

Sustainable Comfort



Duct Type Fan Coil Unit

Air flow: 680~4590m³/h

Cooling Capacity: 3.7~26.5kW



Duct Type Fan Coil Unit

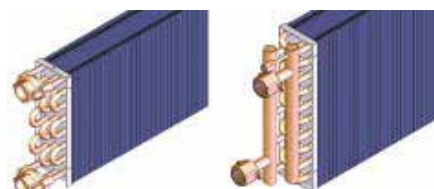
Model Nomenclature

FC - 400 N FCI TH 4 - L

Face to the air outlet side
L - Left connection, R - Right connection
No Mark: 3-row; 4: 4-row
Model Code : High-static Duct Type Unit
NFCI: Horizontal concealed type
NFCU: Horizontal cabinet type
Nominal Air Flow Rate: 1.7m³/h
CLIMAVENETA Fan Coil Unit

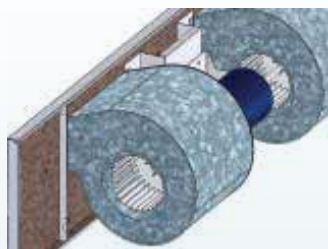
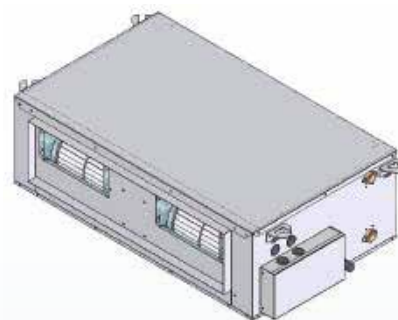
Product Configuration

Coil: Super Heat Transfer-Coils are made of seamless high quality copper tubes and hydrophilic aluminum fins. To ensure leak free and perfect contact for the most efficient heat transfer rate, the coils are expanded.



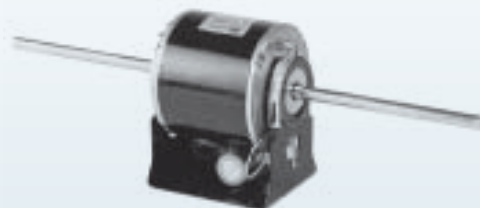
Draining Panel: Excellent steel draining panel is formed by mould, no Leakage. It is wholly insulated by 7mm PE insulating foam on the outside to prevent any condensation or leakage.

Casing: Good Appearance and Solid Construction Frame is made of high quality galvanized sheet steel, which has solid construction. Meanwhile, casing of open types is made of corrosion resistant treated steel plate. It is coated with heat hardened polyester based powder paint for better appearance.



Blower: Quiet Operation - fan blades are designed with forward-curved blades and material is galvanized. The scroll is fixed to the side plates by means of biting.

Motor: High Efficiency and Low Energy Consumption-Ball bearings are used to ensure longer life. The accurate alignment of the bearings and the use of rubber shock absorber guarantee the most smooth and quiet operation.



Technical Data

2-pipe 3-row

Model		FC-NFCITH/NFCUTH											
		400	500	600	800	1000	1200	1400	1600	1800	2000	2400	2700
Air Flow (m³/h)	H	680	850	1020	1360	1700	2040	2380	2720	3060	3400	4080	4590
	M	510	638	765	1020	1275	1530	1785	2040	2295	2550	3060	3443
	L	340	425	510	680	850	1020	1190	1360	1530	1700	2040	2295
Cooling Capacity (kW)	H	3.7	4.3	4.9	7.5	9.3	11.4	12.8	14.6	15.9	17.7	20.1	22.6
	M	3	3.5	4	6.1	7.5	9.2	10.4	11.8	12.9	14.3	16.3	18.3
	L	2.2	2.6	2.9	4.5	5.6	6.8	7.7	8.8	9.5	10.6	12.1	13.6
Heating Capacity (kW)	H	5.5	6.5	7.5	11.3	13.9	16.9	19.1	22.1	24.2	26.7	30.7	34.5
	M	4.4	5.1	5.9	8.9	11	13.4	15.1	17.5	19.2	21.1	24.3	27.3
	L	3	3.6	4.2	6.3	7.7	9.4	10.6	12.2	13.4	14.8	17	19.1
Water Flow (m³/h)		0.636	0.744	0.846	1.302	1.608	1.968	2.202	2.52	2.736	3.036	3.456	3.888
Water Pressure Drop (kPa)		13.6	18.1	22.9	10.8	15.7	26.2	32.1	7.8	9	8.8	11.1	12.7
ESP (Pa)		60	60	60	80	80	100	100	100	100	100	100	100
Fan	Type	Centrifugal fan (forward-curved galvanized steel fan)											
	Quantity	2	2	2	2	2	2	2	2	2	2	2	2
Motor	Type	3-speed single phase motor											
	Quantity	1	1	1	1	1	1	1	1	1	1	1	1
	Power Supply (V / Ph / Hz)	AC 1PH-220V-50Hz											
	Insulation Class	B											
	Power Input (W)	88	110	143	202	256	278	333	385	485	573	715	860
	Running Current (A)	0.4	0.5	0.7	0.9	1.2	1.3	1.5	1.8	2.2	2.6	3.3	3.9
Pipe Connection	Cooling Coil Conn. (in/out)	3/4"FPT											
	Drain Pipe	15											
Noise Level (dB(A))		44	45	47	52	52	56	60	60	62	66	66	68
Net Weight (kg)		33	34	35	45	56	70	70	90	90	98	98	110

1. The above cooling capacity is under entering air temperature 27°C DB/19.5 °C WB, chilled water inlet 7°C and water temperature difference is 5°C.
2. The above heating capacity is under entering air temperature 21°C DB and heating water inlet temperature 60°C, water flow and air flow same as cooling mode.
3. The above noise level is measured under back ground(<17dB(A)) .

Duct Type Fan Coil Unit

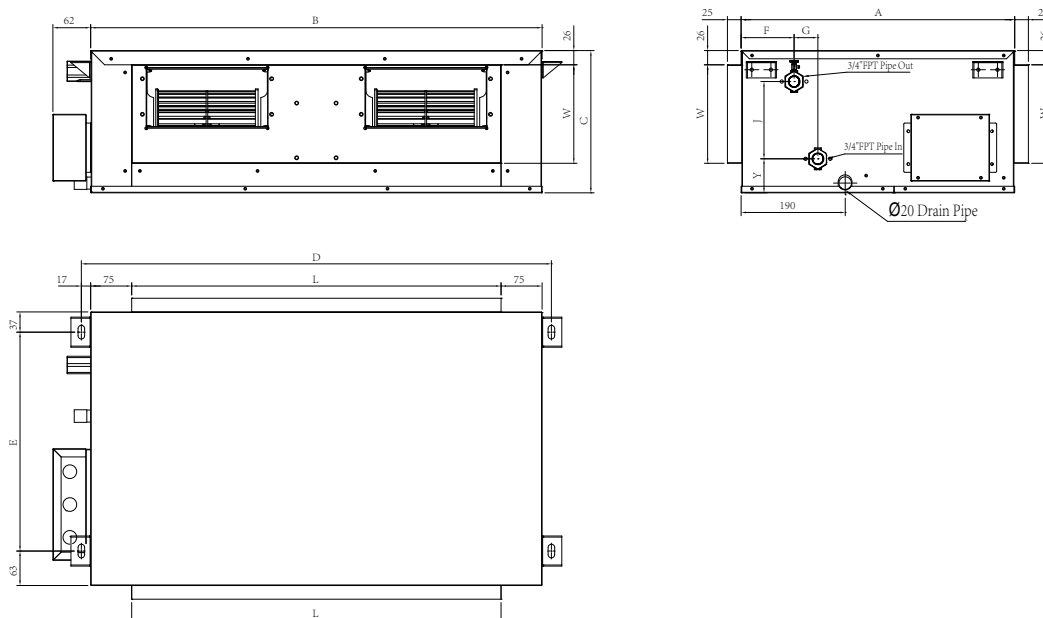
Technical Data

2-pipe 4-row

Model		FC-NFCITH/NFCUTH											
		400	500	600	800	1000	1200	1400	1600	1800	2000	2400	2700
Air Flow (m³/h)	H	680	850	1020	1360	1700	2040	2380	2720	3060	3400	4080	4590
	M	510	638	765	1020	1275	1530	1785	2040	2295	2550	3060	3443
	L	340	425	510	680	850	1020	1190	1360	1530	1700	2040	2295
Cooling Capacity (kW)	H	4.7	5.5	6.2	9	10.6	12.2	13.5	16.5	18	20.9	23.7	26.5
	M	3.8	4.5	5	7.3	8.6	9.9	10.9	13.4	14.6	16.9	19.2	21.5
	L	2.8	3.3	3.7	5.4	6.4	7.3	8.1	9.9	10.8	12.5	14.2	15.9
Heating Capacity (kW)	H	6.7	7.9	9.1	12.9	15.3	18	20.2	24.2	26.5	30.4	35	39
	M	5.3	6.3	7.2	10.2	12.1	14.2	16	19.2	21	24.1	27.7	30.9
	L	3.7	4.4	5	7.1	8.5	10	11.2	13.4	14.7	16.8	19.4	21.6
Water Flow (m³/h)		0.81	0.948	1.08	1.56	1.824	2.094	2.328	2.844	3.09	3.588	4.068	4.548
Water Pressure Drop (kPa)		12.4	16.6	20.9	33.2	44	9.4	11.4	12.9	15	15.8	19.7	21.3
ESP (Pa)		50	50	50	70	70	90	90	90	90	90	90	90
Fan	Type	Centrifugal fan (forward-curved galvanized steel fan)											
	Quantity	2	2	2	2	2	2	2	2	2	2	2	2
Motor	Type	3-speed single phase motor											
	Quantity	1	1	1	1	1	1	1	1	1	1	1	1
	Power Supply (V / Ph / Hz)	AC 1PH-220V-50Hz											
	Insulation Class	B											
	Power Input (W)	88	110	143	202	256	278	333	385	485	573	715	860
	Running Current (A)	0.4	0.5	0.7	0.9	1.2	1.3	1.5	1.8	2.2	2.6	3.3	3.9
Pipe Connection	Cooling Coil Conn. (in/out)	3/4"FPT											
	Drain Pipe	15											
Noise Level (dB(A))		44	45	47	52	52	56	58	58	60	60	60	62
Net Weight (kg)		34	35	36	47	58	72	73	93	93	102	103	117

1. The above cooling capacity is under entering air temperature 27°C DB/19.5 °C WB, chilled water inlet 7°C and water temperature difference is 5°C.
2. The above heating capacity is under entering air temperature 21°C DB and heating water inlet temperature 60°C, water flow and air flow same as cooling mode.
3. The above noise level is measured tested under back ground(<17dB(A)) .

Dimension Drawing



Model	Length	Width	Height	Hole		Air Inlet/Outlet		Pipe Connection							
								3-row 2-pipe				4-row 2-pipe			
	A	B	C	D	E	L	W	F	G	Y	J	F	G	Y	J
FC-NFCITH/NFCUTH	mm														
FC-400NFCITH	500	825	260	870	400	675	185	97	0	67	110	75.4	65	67	110
FC-500NFCITH	500	825	260	870	400	675	185	97	0	67	110	75.4	65	67	110
FC-600NFCITH	500	825	260	870	400	675	185	97	0	67	110	75.4	65	67	110
FC-800NFCITH	550	1000	315	1045	450	850	240	94	43.3	67	165	94	65	67	165
FC-1000NFCITH	550	1000	315	1045	450	850	240	94	43.3	67	165	94	65	67	165
FC-1200NFCITH	620	1200	315	1245	520	1050	240	94	43.3	63	165	94	65	63	165
FC-1400NFCITH	620	1200	315	1245	520	1050	240	94	43.3	63	165	94	65	63	165
FC-1600NFCITH	620	1400	350	1445	520	1250	275	94	43.3	63	200	94	65	63	200
FC-1800NFCITH	620	1400	350	1445	520	1250	275	94	43.3	63	200	94	65	63	200
FC-2000NFCITH	670	1400	400	1445	570	1250	325	94	43.3	63	250	94	65	63	250
FC-2400NFCITH	670	1400	400	1445	570	1250	325	94	43.3	63	250	94	65	63	250
FC-2700NFCITH	670	1400	450	1445	570	1250	375	94	43.3	63	250	94	65	63	250

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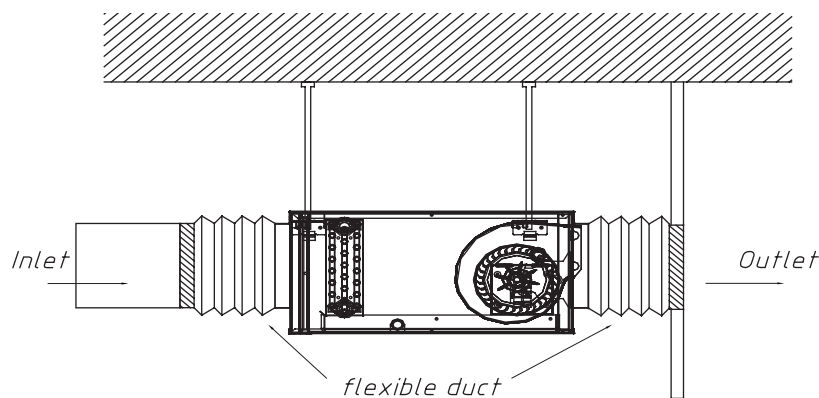
Installation Instruction

1. INSTALLATION

Pay attention to maintain the unit properly. The turning parts inside should not collide. Make sure there are no large floating debris into fan, motor or coil. Also make sure that the outlet side of a draining panel keeps 3 to 5 mm lower than the opposite side at least and water discharges well.

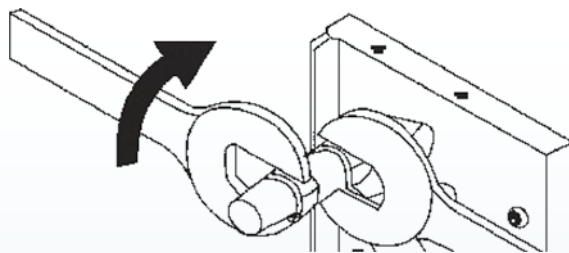
2. AIR DUCT CONNECTION

In order to restrict vibration transmitting use flexible duct on inlet/outlet of unit.

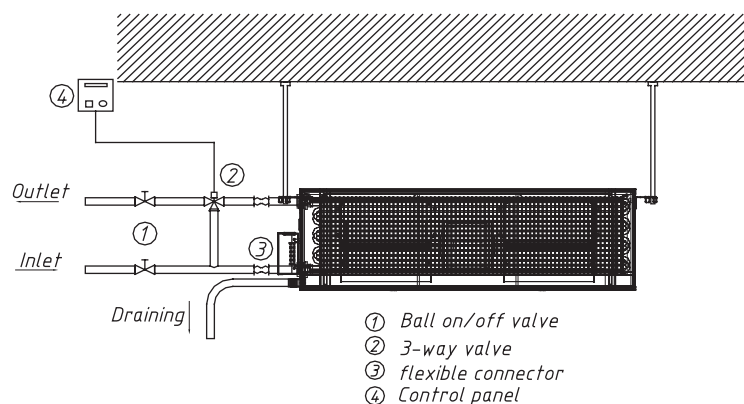


3. WATER CONNECTION

Fix the connections by tightening the fan coil fitting with the wrench against wrench system. Remember that the torque should not exceed 2.5kg.m.

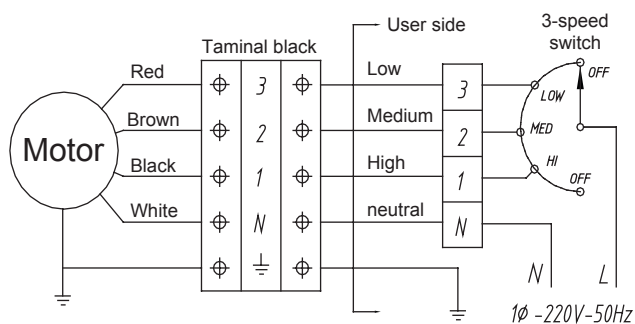


Make sure the correct direction of water flow. The cooling/heating water shall go through the coil from the bottom (inlet) to the top (outlet). The installation of flexible connector is advised to restrict vibration transmitting. To control room tempera use a room sensor connected with 3-way or 2-way valve actuator as on the diagram. Ball valves should be installed to adtjuurset water flow rate or stop up the flow if needed. The drain pipe shall keep a slope to make draining water goes freely. All pipes and regulating parts shall be installed. When connection is finished a leak test must be applied. Normally the testing pressure is 1.5 times more than working pressure.



4. WIRING

Make sure of the correct color when connecting wires. Make sure that the unit is grounded properly.



5. TEST RUN

After installation, carry out the test run before decorate the interior.

6. OPERATION

In summer time the cooling water temperature shall not be lower than 5 , otherwise the dew can destroy the surface of insulation and the interior will be damaged. In winter time the heating water temperature shall not exceed 65 . If the unit does not work for a long period in winter time the water must be discharged from the coils if there are no any special snitfreeze components. Otherwise it will break coils.

7. MAINTENANCE

In order to keep the normal air flow rate clean the filter and the coil permanently. Pay extra attention in case the unit has no cooling/ heating effect.



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