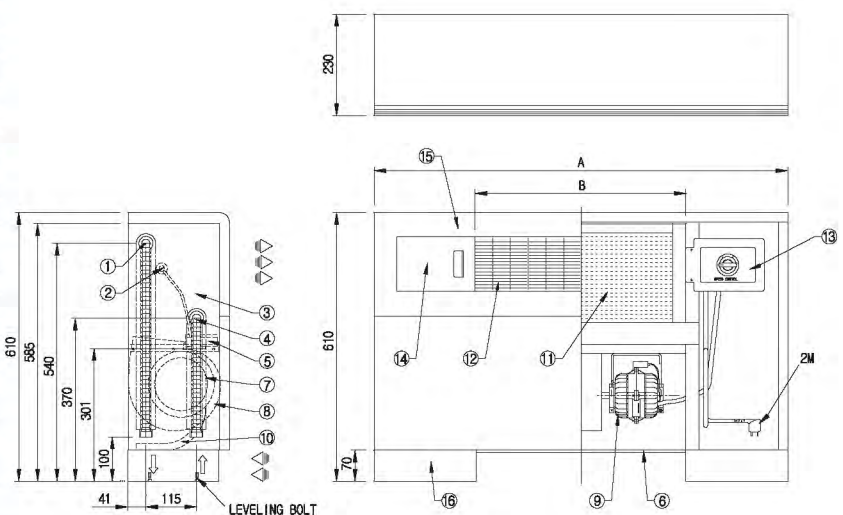
SECTION		MODEL	SFOA-20A		SFOA-30A		SFOA-40A		SFOA-60A		SFOA-80A		SFOA-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (ℓ /min)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE	Double suction turbo type												
	NO.													
	AIR FLOW (m³/min)													
	MOTOR ELECTRIC POWER (W)													
CONTROL		3 steps rotary switch												
POWER		AC 1P 220V 50Hz												
HEAT EXCHANGER		Unite type Multi-Pass Cross Finned Tube(Slit Fin)												
PIPE	IN, OUT PIPE SIZE	PF 3/4"(20A)												
	DRAIN PIPE SIZE	Soft vinyl hose(IDø14, ODø18)												
LAGGING, SOUND-ABSORBING MATERIAL		P.U Foam, Styrofoam P.E Foam / Flame resistant												
AIR FILTER		Vinyl chloride(Flush)												
WEIGHT (kg)														
WRAPPING		Cold-reduced carbon steel sheet												

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

	MODEL	A	B	G	M	F
1	20A	940	120×4=480	4	1	1
2	30A	1060	120×5=600	5	1	1
3	40A	1180	120×6=720	6	1	2
4	60A	1420	120×8=960	8	1	2
5	80A	1660	120×10=1200	10	2	3
6	120A	1900	120×12=1440	12	2	4

DESCRIPTION	MATL	DIMENSION	QTY	REMARKS
1 Water Outlet	PF 3/4" (20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	Manual
3 Inner Side Casing	t1.2	GI	2	-
4 Water Inlet	PF 3/4" (20A)	BS	1	-
5 Drain Pan	-	ABS	1	Plastic
6 Air Filter	-	Vinyl Chloride	1	Flush
7 Fan Impeller	ø145	ABS	F	Sirocco
8 Fan Housing	-	ABS	F	-
9 Motor	1P, 220V, 60Hz	ASS'Y	M	-
10 Drain Hose	IDø14, ODø18	Soft Vinyl	1	-
11 Heat & Cooling Coil	3/8" × 10.35	CU-AL	1	Slit Fin
12 Grille	120 × 120	Heat-Resisting ABS	G	-
13 Control S/W	High, Medium, Low 3-steps	-	1	Rotary
14 Access Door	120 × 200	ABS	2	-
15 Exterior Panel	t1.0	CR	1	Coating
16 Base	t3.0	Complex pp	2	T/K 30%



[Floor Exposed, Top Discharge Type]

(SFOB)



■ Specifications

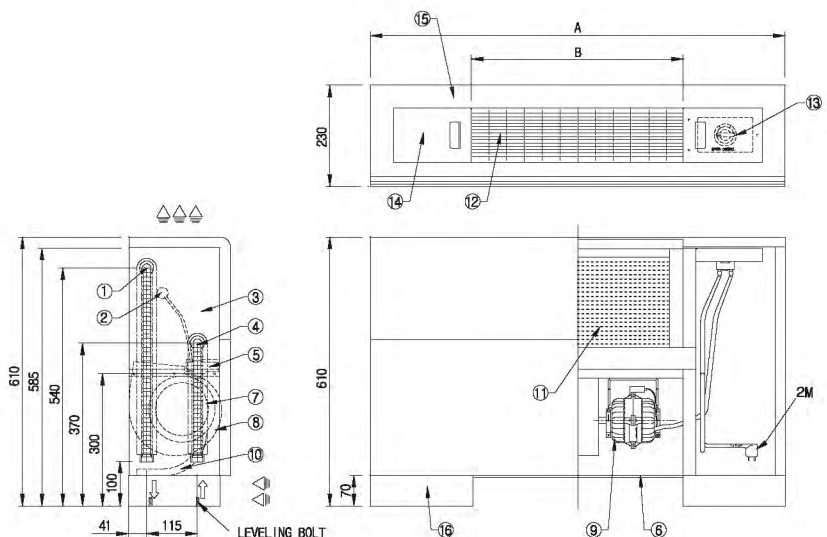
SECTION		MODEL	SFOB-20A		SFOB-30A		SFOB-40A		SFOB-60A		SFOB-80A		SFOB-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (ℓ /min)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE	Double suction turbo type												
	NO.		1		1		2		2		3		4	
	AIR FLOW (m³/min)		5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)		25		35		45		65		40+50		65×2	
CONTROL		3 steps rotary switch												
POWER		AC 1P 220V 50Hz												
HEAT EXCHANGER		Unite type Multi-Pass Cross Finned Tube(Slit Fin)												
PIPE	IN, OUT PIPE SIZE	PF 3/4"(20A)												
	DRAIN PIPE SIZE	Soft vinyl hose(IDø14, ODø18)												
LAGGING, SOUND-ABSORBING MATERIAL		P.U Foam, Styrofoam P.E Foam / Flame resistant												
AIR FILTER		Vinyl chloride(Flush)												
WEIGHT (kg)			24		27		31		36		41		49	
WRAPPING		Cold-reduced carbon steel sheet t1.0 (Color : white beige)												

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

	MODEL	A	B	G	M	F
1	20A	940	120×4=480	4	1	1
2	30A	1060	120×5=600	5	1	1
3	40A	1180	120×6=720	6	1	2
4	60A	1420	120×8=960	8	1	2
5	80A	1660	120×10=1200	10	2	3
6	120A	1900	120×12=1440	12	2	4

DESCRIPTION	MATL	DIMENSION	QTY	REMARKS
1 Water Outlet	PF 3/4"(20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	Manual
3 Inner Side Casing	t1.2	GI	2	-
4 Water Inlet	PF 3/4"(20A)	BS	1	-
5 Drain Pan	-	ABS	1	Plastic
6 Air Filter	-	Vinyl Chloride	1	Flush
7 Fan Impeller	ø145	ABS	F	Sirocco
8 Fan Housing	-	ABS	F	-
9 Motor	1P, 220V, 60Hz	ASS'Y	M	-
10 Drain Hose	IDø14, ODø18	Soft Vinyl	1	-
11 Heat & Cooling Coil	3/8"×10.35	CU-AL	1	Slit Fin
12 Grille	120×120	Heat-Resisting ABS	G	-
13 Control S/W	High, Medium, Low 3-steps	-	1	Rotary
14 Access Door	120×200	ABS	2	-
15 Exterior Panel	t1.0	CR	1	Coating
16 Base	t3.0	Mixed pp	2	T/K 30%



[Floor Exposed, Slant Discharge Type]

(SFOC)



■ Specifications

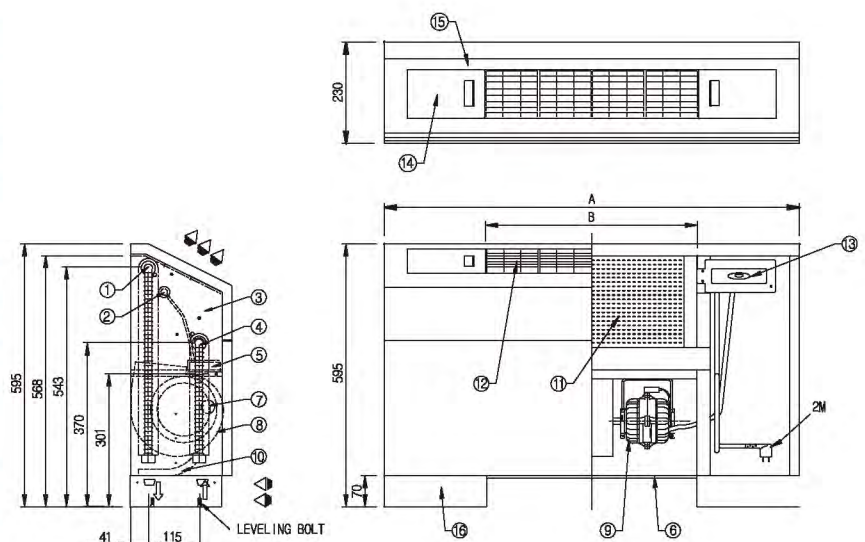
SECTION		MODEL	SFOC-20A		SFOC-30A		SFOC-40A		SFOC-60A		SFOC-80A		SFOC-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (LPM)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE		Double suction turbo type											
	NO.		1		1		2		2		3		4	
	AIR FLOW (m³/min)		5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)		25		35		45		65		40+50		65×2	
CONTROL			3 steps rotary switch											
POWER			AC 1P 220V 50Hz											
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE		PF 3/4"(20A)											
	DRAIN PIPE SIZE		Soft vinyl hose(IDø14, ODø18)											
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER			Vinyl chloride(Flush)											
WEIGHT (kg)			23		26		29		34		39		47	
WRAPPING			Cold-reduced carbon steel sheets											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

	MODEL	A	B	G	M	F
1	20A	940	120×4=480	4	1	1
2	30A	1060	120×5=600	5	1	1
3	40A	1180	120×6=720	6	1	2
4	60A	1420	120×8=960	8	1	2
5	80A	1660	120×10=1200	10	2	3
6	120A	1900	120×12=1440	12	2	4

DESCRIPTION	MATL	DIMENSION	QTY	REMARKS
1 Water Outlet	PF 3/4" (20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	Manual
3 Inner Side Casing	t1.2	GI	2	-
4 Water Inlet	PF 3/4" (20A)	BS	1	-
5 Drain Pan	-	ABS	1	Plastic
6 Air Filter	-	Vinyl Chloride	1	Flush
7 Fan Impeller	ø145	ABS	F	Sirocco
8 Fan Housing	-	ABS	F	-
9 Motor	1ø, 220V, 60Hz	ASS'Y	M	-
10 Drain Hose	IDø14, ODø18	Soft Vinyl	1	-
11 Heat & Cooling Coil	3/8" × t0.35	CU-AL	1	Slit Fin
12 Grille	120×120	ABS	G	-
13 Control S/W	High, Medium, Low 3-steps	-	1	Rotary
14 Access Door	120×200	ABS	2	Coating
15 Exterior Panel	t1.0	CR	1	T/K 30%
16 Base	t3.0	Complex pp	2	-



[Floor Exposed, Lowboy Top Discharge Type]

(SFOL)

■ Specifications



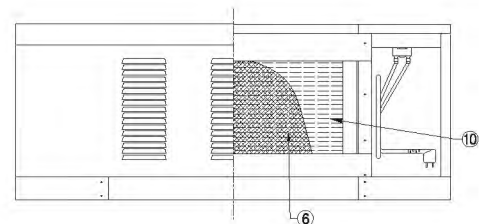
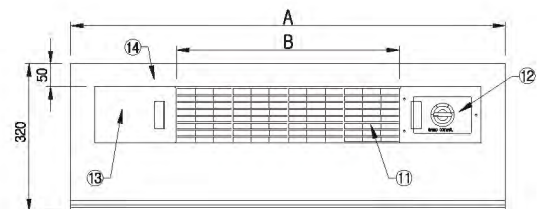
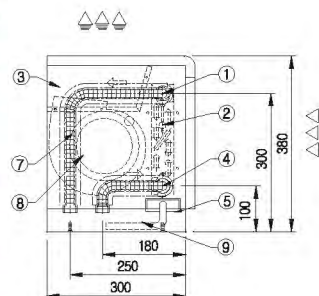
SECTION		MODEL	SFOL-20A		SFOL-30A		SFOL-40A		SFOL-60A		SFOL-80A		SFOL-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (ℓ /min)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE		Double suction turbo type											
	NO.		1		1		2		2		3		4	
	AIR FLOW (m³/min)		5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)		25		35		45		65		40+50		65×2	
CONTROL			3 steps rotary switch											
POWER			AC 1P 220V 50Hz											
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE		PF 3/4"(20A)											
	DRAIN PIPE SIZE		Soft vinyl hose(IDø14, ODø18)											
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER			Vinyl chloride(Flush)											
WEIGHT (kg)			24		27		31		36		41		49	
WRAPPING			Cold-reduced carbon steel sheet											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

	MODEL	A	B	G	M	F
1	20A	940	120×4=480	4	1	1
2	30A	1060	120×5=600	5	1	1
3	40A	1180	120×6=720	6	1	2
4	60A	1420	120×8=960	8	1	2
5	80A	1660	120×10=1200	10	2	3
6	120A	1900	120×12=1440	12	2	4

DESCRIPTION	MATL	DIMENSION	QTY	REMARKS
1 Water Outlet	PF 3/4" (20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	Manual
3 Inner Side Casing	1.2T	GI	2	-
4 Water Inlet	PF 3/4" (20A)	BS	1	-
5 Drain Pan	-	ABS	1	Plastic
6 Air Filter	-	Vinyl Chloride	1	Wash
7 Fan Impeller	ø145	ABS	F	Sirocco
8 Motor	1P, 220V, 60Hz	ASS'Y	M	-
9 Drain Hose	IDø14, ODø18	Soft Vinyl	1	-
10 Heat & Cooling Coil	OD 3/8" × 10.35	CU-AL	1	Slit Fin
11 Grille	120 × 120	Heat-Resisting ABS	G	-
12 Control S/W	High, Medium, Low 3-steps	-	1	Rotary
13 Access Door	120 × 200	ABS	2	Coating
14 Exterior Panel	t1.0	CR	1	-



[Floor Concealed, Front Discharge Type] (SFRA)



Specifications

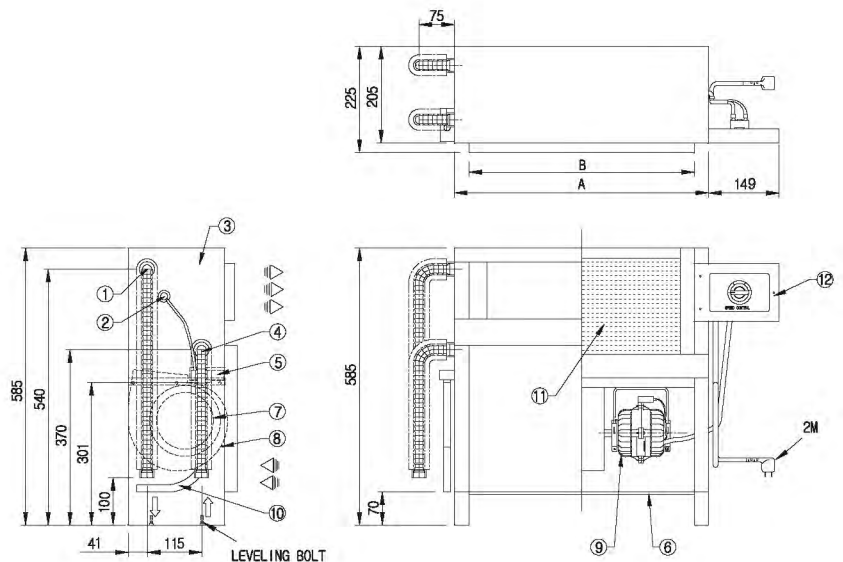
SECTION		MODEL	SFRA-20A		SFRA-30A		SFRA-40A		SFRA-60A		SFRA-80A		SFRA-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (ℓ /min)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE		Double suction turbo type											
	NO.		1		1		2		2		3		4	
	AIR FLOW (m³/min)		5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)		25		35		45		65		40+50		65×2	
CONTROL			3 steps rotary switch											
POWER			AC 1P 220V 50Hz											
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE		PF 3/4"(20A)											
	DRAIN PIPE SIZE		Soft vinyl hose(IDø14, ODø18)											
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER			Vinyl chloride(Flush)											
WEIGHT (kg)			14		16		20		25		32		40	
WRAPPING			Galvanized steel sheet											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

Outward structure

	MODEL	A	B	M	F
1	20A	540	480	1	1
2	30A	660	600	1	1
3	40A	780	720	1	2
4	60A	1020	960	1	2
5	80A	1260	1200	2	3
6	120A	1500	1440	2	4

DESCRIPTION	MATL	DIMENSION	QTY	REMARKS
1 Water Outlet	PF 3/4" (20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	Manual
3 Inner Side Casing	t1.2	GI	2	-
4 Water Inlet	PF 3/4" (20A)	BS	1	-
5 Drain Pan	-	ABS	1	Plastic
6 Air Filter	-	Vinyl Chloride	1	Flush
7 Fan Impeller	ø145	ABS	F	Sirocco
8 Fan Housing	-	ABS	F	-
9 Motor	1P, 220V, 60Hz	ASS'Y	M	-
10 Drain Hose	IDø14, ODø18	Soft Vinyl	1	-
11 Heat & Cooling Coil	3/8×10.35	CU-AL	1	Slit Fin
12 Control S/W	High, Medium, Low 3-steps	-	1	Rotary



[Floor Concealed, Top Discharge Type] (SFRB)



Specifications

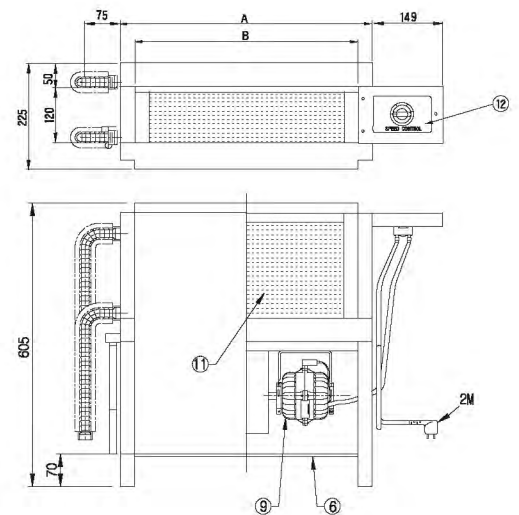
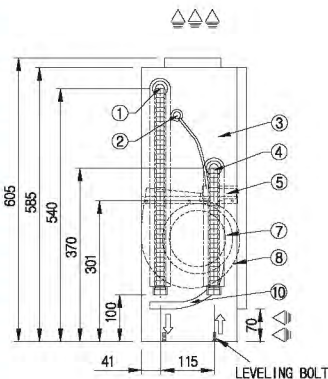
SECTION		MODEL	SFRB-20A		SFRB-30A		SFRB-40A		SFRB-60A		SFRB-80A		SFRB-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (ℓ /min)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE		Double suction turbo type											
	NO.		1		1		2		2		3		4	
	AIR FLOW (m³/min)		5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)		25		35		45		65		40+50		65×2	
CONTROL			3 steps rotary switch											
POWER			AC 1P 220V 50Hz											
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE		PF 3/4" (20A)											
	DRAIN PIPE SIZE		Soft vinyl hose(IDø14, ODø18)											
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER			Vinyl chloride(Flush)											
WEIGHT (kg)			14		16		20		25		32		40	
WRAPPING			Galvanized steel sheet											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

Outward structure

	MODEL	A	B	M	F
1	20A	540	480	1	1
2	30A	660	600	1	1
3	40A	780	720	1	2
4	60A	1020	960	1	2
5	80A	1260	1200	2	3
6	120A	1500	1440	2	4

DESCRIPTION	MATL	DIMENSION	QTY	REMARKS
1 Water Outlet	PF 3/4" (20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	Manual
3 Inner Side Casing	t1.2	GI	2	-
4 Water Inlet	PF 3/4" (20A)	BS	1	-
5 Drain Pan	-	ABS	1	Plastic
6 Air Filter	-	Vinyl Chloride	1	Flush
7 Fan Impeller	ø145	-	F	Sirocco
8 Fan Housing	-	ABS	F	-
9 Motor	1P, 220V, 60Hz	ABS	M	-
10 Drain Hose	IDø14, ODø18	ASS'Y	1	-
11 Heat & Cooling Coil	3/8" × 10.35	Soft Vinyl	1	Slit Fin
12 Control S/W	High, Medium, Low 3-steps	CU-AL	1	Rotary



[Floor Concealed, Slant Discharge Type] (SFRC)



■ Specifications

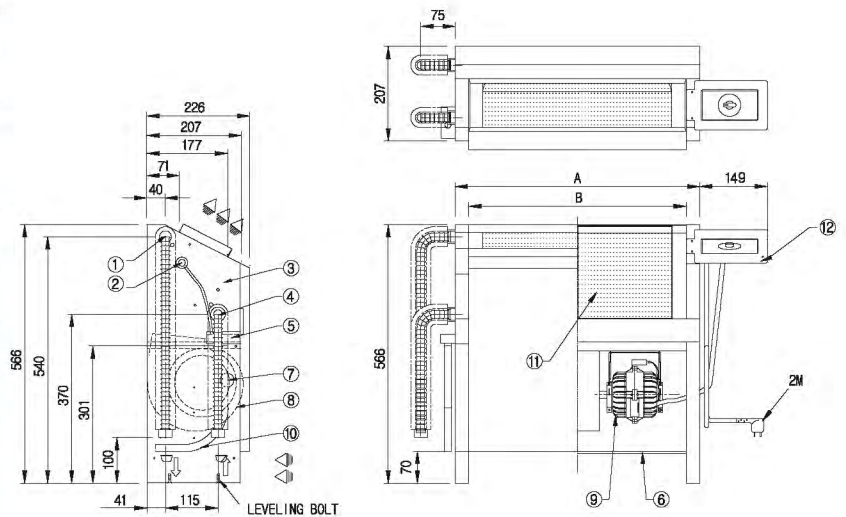
SECTION		MODEL		SFRC-20A		SFRC-30A		SFRC-40A		SFRC-60A		SFRC-80A		SFRC-120A	
CAPACITY CONDITION				A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)				2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)				4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (LPM)				10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)				1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE			Double suction turbo type											
	NO.			1		1		2		2		3		4	
	AIR FLOW (m³/min)			5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)			25		35		45		65		40+50		65×2	
CONTROL				3 steps rotary switch											
POWER				AC 1P 220V 50Hz											
HEAT EXCHANGER				Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE			PF 3/4"(20A)											
	DRAIN PIPE SIZE			Soft vinyl hose(IDø14, ODø18)											
LAGGING, SOUND-ABSORBING MATERIAL				P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER				Vinyl chloride(Flush)											
WEIGHT (kg)				14		16		20		25		32		40	
WRAPPING				Galvanized steel sheet											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

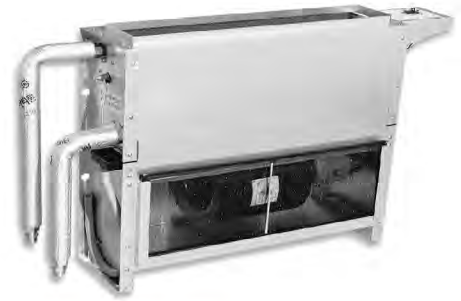
■ Outward structure

	MODEL	A	B	M	F
1	20A	540	480	1	1
2	30A	660	600	1	1
3	40A	780	720	1	2
4	60A	1020	960	1	2
5	80A	1260	1200	2	3
6	120A	1500	1440	2	4

DESCRIPTION	MATL	DIMENSION	QTY	REMARKS
1 Water Outlet	PF 3/4" (20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	Manual
3 Inner Side Casing	t1.2	GI	2	-
4 Water Inlet	PF 3/4" (20A)	BS	1	-
5 Drain Pan	-	ABS	1	Plastic
6 Air Filter	-	Vinyl Chloride	1	Flush
7 Fan Impeller	ø145	-	F	Sirocco
8 Fan Housing	-	ABS	F	-
9 Motor	1P, 220V, 60Hz	ABS	M	-
10 Drain Hose	IDø14, ODø18	ASS'Y	1	-
11 Heat & Cooling Coil	3/8" × 10.35	Soft Vinyl	1	Slit Fin
12 Control S/W	High, Medium, Low 3-steps	CU-AL	1	Rotary



[Floor Concealed, Front Suction Type] (SFRI)



Specifications

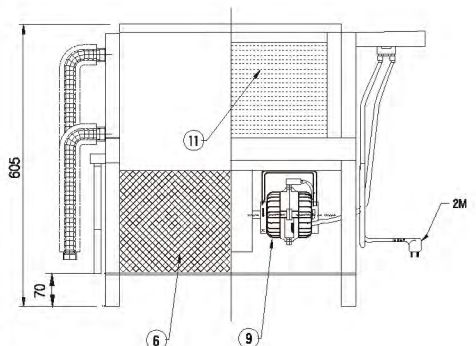
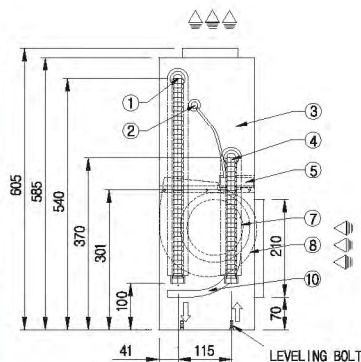
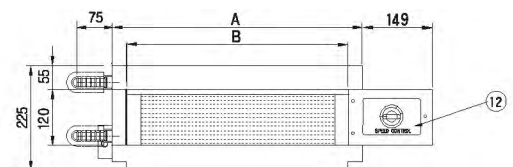
SECTION		MODEL	SFRI-20A		SFRI-30A		SFRI-40A		SFRI-60A		SFRI-80A		SFRI-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (LPM)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE		Double suction turbo type											
	NO.		1		1		2		2		3		4	
	AIR FLOW (m³/min)		5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)		25		35		45		65		40+50		65×2	
CONTROL			3 steps rotary switch											
POWER			AC 1P 220V 50Hz											
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE		PF 3/4"(20A)											
	DRAIN PIPE SIZE		Soft vinyl hose(IDø14, ODø18)											
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER			Vinyl chloride(Flush)											
WEIGHT (kg)			14		16		20		25		32		40	
WRAPPING			Galvanized steel sheet											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

Outward structure

	MODEL	A	B	M	F
1	20A	540	480	1	1
2	30A	660	600	1	1
3	40A	780	720	1	2
4	60A	1020	960	1	2
5	80A	1260	1200	2	3
6	120A	1500	1440	2	4

DESCRIPTION	MATL	DIMENSION	Q'TY	REMARKS
1 Water Outlet	PF 3/4" (20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	Manual
3 Inner Side Casing	t1.2	GI	2	-
4 Water Inlet	PF 3/4" (20A)	BS	1	-
5 Drain Pan	-	ABS	1	Plastic
6 Air Filter	-	Vinyl Chloride	1	Flush
7 Fan Impeller	ø145	ABS	F	Sirocco
8 Fan Housing	-	ABS	F	-
9 Motor	1P, 220V, 60Hz	ASS'Y	M	-
10 Drain Hose	IDø14, ODø18	Soft Vinyl	1	-
11 Heat & Cooling Coil	OD 3/8" x t0.35	CU-AL	1	Slit Fin
12 Control S/W	High, Medium, Low 3-steps	-	1	Rotary



[Floor Concealed, Lowboy Top Discharge Type]

(SFRL)



■ Specifications

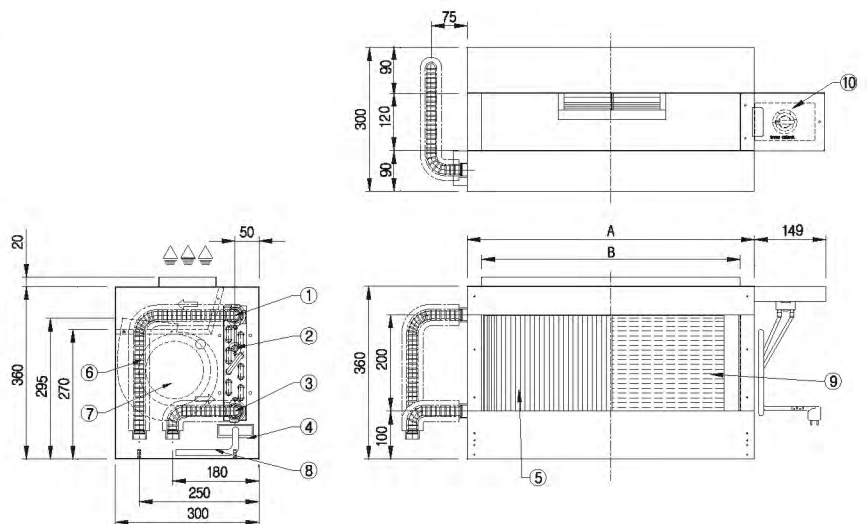
SECTION		MODEL	SFRL-20A		SFRL-30A		SFRL-40A		SFRL-60A		SFRL-80A		SFRL-120A	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			2,670	1,820	3,500	2,420	4,730	3,480	6,370	4,720	9,320	6,770	12,020	8,820
HEATING CAPACITY (kcal/hr)			4,630	2,980	6,790	4,100	9,250	5,770	12,500	7,530	18,310	11,140	20,530	12,330
FLOW RATE (ℓ /min)			10	6	12	8	15	11.5	20	15.7	30	22.4	40	29.3
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3
VENTILATOR	TYPE		Double suction turbo type											
	NO.		1		1		2		2		3		4	
	AIR FLOW (m³/min)		5.7		8.5		11.3		17		22.6		34	
	MOTOR ELECTRIC POWER (W)		25		35		45		65		40+50		65×2	
CONTROL			3 steps rotary switch											
POWER			AC 1P 220V 50Hz											
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)											
PIPE	IN, OUT PIPE SIZE		PF 3/4"(20A)											
	DRAIN PIPE SIZE		Soft vinyl hose(IDø14, ODø18)											
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, Styrofoam P.E Foam / Flame resistant											
AIR FILTER			Vinyl chloride(Flush)											
WEIGHT (kg)			15		18		20		25		32		40	
WRAPPING			Cold-reduced carbon steel sheet t1.0 (Color : white beige)											

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

MODEL	A	B	M	F
1 20A	540	480	1	1
2 30A	660	600	1	1
3 40A	780	720	1	2
4 60A	1020	960	1	2
5 80A	1260	1200	2	3
6 120A	1500	1440	2	4

DESCRIPTION	MAT'L	DIMENSION	QTY	REMARK
1 Water Outlet	PF 3/4" (20A)	BS	1	-
2 Air Vent	PT 1/8"	BS	1	Manual
3 Water Inlet	PF 3/4" (20A)	BS	1	-
4 Drain Pan	-	ABS	1	Plastic
5 Air Filter	-	Vinyl Chloride	1	Wash
6 Fan Impeller	ø145	ABS	F	Sirocco
7 Motor	1P, 220V, 60Hz	ASS'Y	M	-
8 Drain Hose	IDø14, ODø18	Soft Vinyl	1	-
9 Heat & Cooling Coil	OD3/8" × 10.35	CU-AL	1	Slit Fin T
10 Control S/W	High, Medium, Low 3-steps	-	1	Rotary



[Floor Stand Front Discharge Type](SFFA)

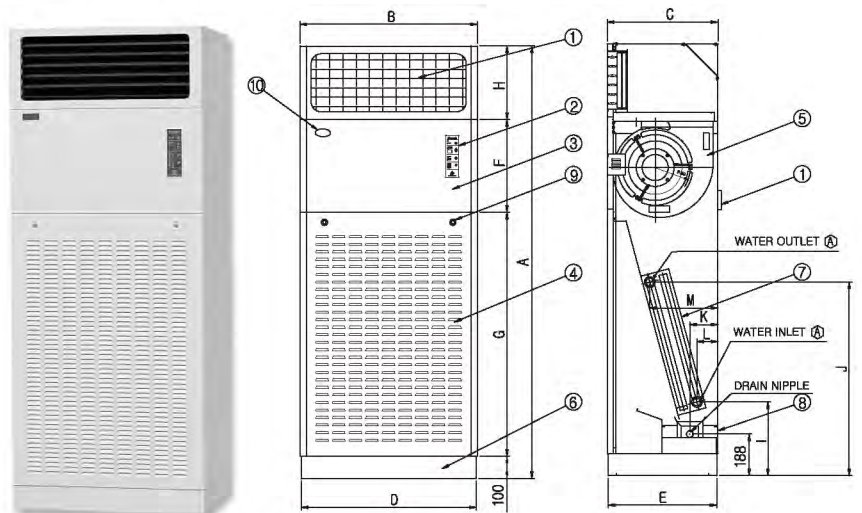
■ Specifications

SECTION			MODEL		SFFA-20S		SFFA-30S		SFFA-50S		SFFA-75S		SFFA-100S		SFFA-150S		SFFA-200S	
CAPACITY CONDITION			A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)			6,000	4,400	9,000	6,600	17,500	15,000	26,700	22,500	35,550	30,000	53,500	45,000	72,000	60,000		
HEATING CAPACITY (kcal/hr)			11,600	7,100	17,400	10,560	34,000	22,100	51,000	33,000	68,000	43,300	102,000	66,000	136,500	84,000		
FLOW RATE (ℓ /min)			20	15	30	21.5	58	50	88	75	120	100	180	150	240	200		
PRESSURE DROP (mAq)			1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3	4.1	2.3		
VENTILATOR	TYPE		Double suction turbo type															
	NO.		1		1		1		2		2		2		2			
	AIR FLOW (m³/min)		23		34		48		70		90		130		180			
	MOTOR ELECTRIC POWER (W)		145		420		420		840		900		1100		1500			
CONTROL			MICOM SWITCH (AUTO & 3 STEPS)															
POWER			AC 1P 220V 50Hz															
HEAT EXCHANGER			Unite type Multi-Pass Cross Finned Tube(Slit Fin)															
PIPE	IN, OUT PIPE SIZE		20A		25A		32A		40A		40A		50A		50A			
	DRAIN PIPE SIZE		Nipple (25A)															
LAGGING, SOUND-ABSORBING MATERIAL			P.U Foam, P.E Foam / Flame resistant															
AIR FILTER			Vinyl chloride(Flush)															
WRAPPING			Cold-reduced carbon steel sheet t1.0 (Color : white beige)															

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

DESCRIPTION	MAT'L	DIMENSION	QTY	REMARK
1 Air Out Grille	-	AL	1	Coating
2 Control Switch	4-contacts touch-type	-	1	1P, 220V, 60Hz
3 Casing	t1.2	CR	1	Coating
4 Air Inlet	t1.2	CR	1	Coating
5 Fan & Motor	-	-	1	Sirocco Fan
6 Base	t2.3	CR	1	Coating
7 Heat & Cooling Coil	OD 3/8" × t0.35	CU-AL	1	Hot and Cold Coil
8 Drain Panel	t1.2	CR	1	Coating
9 Screw Bolt	-	SUS	2	-
10 Name Plate	-	-	1	-
11 Terminal Block	20A 8P	-	1	-



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Ⓐ
1 20S	1800	800	500	790	490	390	1050	260	334	730	125	90	264	-	-	20
2 30S	1950	800	500	790	490	420	1100	330	334	730	125	90	264	600	390	25
3 50S	1950	1000	500	990	490	420	1100	330	334	875	125	90	303	800	390	32
4 75S	1950	1200	500	1190	490	460	1140	430	314	915	157	120	306	1000	390	40
5 100S	1950	1400	500	1390	490	370	1050	430	314	963	157	120	326	1200	390	40
6 150S	2150	1600	750	1590	740	450	1100	450	317	1073	252	222	566	1400	640	50
7 200S	2200	1700	750	1690	740	410	1140	450	317	1073	252	222	566	1500	640	50

[Floor Stand Top Duct Type](SFFD)

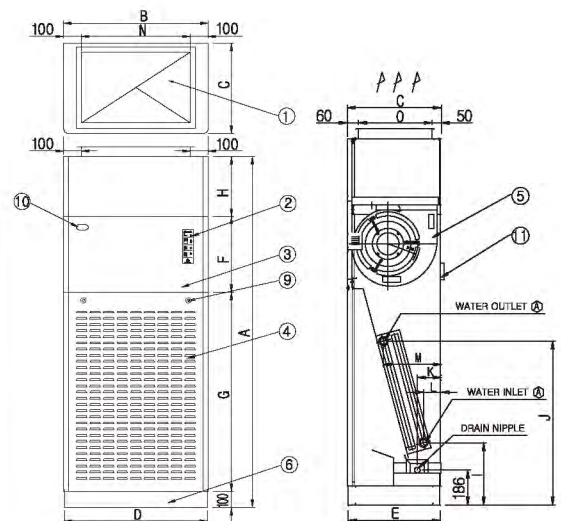
■ Specifications

SECTION			MODEL		SFFA-20S		SFFA-30S		SFFA-50S		SFFA-75S		SFFA-100S		SFFA-150S		SFFA-200S	
CAPACITY CONDITION					A	B	A	B	A	B	A	B	A	B	A	B	A	B
COOLING CAPACITY (kcal/hr)					6,000	4,400	9,000	6,600	17,500	15,000	26,700	22,500	35,550	30,000	53,500	45,000	72,000	60,000
HEATING CAPACITY (kcal/hr)					11,600	7,100	17,400	10,560	34,000	22,100	51,000	33,000	68,000	43,300	102,000	66,000	136,500	84,000
FLOW RATE (ℓ /min)					20	15	30	21.5	58	50	88	75	120	100	180	150	240	200
PRESSURE DROP (mAq)					1.5	0.72	2.4	1.5	4.1	2.9	1.9	1.3	4.1	2.7	4.1	2.3	4.1	2.3
VENTILATOR	TYPE				Double suction turbo type													
	NO.				1		1		1		2		2		2		2	
	AIR FLOW (m³/min)				23		34		48		70		90		130		180	
	MOTOR ELECTRIC POWER (W)				145		420		420		840		900		1100		1500	
	CONTROL				MICOM SWITCH (AUTO & 3 STEPS)										MICOM SWITCH			
POWER					AC 1P 220V 50Hz										AC 3φ 380V 50Hz			
HEAT EXCHANGER					Unite type Multi-Pass Cross Finned Tube(Slit Fin)													
PIPE	IN, OUT PIPE SIZE				20A		25A		32A		40A		40A		50A		50A	
	DRAIN PIPE SIZE				Nipple (25A)													
LAGGING, SOUND-ABSORBING MATERIAL					P.U Foam, P.E Foam / Flame resistant													
AIR FILTER					Vinyl chloride(Flush)													
WRAPPING					Cold-reduced carbon steel sheet t1.0 (Color : white beige)													

- Capacity condition A - Cooling capacity : Indoor air 27°C DB, 21°C WB, inlet Water temperature 5°C
Heating capacity : Indoor air 18°C, inlet water temperature 80°C
- Capacity condition B - Cooling capacity : Indoor air 27°C DB, 19.5°C WB, inlet water temperature 7°C
Heating capacity : Indoor air 21°C, inlet water temperature 60°C

■ Outward structure

DESCRIPTION	MAT'L	DIMENSION	QTY	REMARK
1 Supply Air	-	CR	1	Coating
2 Control Switch	4-contacts touch-type	-	1	1φ, 220V, 60Hz
3 Casing	t1.2	CR	1	Coating
4 Air Inlet	t1.2	CR	1	Coating
5 Fan & Motor	-	-	1	Sirocco Fan
6 Base	t2.3	CR	1	Coating
7 Heat & Cooling Coil	OD 3/8" × t0.35	CU-AL	1	Hot and Cold Coil
8 Drain Panel	t1.2	CR	1	Coating
9 Screw Bolt	-	SUS	2	-
10 Name Plate	-	-	1	-
11 Control Block	20A 8P	-	1	-

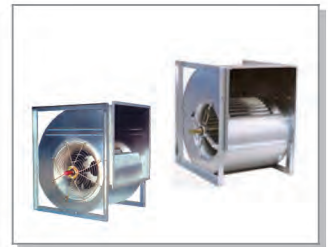


MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Ⓐ
1 20S	1800	800	500	790	490	390	1050	260	334	730	125	90	264	-	-	20
2 30S	1950	800	500	790	490	420	1100	330	334	730	125	90	264	600	390	25
3 50S	1950	1000	500	990	490	420	1100	330	334	875	125	90	303	800	390	32
4 75S	1950	1200	500	1190	490	460	1140	430	314	915	157	120	306	1000	390	40
5 100S	1950	1400	500	1390	490	370	1050	430	314	963	157	120	326	1200	390	40
6 150S	2150	1600	750	1590	740	450	1100	450	317	1073	252	222	566	1400	640	50
7 200S	2200	1700	750	1690	740	410	1140	450	317	1073	252	222	566	1500	640	50





Absorption Chiller



History of Samjung Tech' Absorption Chiller

- Aug. 1974 Established Samsung Heavy Industries Co., Ltd.
- Oct. 1991 Enter into a technical partnership with HITACHI in Japan
- Jun. 1992 Sold Absorption chiller & heater #1
- Dec. 1999 Established Samjung tech Co., Ltd.
- Jul. 2000 Acquired ISO 9001 certification
- Apr. 2004 Exported Absorption chiller & heater to Iran
- Dec. 2004 Sold 1500RT LTD Absorption chiller for Korea's plant first
- Jan. 2007 Acquired high efficiency chiller certification from Government
- Jan. 2007 Acquired national project for Hybrid chiller development using solar from Government
- Sep. 2008 Exported Absorption chiller & heater to Pakistan
- Oct. 2008 Acquired ISO 14001 certification
- Sep. 2009 Registered as a New & renewable energy specialized company(MKE)
- Dec. 2012 Acquired NET[New Excellent Technology] certification from Government thanks to Hybrid chiller

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