



Hangzhou Shenshi Heat
Exchanger Co.,Ltd

Heat exchanger expert



Hangzhou Shenshi Heat
Exchanger Co.,Ltd

Share Low Carbon & Enjoy
Environmental Life



Hangzhou Shenshi Heat Exchanger Co., Ltd

Tel: +86-571-64510919 Fax: +86-571-64515888
Http://www.coaxial-coils.com

The Introduction of company

Hangzhou shenshi heat exchanger Co.,Ltd, established in 2005 in Hangzhou, is leading professional patented manufacturer of coaxial heat exchanger in China incorporating R&D, manufacturing and sales departments.

Since its inception, Shenshi has been dedicate to research and development of energy-saving, environmental-friendly and high-efficiency heat exchanger products. All products Shenshi provided features our core heat transfer technology with independent intellectual property rights. Shenshi coaxial heat exchanger tubes are available in copper, cupronickel, stainless steel, titanium and so on, widely applied on water chiller , air source/water source heat pump, geothermal heat pump, marine heat pump, pool or spa heat pump ,laser chiller ,oil cooler and other air-conditioner and refrigeration machines such as medical process equipment ,food processing machine ,chemical processing equipment.

Thanks to strong support from kind customers and social communities after establishment, the company has been identified as national new high-tech enterprises, high-tech R & D center of Hangzhou, industrial informationization application demonstrative enterprise of Jiande City in recent years.

Relying on the spirit of continuous innovation, strict quality management, advanced Production equipment and professional organization management system, Shenshi people are full of enthusiasm to face challenges and selection form market and strive to provide our customers excellent high-quality products. We also sincerely hope that more and more customers use our products in the near future and benefit from it.

Our slogan: **We will be the best!**



杭州沈氏换热器有限公司
HangZhou Shenshi Heat Exchanger Co., Ltd



Products



Process Flow



Ultrasound cleaning



Auto bending equipment



Customized parts



Welding



Helium test detector



Grinding and polishing



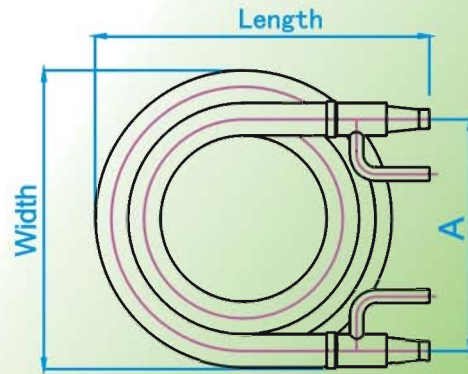
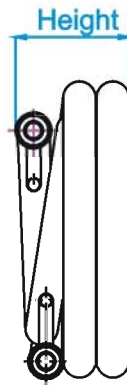
Pressure-keeping



Transportation

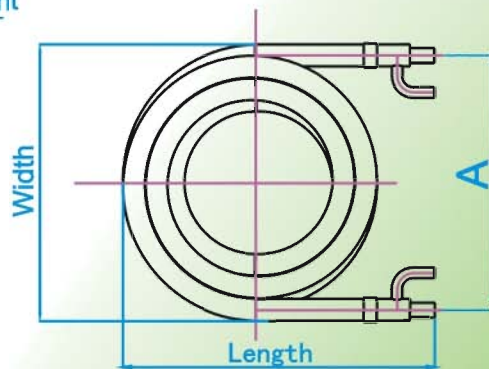
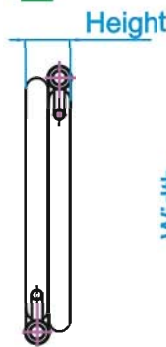
External Dimensions

Double wound helix



Model	Refrigerant connection	Water connection	Length	Height	Width	A
SS-0250GT-P	12.70	19.05	316	130	264	204
SS-0300GT-P	15.88	22.23	352	129	313	247
SS-0400GT-P	15.88	22.23	413	125	359	287
SS-0600GT-P	19.05	28.60	451	184	387	305
SS-0650GT-P	19.05	28.60	457	187	445	356

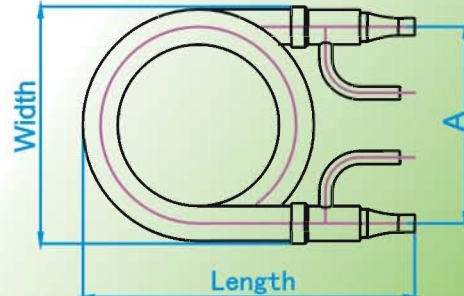
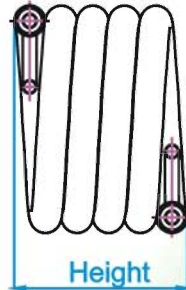
Spiral



Model	Refrigerant connection	Water connection	Length	Height	Width	A
SS-0100GT-W	9.52	12.70	295	54	238	212
SS-0150GT-W	9.52	15.88	352	60	289	260
SS-0300GT-W	15.88	22.20	397	73	344	305
SS-0350GT-W	15.88	22.20	438	73	389	352
SS-0400GT-W	15.88	22.20	460	81	394	352
SS-0500GT-W	19.05	28.60	498	94	433	387
SS-0600GT-W	19.05	28.60	518	94	468	420
SS-0650GT-W	22.20	28.60	568	92	509	464

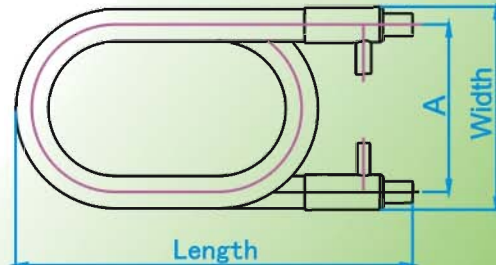
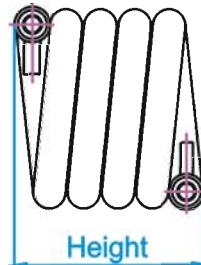
External Dimensions

Round



Model	Refrigerant connection	Water connection	Length	Height	Width	A
SS-0050GT	9.52	12.70	252	98	168	143
SS-0075GT	9.52	12.70	252	121	168	143
SS-0100GT	9.52	12.70	252	144	168	143
SS-0150GT	9.52	15.88	252	133	259	230

Trombone



Model	Refrigerant connection	Water connection	Length	Height	Width	A
SS-0150GT-U	9.52	15.88	502	87	162	133
SS-0300GT-U	16.00	22.20	635	102	218	185
SS-0400GT-U	16.00	22.20	727	117	264	226
SS-0500GT-U	19.05	28.60	586	184	290	245
SS-0600GT-U	19.05	28.60	687	184	290	245

Dual/multi-circuits

- dual circuits and multi-circuits is available for your bigger heat transferring requirement . Flexible designings and customized manufacturing can meet your various requirements.



Coaxial heat exchanger for air source heat pump heater ● ● ● ●

Air source heat pump heater is one electrically driven heating system which provides hot water or household heating using outside air as a heat source. Coaxial heat exchanger is used in water side to heat water.

Features:

1、High efficiency

The patented convoluted inner tube increases heat transfer area and strongly enhances heat transfer between water and refrigerant.

2、Anti-freezing capability

Multi-spiral structure of inner tube imparts outstanding anti-freezing capability to coaxial heat exchanger.

3、Cleanness

Multi-spiral structure of inner tube allows water flow in high-speed turbulent state which will remove foul automatically to remain channel a high cleanness in long-term running.

4、Convenient installation

Heat exchanger features simple overall structure where compressor and other components can be placed within.

5、Running stable

Overall structure facilitates collection of condensed liquid refrigerant. Drain valve and release valve can place in water connection to make sure running safety reliability.

Direct heating type — Performance:

Compressor	Model	Condenser Capacity kW	Water flow rate m ³ /h	Water pressure drop kPa
3HP	SS-0270GT	12	2.1	35
4HP	SS-0300GT	16	2.8	40
5HP	SS-0325GT	20	3.5	60
8HP	SS-0300GT-S	31	5.6	45
10HP	SS-0325GT-S	39	7	65



Notes:

- 1) Direct heating type working conditions : inlet/outlet water temperature 15°C/55°C, Condensing temperature 60°C.
- 2) Refrigerant: R22、R410A、R407C、R134a、R404A、R417A.
- 3) Dimensional configuration are available in Helix, Trombone ,Rectangle etc.
- 4) Designing pressure:

	R410A	R22
Refrigerant side	4.2MPa	3.5MPa
Water side	1.5MPa	1.5MPa

Cycle heating type—Performance:

Style	Model	Condenser Capacity kW	Water flow rate m ³ /h	Water pressure drop kPa
	SS-0050GT	2.1	0.4	10
	SS-0075GT	3.2	0.6	15
	SS-0100GT	4.3	0.8	18
	SS-0150GT	6.2	1.1	25
	SS-0150GT-U	6.2	1.1	22
	SS-0200GT-U	9	1.5	25
	SS-0250GT-U	12	2.1	35
	SS-0300GT-U	15	2.6	35
	SS-0360GT-U	18	3.1	55
	SS-0420GT-U	22	3.8	65
	SS-0400GT-U	18	3.1	30
	SS-0500GT-U	20.2	3.5	35
	SS-0525GT-U	24	4.2	40
	SS-0600GT-U	28.3	4.9	45
	SS-0250GT-P	9	1.5	22.5
	SS-0300GT-P	10.8	1.9	27.5
	SS-0400GT-P	13.2	2.3	20.5
	SS-0500GT-P	18	3.1	24
	SS-0600GT-P	21.7	3.7	22.5
	SS-0650GT-P	25.8	4.4	42.5
	SS-0130GT-W	4.8	0.8	25
	SS-0160GT-W	7.6	1.3	30
	SS-0240GT-W	8.8	1.5	54
	SS-0360GT-W	10.6	1.8	44
	SS-0430GT-W	12.3	2.1	37
	SS-0480GT-W	14.7	2.5	38
	SS-0520GT-W	16.5	2.8	21
	SS-0650GT-W	21.2	3.6	32



Notes:

- 1) Cycle heating type working conditions: R22 inlet/outlet water temperature 15°C/55°C, Variable condensing temperature.
- 2) Refrigerant: R22、R410A、R407C、R134a、R404A、R417A,
- 3) Working pressure:

	R410A	R22
Refrigerant side	4.2MPa	3.5MPa
Water side	1.5MPa	1.5MPa

- 4) Dimension and shape are subject to customers' requirement.

Coaxial heat exchanger for water source heat pump ● ● ● ● ● ●

Water source heat pump system is one of the most efficient, environmentally friendly heating and/or cooling system using earth ()as a heating source or a heat sink. As one key component in load side, coaxial heat exchanger features a number of advantages comparing with other types heat exchanger.

Features:

1、High efficiency

The patented convoluted inner tube increases heat transfer area and strongly enhances heat transfer between water and refrigerant.

2、Anti-freezing capability

Multi-spiral structure of inner tube imparts outstanding anti-freezing capability to coaxial heat exchanger.

3、Cleanness

Multi-spiral structure of inner tube allows water flow in high-speed turbulent state which will remove foul automatically to remain channel a high cleanness in long-term running.

4、Convenient installation

Heat exchanger features simple overall structure where compressor and other components can be placed within.

5、Running stable

Overall structure facilitates collection of condensed liquid refrigerant. Drain valve and release valve can place in water connection to make sure running safety reliability.



Performance:

Unit: kW

Style	Model	water-water load side		water-air / water-water		heat source side		Water flow rate m ³ /h	Water pressure drop kPa
		12/7	40/45	Water loop		Ground water			
				30/35	20/	18/29	15/		
	SS-0050GT	1.1	2	2	1.8	2.1	1.4	0.4	10
	SS-0075GT	1.6	3	3	2.6	3.2	2.1	0.6	15
	SS-0100GT	2.2	4	4	3.5	4.2	2.8	0.8	18
	SS-0150GT	3.3	6.1	6.1	5.3	6.4	4.2	1.1	25
	SS-0150GT-U	3.3	6.1	6.1	5.3	6.4	4.2	1.1	22
	SS-0200GT-U	4.3	9	9	7.4	10	5.6	1.5	25
	SS-0250GT-U	5.4	12	12	8.5	13.7	7	2.1	35
	SS-0300GT-U	6.5	15	15	10.5	16.5	8.4	2.8	40
	SS-0360GT-U	7.6	18	18	12.3	20.5	9.8	3.5	60
	SS-0420GT-U	9.8	22	22	15.9	23.1	12.7	4.2	65
	SS-0400GT-U	8.7	16.2	18	14.1	17	11.3	2.8	30
	SS-0500GT-U	10.9	20.2	20.2	17.6	21.2	14.1	3.5	35
	SS-0525GT-U	12	22.2	22.2	19.4	23.4	15.5	3.8	38
	SS-0600GT-U	13.1	24.3	24.3	21.1	25.5	16.9	4.9	45
	SS-0250GT-P	5.5	10.1	10.1	8.8	10.6	7	1.5	22.5
	SS-0300GT-P	6.5	12.1	12.1	10.5	12.7	8.4	1.9	27.5
	SS-0400GT-P	8.7	16.2	16.2	14.1	17	11.3	2.3	20.5
	SS-0500GT-P	10.9	20.3	20.3	17.6	21.3	14	3.1	24
	SS-0600GT-P	13.1	24.3	24.3	21.1	25.5	16.9	3.7	22.5
	SS-0650GT-P	14.2	26.3	26.3	22.9	27.6	18.3	4.4	42.5
	SS-0130GT-W	3.1	4.8	4.8	4.4	5.1	3.8	0.8	25
	SS-0160GT-W	4.2	7.6	7.6	7	8.4	5.4	1.3	30
	SS-0240GT-W	4.7	8.8	8.8	7.9	9.8	6.2	1.5	54
	SS-0360GT-W	6	10.6	10.6	9.4	12	7.6	1.8	44
	SS-0430GT-W	7.2	12.3	12.3	11	13.8	8.8	2.1	37
	SS-0480GT-W	8.6	14.7	14.7	13.1	16	9.9	2.5	38
	SS-0520GT-W	10.2	16.5	16.5	14.3	17.5	11	2.8	21
	SS-0650GT-W	11.4	21.2	21.2	18.2	23.4	12.1	3.6	32

Notes:

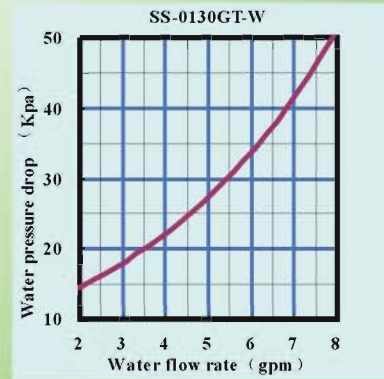
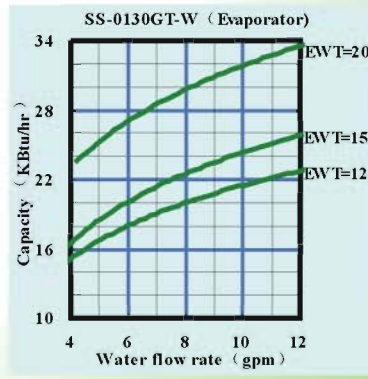
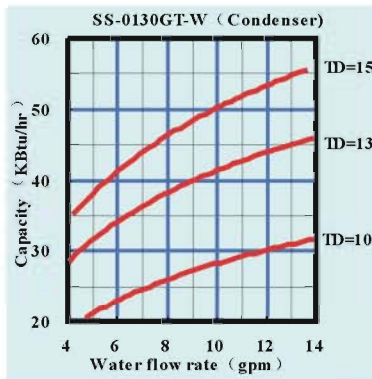
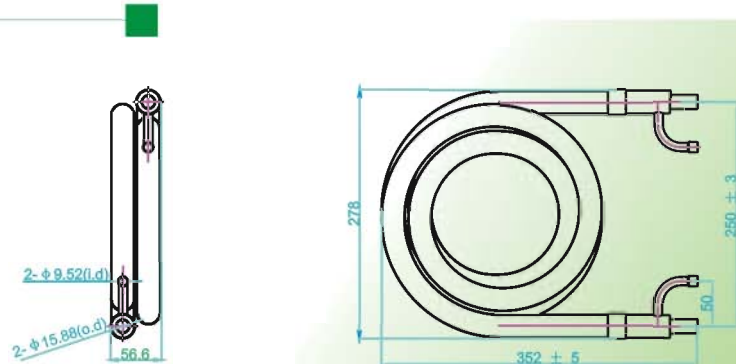
- 1) Applicable both in load side and source side for water-water heat pump unit.
- 2) Applicable in source side for water-air heat pump unit.
- 3) Refrigerant: R22、R410A、R407C、R134a、R404A、R417A.
- 4) Working pressure:

	R410A	R22
Refrigerant side	4.2MPa	3.5MPa
Water side	1.5MPa	1.5MPa

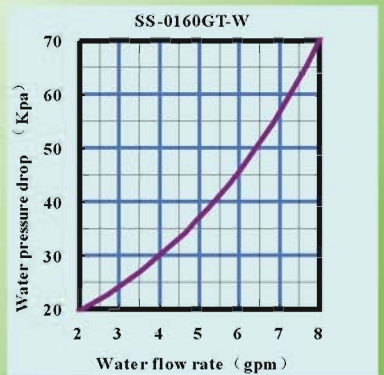
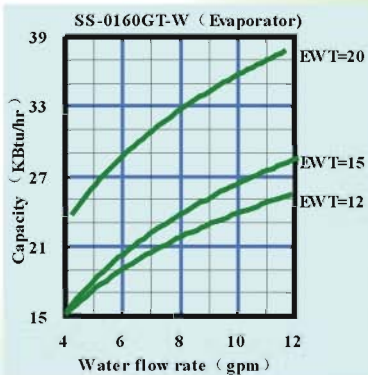
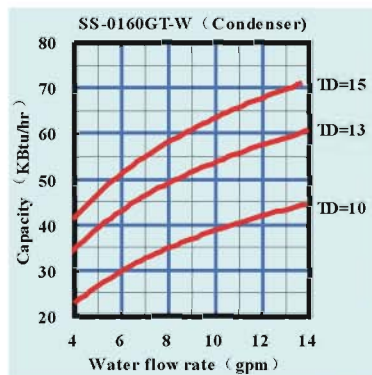
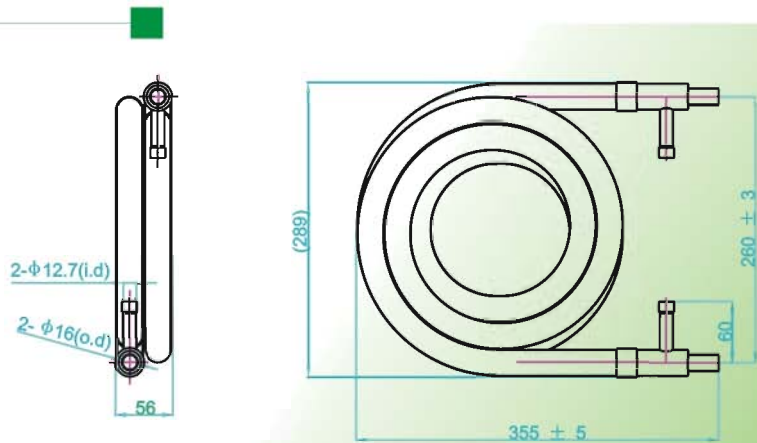
- 5) Due to a continuous program of product improvement, specification and dimensions are subject to change without notice.

Selection Procedure:

SS-0130GT-W

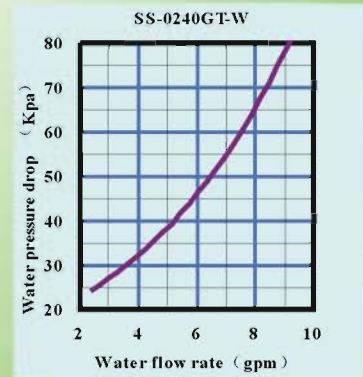
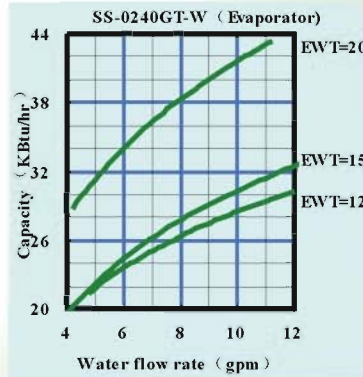
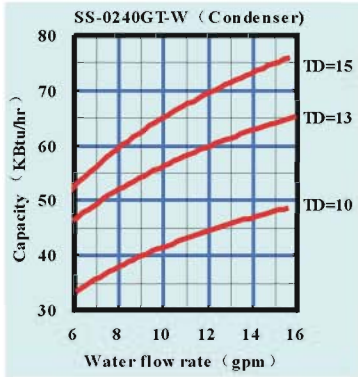
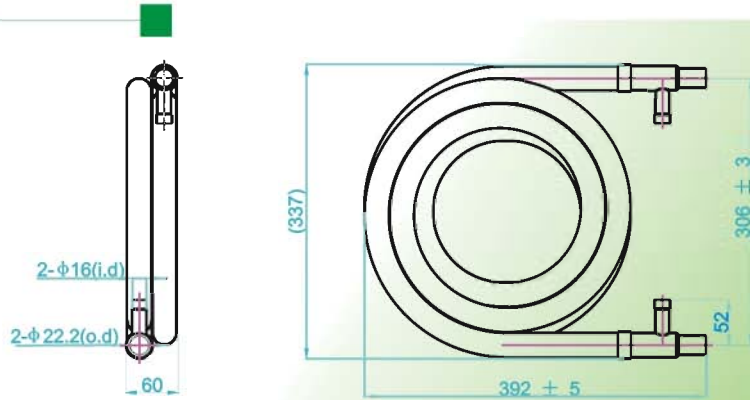


SS-0160GT-W

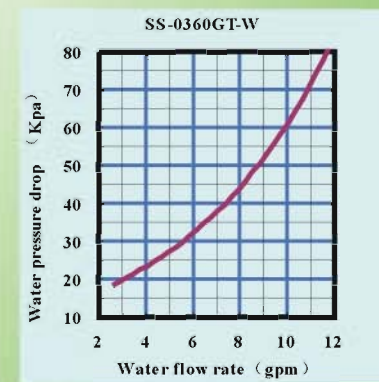
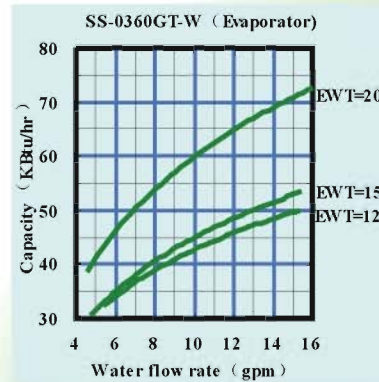
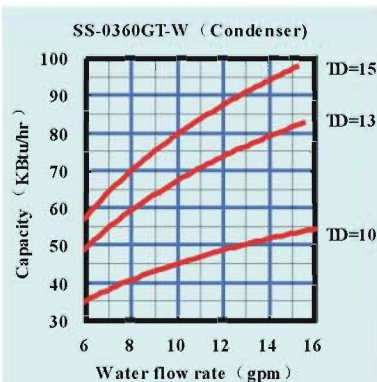
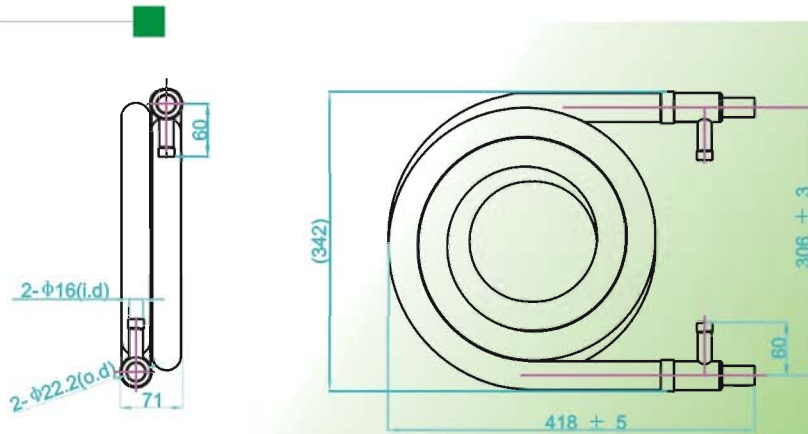


Selection Procedure:

SS-0240GT-W

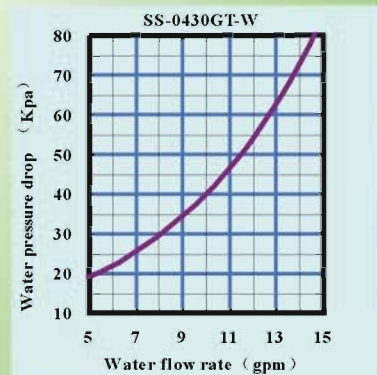
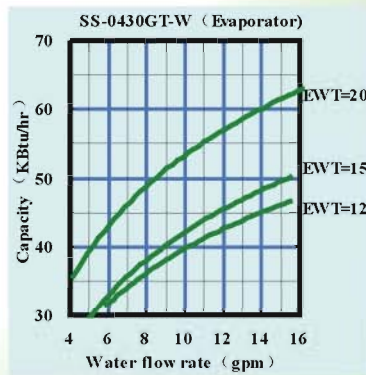
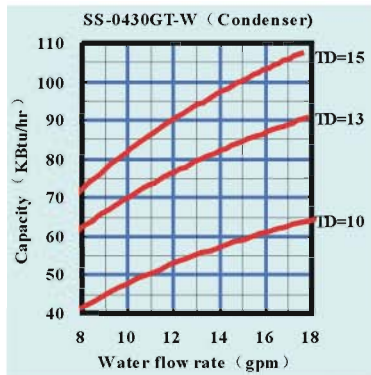
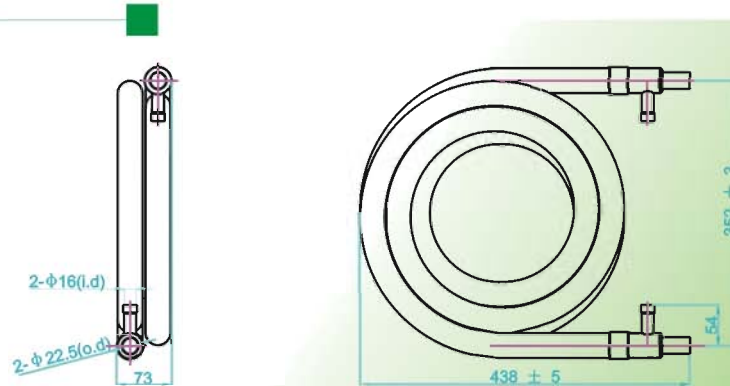


SS-0360GT-W

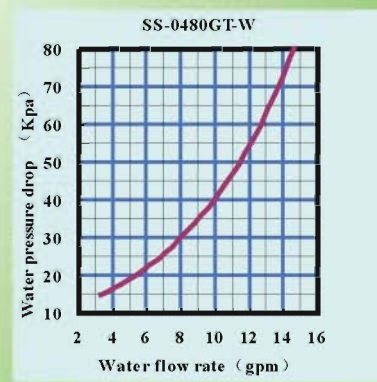
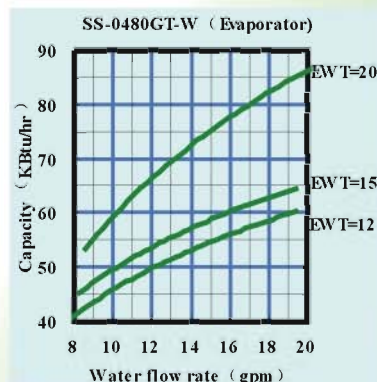
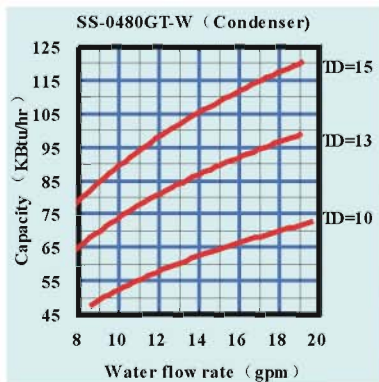
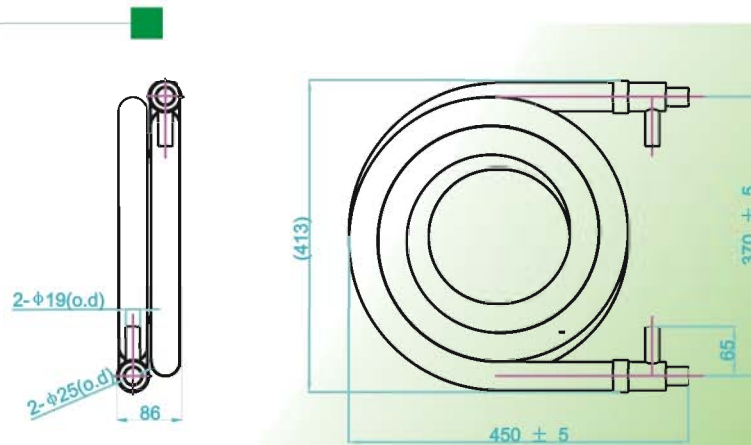


Selection Procedure:

SS-0430GT-W

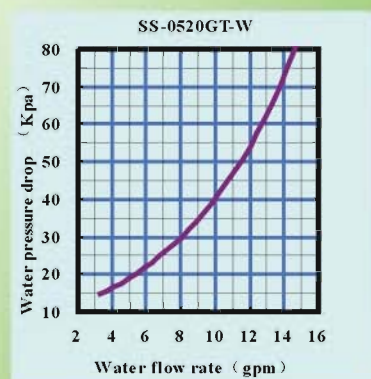
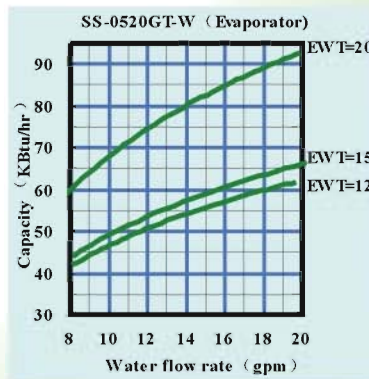
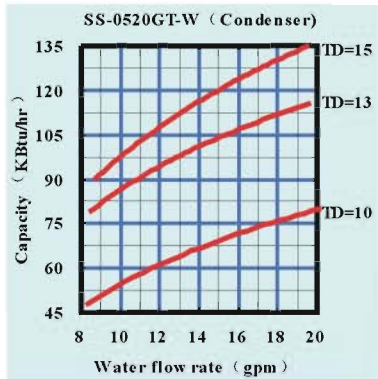
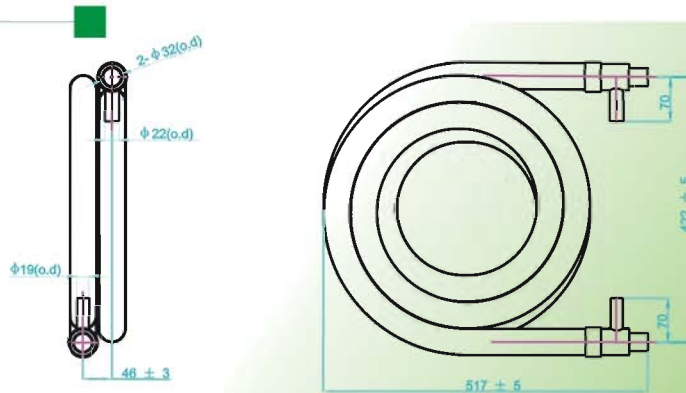


SS-0480GT-W

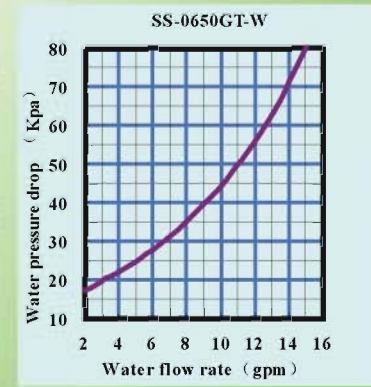
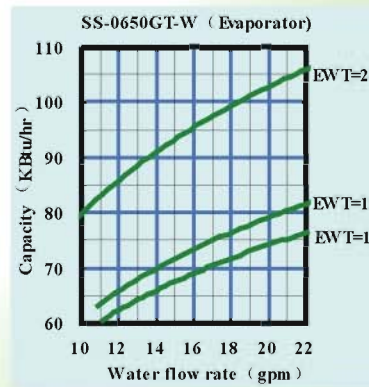
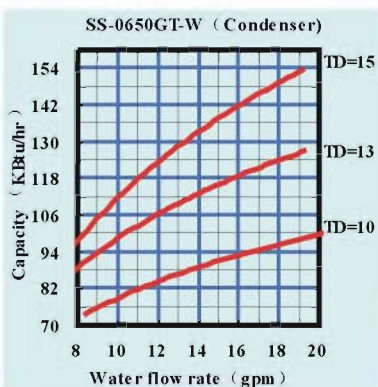
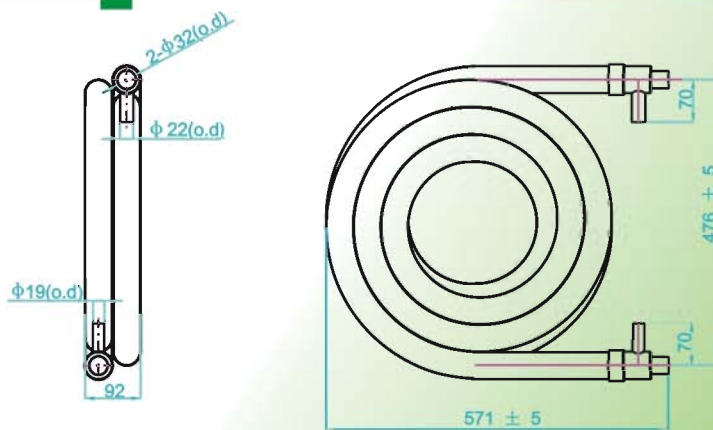


Selection Procedure:

SS-0520GT-W



SS-0650GT-W



Doublewall coaxial heat exchanger ● ● ● ● ● ●

Features:

1、Widespread application

Doublewall inner tube can widely used in domestic hot water heater ,food industry ,chemistry and other professional fields.

2、Safety

Unique double twisted inner tube effectively avoids contact between water and refrigerant when there is a leak happens.

3、Anti-freezing capability

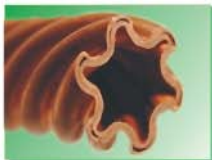
Multi-spiral structure of inner tube imparts outstanding anti-freezing capability to coaxial heat exchanger.

4、Cleanness

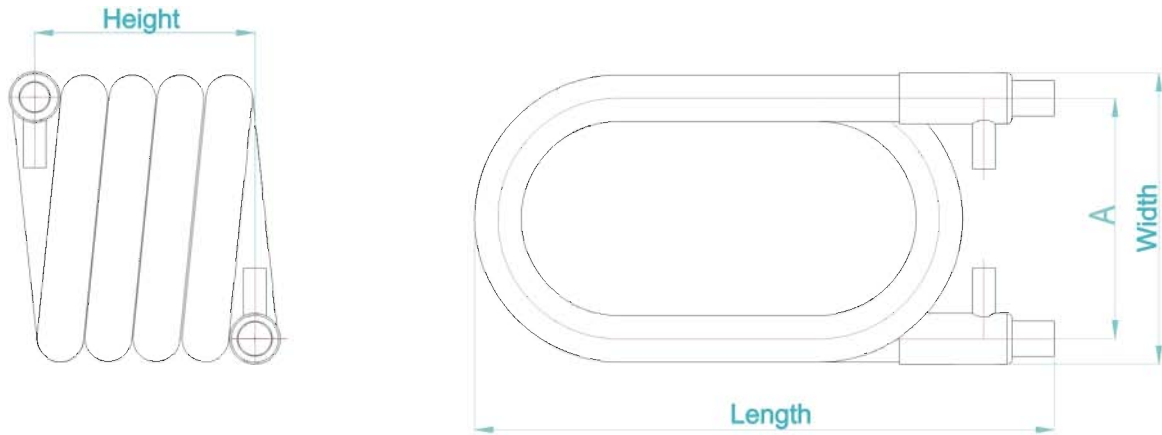
Multi-spiral structure of inner tube allows water flow in high-speed turbulent state which will remove foul automatically to remain channel a high cleanness in long-term running.

5、Convenient installation

Heat exchanger features simple overall structure available in Helix, Trombone and Rectangle according to customers' requirement.



Dimensions:



Unit: mm

Model	Refrigerant Connection In/Out	Water Connection In/Out	Length	Height	Width	A
SS-0085GTT-U	9.52/12.7	19	499	111	221	185
SS-0130GTT-U	12.7/19	19	587	134	221	185
SS-0300GTT-F-S	9.52/12.7	28	688	233	288	250

Performance:

Compressor	Model	Capacity kW	Water flow rate m ³ /h	Water pressure drop kPa
1HP	SS-0085GTT-U	3	1.2	10
1.5HP	SS-0130GTT-U	4	1.2	15
2HP	SS-0300GTT-F-S	7.2	1.2	18

Notes:

- 1) Heat pump heat working conditons: inlet/outlet water temperature 15°C/55°C , water flow rate 1.2 m³/h, variable condensing temperature.
- 2) Refrigerant: R22、R410A、R407C、R404A、R417A.
- 3) All performance data are based on refrigerant R22.
- 4) Working pressure:

	R410A	R22
Refrigerant side	4.2MPa	3.5MPa
Water side	1.5MPa	1.5MPa

- 5) Due to a continuous program of product improvement, Specification and dimensions are subject to change without notice.

Titanium coaxial heat exchanger ● ● ● ● ● ●

Features:

1、Corrosion resistance

Applicable to bad-quality water conditions such as swimming pool, aquarium, sea bathing due to excellent corrosion resistance of inner tube industrial pure titanium.

2、High efficiency

The patented convoluted inner tube increases heat transfer area and strongly enhances heat transfer between water and refrigerant.

3、Anti-freezing capability

Multi-spiral structure of inner tube imparts outstanding anti-freezing capability to coaxial heat exchanger.

4、Cleanness

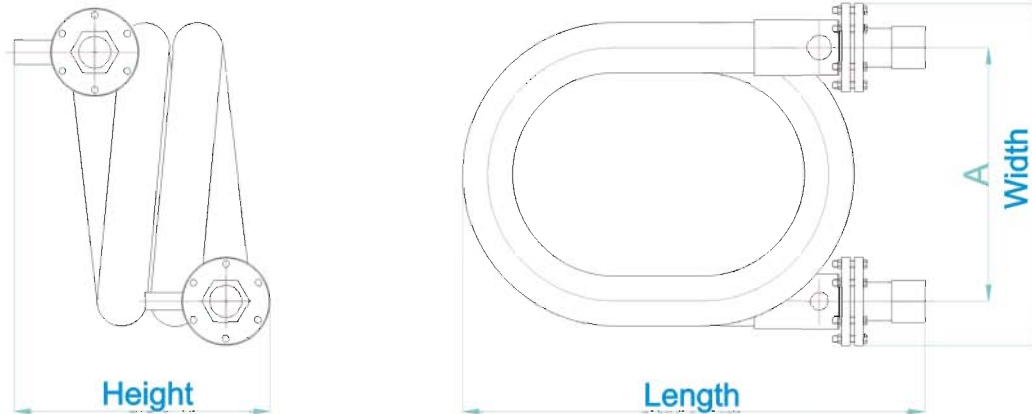
Multi-spiral structure of inner tube allows water flow in high-speed turbulent state which will remove foul automatically to remain channel a high cleanness in long-term running.

5、Convenient installation

Water connection use titanium flange and titanium thread to connect making it easy and convenient to install and uninstall.



Dimensions:



Unit: mm

Model	Refrigerant Connection	Water Connection	Length	Height	Width	A
SS-0200GTi-U	16/19	G1"	420	232	310	230
SS-0250GTi-U	16/19	G1"	537	232	310	230
SS-0300GTi-U	16/19	G1"	420	278	310	230
SS-0350GTi-U	16/19	G1"	420	324	310	230
SS-0400GTi-U	19/22	G1"	473	344	310	230
SS-0500GTi-U	19/22	G1"	550	330	310	230

Performance:

Model	Water flow rate T/h	Water pressure drop kPa	Capacity kW
SS-0200GTi-U	3.8	20.5	11
SS-0250GTi-U	5.2	37.4	15
SS-0300GTi-U	6.4	68	18.5
SS-0350GTi-U	8.1	93	23.5
SS-0400GTi-U	9.4	120	26.5
SS-0500GTi-U	10.3	130	30

Notes:

- Above performance data are based on the given working conditions: Entering water temperature 26.7°C; Leaving water temperature 29.2°C; Condensing temperature 40°C and R410A refrigerant
- Titanium coaxial heat exchanger dimensional configurations are available in Helix, Trombone and Rectangle.
- Refrigerant: R22, R410A, R407C, R134a, R404A, R417A.
- Working pressure:

	R410A	R22
Refrigerant side	4.2MPa	3.5MPa
Water side	1.5MPa	1.5MPa

- Due to a continuous program of product improvement, specification and dimensions are subject to change without notice.

Advanced Rec-shell and tube heat exchanger ● ● ● ● ● ●

Features

Compact: Highly structured with thin metal heat transfer tube for high heat transfer coefficient;

Stability: Working safely and reliable with high-quality metal heat transfer tube withstanding high temperatures and high pressure;

Light weight: High-strength plastic shell, low cost for transportation and installation;

Detachability: Modular design facilitates installation and cleaning regularly;

Applicability: Heat transfer tube can be copper, stainless steel and cupronickel etc.

Application

HVAC&R Condenser, Evaporator, Oil chiller, Superheater etc;

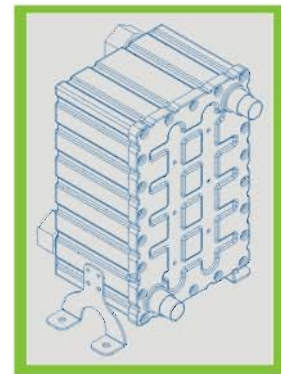
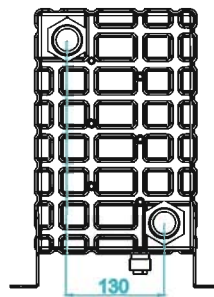
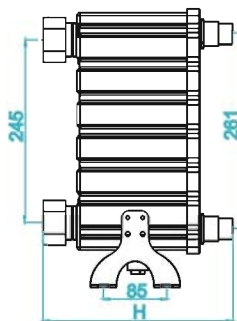
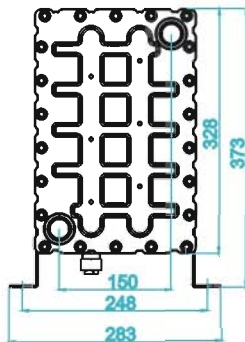
Chemistry Industry Heating and cooling process, Condensation or Evaporation;

Electricity Industry Oil chilling for transformer, Turbine oil cooling;

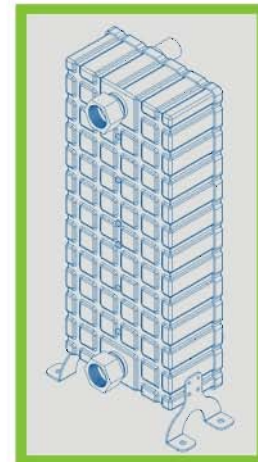
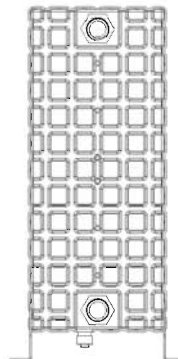
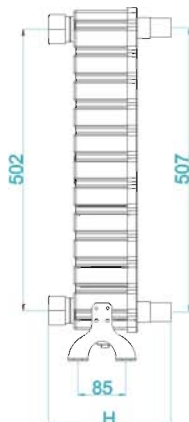
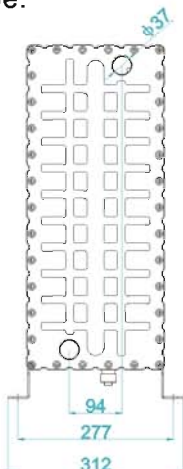
Metallurgy Industry Lubrication oil cooling, circulation water cooling.

Dimensions:

A type:



B type:



Performance:

Air-cooled Module	Model	Type	H (mm)	Rated cooling capacity(kW)	Rated Water flowrate(m ³ /h)	Water pressure drop(kPa)	Working conditions
	SS-F060-T	A	170	6	1.04	18	Cooling: inlet/outlet 12°C/7°C, Evaporating temp 2°C Heating: inlet/outlet 40°C/45°C, Condensing temp 50°C.
	SS-F090-T		182	9	1.55	20	
	SS-F150-T		230	15	2.58	26	
	SS-F180-T		254	18	3.1	27	
	SS-F240-T	B	218	24	4.13	20	
	SS-F300-T		266	30	5.16	25	
	SS-F360-T		314	36	6.19	30	

Heat pump heater	Model	Type	H (mm)	Rated cooling capacity(kW)	Rated Water flowrate(m ³ /h)	Water pressure drop(kPa)	Working conditions
	SS-R080-T	A	170	8	1.38	18	Heating: inlet/outlet 15°C/55°C, Variable condensing temp.
	SS-R120-T		182	12	2.06	30	
	SS-R200-T		230	20	3.54	40	
	SS-R240-T		254	24	4.14	52	
	SS-R320-T	B	218	32	5.5	35	
	SS-R400-T		266	40	6.88	40	
	SS-R480-T		314	48	8.25	45	

Water-cooled water source heat pump for cool air	Model	Type	H (mm)	Heat source side(kW)		Rated Water flowrate m ³ /h	Water pressure drop kPa	Working conditions (Heat source side)	
				Cooling	Heating			Water loop	Underground Water
	SS-S080-T	A	170	8	7	1.38	18	Cooling: 30/35°C, 40°C, Heating: 20°C/, 8°C	Cooling: 18/29°C, 33°C, Heating: 15°C/, 2.5°C
	SS-S120-T		182	12	10.5	2.06	30		
	SS-S200-T		230	20	18	3.54	40		
	SS-S240-T		254	24	22	4.14	52		
	SS-S320-T	B	218	32	24	5.5	35		
	SS-S400-T		266	40	30	6.88	40		
SS-S480-T	314		48	36	8.25	45			

Water-cooled water source heat pump for cool water	Model	Type	H (mm)	Heat source side(kW)		Rated Water flowrate m ³ /h	Water pressure drop kPa	Working conditions (load side)
				Heating				
	SS-S060-T	A	170	6	8	1.38	18	Cooling: 12/7°C, 2°C, Heating: 40/45°C, 50°C
	SS-S090-T		182	9	12	2.06	30	
	SS-S150-T		230	15	20	3.54	40	
	SS-S180-T		254	18	24	4.14	52	
	SS-S240-T	B	218	24	32	5.5	35	
	SS-S300-T		266	30	40	6.88	40	
SS-S360-T	314		36	48	8.25	45		

Note:

- 1) Refrigerant: R22, R410A, R407C, R134a, R404A, R417A.
- 2) All above performance data are based on R22.
- 3) Working pressure:

	R410A	R22
Refrigerant side	4.2MPa	3.5MPa
Water side	1.5MPa	1.5MPa

Advanced Rec-shell and tube heat exchanger ● ● ● ● ● ●

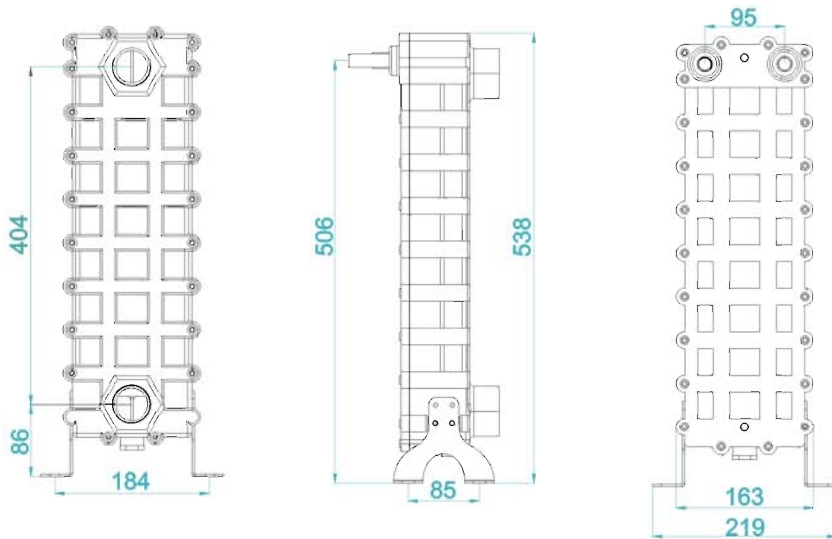
Features

- Compact:** Highly structured with thin metal heat transfer tube for high heat transfer coefficient;
- Stability:** Working safely and reliable with high-quality metal heat transfer tube withstanding high temperatures and high pressure;
- Light weight:** High-strength plastic shell, low cost for transportation and installation;
- Detachability:** Modular design facilitates installation and cleaning regularly;
- Applicability:** Heat transfer tube can be titanium, erosion resistance

Application

- | | |
|----------------------------|---|
| Swimming pool | swimming pool、spa |
| Aquaculture | aquarium、sea-farming |
| Mechanical industry | marine cooling、engine temperature controlling |

Dimensions:



Performance:

Model	Water flow rate (kW)	Water pressure drop (m ³ /h)	Capacity (kPa)
SS-Y150-Ti	15	5.16	10
SS-Y250-Ti	25	8.6	20
SS-Y300-Ti	30	10.32	30

Notes:

- Working conditions
inlet/outlet water temperature 26.7 °C/29.2°C , condensing temperature 40°C ; All performance data are based on refrigerant R410A.
- Refrigerant: R22、R410A、R407C、R134a、R404A、R417A.
- Working pressure:

	R410A	R22
Refrigerant side	4.2MPa	3.5MPa
Water side	1.5MPa	1.5MPa

- Due to a continuous program of product improvement, specification and dimensions are subject to change without notice.

Refrigerant heat exchanger ● ● ● ● ● ●

Leading role in refrigerant system:

- 1、 To subcool the liquid to prevent flash gas in the liquid line improving expansion valve operation .
- 2、 To evaporate any refrigerant droplets in the vapor channel to prevent possible compressor damage
- 3、 To increase evaporator capacity and overall refrigeration system by subcooling the hot liquid refrigerant.

Straight line type Features:

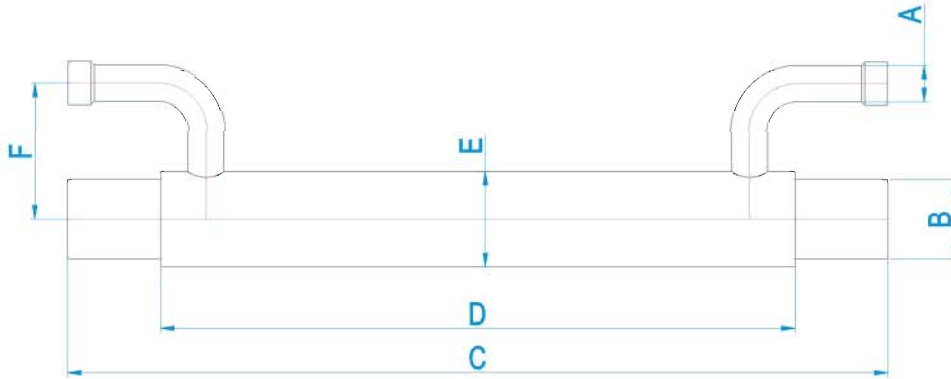
- 1) Multi-spiral structure of inner tube imparts turbulent state to both liquid and vapor refrigerant which greatly enhance heat transfer between two fluids.
- 2) Fluted inner tube design controls pressure drop and gas velocity for quiet operation.
- 3) Inner tube made of a whole straight copper tube gives a well welding reliability to heat Exchanger.
- 4) Available in all-copper and steel-copper construction..

Trombone type Features:

- 1) Long channel provides high subcooling to improve expansion valve operation
- 2) Variable inner tube construction both in twisted and smooth type.



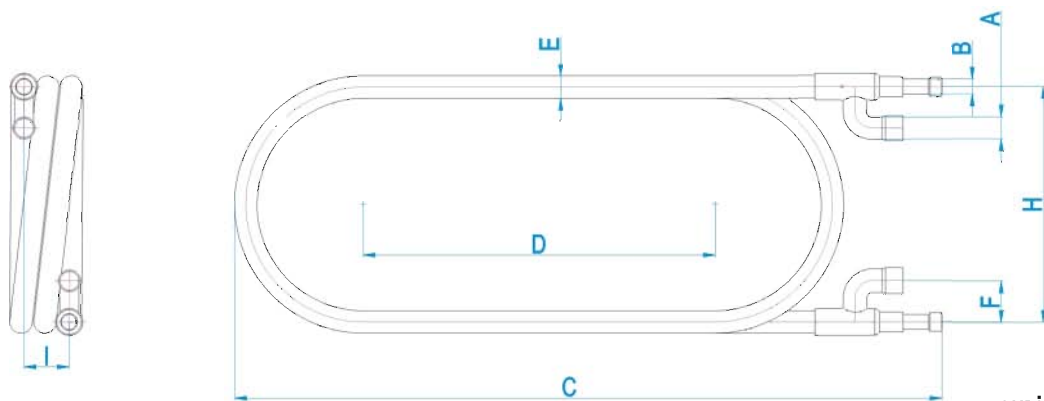
Straight line type Dimensions



unit: mm

HP	Model	A	B	C	D	E	F
1	SS-9010TT-Z	9.52	16	350	300	28	32
1-1/2	SS-9015TT-Z	9.52	22	350	300	35	36
2	SS-9020TT-Z	9.52	28	350	270	42	39
3	SS-9030TT-Z	9.52	28	350	270	42	39
5	SS-9050TT-Z	16	35	350	270	54	60

Trombone type Dimensions



unit: mm

HP	Model	A	B	C	D	E	F	H	I
12	SS-9120GT-U	19	12.7	602	300	19	35	200	38
24	SS-9240GT-U	19	12.7	612	325	22.2	35	190	44.5

Notes:

- 1) Working conditions: gas side inlet temperature 20°C , outlet temperature 25°C ; liquid side inlet temperature 45°C , outlet temperature 23°C .
- 2) Refrigerant: R22、R410A、R134A、R600A.
- 3) Working pressure: Liquid side 600psi, gas side 320psi.

CO₂ Coaxial heat exchanger—Gas cooler ● ● ● ● ● ●

As key component gas cooler in CO₂ heat pump heater, CO₂ coaxial heat exchanger features:

1、High efficiency

The patented convoluted inner tube increases heat transfer area and strongly enhances heat transfer between water and refrigerant.

2、Anti-freezing capability

Multi-spiral structure of inner tube imparts outstanding anti-freezing capability to coaxial heat exchanger.

3、Cleanness

Multi-spiral structure of inner tube allows water flow in high-speed turbulent state which will remove foul automatically to remain channel a high cleanness in long-term running.

4、Convenient installation

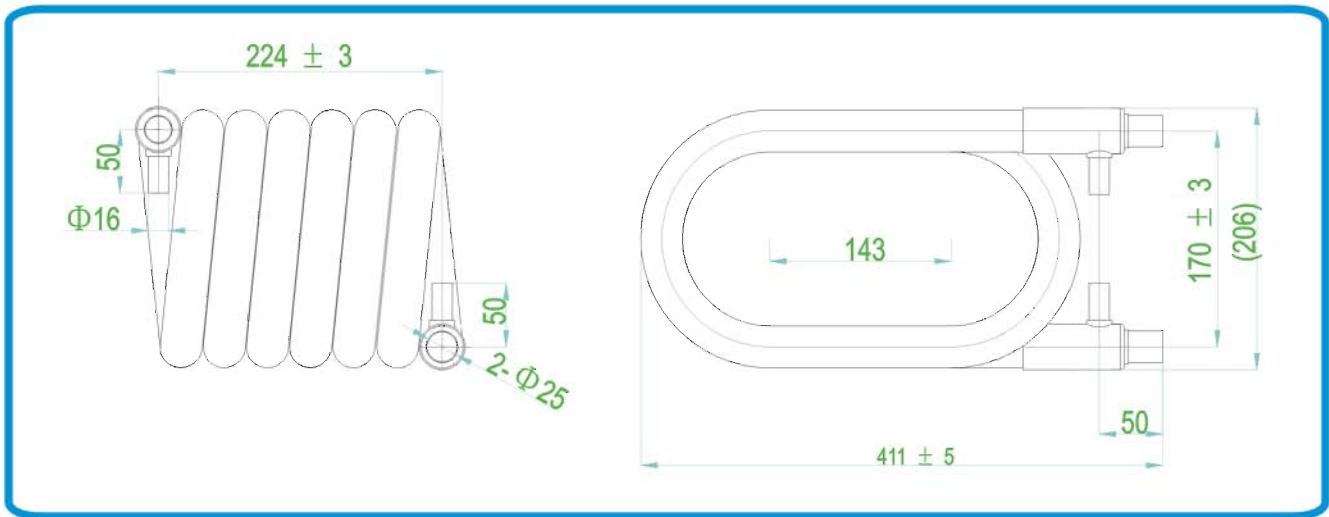
Heat exchanger features simple overall structure where facilitates installation with low cost.

5、Running stable

Shenshi CO₂ Heat exchanger refrigerant side can withstand 220bar high-pressure with no deformation using multi-spiral twisted small-diameter tube.



28kW Coaxial heat exchanger dimensions:



Performance:

CO ₂ WCC	Refrigerant Side					Water Side		
	WCC Capacity kW	Refrigerant Flow kg/s	Max Pressure Drop bars	Approach Temp. K	Refrigerant Unit Net Cooling Capacity kW	Water inlet temp °C	Water Flow Rate L/min	Ambient Temp. °C
REQUIREMENTS	28	0.095-0.185	3-6	1.4-7.8	15.7	30	22.7	38

CO₂ refrigerant properties based on test data:

Refrigerant inlet pressure is about 124 bar
 Refrigerant inlet temperature is about 134 °C

Safety requirements:

Burst pressure: 3*160 bar (refrigerant side)
 Burst pressure: 5*4.14 bar (water side)

Available space (dimensions) for the WCC

Length 432 mm (17in)
 Width 254 mm (10in)
 Height 155 mm (6in)

Notes:

- 1) CO₂ heat pump heater: inlet/outlet water temperature 15°C/90°C, inlet gas temperature 130°C.
- 2) Working pressure : Water side working pressure 1.5Mpa; refrigerant side 16Mpa. Refrigerant side withstands 22Mpa high pressure without deformation.
- 3) Due to a continuous program of product improvement, specification and dimensions are subject to change without notice.



Hangzhou Shenshi Heat Exchanger Co., Ltd

Tel: +86-571-64510919 Fax: +86-571-64515888
Http://www.coaxial-coils.com

Enterprise vista



View of factory



standardized workshop



University Building



Canteen



Dormitory building



Lobby



杭州沈氏换热器有限公司
Hangzhou Shenshi Heat Exchanger Co., Ltd



Hangzhou Shenshi Heat Exchanger Co., Ltd

Tel: +86-571-64510919 Fax: +86-571-64515888

Http://www.coaxial-coils.com

Business Enterprise Honor





 Hangzhou Shenshi Heat
HZSS Exchanger Co.,Ltd

ADD:DaDianKou Industrial Zone,Hangtoun town, Jiande City ,Zhejiang
province , P.R.CHINA Zip:311612

International sales :

TEL:+86-571-64510919

FAX:+86-571-64515888

Email:gjb@coaxial-coils.com

Website:<http://www.coaxial-coils.com>

<http://coaxial-coils.en.alibaba.com>

<http://www.hzsshrq.com>