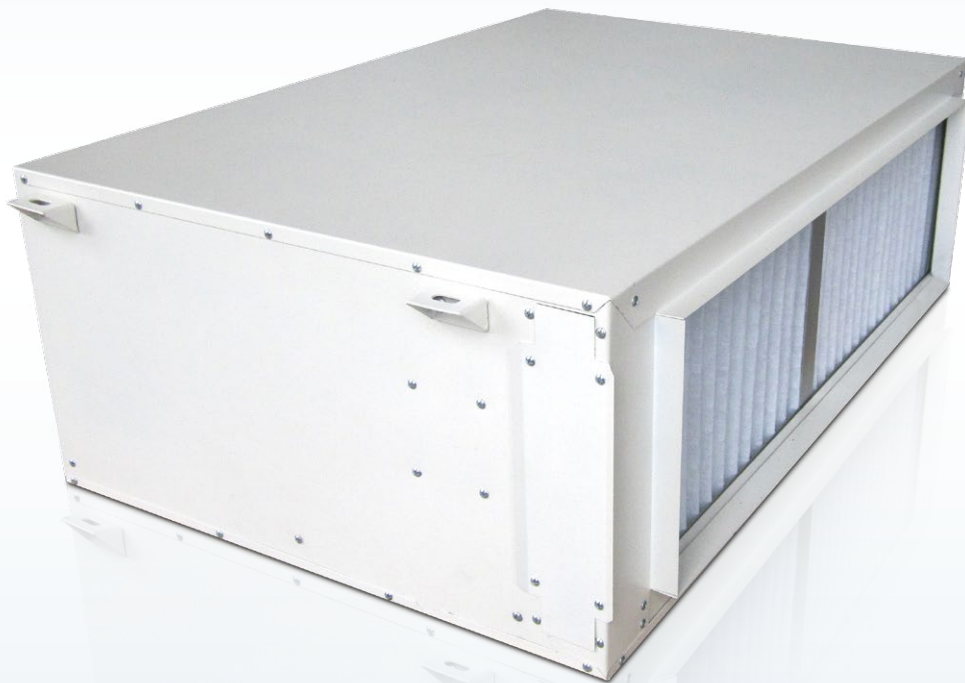


Sustainable Comfort

Duct Type Fan Coil Unit

Air flow: 680~4080m³/h

Cooling capacity: 3.8~22.8KW



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Cabinet and concealed duct type fan coil unit are optional;
Two-pipe system and four-pipe system are optional.

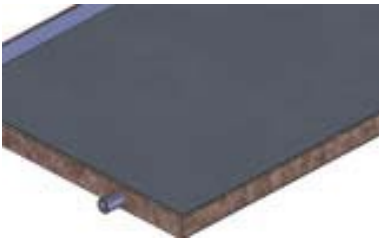
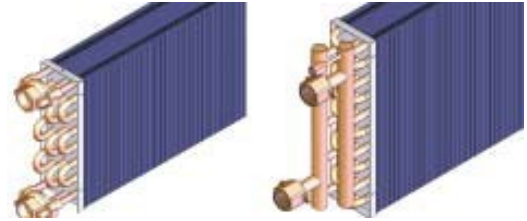
Model Nomenclature

FC - 400 NFCI TH 4 - L

- face to the air outlet side
- L - Left connection, R - Right connection
- No mark - 2 - pipe 4-row, 4 - 4 - pipe 3+1-row
- Model Code : High-static Duct Type Unit
- NFCI - Horizontal concealed type
NFCU - Horizontal cabinet type
- Normal Air Flow Rate: 1.7m³/h
- Climaveneta Fan Coil Unit

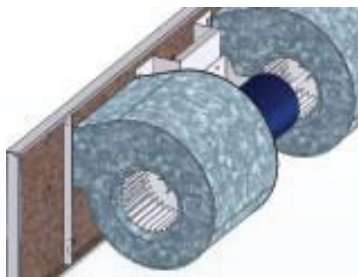
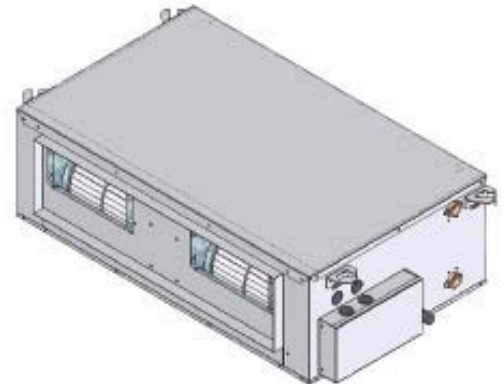
Product configuration

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.



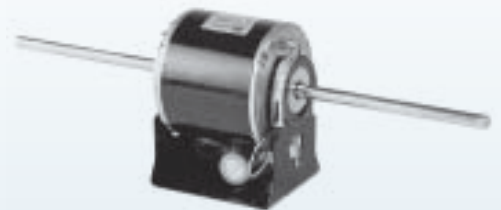
Draining Panel: Excellent steel draining panel is formed by mould, no Leakage. It is wholly insulated by 7mm PE insulating foam on the outside to prevent any condensation or leakage.

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.



Duct Type Fan Coil Unit

Technical data

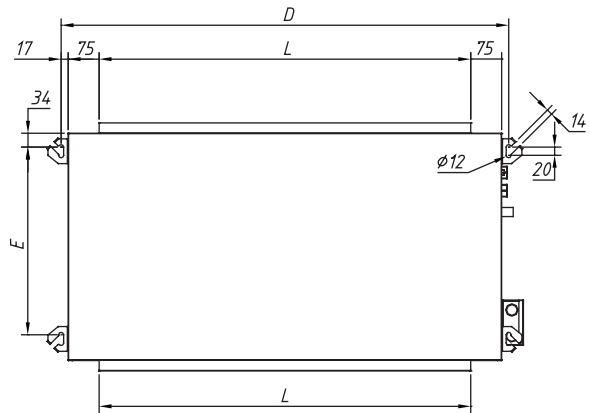
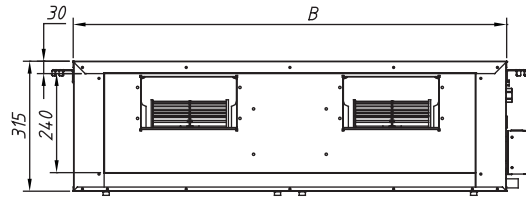
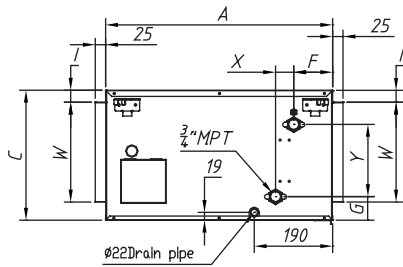
2-pipe 3-row

Model		FC-NFCITH/NFCUTH											
		400	500	600	800	1000	1200	1400	1600	1800	2000	2400	2700
Air Flow (m ³ /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 (m ³ /h)Water		0.636	0.744	0.846	1.302	1.608	1.968	2.202	2.52	2.736	3.036	3.456	3.888
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 wheel)											
	Quantity	2	2	2	2	2	2	2	2	2	2	2	2
Coil	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 1φ-220V-50Hz											
	Insulation Class	B											
	Power Input (W)	88	110	143	202	256	278	333	385	485	573	715	860
	Running Current	0.4	0.5	0.7	0.9	1.2	1.3	1.5	1.8	2.2	2.6	3.3	3.9
Motor	Cooling Coil Conn. (in/out)	3/4"FPT	3/4"FPT	3/4"FPT	3/4"FPT	3/4"FPT	3/4"FPT	3/4"FPT	3/4"FPT	3/4"FPT	3/4"FPT	3/4"FPT	3/4"FPT
	Drain Pipe	φ15	φ15	φ15	φ15	φ15	φ15	φ15	φ15	φ15	φ15	φ15	φ15
Noise Level (dB(A))		44	45	47	52	52	56	58	58	60	60	60	62
Net Weight (kg)		33	34	35	45	56	70	70	90	90	98	98	110

*1. The above cooling capacity is under entering air temp 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 temp 21°C DB and heating water inlet temp 60°C, water flow and air flow same as cooling mode.

3. The above noise level is tested under back ground(<17dB(A)) .



Model	Length	Width	Height	Hole		Air inlet/outlet			Connection			
	A	B	C	D	E	L	W	I	F	G	X	Y
FC-NFCITH/NFCUTH	mm											
400	550	550	825	260	859	455	675	550	550	550	550	550
500	550	550	825	260	859	455	675	550	550	550	550	550
600	550	550	825	260	859	455	675	550	550	550	550	550
800	600	600	1000	315	1084	505	850	600	600	600	600	600
1000	600	600	1000	315	1084	505	850	600	600	600	600	600
1200	670	670	1200	315	1284	575	1050	670	670	670	670	670
1400	670	670	1200	315	1284	575	1050	670	670	670	670	670
1600	670	670	1400	350	1434	575	1200	670	670	670	670	670
1800	670	670	1400	350	1434	575	1200	670	670	670	670	670
2000	720	720	1400	400	1434	575	1200	720	720	720	720	720
2400	720	720	1400	400	1534	705	1300	720	720	720	720	720
2700	720	720	1400	450	1534	705	1300	720	720	720	720	720

Duct Type Fan Coil Unit

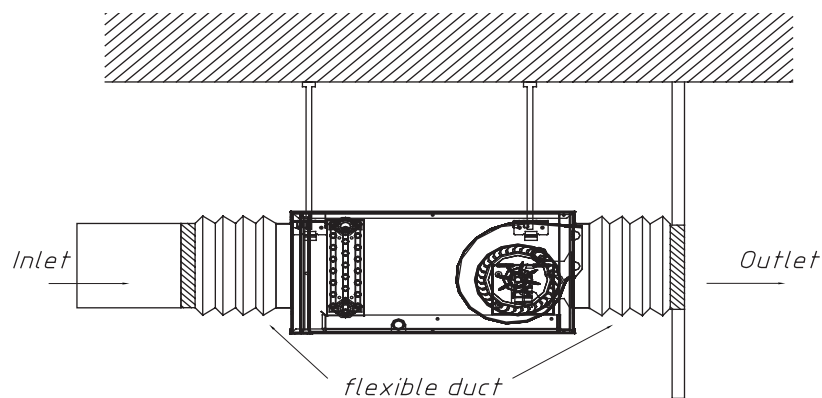
Installation And User Manual

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.

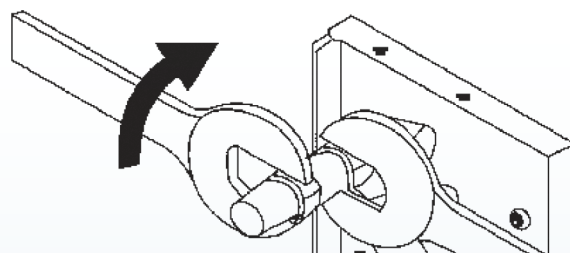
2. AIR DUCT CONNECTION

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

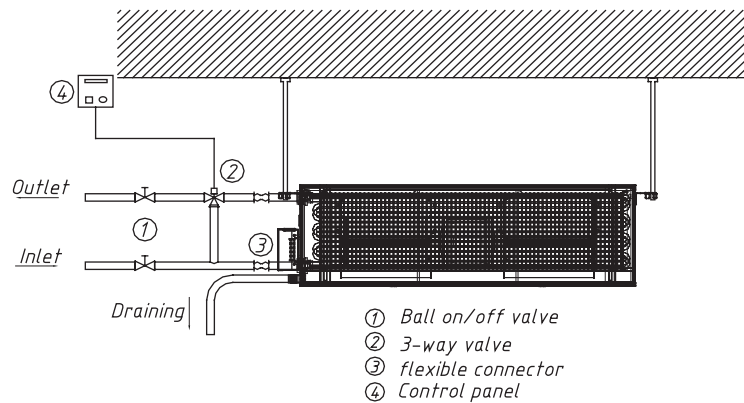


3. WATER CONNECTION

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.

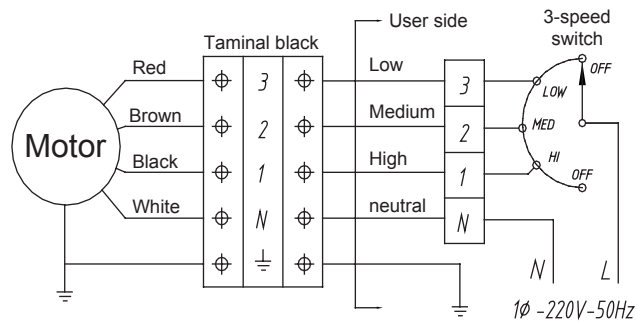


Make sure the correct direction of water flow. The cooling/heating water shall go through the coil from the bottom (inlet) to the top (outlet). The installation of flexible connector is advised to restrict vibration transmitting. To control room tempera use a room sensor connected with 3-way or 2-way 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. TEDT 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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