



**WATER COOLED PACKAGED
TYPE AIR CONDITIONER**

[Your satisfaction is always our cherished desire!]



AirTrojan International Co., Ltd.

<http://www.airtrojan.com>



The models and specifications of equipment listed in this catalog shall be subject to change without any prior notification due to product updating.



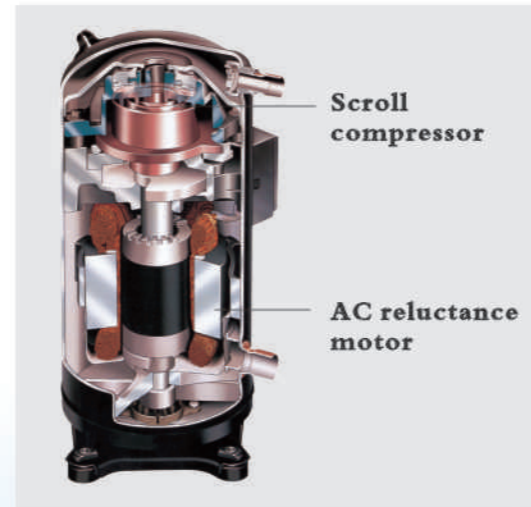
Product Features

Feature 1: Fully satisfy your sensing enjoyment

- Rounded R-angle model, exquisite, ivory-white, easy to match with the environment.
- Anti-corrosion treated case through water cleaning, acid cleaning and two-layer galvanized primer and two-layer finish coats.
- Even indoor temperature with little swing, offering you comfort anywhere at anytime.
- Forcible operation function can reach desired temperature quickly, it keeps you from sufferings of three-minute waiting.
- Quality fittings for fan and compressor, eliminating your noise annoyance.
Oval scroll compressor is more efficient than the traditional piston compressor and has lower vibration reducing noise about 2dB (A).
With less operation parts, it makes a better reliability.

Feature 2: Economical

- Scroll compressor is about 20% more efficient than reciprocating compressor. When no one is inside, it will adjust the set temperature about 2°C up or down. Then you will gain 30% energy-saving in heating and 20% in cooling operation. It is suitable for staying out for a long time and during sleep. Even if you forgot to adjust, it will automatically shift to energy-saving mode.
- Long-term filter, keeps from cleaning for a long period.
- Low power consumption and high efficiency ratio.



1. Power consumption



Application for

Hotels, apartments, restaurants, office buildings, malls and supermarkets, hospitals and factories





Product Specifications

Type		Free-blow type				Ducted type															
Model		L25TCFB	L35TCFB	L25TDFB	L35TDFB	L50TDF	L62TDFB	L85TDF	L105TDFB	L120TDF	L140TDF	L170TDF	L200TDF								
Cooling capacity	kW	26.1	32.4	26.1	32.4	48.1	61.1	84.1	104.1	119.4	139.1	170	200								
Heating capacity (optional, electric heater)	kW	13.5				26.4	28.6	36(48)					48	54							
Air flow	m ³ /h	4800	5400	4000	4800	7800	9000	13600	16200	19800	21600	27000	31500								
External static pressure	Standard	Pa		0		78		98		147			187	200							
	Optional	Pa				0-300(plenum)		100-350			100-400										
Power supply	φ-V-Hz	3-380-50																			
Energy efficiency ratio	w/w	3.47	3.86	3.28	3.64	3.46	3.5	3.22	3.29	3.26	3.26	3.71	3.73								
Total power input	kW	7.5	8.4	8	8.9	13.9	17.5	26.1	31.6	36.6	42.7	45.8	53.66								
Total current	A	14.3	15.6	15.1	16.5	26.1	31.2	46.7	54.6	66.2	76.3	82.8	90.5								
Compressor	Type	Scroll compressor																			
	Starting method	Direct start																			
	Output	kW	5.7 x 1	7.5 x 1	5.7 x 1	7.5 x 1	5.2 x 2	7.5 x 2	8.9 x 2	7.6 x 3	9.0 x 3	5.2 x 6	18.7*2	14.9*3							
	Refrigerant oil		FVC68D				FV68S		FVC68D			FV68S		POE-160SZ	BVC32						
	Oil volume	L	2.66 x 1				1.7 x 2		2.66 x 2		3.0 x 2		2.66 x 3		3.0 x 3		1.7 x 6		6.7 x 2		2.7 x 3
Refrigerant		R410A																			
Refrigerant charge volume	kg	2.8 x 1	3.0 x 1	2.8 x 1	3.0 x 1	4.0 x 2	3.5 x 2	4.0 x 2	3.0 x 3	5.2 x 3	3.7 x 3	8.5*2	7.0*3								
Refrigerant control		Capillary											Expansion valve								
Operation control		Micro-computer																			
Indoor temp. adjustment device		Thermostat																			
Fan	Type	Double suction sirrocco fan																			
	Quantity	2				1		2													
	Fan motor output	kW	0.25		0.68		2.2		4		5.5		7.5		11						
	Drive	Direct drive						Belt drive													
Evaporator		Louver type aluminum fin/copper tube evaporator																			
Row/inch		3/12	4/12	3/12		4/12		3/12		4/12											
Condenser	Type	Shell and tube type																			
	Water flow	m ³ /h	5.59	6.94	5.59	6.94	10.31	13.09	18.02	22.31	25.59	29.81	36.43	42.86							
	Head loss	kPa	22				25		29.4		40				45	48					
	Water inlet pipe diameter	inch/mm	1 1/2" / DN40				2" / DN50		2 1/2" / DN65			3" / DN80									
	Water outlet pipe diameter	inch/mm	1 1/2" / DN40				2" / DN50		2 1/2" / DN65			3" / DN80									
	Condenser drain	inch/mm	1" / DN25																		
Mechanic chamber drain		1" / DN25																			
Air filter		Nylon air filter																			
Fresh air in		Side suction openings						Backside suction													
Dimension (before / after packed)	Height	mm	1900/2092		1620/1812		1875/2042		1880/2080			2115/2280									
	Width	mm	1178/1292				1549/1673		1735/1859		1910/2065			2110/2265							
	Depth	mm	485/598				630/753		970/1034			1084/1148		1284/1348							
Net weight / gross weight	kg	268/278	275/285	253/263	256/266	445/462	514/533	662/695	759/802	797/825	899/929	990/1060	1020/1100								
Protection devices	Compressor	Built-in temperature protection and overload thermal relay																			
	Fan motor	Built-in temperature protection						Overload thermal relay													
	Phase sequence protection	Three-phase power monitor																			
	High pressure switch	Mpa(G)	3.6																		
	Low pressure switch	Mpa(G)	0.12																		
	Fusible plug		Yes																		
	Control loop		5A fuse																		

1.The cooling capacities were tested under the following conditions: Return air temperatures of 27°C(DB) and 19°C(WB), cooling water inlet temperature 30°C, outlet temperature 35°C
 2.(For optional components)The heating capacity of the hot water coil was tested when the hot water temperature at the inlet was at 60°C.
 3.Due to AIRTROJAN's continuous development and improvement process,the specifications are subject to change without notice.

Products List

Plenum Ducted type can be modified into free-blow type with plenum

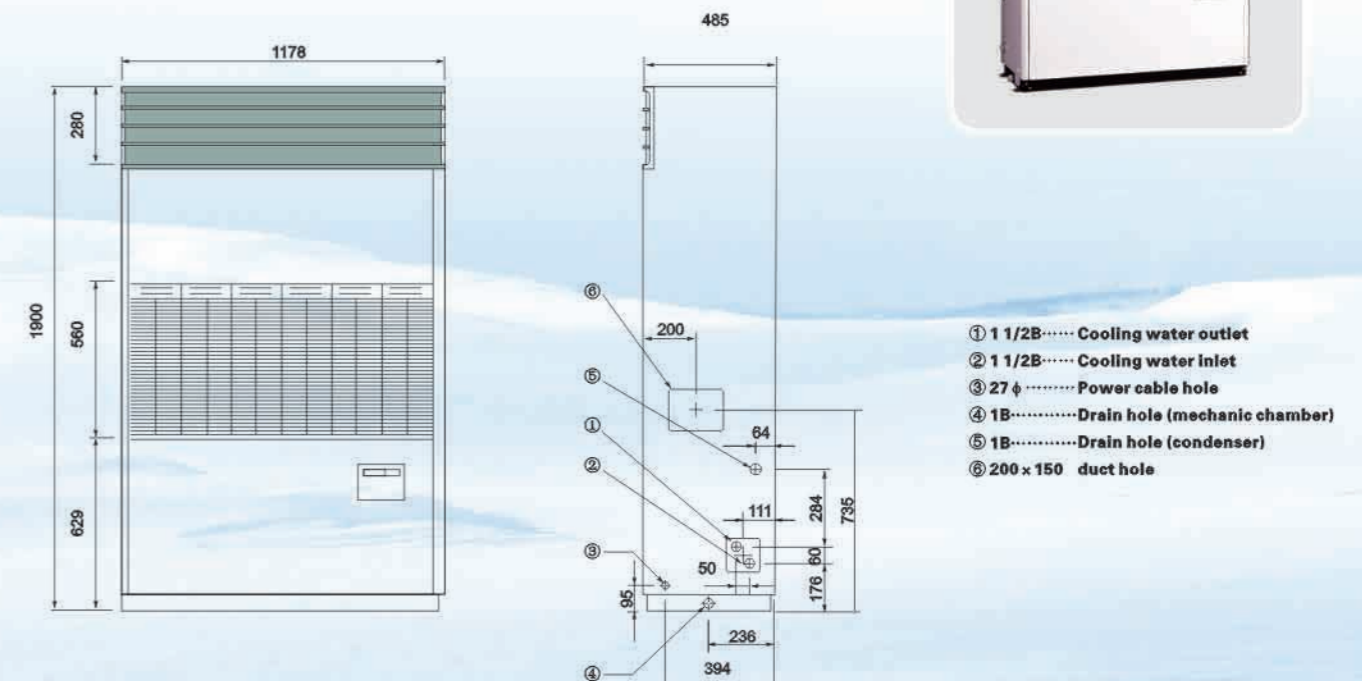
AirTrojan launched its 15HP and 20HP plenum in June 2002, so ducted type air conditioners can be modified into free-blow type.

Specifications

Model	Application	Weight Before/after packing	Dimensions before packing (mm)	Dimensions after packing (mm)
PZPW15-I	L50TD	24/26kg	H302 x W1549 x D630	H387 x W1629 x D695
PZPW20-I	L60TD	33/35kg	H302 x W1735 x D630	H387 x W1815 x D695



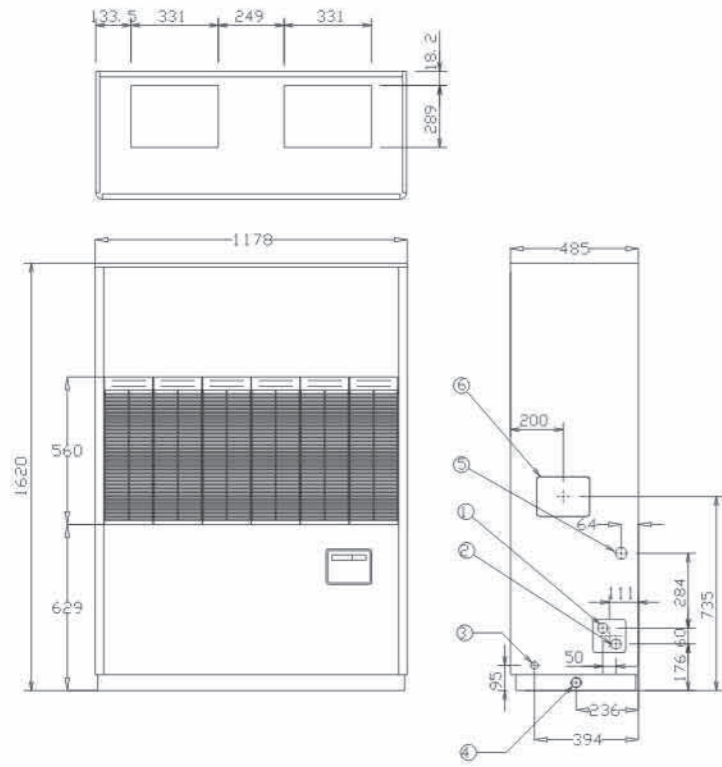
Free-blow type L25TC L35TC





Ducted type

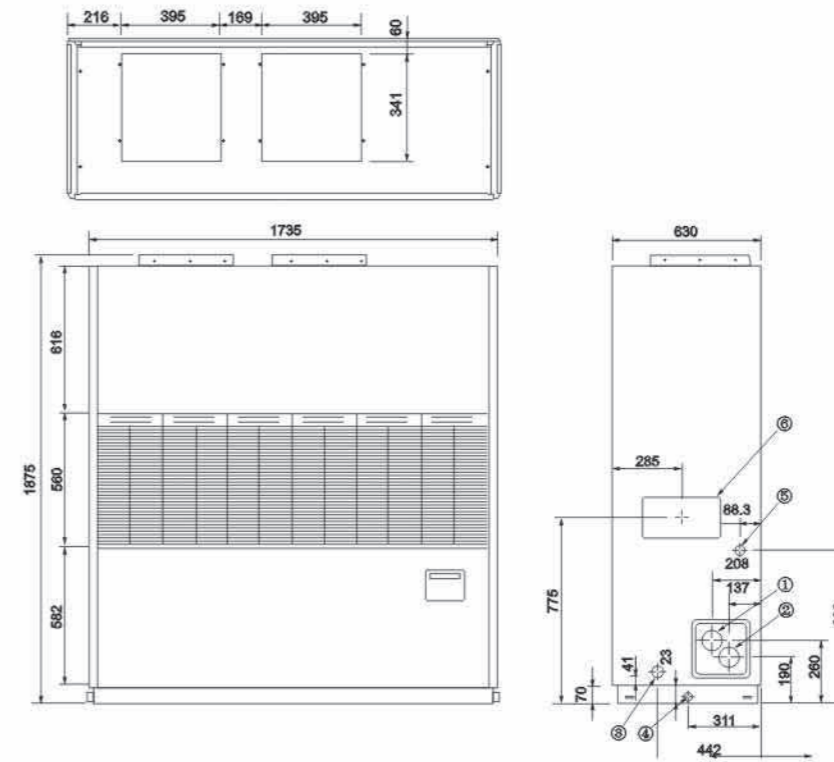
L25TD L35TD



- ① 1 1/2"..... Cooling water outlet
- ② 1 1/2"..... Cooling water inlet
- ③ 27 φ..... Power cable hole
- ④ 1B..... Drain hole (mechanic chamber)
- ⑤ 43 φ..... Drain hole (condenser)
- ⑥ 1B..... duct hole

Ducted type

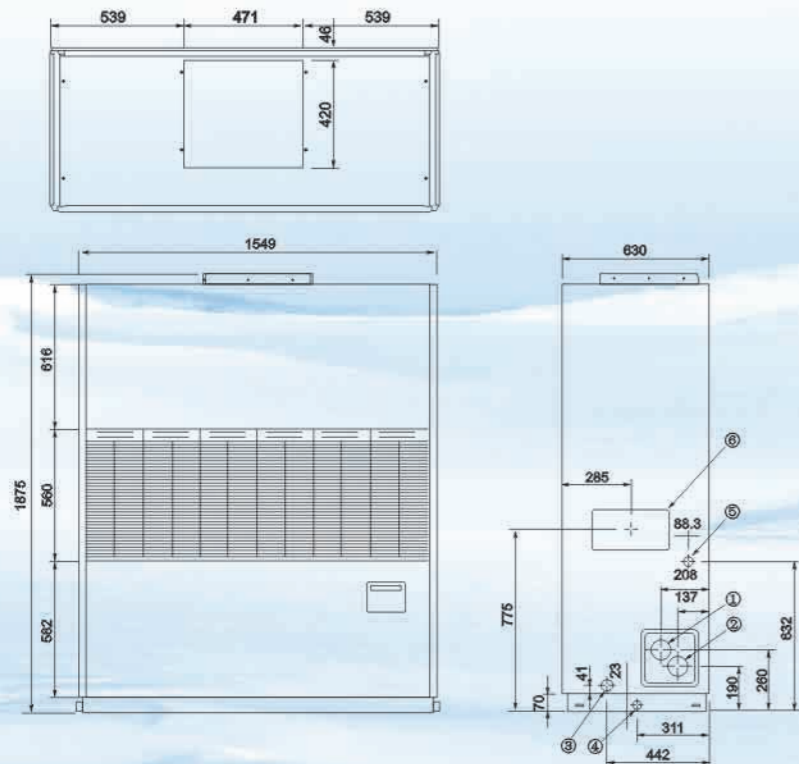
L62TD



- ① 2B..... Cooling water outlet
- ② 2B..... Cooling water inlet
- ③ 52 φ..... Power cable hole
- ④ 1B..... Drain hole (mechanic chamber)
- ⑤ 1B..... Drain hole (condenser)
- ⑥ 330x170 duct hole

Ducted type

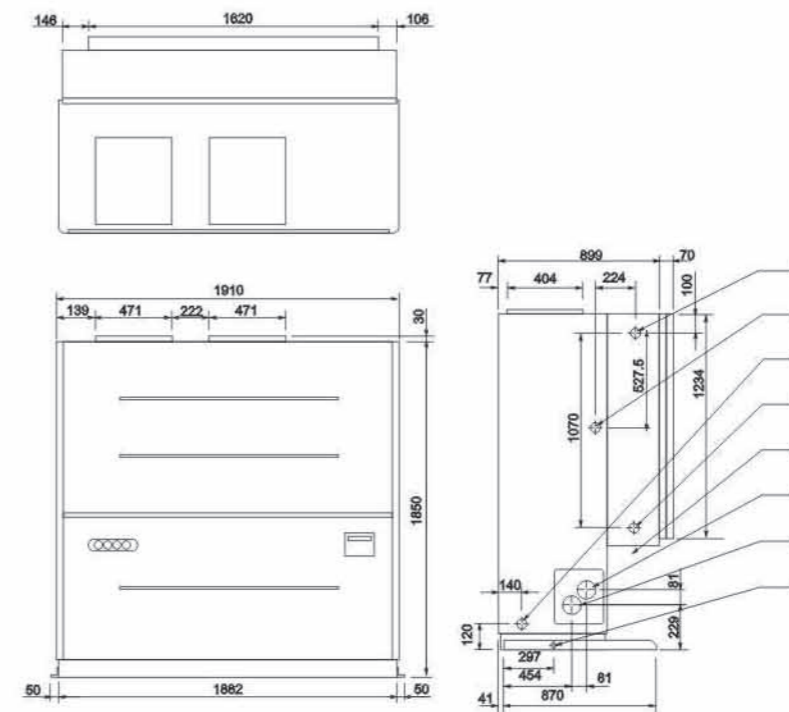
L50TD



- ① 2B..... Cooling water outlet
- ② 2B..... Cooling water inlet
- ③ 52 φ..... Power cable hole
- ④ 1B..... Drain hole (mechanic chamber)
- ⑤ 1B..... Drain hole (condenser)
- ⑥ 330x170 duct hole

Ducted type

L85TD

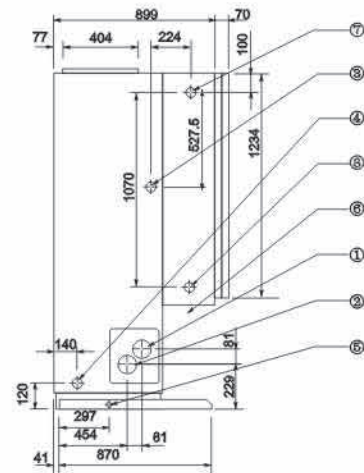
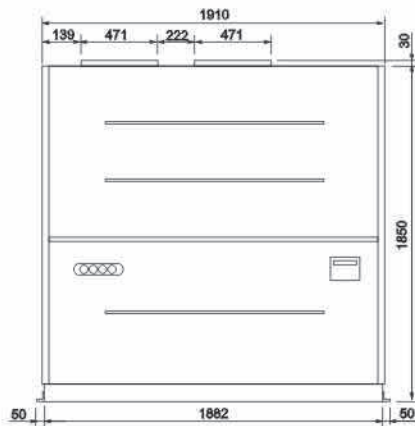
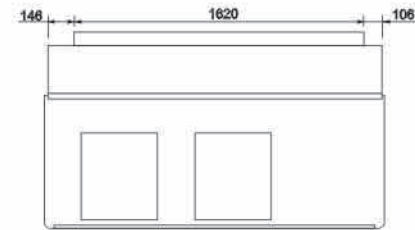


- ① 2 1/2"..... Cooling water outlet
- ② 2 1/2"..... Cooling water inlet
- ③ 75 φ..... Wiring hole for electric heater
- ④ 52 φ..... Power cable hole
- ⑤ 1B..... Drain hole (mechanic chamber)
- ⑥ 1B..... Drain hole (condenser)
- ⑦ 75 φ..... Warm water inlet, steam outlet
- ⑧ 75 φ..... Warm water outlet, steam inlet



Ducted type

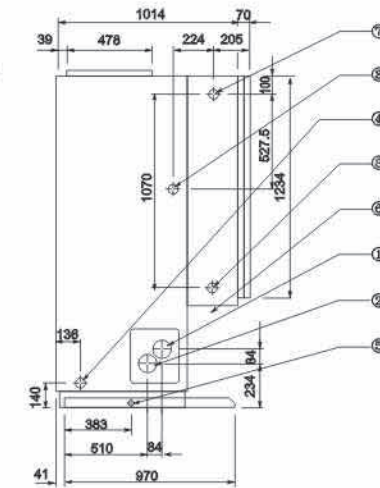
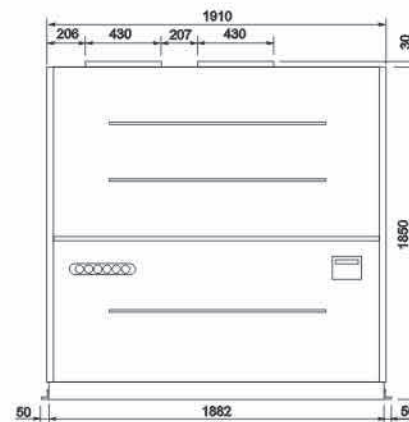
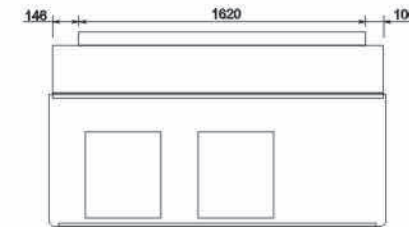
L105TD



- ① 2 1/2B..... Cooling water outlet
- ② 2 1/2B..... Cooling water inlet
- ③ 75 φ..... Wiring hole for electric heater
- ④ 52 φ..... Power cable hole
- ⑤ 1B..... Drain hole (mechanic chamber)
- ⑥ 1B..... Drain hole (condenser)
- ⑦ 75 φ..... Warm water inlet, steam outlet
- ⑧ 75 φ..... Warm water outlet, steam inlet

Ducted type

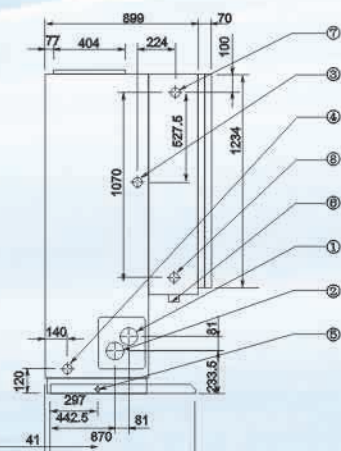
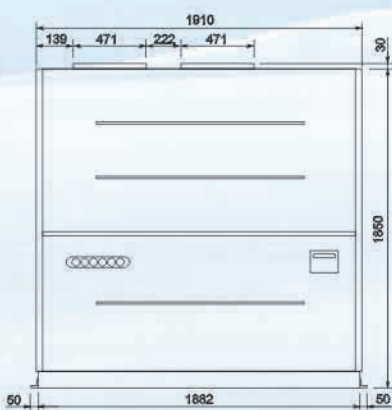
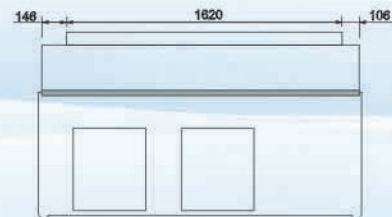
L140TD



- ① 2 1/2B..... Cooling water outlet
- ② 2 1/2B..... Cooling water inlet
- ③ 75 φ..... Wiring hole for electric heater
- ④ 52 φ..... Power cable hole
- ⑤ 1B..... Drain hole (mechanic chamber)
- ⑥ 1B..... Drain hole (condenser)
- ⑦ 75 φ..... Warm water inlet, steam outlet
- ⑧ 75 φ..... Warm water outlet, steam inlet

Ducted type

L120TD



- ① 2 1/2B..... Cooling water outlet
- ② 2 1/2B..... Cooling water inlet
- ③ 75 φ..... Wiring hole for electric heater
- ④ 52 φ..... Power cable hole
- ⑤ 1B..... Drain hole (mechanic chamber)
- ⑥ 1B..... Drain hole (condenser)
- ⑦ 75 φ..... Warm water inlet, steam outlet
- ⑧ 75 φ..... Warm water outlet, steam inlet

Select installation positions according to the drawings It's easy for you.

