

Air cooled screw chiller

30Ton to 600Ton



Shenzhen Hero-Tech Refrigeration Equipment Co., Ltd.

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Application

- ◆ Medium and large scale industrial cooling
- ◆ Central air conditioning system
- ◆ Cold room, thermostatic chamber
- ◆ Central cooling
- ◆ Plastic machinery

Design features

Standard design

- ◆ 5-20C set temperature range.
- ◆ Safety devices: Fan and compressor motor overload, compressor inner protection, over-current relay, discharge gas overheat protection, high and low pressure switch, phase relay, flow switch.
- ◆ High efficient evaporator with internal thread copper tube.
- ◆ Large air volume axial fan with metal blades. Motor separated from net-cover, fixed on exhaust port by metal
- ◆ V shape aluminum fin type condenser, assuring adequate heat exchanging area within smaller unit size.
- ◆ Standard design charged R407C,
- ◆ Power supply: 3PH 380V-415V/50HZ

Well Known Brand Compressor

- ◆ Unit adopts Germany BITZER or Taiwan HANBELL brand semi-hermetic screw compressor. The latest 5 to 6 patented screw rotor profile with excellent efficiency.
- ◆ Adjustable infinite or closely stepped capacity control, features energy efficient, stable and quiet running.
- ◆ Most advanced patented highest precision manufacturing process.
- ◆ Built-in full intelligent monitoring and protection including thermal motor temperature monitoring, phase sequence monitoring, manual reset lock-out, oil temperature sensor.
- ◆ Wide range of refrigerant for option, including R22 and R134a, R407c.

Microprogramming Control System

- ◆ Siemens PLC centralized control combined with compressor capacity control system, precisely monitor.
- ◆ Integrated protection for low temperature, high/low pressure, anti-freezing, phase missing, anti-phase, overload, motor over temperature, oil differential, flow switch, start up latency.

- ◆ Optional operation language, menu leading, unit running state easy to adjust.

Easy Installation, Reliable Running

- ◆ Closely stepped start-up, minimize impact to electricity.
- ◆ Steady and safe running, low vibration, easy for installation.
- ◆ Compact structure, less space demand and light in weight, easy for transport and installation.
- ◆ Completely wired, inspected and tested pre-delivery, saving installation time and cost.



Germany Bitzer



Taiwan Hanbell



Siemens PLC

Option

- ◆ Anti-freezing protection;
- ◆ Refrigerant: R134A, R410A, R404A, R22
- ◆ 3PH 220V/380V/440V/460V/480V 60HZ
- ◆ Plate type evaporator
- ◆ Built-in chilled water pump
- ◆ Economizer
- ◆ Modular design
- ◆ Anti-freezing protection

Model	Cooling capacity	COMP power	Fan power	Air volume	Connection	Dimension L*W*H
	kw	kw	kw	m3/h	Inch	CM
HTS-40A	119.6	36.5	0.6*6	40000	3	2180*1800*2050
HTS-50A	154.5	45.8	0.6*6	50000	3	2350*1800*2050
HTS-60A	173.4	50.2	0.8*6	60000	3	2650*1800*2050
HTS-75A	230.5	66.5	0.8*8	80000	3	3310*1800*2243
HTS-85A	273	74.9	0.8*8	90000	3	3470*1800*2243
HTS-100A	315.5	86.7	0.8*10	100000	4	4090*1800*2243
HTS-120A	372.1	105.2	0.8*12	116000	4	5650*1800*2243
HTS-150A	464.9	129	0.8*16	135000	5	6450*1800*2243
HTS-80AD	239.2	36.5*2	0.8*8	80000	3	3310*1800*2243
HTS-100AD	309	45.8*2	0.8*12	90000	4	4570*1800*2243
HTS-120AD	346.8	50.2*2	0.8*12	116000	4	4870*1800*2243
HTS-150AD	461	66.5*2	0.8*16	135000	5	6450*1800*2243
HTS-170AD	546	74.9*2	0.8*16	165000	6	(3470*1800*2243)*2
HTS-200AD	631	86.7*2	0.8*20	200000	6	(4090*1800*2243)*2
HTS-240AD	744.2	105.2*2	0.8*24	236000	8	(5650*1800*2243)*2
HTS-300AD	929.8	129*2	0.8*32	276000	8	(6450*1800*2243)*2

- Compressor type: Semi-hermetic screw
 - Refrigerant: R407C
 - Evaporator: Shell and tube type
 - Power supply: 3PH-380V-50Hz
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- Condensing temperature 50C, evaporating temperature 7C.
 - Chilled water supply/return temperature: 12C/17C

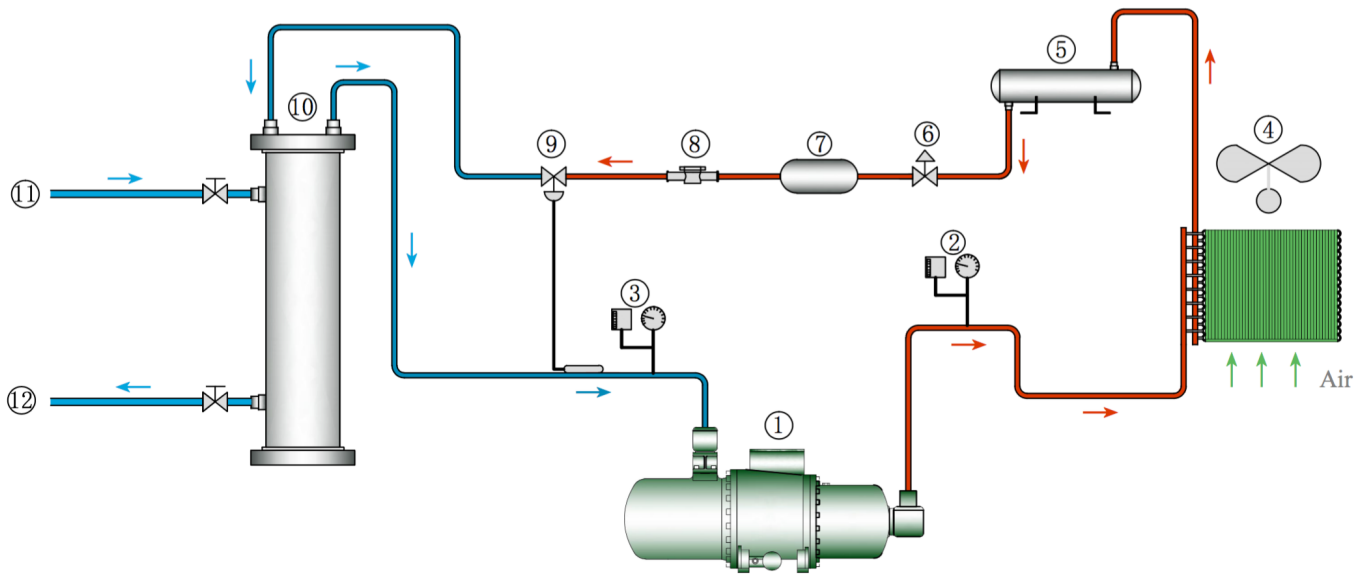
Key Features

- λ Water temperature range 5C to 25C.
- λ Hanbell/Bitzer semi-hermetic screw compressor.
- λ 3-4 level capacity control: 33% - 66% -100% , 25%-50%-75%-100%
- λ Shell and tube evaporator, high efficiency and cleanable
- λ Aluminum fin type condenser with adequate heat exchanging surface.
- λ Refrigeration solenoid valve, to protect compressor when stopped.
- λ Refrigerant sight glass, to further monitor the refrigerant status
- λ Refrigerant Low and high Pressure Gauges
- λ Siemens PLC control, overall monitoring of unit running status.
- λ Axial fan motor, with independent motor support bracket.
- λ Multi-protection devices to make sure the chiller and the equipment running safety.
- λ Schneider electrical components.
- λ Danfoss/Emerson thermal components.

Unit Safety Protection

- u Compressor internal protection
- u Over current protection
- u High/low pressure protection
- u High discharge temperature alarm
- u Over temperature protection
- u Flow switch
- u Phase sequence/phase missing protection

Internal schematic diagram and water flow chart



1. screw compressor	2. high pressure switch	3. low pressure switch
4. aluminum fin condenser	5. fluid reservoir	6. angle valve
7. drier filter	8. sight glass	9. expansion valve
10. shell and tube evaporator	11. chilled water return	12. chilled water supply

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