



• Innovation • Design • Sustainability

SN - SERIES



LN - SERIES



DS - SERIES



CB - SERIES



Experience  
**THE COMFORT** in your investment



Fan Coil Unit  
MEI Series

Ducted Type  
District Cooling / Chiller Application  
220 - 240/1/50Hz  
AC / EC Series

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## **ABOUT FINPOWER**

We at Finpower, were born out of sheer need of quality and affordable HVACR equipment for the ever-growing markets. Established in 2011, we strive to specialize in manufacture of Air-conditioning and Kitchen Ventilation equipment at the state of the art manufacturing facility at Dubai (UAE) and Mangalore (India).

## **ABOUT FAN COIL UNITS**

Fan Coil Units or FCU is a device used in a building to heat or cool a specific space. It is essentially made up of a motor with a fan, a heating or cooling coil connected to the building's central hot water and cold water system, and valve with a controller. In simple terms, it is a heat exchanger where the fan and motor brings air, which is a medium of transfer, to the copper coil. The coil is either having hotter or colder water so transfers the heat to the flowing air. This catalogue displays ceiling hideaway ducted type, exposed double skin and decorative type of units ranging from airflows of 200 CFM to 3000 CFM.

## **QUALITY ASSURANCE & WARRANTY**

Finpower Fan Coil Units are designed to be highly efficient with prevalent and accessible technology. Noise, Performance and Indoor Air Quality (IAQ) have been our main focus of improvement. The components are selected with great care with prior testing from renowned vendors who have various certification and high level of commitment. All the units are factory tested and undergo strict quality procedures before dispatch.

## COMPANY PROFILE



Finpower Aircon is an ISO certified organization focused in the manufacture of complete range of Air Conditioning, Refrigeration and Kitchen Ventilation equipment for the International markets.

Our specialty lies in the manufacture of highly complicated and challenging HVAC machines with special emphasis on Packaged units, Chillers and other airside products such as Fan Coil units, Fresh Air Handling Units, Ecology units and energy recovery units. Our design and engineering team evaluates the diverse specifications of customer and endeavors to provide precise machines at economical prices within committed delivery periods.

Our state of art manufacturing facility is located at Dubai Industrial City and Mangalore Baikampady Industrial area covering a spread of approx. 150,000 sq. ft. We are constantly evolving and diversifying to cater to global markets. We have supplied to many projects in various countries such as South Africa, Uganda, UAE, Qatar, Oman, Saudi Arabia, Iran, India etc.

Our service team is capable of handling any emergencies and are always ready to serve you. We have tagged all our units for identification and can quickly identify the components inside. We maintain inventory of most of the spares relevant to our warranty.

Finpower believes in providing value for money. Our esteemed customers have been assured of energy efficient, performance oriented, safety adhered and eco-friendly materials in all product lines. With the implementation of 5 step quality control process by our quality control experts we once again ensure our products are consistent of the highest grade of quality as required by customer.

With a strong local base of operations, Finpower is now ready to expand its distribution network and increase its brand value through global strategy of progressively developing and manufacturing more value added products, providing personalized services, and venturing into new international markets.



## FAN COIL UNITS



Finpower Fan coil units are statically & dynamically balanced DIDW metal fans for various application. The series include:

**SN SERIES:** Low static Units.

**LN SERIES:** High Static Units.

**CB SERIES:** Decorative type Units

**DS SERIES:** Double Skin Units

## MAJOR COMPONENTS

### Motor

#### 1. AC Motor (Standard Feature)

Motors are 3 speed permanent split capacitor type suitable for a power supply of 220-240V / 1 ph / 50 Hz. It is wound with class B insulation and the shaft rotates on a permanently lubricated ball race bearing which in turn rests on an anti-vibration rubber mounting. Resilient mounted motor are IP rated i.e. IP20 and higher IP can be provided to make the specification on motor which are built with thermal protection. Motors meet all the requirements of CE with explosion proof capacitor. Motors are provided with composite material conduit. All the motors comply to EN 60034-1. This design gives the motor a smooth trouble free long life of 10 years.

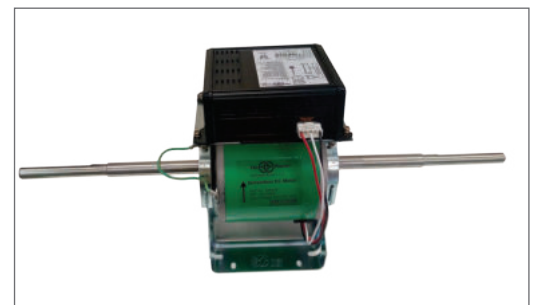
#### 2. EC Motor (Optional Feature)

Our green EC motor adopt "sensor less FOC (Field Oriented Control) drive technology", which omits the physical hall-effect sensors that must be installed inside the motor to detect the rotor's position, therefore, it is free from the risk of hall-effect sensors' failures, making EC motor more reliable and durable, and also making the EC motor and driver more cost effective.

- EC fans with integrated, active power-factor correction.
- Efficiency - The driver's efficiency is up to 94%
- Precise Speed Control - Excellent control ability at  $\pm 5$ rpm speed control.
- Protections - Rotor lock protection, current protection, power module temperature protection.
- Motor can be stepless i.e. fan can be operated from 0 to 10v based on room load or 3 speed controller is fixed outside for easy controller access.

#### Specifications:

- Nominal Voltage: AC 230V, Frequency: 50/60 HZ.
- Input Signal: 0-10 Vdc or 3 speed.
- Ingress Protection: IP 54
- Class B insulation as per site requirement.





### Copper coil

Coils are provided in all fan coil units and are made up of 3/8" OD copper tubes with mechanically expanded aluminum fins as a standard. The design emphasizes on the need of minimum air side and waterside pressure drop yet provide a highly efficient heat transfer. Various options are available on coils depending on the application. Coils are provided with air vent and drain plug for ease in commissioning and maintenance respectively. The coils are tested as per ASHRAE STD 33 & tested for performance with complete FCU's i.e. AHRI 440.

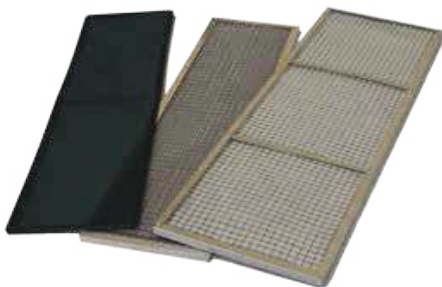
### Return Air Plenum

The return air plenum is provided as standard. All return air is brought into the unit through single side where the filter is mounted. Thus filtered air enters the unit keeping the coil clean for efficient heat transfer. The plenum also reduces the sound transmission through the motor and hence is insulated with class 'O' fire retardant nitrile rubber insulation.



### Fan

The unit is fitted with Double Inlet Double Width (DIDW) centrifugal, forward curved galvanized steel impeller. The volute housing is made of Galvanized steel giving it a rugged construction. The impellers are statically and dynamically balanced as per AMCA 204 before enclosing in the housing.



### Filter:

All the units are provided with high efficiency Nylon mesh woven media filter as standard. These are cleanable by water or compressed air and have long life. For higher efficiency we provide options of G2 or G3 grade filters, however, the performance has to be rated accordingly. The filters are tested as per ASHRAE 52.2 - 2017.

Filters come with standard lift up option, which is easy for removal & maintenance. However, optional filter frames with bottom, side or top removable access shall be provided on special request. Filters in split can be provided where access is constrained.

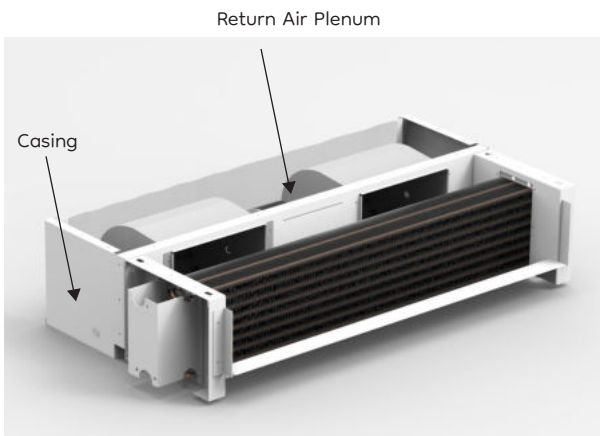


## MAJOR COMPONENTS



### Drain Pan

Drain pan are manufactured in house with steel & corrosion resistant Epoxy coated steel drain pan with 6mm nitrile class O insulation. We provide SS304 / SS316 along with 10mm, 19mm insulation as option. Drain pans are provided with drain nipple to ensure all the water is flow out & designed as per ASHRAE 62.1.



### Casing

The unit is constructed out of heavy duty galvanized steel complying ASTM A613. Anchor holes are provided at the top of the unit for hanging the unit safely. The casing is designed for an efficient sealing of air and water so that neither of them get mixed apart from heat exchange area. Units are by default with internal thermal and acoustic insulation to prevent any heat transfer and sweating.

### Electric Heater

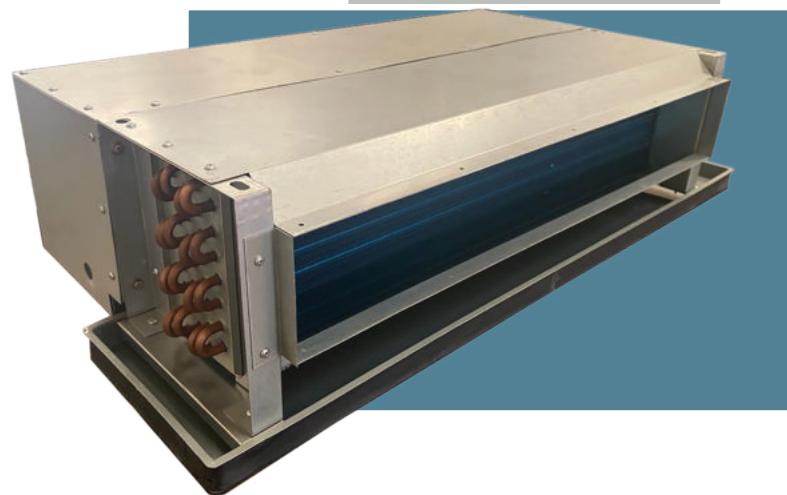
- Finned tubular Electric heating elements with auto reset thermal cutout can be provided inside the FCU for sensible heating
- Duct heaters with necessary safety like Auto reset thermal cutout, manual reset thermal cutout and airflow switch can be provided as additional fitment over the FCU for humidity control. The heaters are designed and arranged in the most efficient pattern for heat transfer.
- Different control options can be provided like stage, thyristor etc in the control panel of duct heaters.

### Hot water coils

- Single row or two row are included in i.e. 4 pipe system for hot water coil where ever the hotwater is available for heating.
- This are constructed out of 3/8" OD copper tube with aluminum fins with fin density of 9-10 FPI with brass connection.
- Hot water coils are used for sensible heating to maintaining the room temperature in cold regions or winter application, alternatively are used to maintain the humidity levels in the condition space.

### UV Lamps

- Ultra-violet lamps can be provided after the cooling coil so that their radiation will ensure to eliminate the bacteria and reduce the formation of algae on the coil surface and other exposed area.
- Having coverage area of 72- 125  $\mu\text{W}/\text{CM}^2$  at 254 nm with minimum power consumption, the UVC lights are great protection for various air borne diseases.
- UVC lamps are designed based on average life of 16,000 hours based on standard air quality and steady power supply.



**Ceiling Suspended Concealed Fan Coil Unit**

Model	SN-02	SN-03	SN-04	SN-06	SN-08	SN-10	SN-12	SN-14
Nominal Airflow (CFM)	200	300	400	600	800	1000	1200	1400
Nominal Airflow (L/s)	94	142	189	283	378	472	566	661
No of fan blower	1	1	2	2	2	3	4	4
Maximum Power input(W) (220~240V/1Ph/50Hz @ freeflow	70	141	176	206	263	347	412	526



## SN SERIES - FEATURES



### Standard

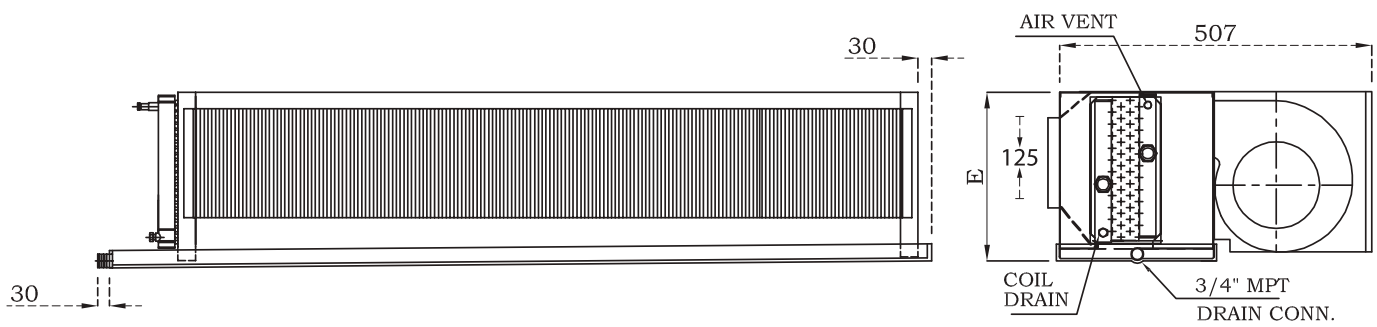
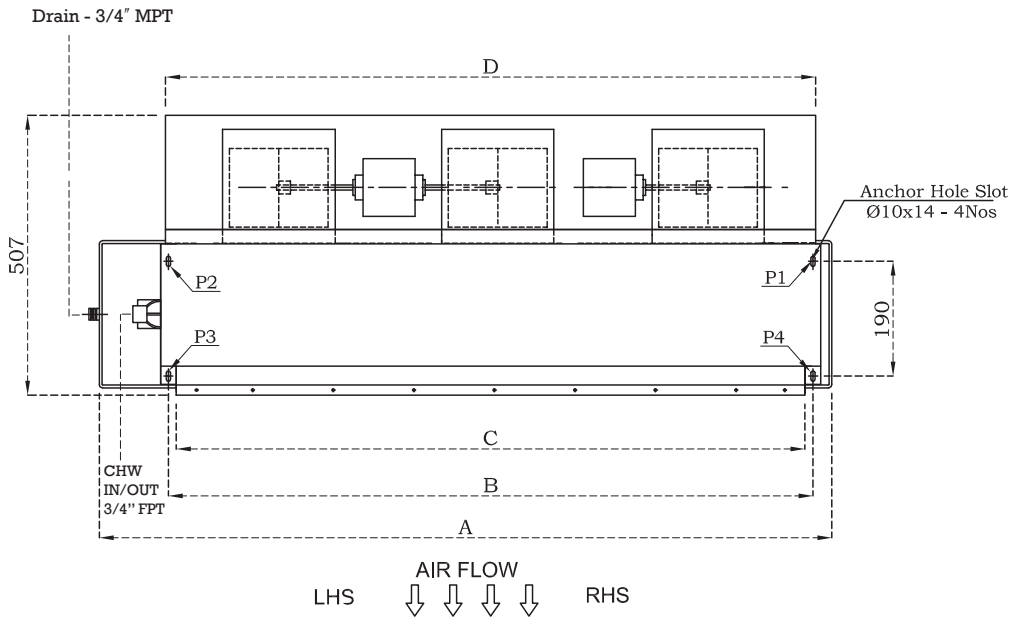
- Airflow range from 200 Cfm to 1400 Cfm.
- Free flow / decorative can be provided ranging from 20Pa to ESP of 100Pa.
- Coil - number of rows from 2 to 4 rows.
- Transfer Medium - chilled water.
- $\Delta T$  - District Cooling or chiller
- 2 or 4 pipe system.
- Galvanized Iron (GI) sheet casing, well-insulated and robust construction.
- Forward curved DIDW fan with statically and dynamically balanced impeller to handle medium static with low noise.
- 3 speeds permanent split capacitor (PSC) run, thermally protected motor.
- Maintenance free permanently lubricated ball bearing.
- AC 220 ~ 240 volt, 50 Hz, single phase, Class B insulated motors with anti-vibration rubber mounts.
- All motors are wired to the junction box for easy connection. Wiring diagram is pasted beside to identify neutral and various speeds.
- Insulated return air plenum and filter.
- Access panel provided below plenum for access to motor and fan.
- Aluminum fins are mechanically bonded over 3/8" OD copper tubes for higher efficiency.
- Brass distributor with air vent and drain plug.
- Low height for fitting in ceiling voids.
- Powder coated / epoxy coated drain pan.
- Coarse filter with up to 65% efficiency.

### Optional\*

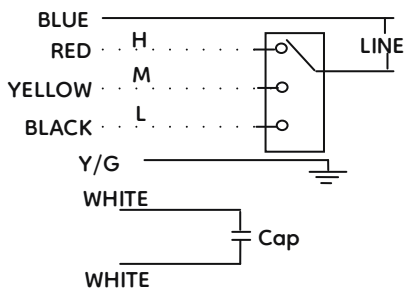
- Fan Coil Unit with EC (electronically commutated) Motor Option for power saving & precise control.
- As per IAQ requirements we can provide higher grade filters however performance will need to be checked with us as a consequence.
- Split filters can be provided for easy maintenance.
- Bottom removable drop down filters when return is ducted can be provided.
- Bottom return plenum can also be provided.
- Cutouts can be provided on the plenum sides for treated fresh air entry mixing.
- Copper fins can be provided for highly corrosive environment.
- Aluminum fins with coating or fins produced by using coated aluminum fin stock can be provided.
- Class F insulated motors and higher IP ratings available.
- Stainless steel drain pans.
- Extended drain pan and auxiliary drain pans.
- 2 way / 3 way valves with actuators.
- Heating options - electric and hot water.
- 60 Hz motor.
- Medium - glycol and refrigerant.
- Decorative type (CB series): Decorative Units shall be provided with powder coating from Standard RAL Chart to meet interior requirements.
- Double skin (DS model): Insulation options available are Nitrile rubber, rockwool, and puff insulation. Double skins can also be provided on decorative units.

\* For all optional items lead times can change. Please discuss with sales team / distributor for updated lead times.

# SN SERIES - DIMENSIONAL DRAWINGS



## Wiring Diagram



Point Loads				
Model	Point Load (kgs)			
	P1	P2	P3	P4
SN-02/03	8.98	8.98	4.39	4.39
SN-04	11.76	11.76	5.74	5.74
SN-06	13.37	13.37	6.68	6.68
SN-08	15.74	15.74	7.93	7.93
SN-10	21.09	21.09	9.29	9.29
SN-12	24.32	24.32	10.95	10.95
SN-14	26.53	26.53	11.54	11.54

Dimensional Details											
Model	Dimensions (mm)					Number of		Std Filter Dim (mm)	Weight (kgs)		System Volume(ltr)
	A	B	C	D	E	Fan(s)	Motor (s)		Dead	Operating	
SN-02/03	692	492	457	507	265	1	1	425 x 228	25.8	26.7	0.9
SN - 04	922	721	686	736	265	2	1	676 x 228	33.6	35.0	1.4
SN - 06	1097	873	838	888	265	2	1	832 x 228	38.3	40.0	1.7
SN - 08	1307	1102	1067	1117	265	2	1	1060 x 228	45.2	47.3	2.1
SN - 10	1532	1331	1296	1346	265	3	2	1291 x 228	58.1	60.7	2.6
SN - 12	1825	1610	1575	1625	265	4	2	1570 x 228	67.3	70.5	3.2
SN - 14	1825	1559	1524	1574	<b>304</b>	4	2	1520 x 278	72.3	76.1	3.8

Note : For dimensional details of (CB) and (DS) please contact the Sales team / local distributor.

# SN SERIES - PERFORMANCE DATA

Cooling capacity in Kilowatt - Medium Speed @ 50Pa ESP  
4 Row Coils



Entering Air Condition DB / WB 24/17.8 °C (55% RH)								
Unit Size	Water Flow L/s	W.P.D. kPa	Entering Water Temp °C					
			5		7		9	
			SH	TH	SH	TH	SH	TH
02	0.09	8.83	1.51	2.22	1.37	1.90	1.22	1.57
	0.10	10.79	1.53	2.29	1.39	1.96	1.26	1.62
	0.15	20.59	1.64	2.52	1.49	2.16	1.32	1.79
	0.20	34.32	1.69	2.64	1.53	2.29	1.36	1.89
03	0.09	9.81	2.27	2.98	2.08	2.53	1.91	2.10
	0.10	11.77	2.29	3.09	2.13	2.63	1.93	2.20
	0.15	23.54	2.52	3.60	2.30	3.06	2.09	2.52
	0.20	38.25	2.63	3.87	2.41	3.31	2.15	2.73
04	0.09	13.73	3.01	3.81	2.80	3.26	2.61	2.72
	0.10	16.67	3.12	4.00	2.90	3.41	2.65	2.85
	0.15	32.36	3.41	4.74	3.12	4.00	2.87	3.34
	0.20	53.94	3.65	5.21	3.29	4.45	2.98	3.68
06	0.09	15.69	3.31	4.13	3.07	3.53	2.87	2.96
	0.10	19.61	3.39	4.34	3.15	3.71	2.88	3.10
	0.15	39.23	3.74	5.19	3.43	4.40	3.15	3.67
	0.20	63.75	3.95	5.72	3.62	4.90	3.28	4.05
08	0.09	19.61	4.27	4.85	3.98	4.19	3.61	3.61
	0.10	24.52	4.39	5.16	4.06	4.42	3.76	3.76
	0.15	48.05	4.83	6.27	4.41	5.38	4.09	4.49
	0.20	79.44	5.17	7.08	4.69	6.02	4.30	5.00
10	0.13	6.86	5.16	6.08	4.82	5.24	4.47	4.47
	0.15	8.83	5.38	6.56	4.96	5.64	4.67	4.72
	0.17	10.79	5.55	7.03	5.14	5.98	4.77	5.02
	0.20	14.71	5.76	7.58	5.35	6.44	4.95	5.38
12	0.13	8.83	6.21	6.90	5.90	5.96	5.24	5.24
	0.15	10.79	6.53	7.51	6.02	6.47	5.55	5.55
	0.17	12.75	6.73	8.01	6.21	6.82	5.80	5.80
	0.20	17.65	6.99	8.74	6.44	7.48	5.99	6.24
14	0.13	12.75	7.23	8.22	6.85	7.06	6.15	6.15
	0.15	15.69	7.47	8.79	7.01	7.54	6.44	6.44
	0.17	20.59	7.85	9.57	7.22	8.20	6.77	6.90
	0.20	31.38	8.32	10.67	7.61	9.17	7.02	7.63

## Cooling capacity in Watt - Medium Speed @ 50Pa ESP - 4 Row Coils

Entering Air Condition DB / WB 26/19.5 °C (55% RH)								
Unit Size	Water Flow L/sec	W.P.D. kPa	Entering Water Temp °C					
			5		7		9	
			SH	TH	SH	TH	SH	TH
02	0.09	8.83	1.64	2.60	1.49	2.26	1.36	1.92
	0.10	10.7	1.66	2.69	1.52	2.34	1.37	1.99
	0.15	20.5	1.78	2.97	1.64	2.60	1.47	2.20
	0.20	34.3	1.86	3.11	1.69	2.73	1.52	2.34
03	0.09	9.81	2.43	3.47	2.26	3.01	2.08	2.53
	0.10	11.7	2.47	3.63	2.29	3.14	2.11	2.64
	0.15	23.5	2.74	4.22	2.49	3.66	2.30	3.10
	0.20	38.2	2.87	4.56	2.62	3.97	2.39	3.37
04	0.09	13.7	3.21	4.39	3.01	3.81	2.80	3.25
	0.10	16.6	3.33	4.63	3.10	4.03	2.90	3.41
	0.15	32.3	3.69	5.50	3.39	4.78	3.11	4.04
	0.20	53.9	3.89	6.08	3.59	5.28	3.27	4.48
06	0.09	15.6	3.53	4.78	3.31	4.14	3.07	3.53
	0.10	19.6	3.63	5.05	3.39	4.35	3.16	3.71
	0.15	39.2	4.05	6.04	3.72	5.25	3.41	4.43
	0.20	63.7	4.27	6.68	3.94	5.80	3.59	4.92
08	0.09	19.6	4.52	5.58	4.23	4.86	3.99	4.20
	0.10	24.5	4.64	5.94	4.34	5.17	4.06	4.42
	0.15	48.0	5.14	7.34	4.75	6.33	4.42	5.39
	0.20	79.4	5.54	8.26	5.09	7.17	4.69	6.10
10	0.13	6.86	5.56	7.04	5.16	6.07	4.85	5.21
	0.15	8.83	5.73	7.64	5.36	6.61	5.00	5.62
	0.17	10.79	5.95	8.14	5.56	7.03	5.14	5.98
	0.20	14.71	6.17	8.81	5.72	7.62	5.31	6.47
12	0.13	8.83	6.65	7.92	6.23	6.93	5.90	5.96
	0.15	10.79	6.91	8.64	6.51	7.49	6.12	6.44
	0.17	12.75	7.14	9.27	6.68	8.05	6.25	6.87
	0.20	17.65	7.37	10.09	6.99	8.74	6.43	7.47
14	0.13	12.75	7.72	9.41	7.36	8.17	6.86	7.08
	0.15	15.69	7.97	10.09	7.48	8.80	7.01	7.54
	0.17	20.59	8.42	11.08	7.79	9.62	7.27	8.17
	0.20	31.38	8.93	12.40	8.27	10.74	7.61	9.17

Note: Please contact the sales team / local distributor for special requirements.  
Contact manufacturer/distributor for capacity correction factor at different ESP's.  
ISP is considered with standard components.  
Airflow mentioned is at dry coil condition.

TH = Total cooling in KW      SH= Sensible Cooling in KW      ΔWT= Water Delta T      WPD=Water Pressure Drop

# AHRI STANDARD MODELS – SN SERIES

High speed @50pa, On coil = 26/19.6 °C



## AC motor -Chiller application - 4Row

Model Number	Air Flow Rating (L/s)	Water Flow Rate (L/s)	Water Pressure Drop (Kpa)	Total Capacity (Kw)	Sensible Capacity (Kw)	Water Temperature Rise (deg F)	Power Input (W)	Frequency (Hz)
SN-S-02-H-4RC-C-AM-P	133	0.11	1.94	2.491	1.84	10	50	50
SN-S-03-H-4RC-C-AM-P	172	0.14	2.93	3.241	2.40	10	101	50
SN-S-04-H-4RC-C-AM-P	252	0.24	10.76	5.421	3.74	10	126	50
SN-S-06-H-4RC-C-AM-P	303	0.29	18.56	6.672	3.92	10	147	50
SN-S-08-H-4RC-C-AM-P	419	0.41	41.04	9.341	5.61	10	188	50
SN-S-10-H-4RC-C-AM-P	474	0.44	8.79	9.994	6.49	10	248	50
SN-S-12-H-4RC-C-AM-P	557	0.54	14.65	12.171	7.83	10	294	50
SN-S-14-H-4RC-C-AM-P	684	0.67	25.41	15.324	9.17	10	376	50

## AC motor -District Cooling application - 4Row

Model Number	Air Flow Rating (L/s)	Water Flow Rate (L/s)	Water Pressure Drop (Kpa)	Total Capacity (Kw)	Sensible Capacity (Kw)	Water Temperature Rise (deg F)	Power Input (W)	Frequency (Hz)
SN-S-02-H-4RC-D-AM-P	133	0.06	4.87	2.23	1.76	15	50	50
SN-S-03-H-4RC-D-AM-P	172	0.08	8.79	2.87	2.27	15	101	50
SN-S-04-H-4RC-D-AM-P	252	0.13	26.39	4.69	3.47	15	126	50
SN-S-06-H-4RC-D-AM-P	303	0.14	5.86	4.96	3.92	15	147	50
SN-S-08-H-4RC-D-AM-P	419	0.21	12.70	7.29	5.61	15	188	50
SN-S-10-H-4RC-D-AM-P	474	0.25	21.49	8.77	6.49	15	248	50
SN-S-12-H-4RC-D-AM-P	557	0.30	34.19	10.59	7.83	15	294	50
SN-S-14-H-4RC-D-AM-P	684	0.33	7.83	11.76	9.17	15	376	50

## EC motor -Chiller application - 4Row

Model Number	Air Flow Rating (L/s)	Water Flow Rate (L/s)	Water Pressure Drop (Kpa)	Total Capacity (Kw)	Sensible Capacity (Kw)	Water Temperature Rise (deg F)	Power Input (W)	Frequency (Hz)
SN-S-02-H-4RC-C-EM-P	133	0.11	1.94	2.491	1.84	10	35	50
SN-S-03-H-4RC-C-EM-P	172	0.14	2.93	3.241	2.40	10	70	50
SN-S-04-H-4RC-C-EM-P	252	0.24	10.76	5.421	3.74	10	88	50
SN-S-06-H-4RC-C-EM-P	303	0.29	18.56	6.672	3.92	10	103	50
SN-S-08-H-4RC-C-EM-P	419	0.41	41.04	9.341	5.61	10	131	50
SN-S-10-H-4RC-C-EM-P	474	0.44	8.79	9.994	6.49	10	173	50
SN-S-12-H-4RC-C-EM-P	557	0.54	14.65	12.171	7.83	10	206	50
SN-S-14-H-4RC-C-EM-P	684	0.67	25.41	15.324	9.17	10	263	50

## EC motor -District Cooling application - 4Row

Model Number	Air Flow Rating (L/s)	Water Flow Rate (L/s)	Water Pressure Drop (Kpa)	Total Capacity (Kw)	Sensible Capacity (Kw)	Water Temperature Rise (deg F)	Power Input (W)	Frequency (Hz)
SN-S-02-H-4RC-D-EM-P	133	0.06	4.87	2.23	1.76	15	35	50
SN-S-03-H-4RC-D-EM-P	172	0.08	8.79	2.87	2.27	15	70	50
SN-S-04-H-4RC-D-EM-P	252	0.13	26.39	4.69	3.47	15	88	50
SN-S-06-H-4RC-D-EM-P	303	0.14	5.86	4.96	3.92	15	103	50
SN-S-08-H-4RC-D-EM-P	419	0.21	12.70	7.29	5.61	15	131	50
SN-S-10-H-4RC-D-EM-P	474	0.25	21.49	8.77	6.49	15	173	50
SN-S-12-H-4RC-D-EM-P	557	0.30	34.19	10.59	7.83	15	206	50
SN-S-14-H-4RC-D-EM-P	684	0.33	7.83	11.76	9.17	15	263	50

Airflow mentioned is at dry coil conditions.

• Water in/out = 7/12 (chiller application) •Water in/out = 7/15(District cooling application)

## SN SERIES - AIRFLOW DATA



Airflow in L/S Fan speed = High						
Model	0	20	40	60	80	100
SN-02	160	143	125	109	94	78
SN-03	239	213	187	163	140	117
SN-04	323	296	269	243	217	191
SN-06	375	348	321	290	255	219
SN-08	468	451	434	412	385	359
SN-10	569	546	512	456	388	337
SN-12	692	641	590	537	481	425
SN-14	785	748	712	668	617	566

Airflow in L/S Fan Speed = Medium						
Model	0	20	40	60	80	100
SN-02	120	110	99	88	75	63
SN-03	213	195	176	156	134	112
SN-04	273	258	243	220	188	156
SN-06	326	299	272	244	214	185
SN-08	397	381	365	345	321	297
SN-10	493	462	438	395	334	278
SN-12	621	589	557	511	451	392
SN-14	698	667	637	594	540	486

Airflow in L/S Fan Speed = Low						
Model	0	20	40	60	80	100
SN-02	102	94	84	75	64	54
SN-03	181	165	150	132	114	95
SN-04	232	219	206	187	160	133
SN-06	277	254	231	207	182	157
SN-08	337	324	310	293	273	253
SN-10	373	351	332	301	257	214
SN-12	528	501	473	434	384	333
SN-14	593	567	541	505	459	413

Note: The airflow provided are without the plenum and filter. For further information, please contact the local distributor. Please contact the sales team / local distributor. Above airflow are at dry coil conditions

# SN SERIES - SOUND PRESSURE LEVEL SPL

Tested in anechoic chamber in accordance with ISO 3745 measured at freeflow.



Discharge Sound Pressure level dB(A)									
(In accordance with ISO 3745 standard at freeflow)									
Fan Speed	Unit Size	Octave Band Center Frequency Hz							
		125	250	500	1000	2000	4000	8000	NC
H	02	31	34	28	13	<10	<10	<10	25
	03	32	35	29	14	10	10	<10	25
	04	34	37	31	16	12	12	<10	25
	06	35	38	32	17	13	13	10	30
	08	37	40	34	19	15	15	12	30
	10	38	41	35	20	16	16	13	30
	12	39	42	36	21	17	17	14	35
	14	40	43	37	22	18	18	15	35
M	02	28	31	25	10	<10	<10	<10	20
	03	29	32	26	11	<10	<10	<10	20
	04	31	34	28	13	<10	<10	<10	25
	06	32	35	29	14	10	<10	<10	25
	08	34	37	31	16	12	11	<10	25
	10	35	38	32	17	13	12	<10	30
	12	36	39	33	18	14	13	<10	30
	14	37	40	34	19	15	14	<10	30
L	02	23	29	19	<10	<10	<10	<10	15
	03	24	30	20	<10	<10	<10	<10	20
	04	26	32	22	<10	<10	<10	<10	20
	06	27	33	23	<10	<10	<10	<10	20
	08	29	35	25	10	<10	<10	<10	25
	10	30	36	26	11	<10	<10	<10	25
	12	31	37	27	12	<10	<10	<10	25
	14	32	38	28	13	<10	<10	<10	25

Suction Sound Pressure level dB(A)									
(In accordance with ISO 3745 standard at freeflow)									
Fan Speed	Unit Size	Octave Band Center Frequency Hz							
		125	250	500	1000	2000	4000	8000	NC
H	02	37	43	42	40	36	30	21	40
	03	38	44	43	41	37	31	22	40
	04	40	46	45	43	39	33	24	45
	06	41	47	46	44	40	34	25	45
	08	43	49	48	46	42	36	27	45
	10	44	50	49	47	43	37	28	50
	12	45	51	50	48	44	38	29	50
	14	46	52	51	49	45	39	30	50
M	02	35	41	39	37	32	26	17	40
	03	36	42	40	38	33	27	18	40
	04	38	44	42	40	35	29	20	40
	06	39	45	43	41	36	30	21	45
	08	41	47	45	43	38	32	23	45
	10	42	48	46	44	39	33	24	45
	12	43	49	47	45	40	34	25	45
	14	44	50	48	46	41	35	26	45
L	02	29	39	34	31	25	18	8	30
	03	30	40	35	32	26	19	9	35
	04	32	42	37	34	28	21	11	35
	06	33	43	38	35	29	22	12	35
	08	35	45	40	37	31	24	14	40
	10	36	46	41	38	32	25	15	40
	12	37	47	42	39	33	26	16	40
	14	38	48	43	40	34	27	17	40

## FAN COIL UNIT - LN SERIES



### Ceiling Suspended Concealed Fan Coil Unit

Model	LN-06	LN-08	LN-10	LN-12	LN-14	LN-18	LN-24
Nominal Airflow (CFM)	600	800	1000	1200	1500	1800	2400
Nominal Airflow (L/s)	283	378	472	566	708	850	1133
No of fan blower	1	1	2	2	2	3	4
Maximum Power input(W) (220~240V/1Ph/50Hz @ freeflow	297	350	498	545	654	842	1090

## LN SERIES - FEATURES



### Standard

- Airflow range from 400 Cfm to 3000 Cfm.
- ESP range from 20Pa to 150Pa.
- Coil - number of rows from 3 to 6 rows.
- Transfer Medium - chilled water.
- $\Delta T$  - District Cooling or chiller
- 2 or 4 pipe system.
- Galvanized Iron (GI) sheet casing, well-insulated and robust construction.
- Forward curved DIDW fan with statically and dynamically balanced impeller to handle high static with low noise.
- 3 speeds permanent split capacitor (PSC) run, thermally protected motor.
- Maintenance free permanently lubricated ball bearing.
- AC 220 ~ 240 volt, 50 Hz, single phase, Class B insulated motors with anti-vibration rubber mounts.
- All motors are wired to the junction box for easy connection. Wiring diagram is pasted beside to identify neutral and various speeds.
- Insulated return air plenum and filter.
- Access panel provided below plenum for access to motor and fan.
- Aluminum fins are mechanically bonded over 3/8" OD copper tubes for higher efficiency.
- Brass distributor with air vent and drain plug.
- Low height for fitting in ceiling voids.
- Powder coated/epoxy coated drain pan.
- Coarse filter with up to 65% efficiency.

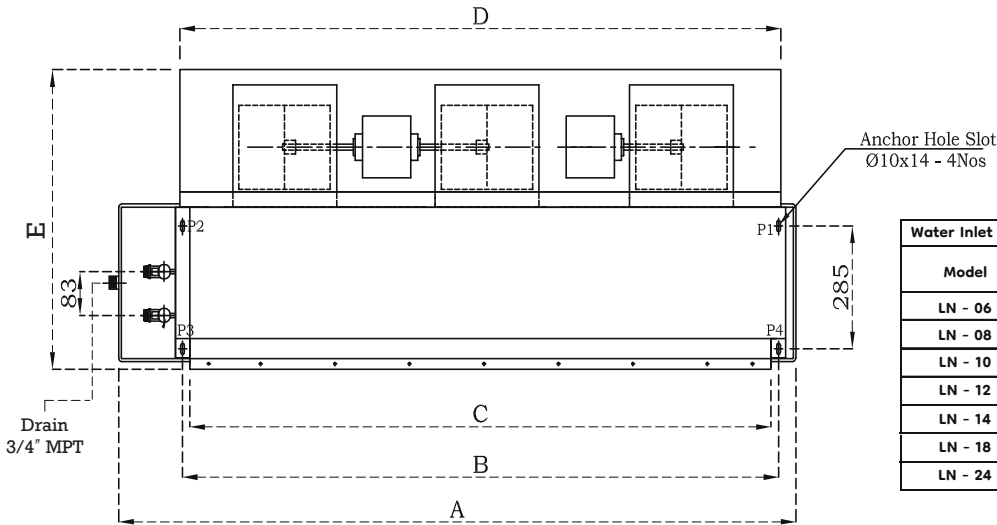
### Optional\*

- Fan Coil Unit with EC (electronically commutated) Motor Option for power saving & precise control.
- As per IAQ requirements we can provide higher grade filters however performance will need to be checked with us as a consequence.
- Split filters can be provided for easy maintenance.
- Bottom removable drop down filters when return is ducted can be provided.
- Bottom return plenum can also be provided.
- Cutouts can be provided on the plenum sides for treated fresh air entry mixing.
- Copper fins can be provided for highly corrosive environment.
- Aluminum fins with coating or fins produced by using coated aluminum fin stock can be provided.
- Class F insulated motors and higher IP ratings available.
- Stainless steel drain pans.
- Extended drain pan and auxiliary drain pans.
- 2 way / 3 way valves with actuators.
- Heating options - electric and hot water.
- 60 Hz motor.
- Decorative type (CB series): Decorative Units shall be provided with powder coating from Standard RAL Chart to meet interior requirements.
- Double skin (DS model): Insulation options available are Nitrile rubber, rockwool, and puff insulation. Double skins can also be provided on decorative units.

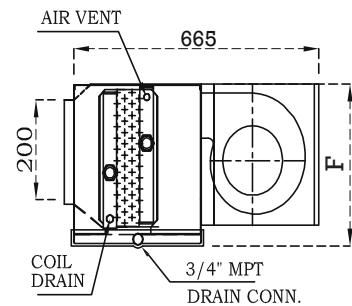
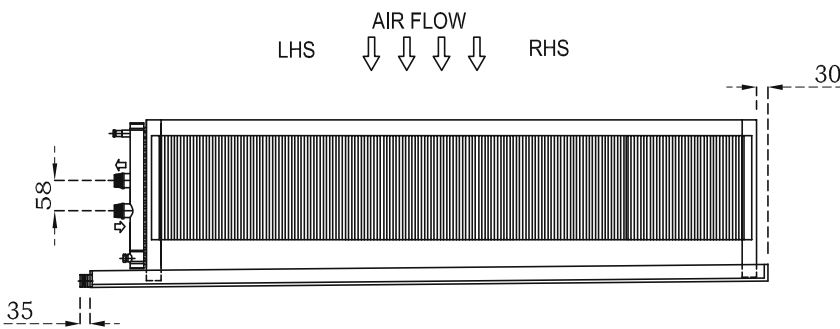
\* For all optional items lead times can change. Please discuss with sales team / distributor for updated lead times.



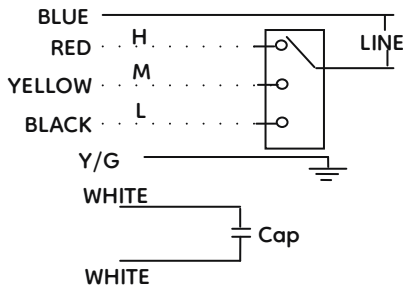
# LN SERIES - DIMENSIONAL DRAWINGS



Water Inlet Connection	
Model	CHW In/Out
	BSP MALE PIPE THREAD
LN - 06	3/4"
LN - 08	
LN - 10	
LN - 12	
LN - 14	1"
LN - 18	
LN - 24	



## Wiring Diagram



Model	Point Loads			
	Point Load (kgs)			
	P1	P2	P3	P4
LN - 06	13.62	13.62	5.90	5.90
LN - 08	16.20	16.20	7.30	7.30
LN - 10	20.97	20.97	10.0	10.0
LN - 12	20.97	20.97	10.0	10.0
LN - 14	25.39	25.39	12.8	12.8
LN - 18	30.93	30.93	13.80	13.80
LN - 24	37.72	37.72	17.23	17.23

Dimensional Details												
Model	Dimensions (mm)						Number of		Std Filter Dim (mm)	Weight (kgs)		System Volume(ltr)
	A	B	C	D	E	F	Fan(s)	Motor (s)		Dead	Operating	
LN - 06	792	591	530	583	685	365	1	1	581 x 295	37	39.06	1.60
LN - 08	942	721	683	733	685	365	1	1	683 x 295	43	47.3	1.90
LN - 10	1152	983	945	995	685	365	2	1	945 x 295	54	59.4	1.60
LN - 12	1152	983	940	995	685	365	2	1	935 x 295	58	61.66	2.80
LN - 14	1545	1308	1270	1320	685	365	2	1	1266 x 295	71	76.68	3.80
LN - 18	1735	1486	1448	1498	685	365	3	2	1445 x 295	84	89.35	4.30
LN - 24	2072	1918	1880	1930	685	365	4	2	1875 x 295	103	109.9	5.60

Note : For dimensional details of (CB) and (DS) please contact the Sales Team / Local Distributor.

# LN SERIES - PERFORMANCE DATA



Cooling Capacity in Kilowatt - Medium Speed

4 Row Coils

Entering Air Condition DB / WB 24/17.8 °C (55% RH)								
LN Series	Water Flow L/sec	W.P.D. kPa	Entering Water Temp °C					
			5		7		9	
			SH	TH	SH	TH	SH	TH
LN-06	0.10	1.00	3.39	3.53	3.11	3.11	2.75	2.75
	0.20	2.00	4.06	5.21	3.71	4.42	3.41	3.67
	0.30	3.90	4.43	6.15	4.04	5.24	3.69	4.29
	0.40	5.90	4.66	6.76	4.25	5.75	3.86	4.76
LN-08	0.10	1.00	4.22	4.27	3.79	3.79	3.34	3.34
	0.20	2.00	5.00	6.33	4.64	5.40	4.32	4.50
	0.30	3.90	5.49	7.63	5.05	6.47	4.64	5.34
	0.40	6.90	5.89	8.41	5.28	7.14	4.83	5.89
LN-10	0.10	1.00	5.13	5.13	4.58	4.58	0.00	0.00
	0.20	2.90	6.44	7.58	6.10	6.49	5.57	5.57
	0.30	4.90	7.14	9.27	6.56	7.91	6.09	6.62
	0.40	7.80	7.67	10.5	7.07	8.95	6.43	7.30
LN-12	0.10	1.00	5.78	5.78	0.00	0.00	0.00	0.00
	0.20	2.90	7.56	8.50	7.13	7.35	6.40	6.40
	0.30	5.90	8.34	10.5	7.73	8.98	7.18	7.56
	0.40	9.80	8.99	11.9	8.22	10.1	7.53	8.46
LN-14	0.20	3.90	8.70	9.36	8.15	8.15	7.17	7.17
	0.30	6.90	9.66	11.6	8.99	9.99	8.35	8.44
	0.40	10.8	10.3	13.4	9.40	11.3	8.83	9.50
	0.20	2.00	9.46	9.46	8.47	8.47	0.00	0.00
LN-18	0.30	2.90	10.9	11.7	10.2	10.2	9.02	9.02
	0.40	3.90	11.8	13.7	10.9	11.8	10.1	10.1
	0.55	6.90	12.7	16.1	11.7	13.7	10.8	11.5
	0.30	1.00	12.3	12.3	11.0	11.0	9.78	9.78
LN-24	0.40	1.00	14.2	14.2	12.7	12.7	11.3	11.3
	0.55	2.00	15.9	16.6	14.6	14.6	12.9	12.9
	0.70	2.00	16.7	18.6	15.7	16.0	14.0	14.0

Cooling capacity in Kilowatt - Medium Speed @ 50Pa ESP - 4 Row Coils

Entering Air Condition DB / WB 26/19.5 °C (55% RH)								
LN Series	Water Flow L/sec	W.P.D. kPa	Entering Water Temp °C					
			5		7		9	
			SH	TH	SH	TH	SH	TH
LN-06	0.10	1.00	3.56	4.00	3.40	3.54	3.11	3.11
	0.20	2.00	4.32	6.08	3.98	5.24	3.71	4.42
	0.30	3.90	4.78	7.24	4.38	6.26	4.02	5.29
	0.40	5.90	5.10	7.98	4.68	6.88	4.23	5.79
LN-08	0.10	1.00	4.44	4.83	4.22	4.26	3.79	3.79
	0.20	2.00	5.39	7.39	5.02	6.35	4.64	5.40
	0.30	3.90	5.95	8.88	5.54	7.69	5.05	6.47
	0.40	6.90	6.34	9.90	5.79	8.51	5.29	7.24
LN-10	0.10	1.00	5.67	5.67	5.13	5.13	0.00	0.00
	0.20	2.90	6.97	8.71	6.44	7.58	6.07	6.52
	0.30	4.90	7.71	10.8	7.11	9.36	6.64	7.90
	0.40	7.80	8.34	12.2	7.63	10.6	6.99	8.96
LN-12	0.10	1.00	6.23	6.23	5.63	5.63	0.00	0.00
	0.20	2.90	7.62	9.53	7.21	8.28	6.86	7.14
	0.30	5.90	8.58	11.9	7.95	10.3	7.37	8.78
	0.40	9.80	9.24	13.5	8.57	11.7	7.77	9.96
LN-14	0.20	3.90	9.27	10.6	8.68	9.34	8.15	8.15
	0.30	6.90	10.3	13.5	9.60	11.7	8.99	9.99
	0.40	10.8	11.0	15.6	10.2	13.4	9.40	11.3
	0.20	2.00	10.4	10.4	9.46	9.46	0.00	0.00
LN-18	0.30	2.90	11.6	13.3	11.0	11.7	10.2	10.2
	0.40	3.90	12.6	15.9	11.6	13.7	11.0	11.7
	0.55	6.90	13.5	18.8	12.5	16.1	11.7	13.6
	0.30	1.00	13.6	13.6	12.3	12.3	11.0	11.0
LN-24	0.40	1.00	14.7	16.3	14.1	14.4	12.7	12.7
	0.55	2.00	16.1	19.9	15.1	17.1	14.3	14.9
	0.70	2.00	17.3	22.7	16.0	19.5	14.9	16.7

Airflow mentioned is at dry coil condition.

TH = Total cooling in KW

SH= Sensible Cooling in KW

ΔWT= Water Delta T

WPD=Water Pressure Drop

# AHRI STANDARD MODELS – LN SERIES

High speed @50pa, On coil = 26/19.6 °C



## AC motor -Chiller application - 4Row

Model Number	Air Flow Rating (L/s)	Water Flow Rate (L/s)	Water Pressure Drop (Kpa)	Total Capacity (Kw)	Sensible Capacity (Kw)	Water Temperature Rise (deg F)	Power Input (W)	Frequency (Hz)
LN-S-06-H-4RC-C-AM-P	322	0.26	2.93	6.04	4.47	10	432	50
LN-S-08-H-4RC-C-AM-P	379	0.36	5.86	8.22	6.00	10	432	50
LN-S-10-H-4RC-C-AM-P	534	0.50	11.75	11.53	8.53	10	536	50
LN-S-12-H-4RC-C-AM-P	712	0.65	21.49	15.09	10.57	10	792	50
LN-S-14-H-4RC-C-AM-P	838	0.79	34.19	18.09	12.48	10	792	50
LN-S-18-H-4RC-C-AM-P	1047	0.88	14.65	20.39	14.88	10	910	50
LN-S-24-H-4RC-C-AM-P	1368	1.25	37.12	28.88	20.20	10	1020	50

## AC motor -District Cooling application - 4Row

Model Number	Air Flow Rating (L/s)	Water Flow Rate (L/s)	Water Pressure Drop (Kpa)	Total Capacity (Kw)	Sensible Capacity (Kw)	Water Temperature Rise (deg F)	Power Input (W)	Frequency (Hz)
LN-S-06-H-4RC-D-AM-P	322	0.15	6.84	5.274	4.23	15	432	50
LN-S-08-H-4RC-D-AM-P	379	0.20	13.63	7.000	5.25	15	432	50
LN-S-10-H-4RC-D-AM-P	534	0.28	28.28	9.769	7.43	15	536	50
LN-S-12-H-4RC-D-AM-P	712	0.35	15.63	12.165	9.49	15	792	50
LN-S-14-H-4RC-D-AM-P	838	0.42	25.41	14.591	11.24	15	792	50
LN-S-18-H-4RC-D-AM-P	1047	0.40	3.92	14.035	12.50	15	910	50
LN-S-24-H-4RC-D-AM-P	1368	0.62	10.76	21.661	17.54	15	1020	50

## EC motor -Chiller application - 4Row

Model Number	Air Flow Rating (L/s)	Water Flow Rate (L/s)	Water Pressure Drop (Kpa)	Total Capacity (Kw)	Sensible Capacity (Kw)	Water Temperature Rise (deg F)	Power Input (W)	Frequency (Hz)
LN-S-06-H-4RC-C-EM-P	322	0.26	2.93	6.04	4.47	10	302	50
LN-S-08-H-4RC-C-EM-P	379	0.36	5.86	8.22	6.00	10	324	50
LN-S-10-H-4RC-C-EM-P	534	0.50	11.75	11.53	8.53	10	402	50
LN-S-12-H-4RC-C-EM-P	712	0.65	21.49	15.09	10.57	10	594	50
LN-S-14-H-4RC-C-EM-P	838	0.79	34.19	18.09	12.48	10	594	50
LN-S-18-H-4RC-C-EM-P	1047	0.88	14.65	20.39	14.88	10	681	50
LN-S-24-H-4RC-C-EM-P	1368	1.25	37.12	28.88	20.20	10	765	50

## EC motor -District Cooling application - 4Row

Model Number	Air Flow Rating (L/s)	Water Flow Rate (L/s)	Water Pressure Drop (Kpa)	Total Capacity (Kw)	Sensible Capacity (Kw)	Water Temperature Rise (deg F)	Power Input (W)	Frequency (Hz)
LN-S-06-H-4RC-D-EM-P	322	0.15	6.84	5.274	4.23	15	302	50
LN-S-08-H-4RC-D-EM-P	379	0.20	13.63	7.000	5.25	15	324	50
LN-S-10-H-4RC-D-EM-P	534	0.28	28.28	9.769	7.43	15	402	50
LN-S-12-H-4RC-D-EM-P	712	0.35	15.63	12.165	9.49	15	594	50
LN-S-14-H-4RC-D-EM-P	838	0.42	25.41	14.591	11.24	15	594	50
LN-S-18-H-4RC-D-EM-P	1047	0.40	3.92	14.035	12.50	15	681	50
LN-S-24-H-4RC-D-EM-P	1368	0.62	10.76	21.661	17.54	15	765	50

Airflow mentioned is at dry coil condition.

• Water in/out = 7/12 (chiller application) •water in/out = 7/15(District cooling application)

# AIRFLOW DATA - LN SERIES



Airflow in L/S							
Fan Speed = High							
Model	0	25	50	75	100	125	150
LN-06	416	384	327	271	200	137	77
LN-08	475	435	403	378	352	330	310
LN-10	722	687	651	588	524	450	375
LN-12	741	732	723	678	634	584	534
LN-14	871	861	850	797	745	687	628
LN-18	1089	1076	1062	996	931	858	785
LN-24	1423	1405	1388	1302	1217	1121	1026

Airflow in L/S							
Fan Speed = Medium							
Model	0	25	50	75	100	125	150
LN-06	386	356	303	251	186	127	71
LN-08	463	420	385	357	335	297	279
LN-10	644	615	539	519	453	370	286
LN-12	676	663	649	606	596	529	463
LN-14	805	789	770	721	710	631	551
LN-18	1007	987	967	902	888	788	689
LN-24	1332	1306	1279	1193	1174	1043	912

Airflow in L/S							
Fan Speed = Low							
Model	0	25	50	75	100	125	150
LN-06	296	288	280	271	255	216	177
LN-08	406	382	362	334	312	252	237
LN-10	559	542	524	451	378	309	239
LN-12	592	576	561	542	511	432	354
LN-14	684	671	654	613	604	536	468
LN-18	879	856	833	804	758	642	525
LN-24	1165	1132	1099	1044	1028	913	800

Note :The airflow provided are without the plenum and filter. Above airflow are at dry coil conditions. Please contact local sales or local distributor for customised selection.

# LN SERIES - SOUND PRESSURE LEVEL SPL

Tested in anechoic chamber in accordance with ISO 3745 measured at freeflow



Discharge Sound Pressure level dB(A) (In accordance with ISO 3745 standard measured at freeflow)									
Fan Speed	Unit Size	Octave Band Center Frequency Hz							
		125	250	500	1000	2000	4000	8000	NC
H	6	43	46	37	23	17	19	18	35
	8	44	47	39	25	19	20	19	35
	10	46	48	40	26	20	22	21	40
	12	46	49	40	26	20	22	21	40
	14	47	50	41	27	21	23	22	40
	18	48	51	42	28	22	24	23	40
M	6	42	45	35	21	15	17	15	35
	8	43	47	37	24	17	18	19	35
	10	45	48	38	24	18	20	18	40
	12	45	48	38	24	18	20	18	40
	14	46	49	39	25	17	19	17	40
	18	47	50	40	26	20	22	20	40
L	6	41	42	33	18	12	14	11	35
	6	41	42	33	18	12	14	11	35
	6	41	42	33	18	12	14	11	35
	12	44	45	36	21	15	17	14	35
	14	42	44	35	20	14	16	13	35
	18	46	47	38	23	17	19	16	40
	24	47	48	39	24	18	20	17	40

Suction Sound Pressure level dB(A) (In accordance with ISO 3745 standard measured at freeflow)									
Fan Speed	Unit Size	Octave Band Center Frequency Hz							
		125	250	500	1000	2000	4000	8000	NC
H	6	49	55	50	47	47	40	31	50
	8	50	57	52	49	48	39	32	55
	10	52	58	53	50	50	43	34	55
	12	52	58	53	50	50	43	34	55
	14	53	59	54	51	51	44	35	55
	18	54	60	55	52	52	45	36	55
M	6	48	53	48	44	45	38	28	50
	8	49	55	50	46	45	40	29	50
	10	51	56	51	47	48	41	31	50
	12	51	56	51	47	48	41	31	50
	14	52	57	52	48	49	42	32	50
	18	53	58	53	49	50	43	33	55
L	6	47	51	46	41	42	34	24	45
	8	48	51	47	43	44	35	25	50
	10	50	54	49	44	45	37	27	50
	12	50	54	49	44	45	37	27	50
	14	51	55	50	45	46	38	28	50
	18	52	56	51	46	47	39	29	50
	24	53	57	52	47	48	40	30	50

Radiated Sound Pressure level dB(A) (Single Skin) (In accordance with ISO 3745 standard measured at freeflow)									
Fan Speed	Unit Size	Octave Band Center Frequency Hz							
		125	250	500	1000	2000	4000	8000	
H	6	43	44	36	22	13	12	<10	
	8	44	45	36	23	15	12	<10	
	10	46	47	39	25	16	15	<10	
	12	46	47	39	25	16	15	<10	
	14	47	48	40	26	17	16	<10	
	18	48	49	41	27	18	17	<10	
M	6	42	43	34	20	11	10	<10	
	8	43	43	33	19	11	10	<10	
	10	45	46	37	23	14	13	<10	
	12	45	46	37	23	14	13	<10	
	14	46	47	38	24	13	12	<10	
	18	47	48	39	25	16	15	<10	
L	6	41	40	32	17	<10	<10	<10	
	8	43	42	32	17	<10	<10	<10	
	10	44	43	35	20	11	10	<10	
	12	44	43	35	20	11	10	<10	
	14	42	42	34	19	10	<10	<10	
	18	46	45	37	22	13	12	<10	
	24	47	46	38	23	14	13	<10	

# FAN COIL UNIT - CB SERIES

CABINET TYPE - Decorative



Finpower cabinet fan coil units are commonly known as decorative units, which are designed for exposed installation, longer lifetime under normal running conditions. Units are made with pre coated GI sheets on all the four sides leaving the return and top area. Sheet metal work is done aesthetically leaving sufficient space on both sides for access and terminations. Units are also provided with double deflection grill to direct the airflow.

The unit is coated with sheet which are tested a per ASTM B-117. Cabinet fan coils incorporate metal fans that are quieter than usual and require less fan power. This fan of metal construction blades provides excellent corrosion resistance and durability with continues year round operations.

The motor provided is energy-saving permanent split capacitor type motor and is resiliently mounted. In order to accommodate increasingly tough electrical safety requirements and ease of maintenance, the capacitor is placed over motor enclosure. The motor lead out wires are sheathed and also protected by flexible conduit.

## Ceiling Suspended Exposed Fan Coil Unit

Type	SN-02(CB)	SN-03(CB)	SN-04(CB)	SN-06(CB)	SN-08(CB)	SN-10(CB)	SN-12(CB)	SN-14(CB)
Size (CFM)	200	300	400	600	800	1000	1200	1400
No of fan(s)	1	1	2	2	2	3	4	4
No of motor (s)	1	1	1	1	1	2	2	2

Type	LN-06(CB)	LN-08(CB)	LN-10(CB)	LN-12(CB)	LN-14(CB)	LN-18(CB)	LN-24(CB)
Size (CFM)	600	800	1000	1200	1500	1800	2400
No of fan(s)	1	1	2	2	2	3	4
No of motor (s)	1	1	1	1	1	2	2

## PERFORMANCE DATA

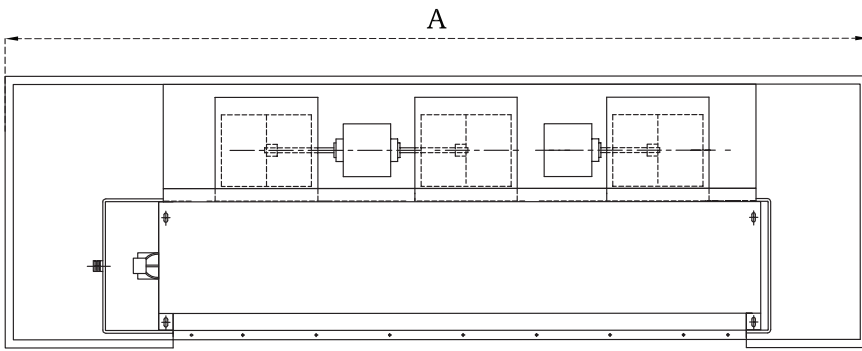
Model	SN-02(CB)		SN-03(CB)		SN-04(CB)		SN-06(CB)		SN-08(CB)		SN-10(CB)		SN-12(CB)		SN-14(CB)		
Ext SP Pa	0	20	0	20	0	20	0	20	0	20	0	20	0	20	0	20	
Air Flow L/S	High	168	156	239	213	323	296	375	348	468	451	615	562	692	641	785	748
	Medium	141	130	213	195	273	258	326	299	397	381	539	494	621	589	698	667
	Low	120	111	183	170	198	190	246	232	300	294	429	402	520	501	549	533
Water Flow L/S	0.09	0.10	0.09	0.10	0.09	0.10	0.09	0.10	0.09	0.10	0.09	0.10	0.09	0.10	0.09	0.10	
W.P.D. kPa	1.96	1.96	1.96	2.94	1.96	2.94	2.94	0.98	2.94	0.98	0.98	0.98	0.98	0.98	0.98	0.98	

Note: Selection sample is based on 24° C DB/17.8° C WB on coil air temperature. 7° C/12° C entering water temperature / leaving water temperature.

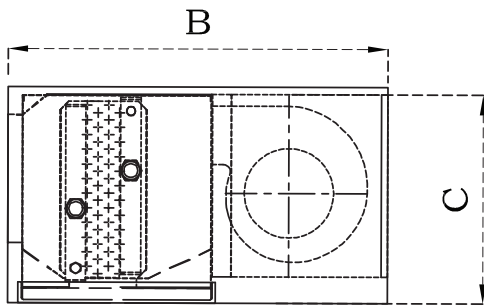
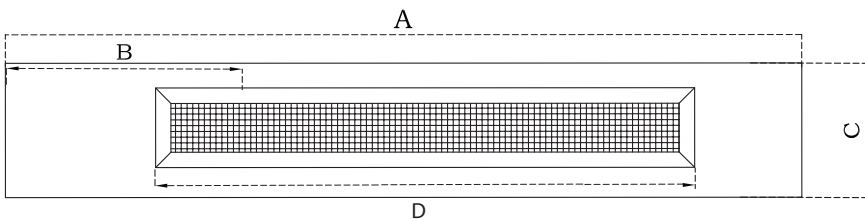
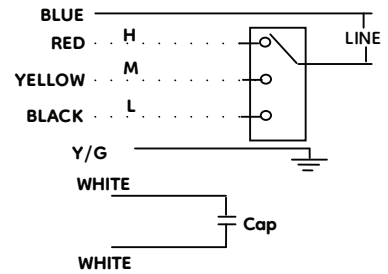
## Performance details

Model	LN-06(CB)		LN-08(CB)		LN-10(CB)		LN-12(CB)		LN-14(CB)		LN-18(CB)		LN-24(CB)		
Ext SP Pa	0	25	0	25	0	25	0	25	0	25	0	25	0	25	
Air Flow L/S	High	416	384	475	435	667	659	741	732	871	861	1089	1076	1422.7	1405.2
	Medium	386	356	463	420	608	596	676	663	805	789	1007	987	1332	1305.6
	Low	325	300	406	382	532	519	592	576	592	670	879	856	1165	1132
Water Flow L/S	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	
W.P.D. kPa	3.9	3.9	1	1	1	1	1	1	3.9	3.9	3.9	3.9	1	1	

# DIMENSION DETAIL - CB SERIES



### Wiring Diagram



Model	Dimensions (mm)			WEIGHT (Kg)
	A	B	C	
SN-02/03(CB)	987	515	300	27
SN-04(CB)	1217	515	300	35
SN-06(CB)	1392	515	300	38
SN-08(CB)	1602	515	300	45
SN-10(CB)	1827	515	300	55
SN-12(CB)	2120	515	300	64
SN-14(CB)	2120	515	300	68

Model	Dimensions (mm)			WEIGHT (Kg)
	A	B	C	
LN-06(CB)	987	670	400	49
LN-08(CB)	1137	670	400	58
LN-10(CB)	1347	670	400	63
LN-12(CB)	1347	670	400	63
LN-14(CB)	1740	670	400	78
LN-18(CB)	1930	670	400	98
LN-24(CB)	2367	670	400	123

Note: Finpower reserves the right to change dimension as a part of continuous improvement and research and development procedure.

# FAN COIL UNIT - DOUBLE SKIN SERIES

DOUBLE SKIN - DUCTED TYPE



For outdoor fixing & sound sensitive areas (can be ducted both sides with filter drop down bracket).

The units are offered in a variety of thicknesses ranging from 13mm to 50mm. Among the insulation options available are Nitrile rubber, rockwool, and puff insulation. Double skins can also be provided in colors.

Model	Dimensions (mm)				WEIGHT (Kg)
	A	B	C		
SN-02/03(DS)	305	732	547		34
SN-04(DS)	305	962	547		42
SN-06(DS)	305	1137	547		49
SN-08(DS)	305	1347	547		60
SN-10(DS)	305	1572	547		73
SN-12(DS)	305	1865	547		87
SN-14(DS)	305	1865	547		92

Model	Dimensions (mm)				WEIGHT (Kg)
	A	B	C		
LN-06(DS)	405	832	705		71
LN-08(DS)	425	1005	725		76
LN-10(DS)	365	1152	665		84
LN-12(DS)	405	1192	705		85
LN-14(DS)	405	1585	705		101
LN-18(DS)	405	1775	705		114
LN-24(DS)	405	2112	705		135

## LN SERIES - SOUND PRESSURE LEVEL

Radiated Sound Pressure level dB(A) (Double Skin - 19mm thick)								
(In accordance with ISO 3745 standard measured at freeflow)								
Fan Speed	Unit Size	Octave Band Center Frequency Hz						
		125	250	500	1000	2000	4000	8000
H	6	31	32	24	<10	<10	<10	<10
	8	34	35	27	12	<10	<10	<10
	10	34	35	27	12	<10	<10	<10
	12	34	35	27	12	<10	<10	<10
	14	35	36	28	13	<10	<10	<10
	18	36	37	29	14	<10	<10	<10
	24	37	38	30	15	10	<10	<10
M	6	30	31	22	<10	<10	<10	<10
	8	31	33	24	11	<10	<10	<10
	10	33	34	25	10	<10	<10	<10
	12	33	34	25	10	<10	<10	<10
	14	34	35	26	11	<10	<10	<10
	18	35	36	27	12	<10	<10	<10
	24	36	37	28	13	<10	<10	<10
L	6	29	28	20	<10	<10	<10	<10
	8	30	29	22	<10	<10	<10	<10
	10	32	31	23	<10	<10	<10	<10
	12	32	31	23	<10	<10	<10	<10
	14	30	30	22	<10	<10	<10	<10
	18	34	33	25	<10	<10	<10	<10
	24	35	34	26	10	<10	<10	<10



# SOFTWARE STRENGTH



Fan coil unit selection software facilitates the preparation of high-quality, well-presented quotes for fan coil units quickly and efficiently.

Based on available options for a FCU, we choose a model and select a coil. We also select the air and water parameters for that model. Once we have done that, we will be able to run a calculation of coil performance. Coil performance calculation is initiated as a following step which include the leaving air and water conditions, cooling and heating capacity, and fan power consumption. Calculations are based on the test results available and correction factors.



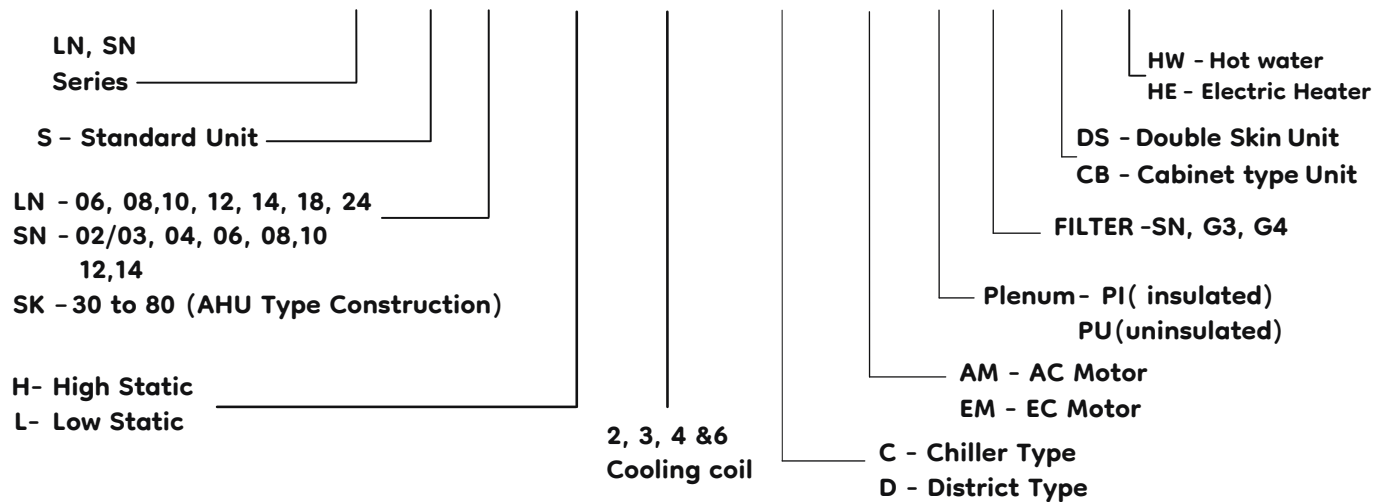
## FCU Software Selection

Model	Project Details				Fcu reference				Qty												
SN-S-08	MIR				FCU-01				25												
Model	Speed	ESP	Airflow	ROWS	PIN (W)	Motor	Location	HOC	Filter	Drain											
		Pa	Lps	no	WATT	AC	D		1/2" AL	ECO-STD											
SN-S-08-H-4RC-D-AM-P-	MED	55	351	4	192			55	FULL												
Model	A. Vol. (l/s)	DB (°C)	WB (°C)	W. In (l/s)	W. Vol. (l/m)	Flow	ESP (Pa)	Fan Speed	Pin (w)	Row	A. Vol. (l/m)	Col. Qty.	H. No.	EL							
SN-S-08-H-4RC-D-AM-P-	351	25.0	18.7	5.5	7.2	up	55.0	MED	192	4	1253	1	8	1066.8							
MODEL	SPEED	MODE	QA	ESP	DB1	WB1	DB2	WB2	TW1	TW2	QW	SC	TC	WPD	VW	PIN	Height	Width	Length	Weight	PICV
			(L/S)	(Pa)	(°C)	(°C)	(°C)	(°C)	(°C)	(°C)	(L/S)	(W)	(W)	(KPa)	(M/S)	(W)	mm	mm	mm	Kg	Model
SN-S-08-H-4RC-D-AM-P-	MED	Cool	411	55.0	25.0	18.7	14.6	14.2	5.5	18.3	0.12	5161	6451	39.2	0.94	192	265	1307	507	47.8	VPIN6.1510.6

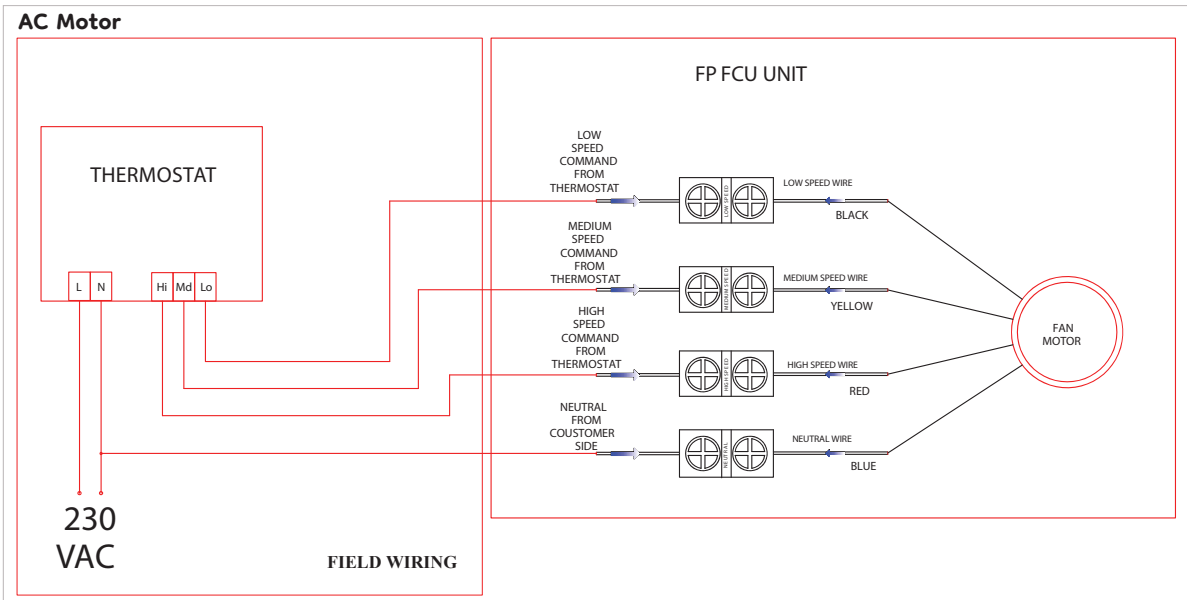
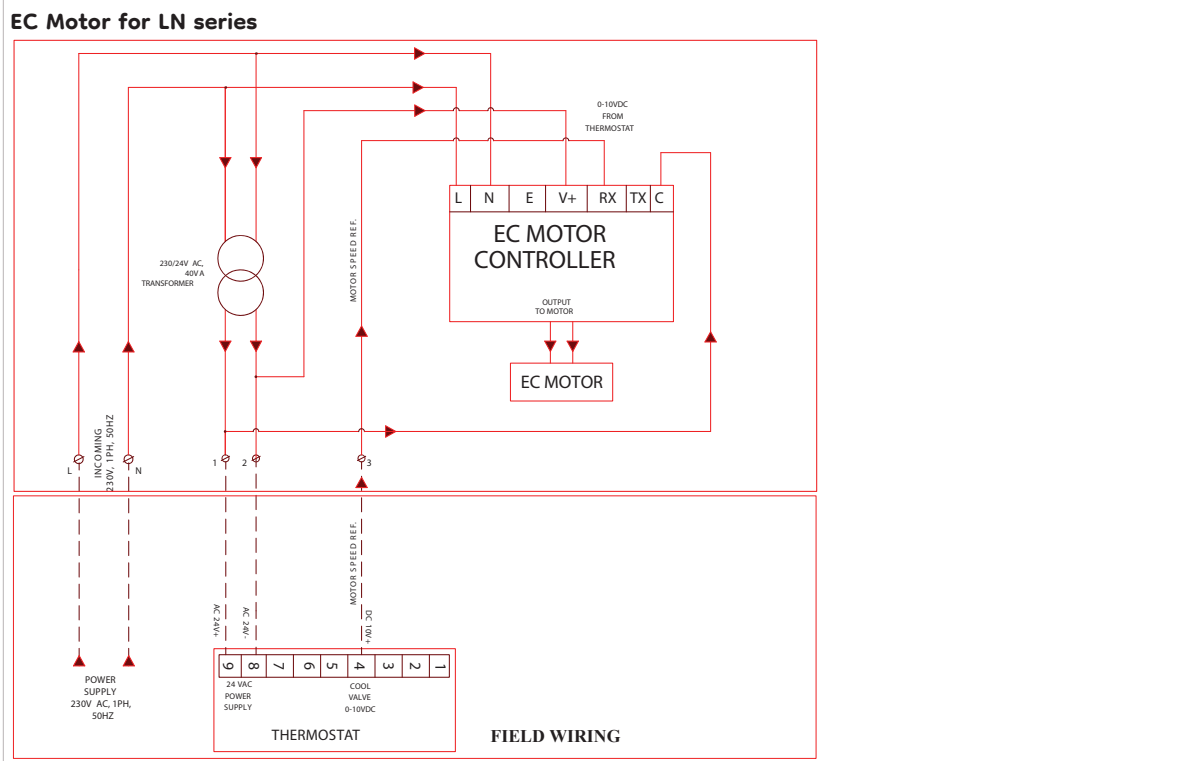
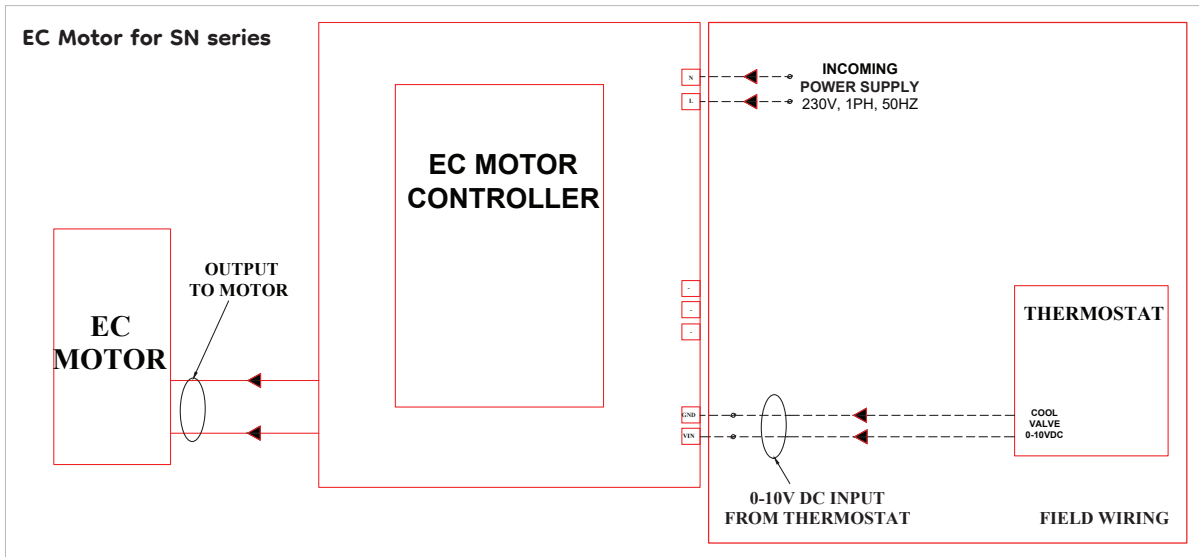
**Legend**  
 QA - Quantity of Air (liter / sec)  
 ESP - External Static Pressure (Pa)  
 DB1 - Incoming Drybulb Temp (deg C)  
 WB1 - Incoming Wetbulb Temp (deg C)  
 DB2 - Outgoing Drybulb Temp (deg C)  
 WB2 - Outgoing Wetbulb Temp (deg C)  
 TW1 - Chilled Water Entering Temp (deg C)  
 TW2 - Chilled Water Leaving Temp (deg C)  
 QW - Quantity of Water (liter / sec)  
 SC - Sensible Cooling Capacity (watts)  
 TC - Total Cooling Capacity (watts)  
 WPD - Water Pressure Drop (kPa)  
 VW - Velocity of Water (meter / sec)  
 Pin - Power Input (watts)

## NOMENCLATURE

### SN - S - 08 - H - 4RC - C - AM - P - F - DS - HW



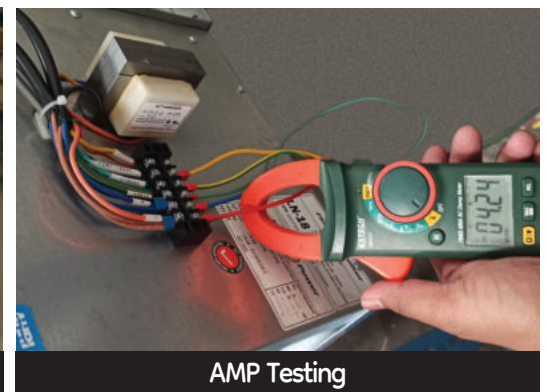
# WIRING DRAWING FOR SN & LN SERIES



## TESTING FACILITIES



- All the units are manufactured using tested and certified components & materials.
- All the units are factory tested & approved by the quality procedures before dispatching from the manufacturing facility.
- The quality process proven & certified by ISO 9001:2015 - which certifies Quality Management System, ISO 45001:2018 certifies Health & Safety Management, ISO 14001: 2015 certifies Environmental Management System.
- All the quality products tested by automated machines and CNC machines under supervision of super skilled manpower.





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**\*Manufacturer reserves the right to discontinue or change the specifications or design of the product without prior notice at any time.**

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