FORM 0110-1311

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YANGFAN

FAN COIL UNITS

Ceiling Concealed Type

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ISO 90001

Chiller Water Type Standard Specifications

60Hz

MODEL	UNIT	YFCR 300 S / 300 H	400 S / 400 H	500 S / 500 H	600 S / 600 H	800 S / 800 H	1000 S / 1000 H	1200 S / 1200 H	1400 S / 1400 H	1600 S / 1600 H
Cooling Capacity	Kcal/h	2,550	3,450	4,500	5,350	7,150	8,400	9,350	11,300	13,800
Heating Capacity	Kcal/h	4,200	5,900	7,100	8,460	11,040	13,200	14,900	18.000	21,900
Air volume	m^3/h	525	690	880	1,050	1,380	1,750	2,040	2,450	2,760
Fan										
Type		Double inlet Centrifugal Forward-curved Fan								
Number	pcs	1	1	2	2	2	3	4	4	4
Motor										
Power source		1 PH - 110V - 60Hz / 1 PH - 220V - 60Hz								
Type		E Class Insulation 3 Speed Permanent Split-capacitor Motor								
Number	pcs	1	1	1	1	1	2	2	2	2
Standard Type										
Ex. Static Pres.	mmAq	2	2	2	2	2	2	2	2	2
Power Input	W	45	55	60	67	83	128	134	166	166
Running Current (110V)	A	0.41	0.51	0.54	0.60	0.79	1.20	1.25	1.58	1.58
Running Current(220V)	A	0.21	0.26	0.27	0.30	0.40	0.60	0.63	0.79	0.79
High Static Type										
Ex. Static Pres.	mmAq	4	4	4	4	4	4	4	4	4
Power Input	W	65	85	92	100	140	185	200	270	360
Running Current (110V)	A	0.62	0.82	0.88	0.96	1.34	1.67	1.92	2.58	3.28
Running Current(220V)	A	0.31	0.41	0.44	0.48	0.67	0.84	0.96	1.29	1.64
Coil										
Type		Slit aluminum Fins mechanically bonded to copper tubes								
Operating Pers.	Kg/cm^2	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Water Flow	l/min	8.5	11.5	15	17.8	23.8	28	31.2	37.6	50.1
Head Loss	mAq	0.9	1.5	2.4	3.1	5.0	2.6	3.1	3.9	5.2
Water Conn.	in	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1
Dimension										
A	mm	900	1090	1090	1290	1520	1740	1950	2140	2140
B	mm	520	710	770	910	1140	1360	1570	1760	1760
C	mm	480	670	730	870	1100	1320	1530	1720	1720
N	pcs	1	1	1~2	1~2	2~3	3~4	3~4	3~4	3~4
Net Weight	Kg	22.2	25.9	27.2	30.1	36.0	44.0	51.0	57.0	60.0

Note：the capacity is based on the following conditions

Cooling – Entering air temp. 27℃ DB, 19.5℃ WB.

Entering chilled water temp 7℃ leaving temp rise 5℃.

Heating – Entering air temp 21℃ DB. Entering hot water temp 60℃.

Chiller Water Type Standard Specifications

50Hz

MODEL	UNIT	YFCR 300 S / 300 H	400 S / 400 H	500 S / 500 H	600 S / 600 H	800 S / 800 H	1000 S / 1000 H	1200 S / 1200 H	1400 S / 1400 H	1600 S / 1600 H
Cooling Capacity	Kcal/h	2,550	3,450	4,500	5,350	7,150	8,400	9,350	11,300	13,800
Heating Capacity	Kcal/h	4,200	5,900	7,100	8,460	11,040	13,200	14,900	18.000	21,900
Air volume	m^3/h	525	690	880	1,050	1,380	1,750	2,040	2,450	2,760
Fan										
Type		Double inlet Centrifugal Forward-curved Fan								
Number	pcs	1	1	2	2	2	3	4	4	4
Motor										
Power source		1 PH - 220V - 50Hz								
Type		E Class Insulation 3 Speed Permanent Split-capacitor Motor								
Number	pcs	1	1	1	1	1	2	2	2	2
Standard Type										
Ex. Static Pres.	mmAq	2	2	2	2	2	2	2	2	2
Power Input	W	45	55	60	67	83	128	134	166	166
Running Current	A	0.21	0.26	0.27	0.30	0.40	0.60	0.63	0.79	0.79
High Static Type										
Ex. Static Pres.	mmAq	4	4	4	4	4	4	4	4	4
Power Input	W	65	85	92	100	140	185	200	270	360
Running Current	A	0.31	0.41	0.44	0.48	0.67	0.84	0.96	1.29	1.64
Coil										
Type		Slit aluminum Fins mechanically bonded to copper tubes								
Operating Pers.	Kg/cm^2	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Water Flow	l/min	8.5	11.5	15	17.8	23.8	28	31.2	37.6	50.1
Head Loss	mAq	0.9	1.5	2.4	3.1	5.0	2.6	3.1	3.9	5.2
Water Conn.	in	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1
Dimension										
A	mm	900	1090	1090	1290	1520	1740	1950	2140	2140
B	mm	520	710	770	910	1140	1360	1570	1760	1760
C	mm	480	670	730	870	1100	1320	1530	1720	1720
N	pcs	1	1	1~2	1~2	2~3	3~4	3~4	3~4	3~4
Net Weight	Kg	22.2	25.9	27.2	30.1	36.0	44.0	51.0	57.0	60.0

Note : the capacity is based on the following conditions

Cooling – Entering air temp. 27℃ DB, 19.5℃ WB.
Entering chilled water temp 7℃ leaving temp rise 5℃.

Heating – Entering air temp 21℃ DB. Entering hot water temp 60℃.

Direct Expansion Type Standard Specifications

60Hz

MODEL	UNIT	YFCR - X								
		300 S	400 S	500 S	600 S	800 S	1000 S	1200 S	1400 S	1600 S
		300 H	400 H	500 H	600 H	800 H	1000 H	1200 H	1400 H	1600 H
Cooling Capacity	Kcal/h	2,550	3,450	4,500	5,350	7,150	8,400	9,350	11,300	13,800
Air volume	m^3/h	525	690	880	1,050	1,380	1,750	2,040	2,450	2,760
Fan										
Type		Double inlet Centrifugal Forward-curved Fan								
Number	pcs	1	1	2	2	2	3	4	4	4
Motor										
Power source		1 PH - 220V - 60Hz								
Type		E Class Insulation 3 Speed Permanent Split-capacitor Motor								
Number	pcs	1	1	1	1	1	2	2	2	2
Standard Type										
Ex. Static Pres.	mmAq	2	2	2	2	2	2	2	2	2
Power Input	W	45	55	60	67	83	128	134	166	166
Running Current	A	0.21	0.26	0.27	0.30	0.40	0.60	0.63	0.79	0.79
High Static Type										
Ex. Static Pres.	mmAq	4	4	4	4	4	4	4	4	4
Power Input	W	65	85	92	100	140	185	200	270	360
Running Current	A	0.31	0.41	0.44	0.48	0.67	0.84	0.96	1.29	1.64
Coil										
Type		Slit aluminum Fins mechanically bonded to copper tubes with direct-expansion								
Operating Pers.	Kg/cm^2	20								
Refrigerant		R-410A								
Liquid Line	in	1/4	1/4	1/4	1/4	1/4	3/8	3/8	1/2	1/2
Suction Line	in	3/8	1/2	1/2	1/2	5/8	5/8	5/8	3/4	3/4
Dimension										
A	mm	900	1090	1090	1290	1520	1740	1950	2140	2140
B	mm	520	710	770	910	1140	1360	1570	1760	1760
C	mm	480	670	730	870	1100	1320	1530	1720	1720
N	pcs	1	1	1~2	1~2	2~3	3~4	3~4	3~4	3~4
Net Weight	Kg	22.2	25.9	27.2	30.1	36.0	44.0	51.0	57.0	60.0

Note：the capacity is based on the following conditions

Cooling – Entering air temp. 27℃ DB, 19.5℃ WB.

Entering refrigerant evaporator temp 7℃.

Direct Expansion Type Standard Specifications

50Hz

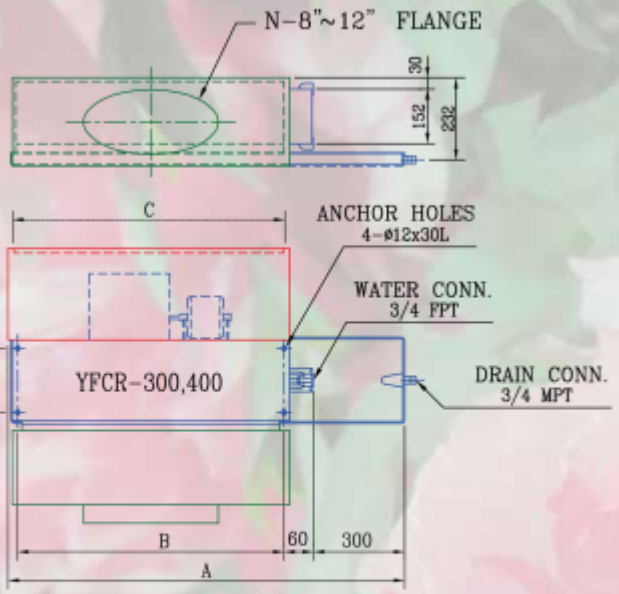
MODEL	UNIT	YFCR - X								
		300 S	400 S	500 S	600 S	800 S	1000 S	1200 S	1400 S	1600 S
		300 H	400 H	500 H	600 H	800 H	1000 H	1200 H	1400 H	1600 H
Cooling Capacity	Kcal/h	2,550	3,450	4,500	5,350	7,150	8,400	9,350	11,300	13,800
Air volume	m^3/h	525	690	880	1,050	1,380	1,750	2,040	2,450	2,760
Fan										
Type		Double inlet Centrifugal Forward-curved Fan								
Number	pcs	1	1	2	2	2	3	4	4	4
Motor										
Power source		1 PH - 220V - 50Hz								
Type		E Class Insulation 3 Speed Permanent Split-capacitor Motor								
Number	pcs	1	1	1	1	1	2	2	2	2
Standard Type										
Ex. Static Pres.	mmAq	2	2	2	2	2	2	2	2	2
Power Input	W	45	55	60	67	83	128	134	166	166
Running Current	A	0.21	0.26	0.27	0.30	0.40	0.60	0.63	0.79	0.79
High Static Type										
Ex. Static Pres.	mmAq	4	4	4	4	4	4	4	4	4
Power Input	W	65	85	92	100	140	185	200	270	360
Running Current	A	0.31	0.41	0.44	0.48	0.67	0.84	0.96	1.29	1.64
Coil										
Type		Slit aluminum Fins mechanically bonded to copper tubes with direct-expansion								
Operating Pers.	Kg/cm^2	20								
Refrigerant		R-410A								
Liquid Line	in	1/4	1/4	1/4	1/4	1/4	3/8	3/8	1/2	1/2
Suction Line	in	3/8	1/2	1/2	1/2	5/8	5/8	5/8	3/4	3/4
Dimension										
A	mm	900	1090	1090	1290	1520	1740	1950	2140	2140
B	mm	520	710	770	910	1140	1360	1570	1760	1760
C	mm	480	670	730	870	1100	1320	1530	1720	1720
N	pcs	1	1	1~2	1~2	2~3	3~4	3~4	3~4	3~4
Net Weight	Kg	22.2	25.9	27.2	30.1	36.0	44.0	51.0	57.0	60.0

Note：the capacity is based on the following conditions

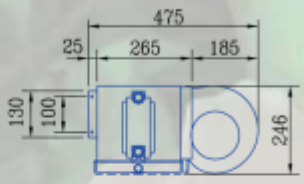
Cooling–Entering air temp. 27℃ DB, 19.5℃ WB.

Entering refrigerant evaporator temp 7℃.

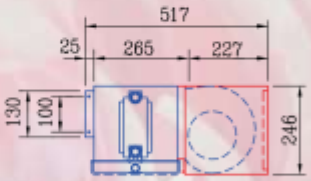
FAN COIL UNITS (Ceiling Concealed Type) Dimension

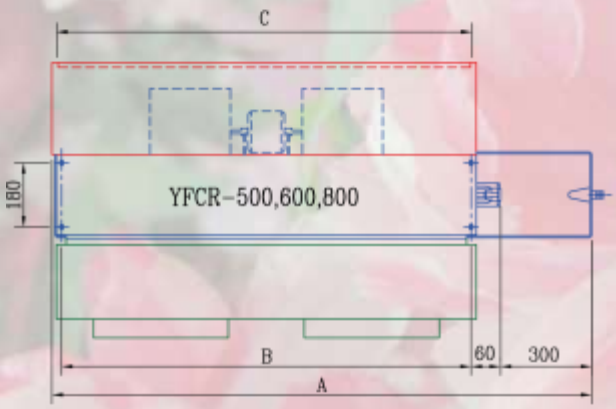


SIDE DIMENSION

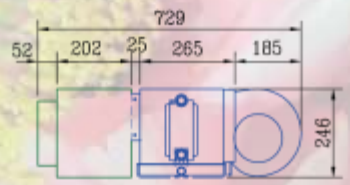


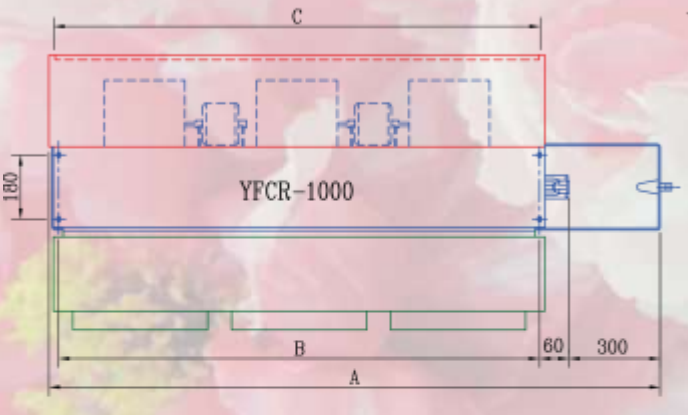
With Return-Air Box



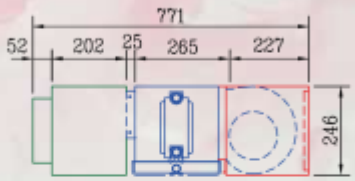


With Plenum Box

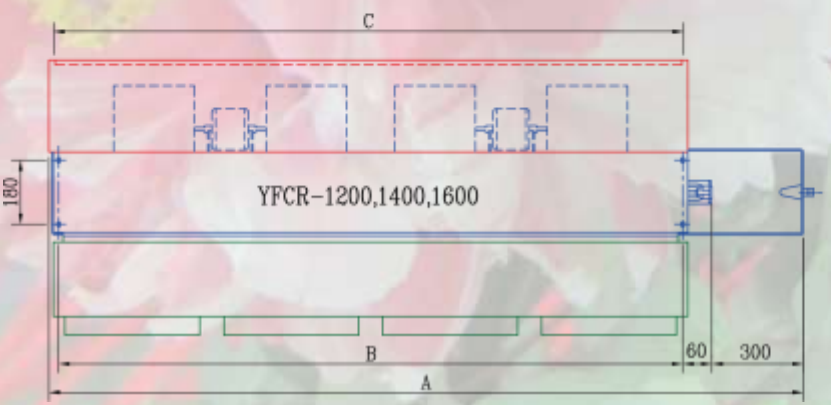




With Plenum & Return-Air Box



Note : 1. RED : With Return-Air Box
2. GREEN : With Plenum Box

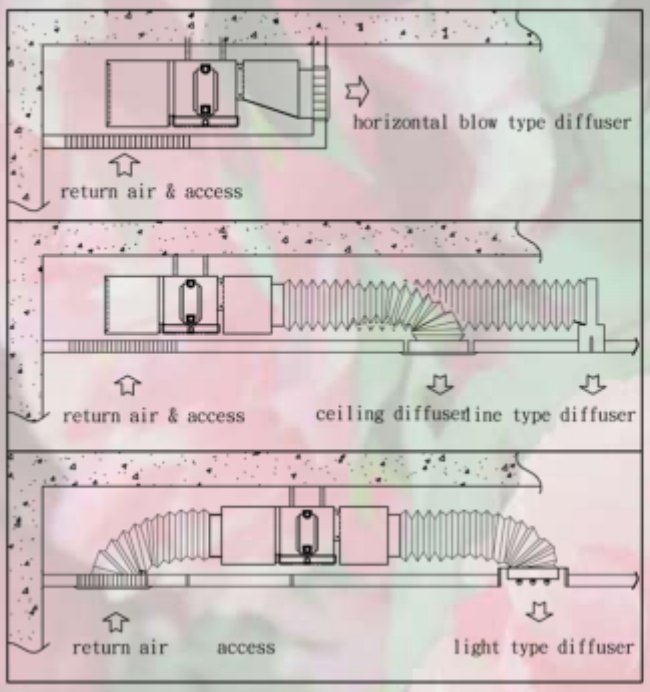


Fan Coil Units (Ceiling Concealed Type)
Construction and General Features

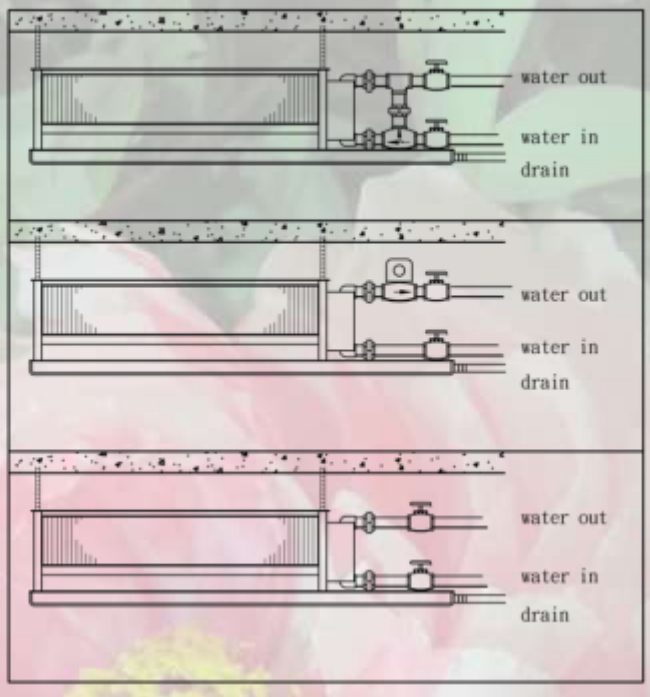
1. This series Fan Coil Unit have chiller water type & direct expansion type. Chiller water type use chiller units' chiller water make cooling: also use heat recovery water make heating. Direct expansion type use condensing units' refrigerant make cooling.
2. YANGFAN fan-coil units are fabricated of rigid galvanized steel casing, complete with quiet metal DIDW centrifugal fan, slit aluminum finned coil, and steel galvanized drain pan with 5mm high density self fire-extinguishing insulation, providing the units a compact appearance and a minimum 10-year life time as designed. Under correct installation, well maintenance and normal operation conditions, the units even work in trouble-free for more years than the designed life.
3. All units are using E class insulation 3-speed permanent split capacitor motor with its shaft normalized and chrome plating treated, no deflection, corrosion proof and durable. Ball bearings provide low-noise and save energy.
4. The coils are using slit aluminum fins mechanically and tightly bonded to seamless copper tubes, providing high heat transfer.
5. For minimizing the pressure drop, all units adopt the brass water header to distribute the water fluently and evenly. An air vent on the header makes air in the system easily released.
6. Just loosen the screws; exchange the positions of fan deck and air outlet flange, the piping direction has been immediately reversed. This special design for all units' means less time spent per unit during installation for arrangements with left-hand or right-hand connections.
7. For customers to install convenient. We are to present the ceiling concealed type fan coil units（YFCR）append to product . Thank you for choose our products.

- Fan coil units（Ceiling Concealed Type with Plenum）
- Fan coil units（Ceiling Concealed Type with Return-Air Box）
- Fan coil units（Ceiling Concealed Type with Plenum & Return-Air Box）

Air Duct Installation



Water Piping Installation



Electrical Wiring Diagram