



**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.



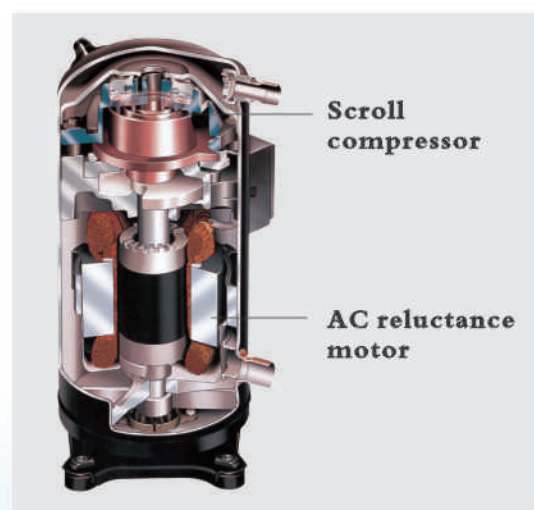
Product Features

Feature 1: Fully satisfy your sensing enjoyment

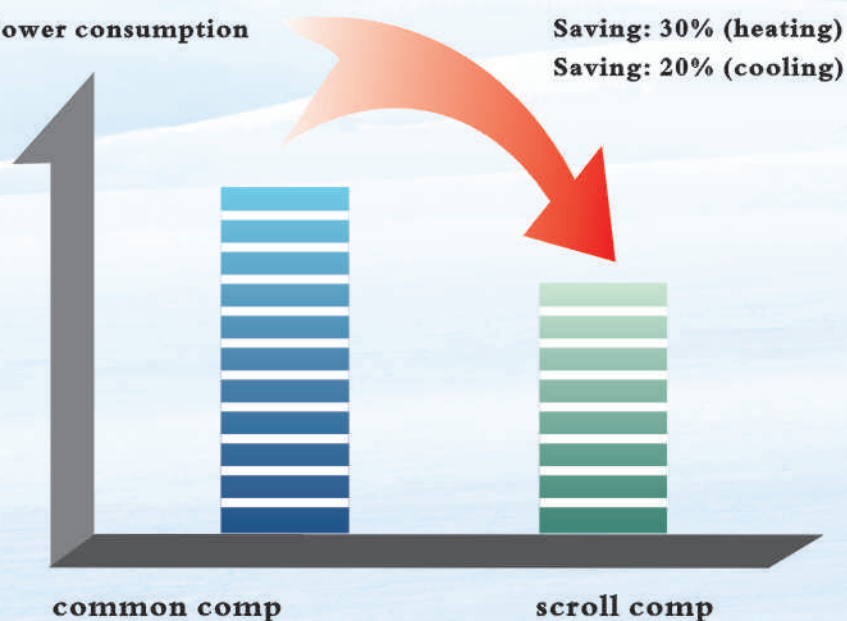
- Rounded R-angle model, exquisite, ivory-white, easy to match with the environment.
- Anti-corrosion treated case through water cleaning, acid cleaning and two-layer galvanized primer and two-layer finish coats.
- Even indoor temperature with little swing, offering you comfort anywhere at anytime.
- 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		L25TCF	L35TCF	L25TDF	L35TDF	L50TDF	L62TDF	L85TDF	L105TDF	L120TDF	L140TDF	
Cooling capacity		kW	26.5	35.2	26.5	35.2	52.9	67.5	85.3	104.6	119.5	139.4
Heating capacity(optional, electric heater)		kW	13.5				26.4	28.8	36(48)			
Air flow		m³/h	4800	5400	4000	4800	7800	9000	13600	16200	19800	21600
External static pressure	Standard	Pa	0		78	98			147			
	Optional	Pa	-				0-300(plenum)		100-350			100-400
Power supply		φ-V·Hz	3-380-50									
E.E.R.		w/w	3.66	3.93	3.55	3.86	3.64	3.78	3.79	3.76	3.39	3.63
Power consumption		kW	7.25	8.95	7.47	9.12	14.52	17.85	22.50	27.80	35.3	38.4
Running current		A	13.8	17	14.2	17.3	27.6	31.90	42.7	49.7	63.1	68.6
Start current		A	135				122	203	253	223	267	298
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	9.0 x 2	7.5 x 3	9.0 x 3	5.2 x 6
	Refrigerant oil		DAPHEN FVC68D					FV68S		POE		FV68S
	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
Refrigerant			R-410A									
Refrigerant Charge Volume		kg	4.7 x 1	5.5 x 1	4.7 x 1	5.5 x 1	4.0 x 2	5.0 x 2	6.5 x 2	3.0 x 3	6.5 x 3	3.5 x 3
Refrigerant control			Capillary									
Operation control			Micro-computer									
Indoor temp. adjustment device			Thermostat									
Fan	Type		Double suction sirocco fan									
	Quantity		2				1	2				
	Fan motor output	kW	0.39		0.68		2.2	4	5.5			7.5
	Drive		Direct drive					Belt drive				
Evaporator			Lower type aluminum fin/copper tube evaporator									
Row/fin per inch			3/12	4/12	3/12	4/12		4/13.4	3/12	4/12		
Condenser	Type		Shell and tube type									
	Water flow	m³/h	5.7	7.5	5.7	7.5	11.3	14.5	18.3	22.4	25.6	29.9
	Head loss	kPa	22.0				25		29.4		40	
	Water inlet pipe diameter	inch/mm	1 1/2" / DN40				2" / DN50		2 1/2" / DN65			
	Water outlet pipe diameter		1 1/2" / DN40				2" / DN50		2 1/2" / DN65			
	Condenser drain		1" / DN25				1 1/4" / DN32					
	Mechanic chamber drain		1" / DN25				1 1/4" / DN32					
Air filter			Nylon air filter									
Fresh air intake			Side suction openings					Backside suction opening				
Dimension (before / after packed)	Height	mm	1900/2092		1620/1812		1875/2042		1880/2080			
	Width	mm	1178/1292				1549/1673	1735/1859	1910/2065			
	Depth	mm	485/598				630/753		970/1034			1084/1148
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
Protection devices	Compressor		Built-in temperature protection and overload thermal relay									
	Fan motor		Built-in temperature protection					Over thermal relay				
	Phase sequence protection		Three-phase power monitor									
	High pressure switch	Mpa(G)	3.2									
	Low pressure switch	Mpa(G)	0.22									
	Fusible plug		Yes									
	Control loop		5A fuse									

- The cooling capacity is measured when the return air temperature is at 27°C DB and 19°C WB while the cooling water inlet temperature is at 30°C and outlet is at 35°C.
- (For the optional components) the heating capacity of hot water coil is measured when the inlet hot water is 60°C.
- These specifications are subject to change without prior notice.

Products List

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

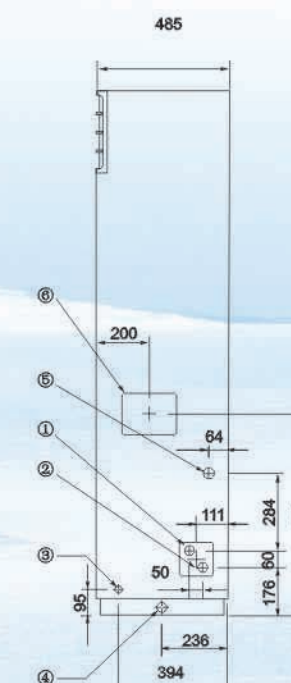
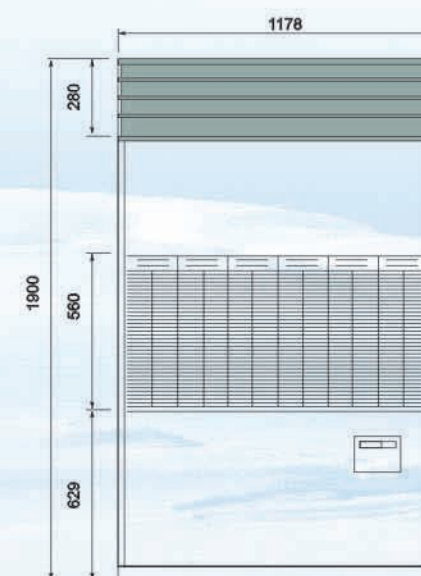
AirTrojan launched its 15HP and 20HP plenum in June 2002, so ducted type air conditioners can be modified into free-blow type.

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

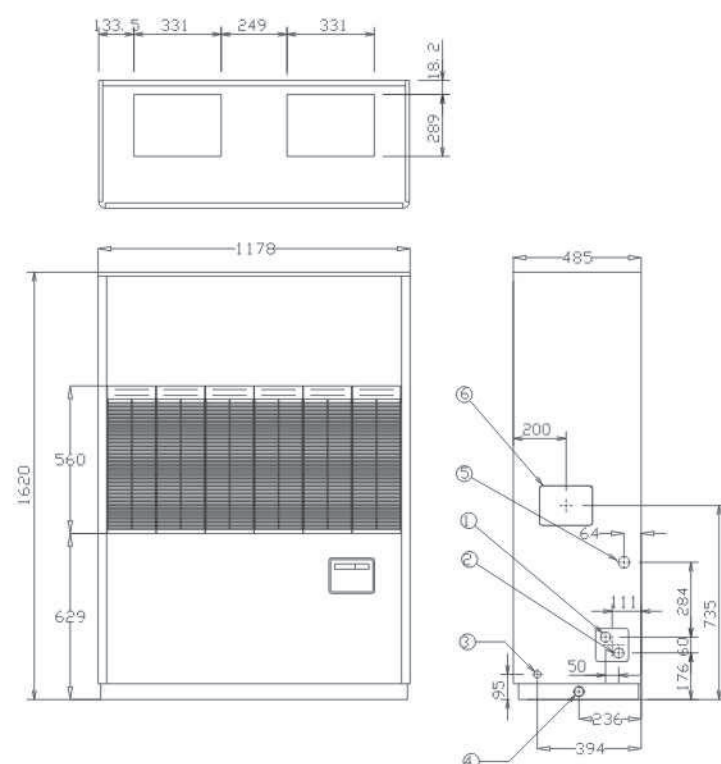


- 1 1/2B..... Cooling water outlet
- 1 1/2B..... Cooling water inlet
- 27 φ..... Power cable hole
- 1B..... Drain hole (mechanic chamber)
- 1B..... Drain hole (condenser)
- 200 x 150 duct hole



Ducted type

L25TD L35TD

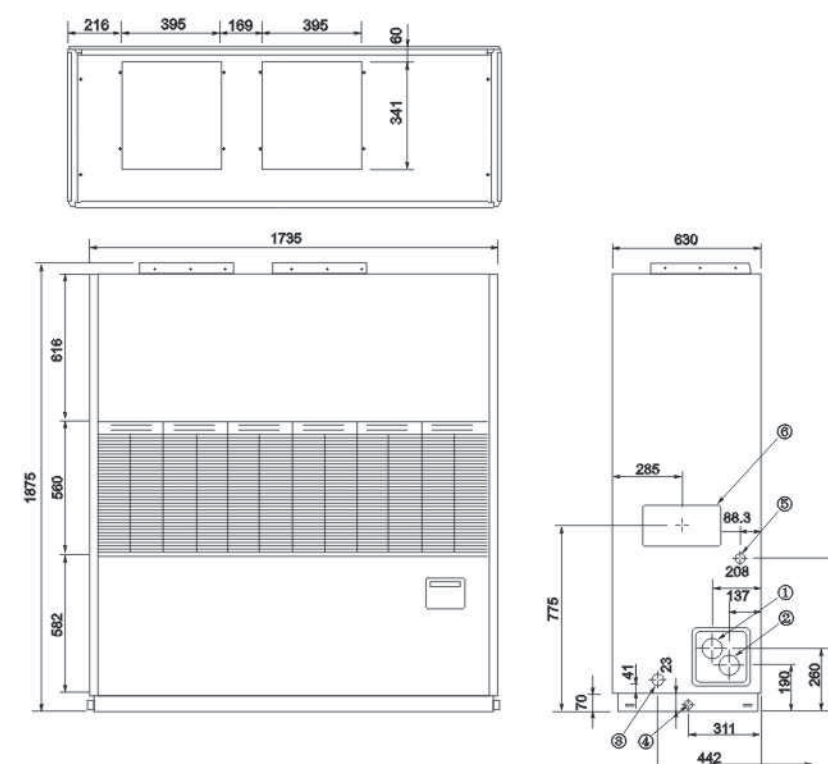


- ① 1 1/2B..... Cooling water outlet
- ② 1 1/2B..... Cooling water inlet
- ③ 27 φ..... Power cable hole
- ④ 1B..... Drain hole (mechanic chamber)
- ⑤ 43 φ..... Drain hole (condenser)
- ⑥ 1B..... duct hole



Ducted type

L62TD

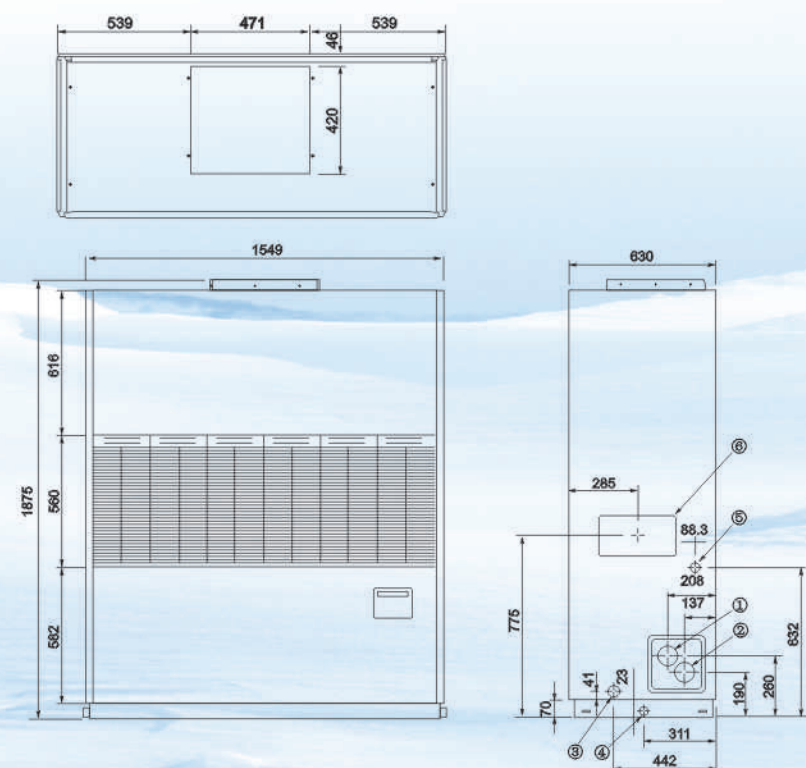


- ① 2B..... Cooling water outlet
- ② 2B..... Cooling water inlet
- ③ 52 φ..... Power cable hole
- ④ 1B..... Drain hole (mechanic chamber)
- ⑤ 1B..... Drain hole (condenser)
- ⑥ 330×170 duct hole



Ducted type

L50TD

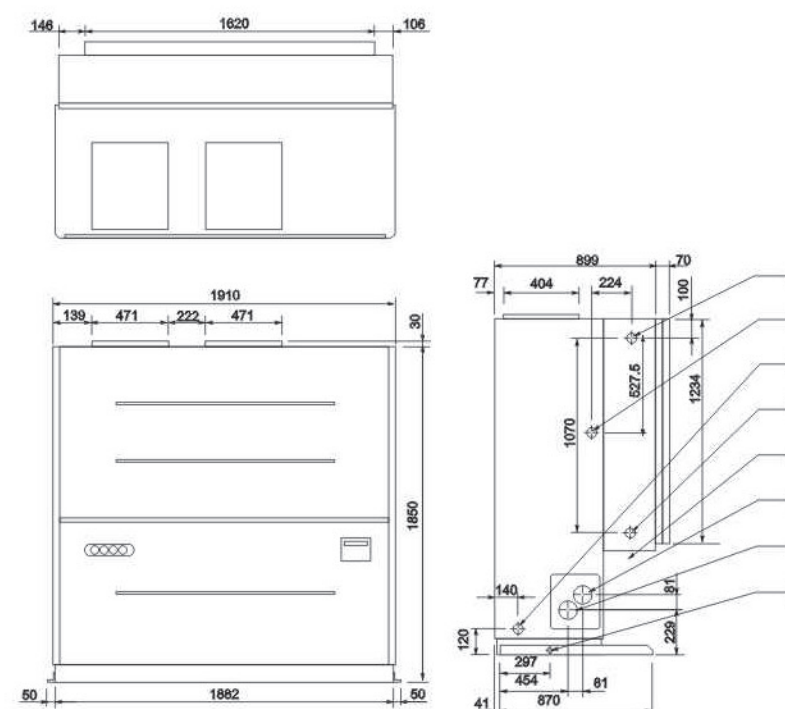


- ① 2B..... Cooling water outlet
- ② 2B..... Cooling water inlet
- ③ 52 φ..... Power cable hole
- ④ 1B..... Drain hole (mechanic chamber)
- ⑤ 1B..... Drain hole (condenser)
- ⑥ 330×170 duct hole



Ducted type

L85TD



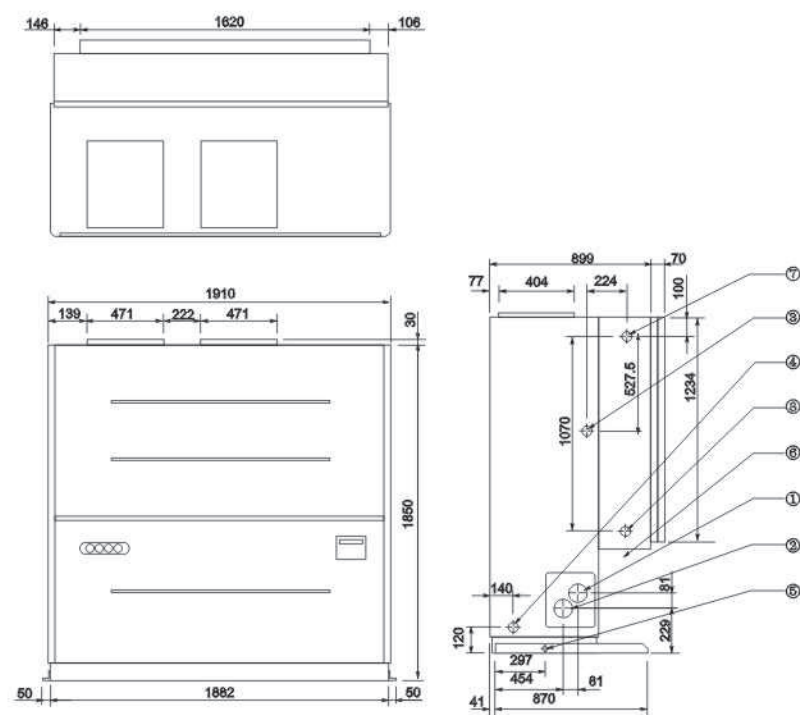
- ① 2 1/2B..... Cooling water outlet
- ② 2 1/2B..... Cooling water inlet
- ③ 75 φ..... Wiring hole for electric heater
- ④ 52 φ..... Power cable hole
- ⑤ 1 1/4B..... Drain hole (mechanic chamber)
- ⑥ 1 1/4B..... Drain hole (condenser)
- ⑦ 75 φ..... Warm water inlet, steam outlet
- ⑧ 75 φ..... Warm water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





Ducted type

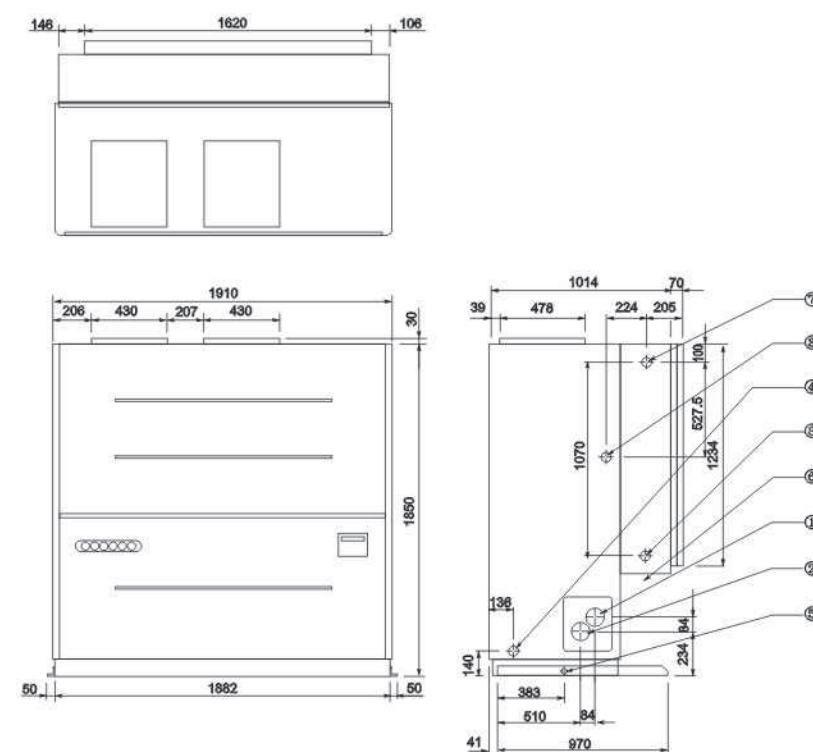
L105TD



- 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 1 1/4B..... Drain hole (mechanic chamber)
- ⑥ 1 1/4B..... Drain hole (condenser)
- ⑦ 75 φ Warm water inlet, steam outlet
- ⑧ 75 φ Warm water outlet, steam inlet

Ducted type

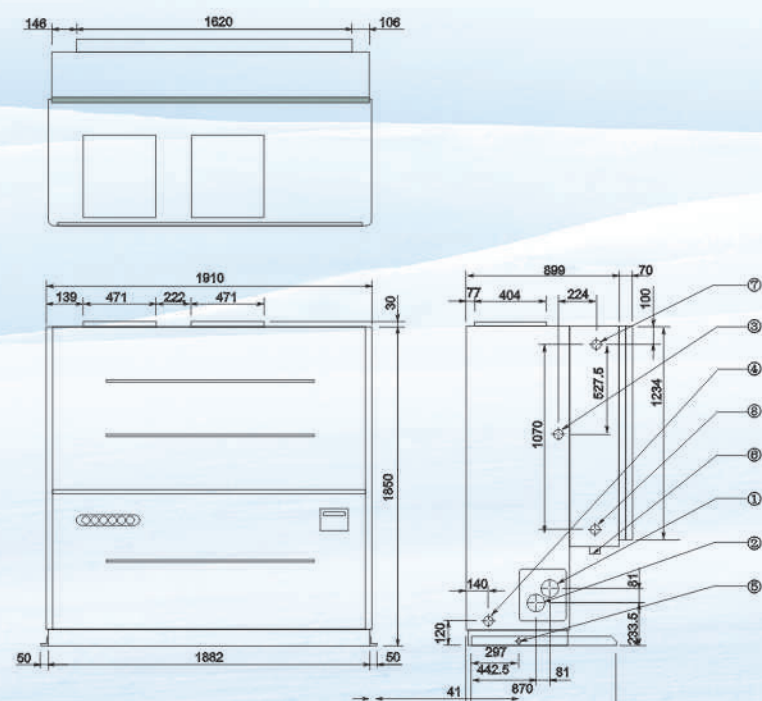
L140TD



- 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 1 1/4B..... Drain hole (mechanic chamber)
- ⑥ 1 1/4B..... 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 1 1/4B..... Drain hole (mechanic chamber)
- ⑥ 1 1/4B..... 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.

