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Gimleo

高效盘管-壳式换热器  
High Efficiency Tube in Shell Heat Exchanger

钛管换热器  
Titanium Heat Exchanger

**GIMLEO**  
Catalog General 产 品 目 录



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## 高效罐（高效盘管-壳式换热器） High Efficiency Tube in Shell Heat Exchanger

高效——采用高效换热盘管制成的管壳式换热器，具有换热效率高，体积小，使用安全性高等优点，广泛适用于以水为换热介质的热泵空调、工业冷水机和热泵热水器等机组。

High Efficiency Tube in Shell Heat Exchanger can be widely used in water-source air conditioner, industry chiller and heat pump.



### 产品特点 Features

#### 【换热效率高】

- 盘管采用高效翅片管，换热面积为光管的3.6倍。
- 铜管内外表面的翅片使制冷剂与冷却水高速紊流，有效提高换热效率。
- 盘管紧凑的螺旋结构保证制冷剂能充分换热。

【使用安全】 the compact helix structure of the coil ensures sufficient heat exchange between the gas and water

- 整体铜管没有内部焊点，确保系统长期稳定运行。
- 铜管成型后装入壳体，杜绝加工缺陷。
- 水侧流道没有水流盲区，水路流速均匀，换热器不易局部结冰、不易结垢。
- 水口位于换热器最低处，方便低温季节排水预防冻结。

#### 【体积小】

利于缩小整机外形尺寸,节省机体有限空间。

### High Efficiency of Heat Exchange

Using high efficiency rifle tube, heat exchange area is 3.6 times than the smooth type.

Fins inside & outside tube induce turbulence flow of freon and water, It's one cause of high efficiency.

the compact helix structure of the coil ensures sufficient heat exchange between the gas and water

### Safety

Whole tube inside shell has no internal joints, that means no welding bug.

The Copper is fully shaped and then installed into the shell thus free from curedamage.

There is not block on water loop and the water flow is smooth, thus keep it free from ice and dirty.

The drain is on the lowest point of the heat exchanger and easy for drainage in cold season.

### Small volume

Compact size is helpful to save the space for the heat pump and thus reduce the volume of the unit.

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## 高效罐（高效盘管-壳式换热器） High Efficiency Tube in Shell Heat Exchanger

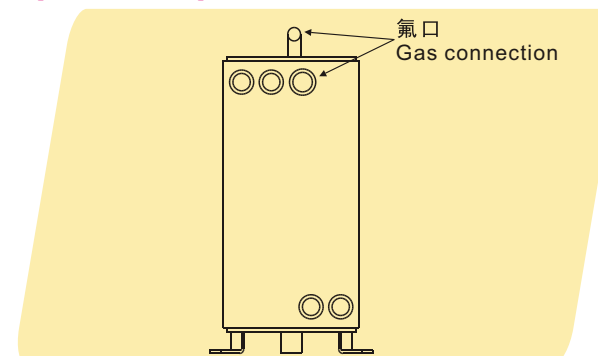
### 适用条件 Work Condition

	制冷剂侧(盘管外) Refrigerant side(outside of tube)	水侧(盘管内) Water side (in the tube)
最大工作压力 Max. pressure	5.2MPa	3.2Mpa
工作温度范围 Temp. range	-50~150°C	-30~90°C (必须高于冰点)
介质 Refrigerant type	R22、R134a、R407c、R410a等	水、海水、防冻液等 Nature water, sea water, antifreeze(glycol water)
注意事项 Remarks		注意水质清洁，建议加装过滤器，并定期清理。 对于海水、盐水等有腐蚀性介质，应采用防腐性较好的管材。 如铜管内水结冰，有可能会胀裂管壁，导致系统损毁，请务必做好防冻保护。  Keep the water clean, recommend to use filter and clean regularly. Corrosion proof material must be used for sea water or salty water. When there is ice on the tube, the heat exchanger will be damaged, so it is necessary to avoid freezing.

### 外形尺寸图 Dimension Data

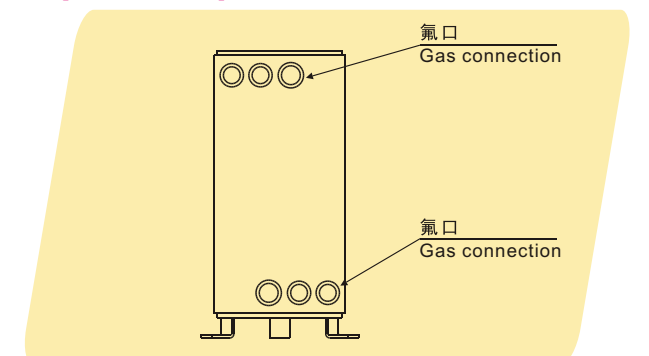
#### 【结构形式A】含储液罐

[Structure A] accumulator included



#### 【结构形式B】不含储液罐

[Structure B] accumulator excluded



自带储液罐可有效降低氟系统压力,提高换热效率。

**When there is accumulator included, the gas pressure of the heat pump can be reduced obviously, thus enhance the heat exchanger efficiency.**

### 主要材料 Material

- 【换热管】 1、执行标准：GB/T19447或等同采用ASTM B 359、ASME SB 359。  
2、材 质：紫铜T2/TP2，镍铜90/10，铁白铜BFe10-1-1、BFe30-1-1等。

【壳 体】 碳钢。

#### Heat exchanger Tube

1. Standard applied: GB/T19447, or equal with ASTM B359, ASME SB 359.
2. Material: Copper T2/TP2, and Nickel-Copper 90/10, copper Bfe 10-1-1, BFe30-1-1 for option.

#### Shell

High quality steel.

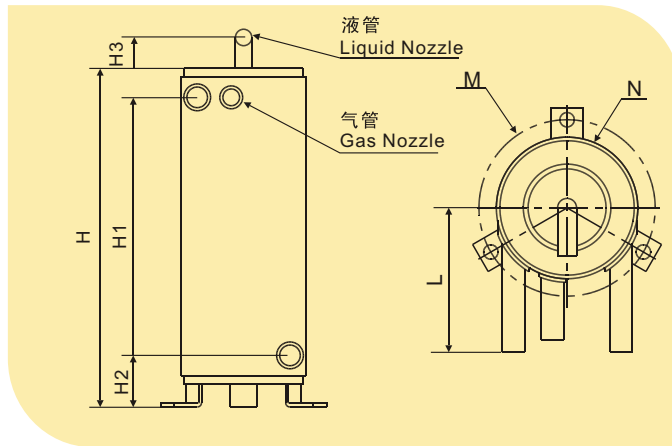
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# 高效罐 ( 高效盘管-壳式换热器 ) High Efficiency Tube in Shell Heat Exchanger

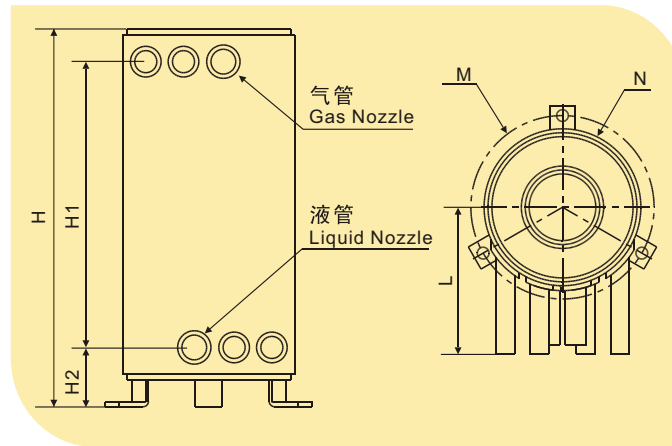
# 钛管换热器 Titanium Heat Exchanger

## 外形尺寸图 Dimension

A系列-含储液罐  
A type-accumulator included



B系列-不含储液罐  
B Type-accumulator excluded



## 参数表 Specification

### 单管系列 Single coil

型号 Model	制冷量 Cooling capacity kW	制热量 Heating capacity kW	水流量 Water flow rate m³/h	H	H1	H2	H3	L	M	N	液管 Liquid nozzle mm	气管 Gas nozzle mm	水口 Water let mm
GA01-CM	2.5	3.5	0.6	218	140	50	25	120	147	120	9.52	15.88	19
GA02-CM	3.5	4.5	0.8	258	180	50	25	120	147	120	9.52	15.88	19
GA03-CM	5.5	7.0	1.2	328	250	50	25	120	147	120	9.52	15.88	19
GA04-CM	7.5	9.5	1.6	388	310	50	25	120	147	120	9.52	15.88	19

### 双管系列 Double coil

型号 Model	制冷量 Cooling capacity kW	制热量 Heating capacity kW	水流量 Water flow rate m³/h	H	H1	H2	H3	L	M	N	液管 Liquid nozzle mm	气管 Gas nozzle mm	水口 Water let mm
GA05-CM	9.5	12	2	305	220	55	30	150	187	160	12.7	22	19x2
GB05-CM	9.5	12	2	305	220	55	-	150	187	160	22	22	19x2
GA06-CM	12	14.5	2.4	350	265	55	30	150	187	160	12.7	22	19x2
GB06-CM	12	14.5	2.4	350	265	55	-	150	187	160	22	22	19x2
GA07-CM	14	16.5	2.8	393	308	55	30	150	187	160	12.7	22	19x2
GB07-CM	14	16.5	2.8	393	308	55	-	150	187	160	22	22	19x2
GB10-CM	25	35	4	475	410	63	-	160	238	210	28	28	25x2

测试条件: Testing condition

- 1、制冷: 室内干球35°C、室内湿球24°C、进水温度12°C; Cooling: Indoor DB/WB at 35°C/24°C, water inlet at 12°C;
- 2、制热: 室内干球7°C、室内湿球6°C、进水温度40°C。 Heating: Indoor DB/WB at 7°C/6°C, water inlet at 40°C.

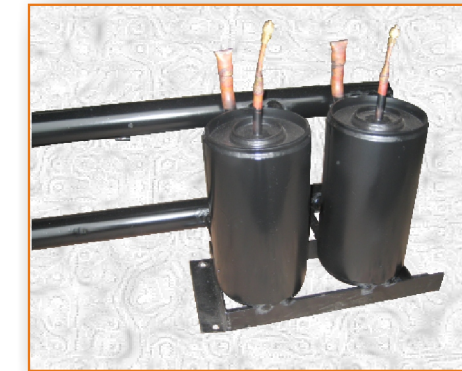
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## 扩展用途 Extendible Use

14kW以上的机型, 有多种并联方案: 双联、三联、四联.....八联等。用户可以根据需要进行组合, 以下是部分组合实例:

For big machine, there are many connecting method: Parallel connection, Three connection, ...even Eight connection. We offer samples for reference:

GA05-CM并联  
Parallel connection



GB056-CM八联  
Eight connection



自由联  
Free connection



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## 钛管换热器 Titanium Heat Exchanger

钛管换热器以纯钛无缝管作为导热载体，钛金属具有超强的耐蚀性能，被广泛应用于泳池加热、鱼池恒温、化工介质调温等场所。

Titanium heat exchanger use seamless pure Titanium as heat conductor. It is popularly used for swimming pool and fish pool water heating, as well as temperature adjusting for chemical industrial items due to its super strong corrosion proof ability.



### 主要材料及特性 Material and Its Identity

#### 【换热管】

纯钛无缝管，执行标准GB/T3625-1995，材质纯钛TA2，出厂前钛管经两次5.2MPa压力试验及精密卤素检漏试验。

#### 【壳体】

壳体主要有三种材料可选：硬聚氯乙烯饮用水管管件（PVC-U）、PP-R、不锈钢等，都符合卫生环保的要求。

- 1、PVC-U：耐酸、碱、耐腐蚀性强。适用温度小于50°C。
- 2、PP-R：耐酸、碱、耐腐蚀性强。适用温度小于70°C。
- 3、不锈钢：耐腐蚀性因不锈钢的不同牌号而异。使用温度小于120°C。

【其他】安装脚及螺钉全部使用不锈钢材料。

#### Heat exchanger coil

The seamless pure Titanium tube TA1, TA2 is made according to standard GB/T3625-1995; The 5.2 Mpa pressure test and precise halogen leaking test is carried out in factory.

#### Shell

There are three material available for shell: PVC-U, PP-R, and stainless steel. All the material is in line with environmental protection requirement and can be chosen according to working condition and environment.

1. PVC-U: Stand with acid or alkali, Strong corrosion proof, Suitable to be used under 50°C
2. PP-R: Stand with acid or alkali, Strong corrosion proof, Suitable to be used under 70°C
3. Stainless steel: Stand with acid or alkali, corrosion proof based on different types of stainless steel.

Suitable to be used under 120°C

#### Others

Fixing parts and bolt use stainless steel material.

### 适用条件 Working condition

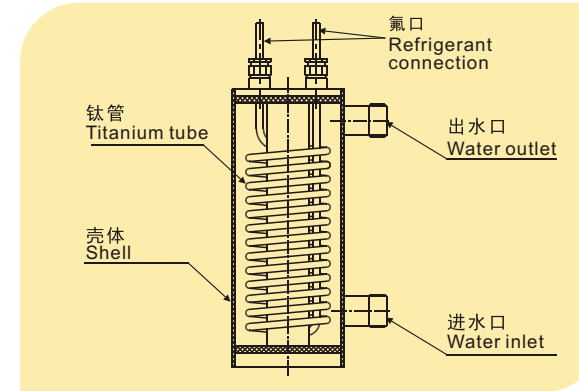
	制冷剂侧(钛管内) Refrigerant side(in Titanium tube)	水侧(外壳内) Water side(in the shell)
最大工作压力 Max. pressure	5.2MPa	0.4Mpa (默认default) 0.5~1.0Mpa(可选optional)
工作温度范围 Temp. range	-50~150°C	0~50°C (PVC) 0~70°C (PP-R) -15~120°C (stainless steel)
介质 Refrigerant type	R22, R134a, R407c, R410a等	水、海水、防冻液等 Nature water, sea water, antifreeze(glycol water)
注意事项 Remarks		注意水质清洁，建议加装过滤器，并定期清理。 当气温低于0°C时，请将水排空以免结冰胀裂系统。 Keep the water clean, recommend to use filter and clean regularly. When the air temperature is under 0°C, please drain out all the water to avoid freezing.

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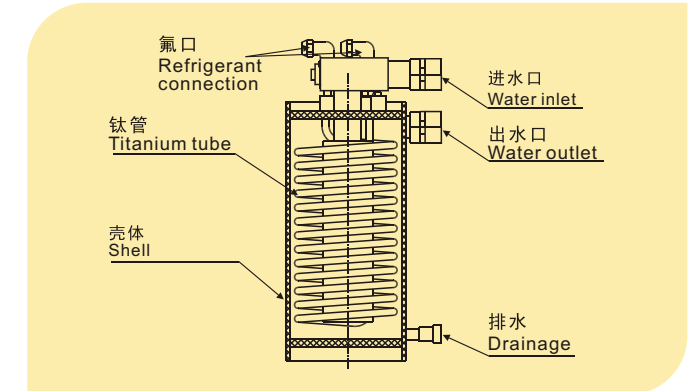
## 钛管换热器 Titanium Heat Exchanger

### 结构形式

#### A型 A Type

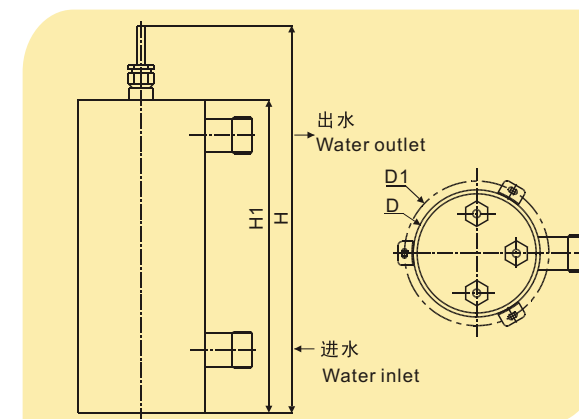


#### B型 B Type

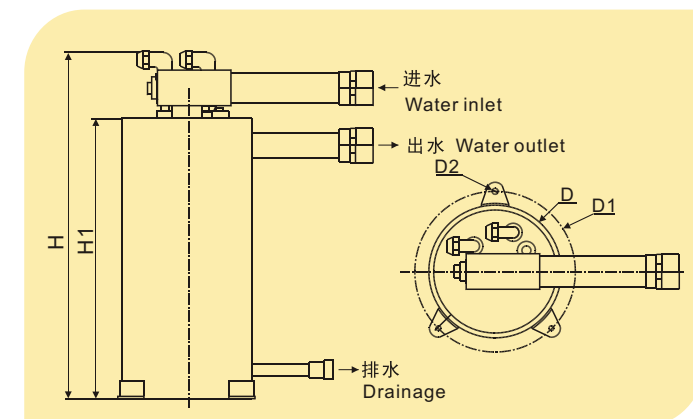


### 外形尺寸 Dimension

#### A型 A Type



#### B型 B Type



### 参数表 Dimension data

型号 Model	钛管 Titanium	制热量 Heating capacity	水流量 Water flow	进出水口 Water connection	D	D1	H
	mm	kW	m³/h	inch			
HT-1	12.7x5500	3.5	1.5	1	160	182	410
HT-1.5	12.7x7500	5	2.2	1	160	182	440
HGT-2	12.7x9500	7	3	1.5	200	266	480
HT-3	12.7x13500	10.5	4.5	1.5	200	266	480
HT-5	16x18000	17	7.5	1.5	250	316	530
HT-7	19x21000	23	10.5	1.5	250	316	650
HT-10	2-16x18000	33	15	2	250	316	810

注：1、表中尺寸为推荐数据，以实际图纸为准。  
2、制热工况为环境温度干球24°C，湿球19°C，进水温度27°C。

Remarks: 1. The data listed is suggested data and will subject to blueprint.  
2. Heating capacity is measured under DB/WB at 24°C/19°C, and inlet water temp. 27°C.

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