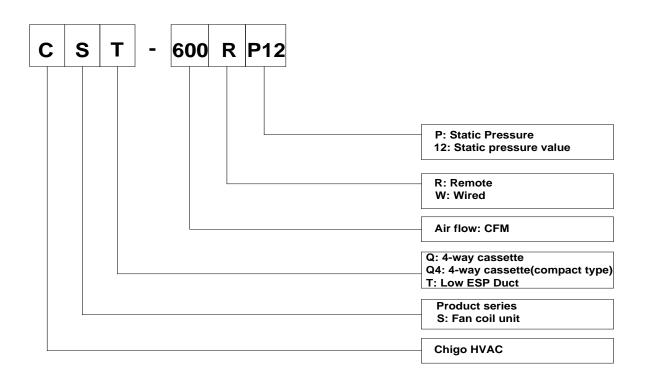
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1. Introduction

Fan coil unit is a kind of compound device which assemble fan and surface-type coil heating-exchanger together. Fan coil with fresh air supply system is a main type of center air-conditioner system, so it is an important component of AC devices. Fan coil has horizontal type, vertical type, etc. A cooling (heating) supply system usually consists of fan coil terminals and chilled water system (heated water system).

CHIGO commercial AC fan coil is designed and manufactured on the base of advanced technology, and utilize qualified galvanized iron as material. Due to its supper-thin design, it has such advantages: beautiful outlook, space saving, easy installation, etc. And the most obvious advantage is that it can decrease the outlet air Temp-difference as low as possible to make room more comfortable, as well as don't decrease cooling capacity output. For the large air flow volume design, it can increase room ventilation frequency, supply more flesh air, and balance room temperature distribution. Benefiting from adoption of advanced material and technology, it can effectively decrease the running noise and keep running smoothly. With the advantages above, it can be widely applied in market, hospital, office building, hotel airport, etc..

Part 2 Nomenclature



Part 3 Product Schedule

NO	Model	Туре	Power source
1	CST-200P12		
2	CST-300P12		
3	CST-400P12		
4	CST-500P12		
5	CST-600P30	3-Row Duct Type	220-240V~,1Ph, 50Hz
6	CST-800P30		
7	CST-1000P30		
8	CST-1200P30		
9	CST-1400P30		

4. External Appearance



5. Features

- Nested in the ceiling, space-saving and noble.
- High capacity of cooling / heating performance, high efficiency and energy-saving.
- Adjust the indoor temperature rapidly and averagely.
- Low noise fan direct driven by single phase, 3 speed permanent split capacitor motor.
- •The air outlet is laid out in the way you desire.
- Unit constructed by electrostatic galvanized sheet, providing maximum protection against corrosion
- Heavy gauge zinc coated steel drainage pan with good insulation processing, avoiding sweating and corrosion
- Unit tested performance comply with GB4706.32-2004、JB9063-1999 and JB/T4283-1991.

6. Specifications Chilled Water Fan Coil Units

Model			CST-200P12	CST-300P12	CST-400P12	CST-500P12	CST-600P30		
	High-speed		340	510	680	850	1020		
Air-flow	Middle-speed		285	420	580	700	840		
volume(m3/h)	Low-spe	ed	210	320	420	520	620		
Cooling capacity (W)	High-spe	ed	2130	3260	4170	4840	5810		
Heating capacity (W)	High-spe	ed	3480	5320	6810	7910	10000		
	Туре		Front-wing double-inlet centrifugal type fan						
Fan	Number		1	2	2	2	2		
	Nosie lev	vel dB (A)	36	37	40	43	47		
	Туре		3 level speed, low noise, capacitance motor						
	Number				1				
•• •	Power s	upply	220V~240V,1Φ,50Hz						
Motor	Power input (W)		30	39	60	76	106		
	Model		YDK-8-6P-1	YSK-13-6P-1	YSK-26-4P-1	YSK-32-4P-1	YSK-36-4P-1		
	Speed	r/min	720/570/480	720/560/480	770/630/510	910/760/640	960/820/670		
	Туре		copper tube, grilled aluminum fin						
Coil	Rows		3						
	Working pressure		1.0MPa						
	Water inlet		RC3/4" internal thread						
Connection	Water outlet		RC3/4" internal thread						
pipe	Drainage		ZG3/4" external thread						
Water-flow Volume(m3/h)		0.37	0.56	0.72	0.83	1			
	(kPa)	Standard	14	20	22	24	34		
Hydraulic resistance		High Static	14	20	22	24	34		
		Pressure							
Dimension	Width	mm	770	825	927	927	1140		
	Height	mm	240	240	240	240	240		
	Depth	mm	461	461	461	461	461		
Net weight (kg)	No air-return box		13	15	17	17	20		

Remark: 1. All performance data above is based upon 0Pa ambient static pressure.

2. Cooling capacity test condition: air inlet Temp. : 27DB

3. Heating capacity test condition: air inlet Temp. : 21DB cooling.

4. Noise level is tested in full-anechoic room.

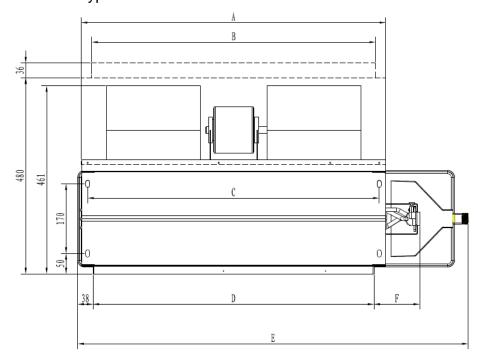
°C/19.5W B°C w

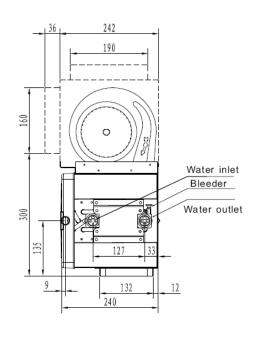
°C, water in

Model			CST-800P30	CST-1000P30	CST-1200P30	CST-1400P30			
	High-speed		1360	1700	2040	2380			
Air-flow	Middle-speed		1150	1400	1650	2000			
volume(m3/h)	Low-spe	ed	840	1000	1250	1480			
Cooling capacity (W)	High-spe	eed	7920	9070	<mark>10800</mark>	<mark>12600</mark>			
Heating capacity (W)	High-spe	eed	13600	16000	<mark>16200</mark>	<mark>18900</mark>			
	Туре		Front-wing double-inlet centrifugal type fan						
Fan	Number		4	4	4	4			
	Nosie le	vel dB (A)	47	50	51	52			
	Туре		3 level speed, low noise, capacitance motor						
	Number			2	2	2			
	Power s	upply	220V~240V,1Ф,50Hz						
Motor	Power input (W)		150	172	210	250			
	Model		YSK-20-4P-1	YSK-33-4P-1	YSK-37-4P	YSK-50-4P			
	Speed	r/min	970/810/700	1030/850/730	1050/900/750	1170/1030/880			
	Туре		copper tube, grilled aluminum fin						
Coil	Rows		3						
	Working pressure		1.0MPa						
0 <i>i</i>	Water inlet		RC3/4" internal thread						
Connection	Water outlet		RC3/4" internal thread						
pipe	Drainage		ZG3/4" external thread						
Water-flow Volume(m3/h)			1.36	1.56	1.98	2.24			
		Standard	34	40	42	50			
Hydraulic resistance	(kPa)	High Static Pressure	34	40	42	50			
	Width	mm	1440	1546	1835	1835			
Dimension	Height	mm	240	240	240	240			
	Depth	mm	461	461	461	461			
Net weight (kg) No air-return box		27	32	36	36				

Part 7 Dimension

Duct-type fan coil



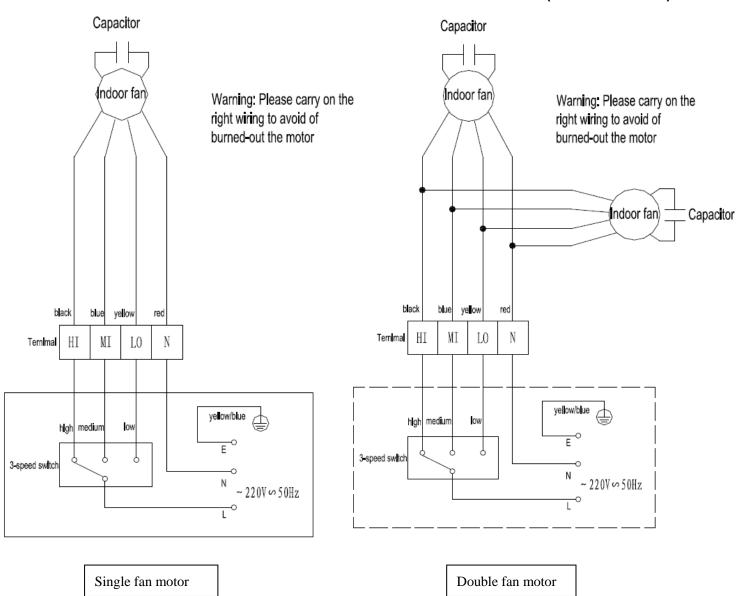


							mm
model dimension	CST-200P12	CST-300P12	CST-400P12 CST-500P12	CST-600P30	CST-800P30	CST-1000P30	CST-1200P30 CST-1400P30
А	547	647	747	967	1267	1372	1662
В	517	617	717	937	1237	1342	1632
С	513	613	713	933	1233	1338	1628
D	485	585	685	905	1205	1310	1600
E	770	825	927	1140	1440	1546	1835
F	106	106	106	106	106	106	106

Notice:

- 1. Example above is based on double scroll cases type, it may be different from the one you choose
- 2. Double-dash line in drawing is the dimension of air-return box (down air-return type and rear air-return type)
- 3. If customer need air-return box, please declare when booking, furthermore, please explain whether it is down air-return type or rear air-return type.

Part 8 Wiring Diagram CST-200P12 CST-300P12 CST-400P12 CST-500P12 CST-600P30 (Single fan motor) CST-800P30 CST-1000P30 CFP-204WA-Y3-G30-001 CFP-238WA-Y3-G30-001 (Double fan motor)



Part 9 Unit installation

9.1 Installation place

There is enough room for installation and maintenance.

The ceiling is horizontal, and its structure can endure the weight of the indoor unit.

The air outlet and the air inlet are not impeded, and the influence of external air is the least.

The air flow can reach throughout the room.

The connecting pipe and drainpipe could be extracted out easily.

There is no direct radiation from heaters

Caution

Location in the following places may cause malfunction of the machine. (If unavoidable, please consult your local dealer.)

1. There exists petrolatum.

2. There is salty air surrounding (near the coast).

3. There is caustic gas (the sulfide, for example) existing in the air (near a hot spring).

4. The Volt vibrates violently (in the factories).

9.2 Install the Main Body

Please refer to the following figure for the hanging screw bolts.

Please install with Ø10 hanging screw bolts.

The handling to the ceiling varies from the constructions,

Consult the construction person for the specific condition.

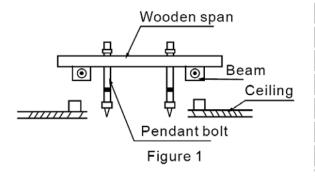
- 1. The size of the ceiling to be handled----- Do keep the ceiling flat. Consolidate the roof beam for possible vibration.
- 2. Cut off the roof beam.
- 3. Strengthen the place that has been cut off, and consolidate the roof beam.

Carry out the pipe and line operation in the ceiling after finishing the installation of the main body. While choosing where to start the operation, determine the direction of the pipes to be drawn out. Especially in case there is a ceiling, position the water refrigerant pipes, drain pipes, indoor lines to the connection places before hanging up the machine.

The installation of hanging screw bolts.

Wooden structure

Put rectangular sticks across the beams, and set pendant bolts. (See Figure 1)



New concrete roughcast

Set it with embedded bushes or embedded bolts. (Figure 2)





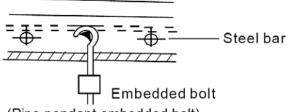
(Blade plug-in unit)

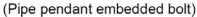
(Slide plug-in unit)

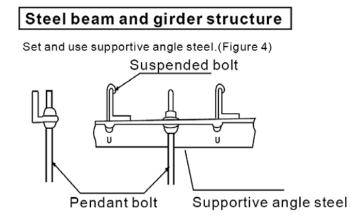


Old concrete roughcast

Use embedded bolts, embedded pulling plugs, and embedded stick harness.(Figure 3)



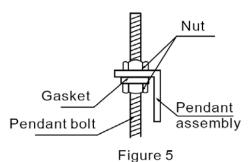




Suspending the indoor unit

1.Use tools such as pulleys to hoist the indoor unit to the pendant bolt.

2.Use tools such as gradient to settle the indoor unit horizontally. Lack of horizontality may cause water leak.



Pipe Connecting

1. The water vent is with the air outlet valve; the other side is air inlet.

2.When connecting the water collecting box, the torque is 6180~7540N.cm (630~770kgf.cm).

3.Put the connecting tubing at the proper position, wrench the nuts with hands, then fasten it with a wrench. (Refer to Figure 6)

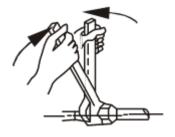


Figure 6

9.3 Connect the Drainage Pipe

1. Install indoor unit drain pipe

The outlet has PTI screw bread, please use sealing materials and pipe sheath (fitting) when connecting PVC pipes.

CAUTIONS:

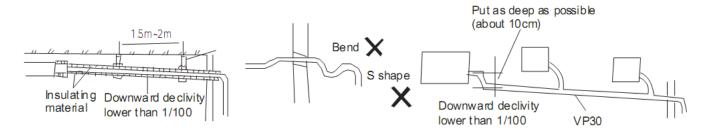
The drain pipe of indoor unit must be heat insulated, or it will condense dew, as well as the connections of the indoor unit.

CHIGO CAC-FAN COIL

Hard PVC binder must be used for pipe connection, and make sure there is no leakage. With the connection part to the indoor unit, please be noted not to impose pressure on the side of indoor unit pipes. When the declivity of the drain pipe downwards is over 1/100, there should not be any winding.

The total length of the drain pipe when pulled out traverse shall not exceed 20m, when the pipe is over long, a prop stand must be installed to prevent winding.

Refer to the figures on the right for the installation of the pipes.



2. Drainage test

Check whether the drainpipe is unhindered

New built house should have this test done before paving the ceiling.

9.4 Wiring Installation

The connecting diagram refers to the wiring diagrams.

Fan coil unit model	Name of cable	Cable quantity	Specification	Note
	Fan power cord	1	$\frac{\text{RVV-300/500}}{5 \times 1.0 \text{mm}^2}$	Connect the wire controller with fan coil units(Owner purchase it optionally)
All modes without auxiliary electrical heater	Control wire for magnetic valve	1	RVV-300/500 $2 \times 0.75 \text{mm}^2$	Connect the wire controller with magnetic water valve(Owner purchase it optionally)
	Main power cord	1	$\frac{\text{RVV-300/500}}{3 \times 3.3 \text{mm}^2}$	Owner purchase it optionally
All modes with auxiliary electrical heater	Controller	1	$\frac{\text{RVV-300/500}}{3 \times 2.5 \text{mm}^2}$	Owner purchase it optionally
	Control wire	1	$\frac{\text{RVV-300/500}}{5 \times 1.5 \text{mm}^2}$	Owner purchase it optionally