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Nehmeh
Air Conditioners

CFM RANGE FROM 600 TO 2,000
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Standard Cooling





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Nehmeh is recognized as one of the leading integrated manufacturing & trading companies headquartered in Doha, Qatar. Nehmeh is engaged in every aspect of the automotive, construction, heat transfer, service and the woodworking industries, including manufacturing, distribution, marketing, sales and after sales, and in addition to investing in renewable and advanced technologies.

The original company name, Anton Nehmeh, has roots which can be traced back to 1955 in Doha, Qatar. As years went by and experiences were gained, Nehmeh developed other businesses, namely Nehmeh Enterprises & Industries and Nehmeh Corporation. Subsequently, Nehmeh were appointed authorized dealers for many world renowned brands and has made those brands leaders in the Qatari market.

Our Vision have been set out to put on us o course to becoming a regional player in providing innovative & quality solutions by our People to our valued customers.

Today, the quality-endorsed Group is recognized as one of the leading provider of award-winning industrial solutions and offering a broad spectrum of products and services to the government, municipalities, the business community at large and above all the industrial sector and operates in the State of Qatar & the Kingdom of Bahrain and is continuously undergoing transformation for providing markets with a choice of quality. Nehmeh's sustainability initiatives include various commitments and outreach programs, some of which include community service as part of our gratitude and great pride in contributing to the local communities where we live and work as well our care to the environment and are proud of the many ways in which our family of dedicated staff and management and selected products & services work hard to safeguard and protect our planet.

As an integrated global organization, we provide sustained value to our local customers and deliver consistent profitability as well as solid cash flow to our shareholders.

We are environmentally-balanced and committed to continuous performance improvement through innovation, quality, organizational efficiency and employee development.



ORGANIZATION, INNOVATION, QUALITY, EFFICIENCY AND DEVELOPMENT

Performing Excellence

Nehmeh Group is an integrated global organization. As an international team, we work on the common objective to continuously exceed our performance, and thereby sustain competitiveness through consistent profitability and growth.

Leadership & Team Spirit

We value the diversity of our organization, always treating each other and our business partners with integrity and respect. The fundamental principles of our leadership are listening, communication, and people development.

Innovation & Quality

We are committed to continuously exceeding our product range and services, product quality and reliability, as well as our internal processes, while remaining flexible to quickly respond to changing customer requirements.

EFFICIENT SERVICES FOR QUALITY FOLLOW-UP

To answer to all questions that can ask our customers, from installation, start-up and maintenance of all our ranges of machines, Nehmeh activity has implemented service with a high level of quality.

Customer's satisfaction and an answer to all his requests about our products represent our first priority. In this way, Nehmeh activity is committed to a continuous improvement of its service to professional customers, actions oriented around 3 main axes: training, spare parts and technical support.

RESEARCH & DEVELOPMENT

Innovation & Quality

Innovation and Quality are one important parts of Nehmeh's philosophy. Spending all our energy to continuously develop innovative products for our customer will ensure our market position. More than 130 people are devoted to study products with a special are to the energy efficiency and acoustic emission issues for a better quality of life.

Certifications

The company plants are ISO 9001 certified by most recognized certification bodies and a voluntary initiative which will ensure that capacity ratings and design properties have been verified by independent laboratories according to international standards.

Technology & Environment

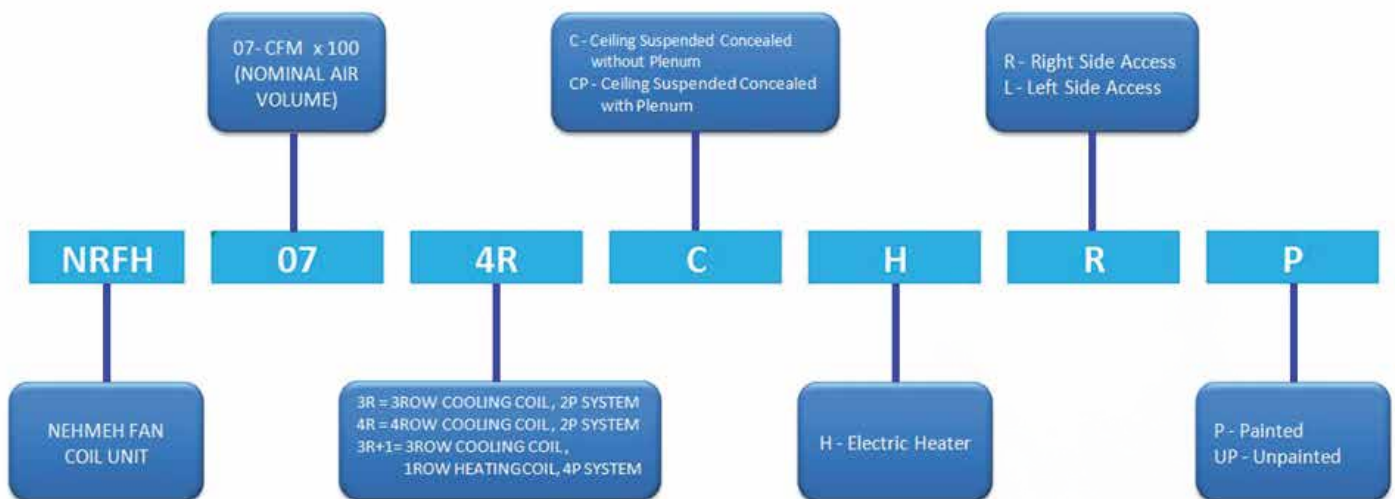
Nehmeh's primary objective is to design and offer air conditioning systems that meet both the highest standards of environmental protection and users' legitimate expectations in terms of comfort and wellbeing.

For Nehmeh, innovation has to be linked tightly to a respect for the environment and must include stringent requirements in terms of quality levels. This ongoing concern governs all our actions and involves all our human and technological resources. Moreover, with a constant care for participating in preserving the environment, Nehmeh designs and markets high efficiency products that reduce CO₂ emissions into the atmosphere and minimize our contribution to global warming.

With the new and wide range of NRFH Series Fan Coil Units, Nehme has diversified its current range of products to meet customer requirement in HVAC field. Nehme’s products follow stringent policy of research and development. With safety as a priority during production, all products use top quality components that meet the relevant standards.

Our total Quality policy is ensured by standard working procedures, with tests and inspections during all production phases.

Our Fan Coil Units are suitable for commercial and residential applications.





The NRFH fan coil is a terminal with a centrifugal fan. It is characterized by its modern design and can be installed in any environment.

MAIN FEATURES

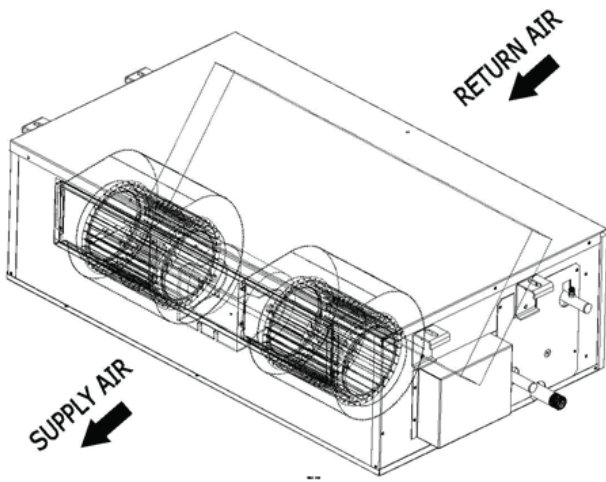
- Cooling capacities ranging from 7 to 17.5 kW
- Can be combined with all the STANDARD and ADVANCE chilling unit range
- Horizontal configuration
- 3 installation versions:
 NRFH 3R: with 2 tubes
 NRFH 4R: with 2 tubes

NRFH 3R+1: with 4 tubes

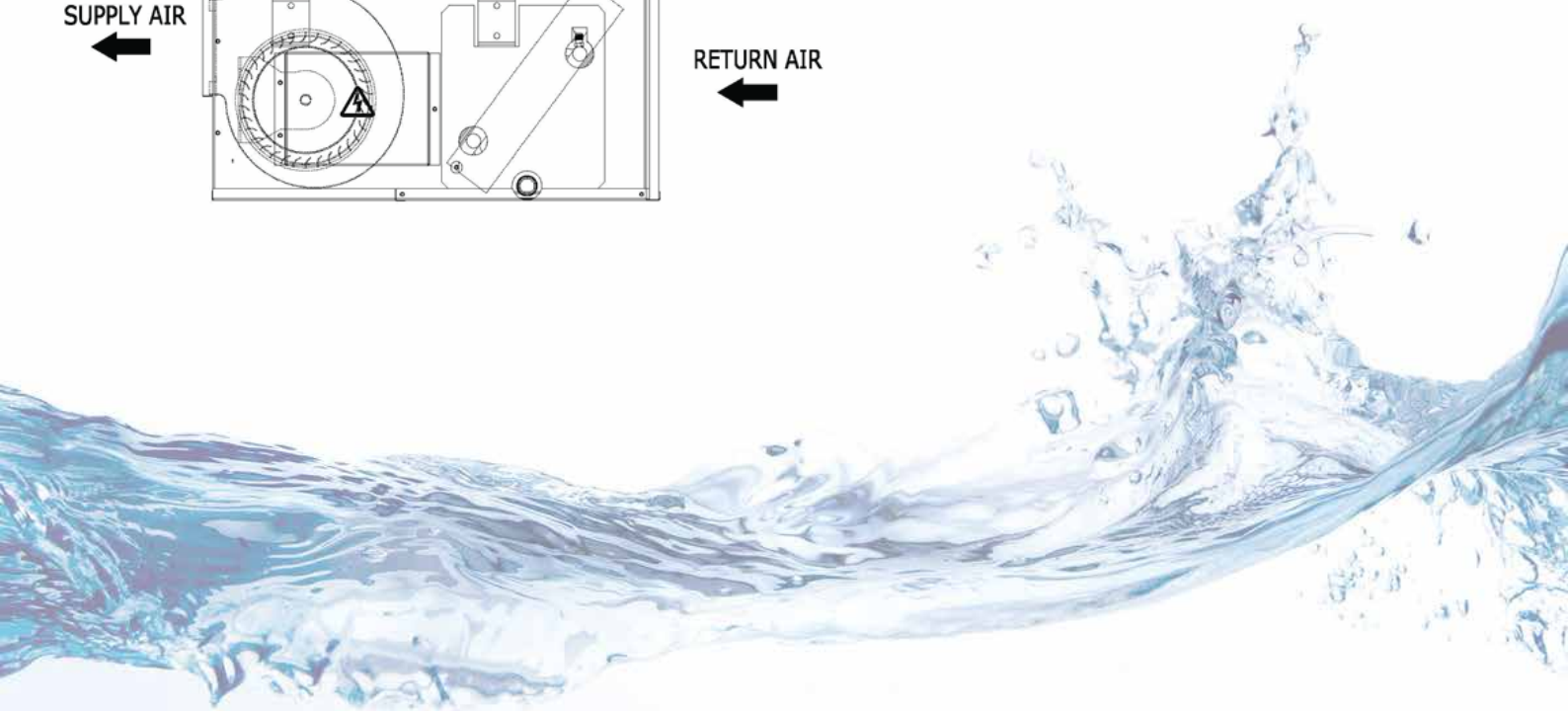
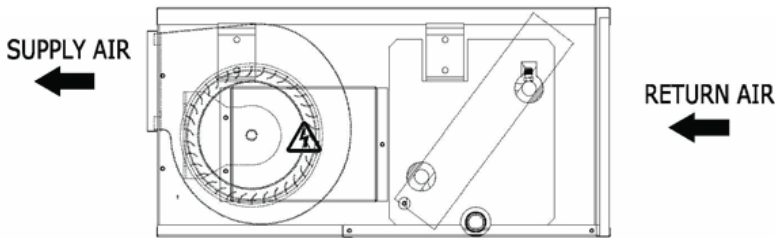


- Access Side:
 NRFH: horizontal version with RH Access (Facing from Air Flow Direction).
 NRFH: horizontal version with LH Access (Facing from Air Flow Direction).

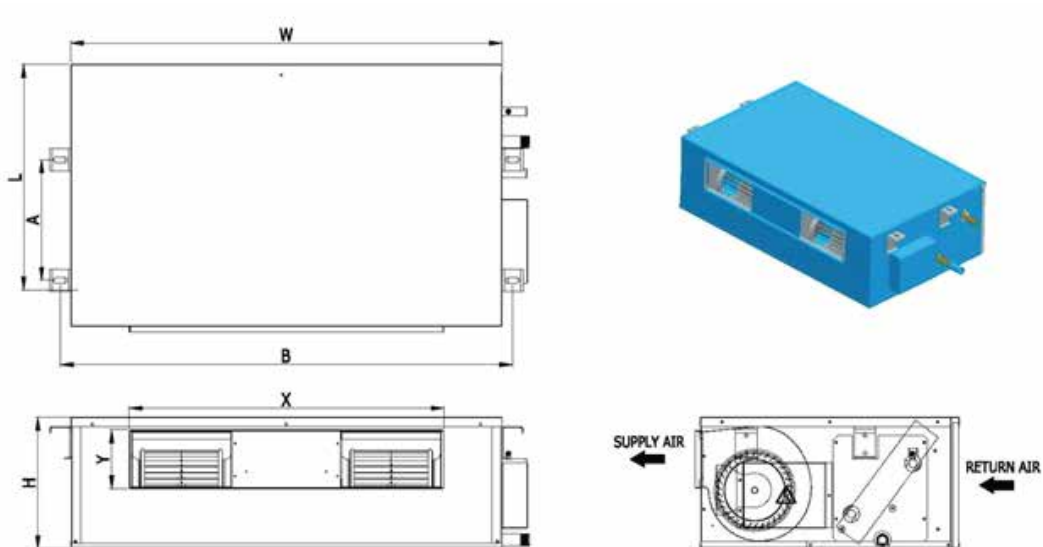
AIR SUPPLY / RETURN CONFIGURATIONS



Rear Air Intake and Front Discharge



CEILING SUSPENDED CONCEALED UNIT



Application:

Ceiling suspended, concealed application with chilled water coils. Units casing shall be thermally and acoustically insulated with 8 mm Self Adhesive insulation.

Model		NRF _H -06	NRF _H -08	NRF _H -10	NRF _H -12	NRF _H -14	NRF _H -16	NRF _H -20
Application		Standard Cooling						
COILS	No. of Rows	3 / 4						
	Face Area, ft ² (m ²)	2.79 (0.26)	2.79 (0.26)	2.79 (0.26)	3.50 (0.33)	3.50 (0.33)	4.59 (0.43)	4.59 (0.43)
	Connections, Sweat Type	3/4"						
	Fin Thickness, Inch (mm)	0.006 (0.152)						
	Air Vent	Manual and Furnished on All Coils						
	Fin Material	Phenolic Coated Blue Aluminum						
	Fin Spacing, FPI	12						
	Tube Material	Copper						
	Test Pressure	450 psig						
FANS	Number Per Unit	2						
	Type	Double Width Double Inlet Forward Curved Directly Driven						
	Construction	Galvanized Steel - Dynamically Balanced						
	Housing	Galvanized Steel						
MOTORS	Watt (hp) Premium Efficiency	250 (1/3)	250 (1/3)	373 (1/2)	373 (1/2)	373 (1/2)	560 (3/4)	560 (3/4)
	No. of Speed	3						
	Quantity	1	1	1	1	1	1	1
	Optional	EC Motors						
Finish		Galvanized Steel with Paint Finish						
Optional	Thermostat	Optional						
	2 Way / 3 Way Valves	Optional						
	Stainless Steel Drain Pan	Optional						
	Duct Heater	Optional						
	Thread Type Coil Connection	Optional						
Unit Operating Weight, kg		40	41	41	57	57	60	63

SUPPLY AIR PERFORMANCE

Model	Speed	External Static Pressure (Inch WG)								
		0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50
Air Flow (CFM)										
NRF_H-06	High	886	843	800	772	744	715	686	659	633
NRF_H-08	High	959	909	859	822	785	750	715	688	660
NRF_H-10	High	1236	1205	1173	1139	1106	1073	1040	1000	959
NRF_H-12	High	1358	1328	1298	1264	1229	1185	1141	1097	1053
NRF_H-14	High	1472	1431	1391	1344	1297	1244	1192	1145	1099
NRF_H-16	High	1997	1944	1892	1841	1791	1749	1707	1641	1574
NRF_H-20	High	2060	2007	1954	1898	1842	1789	1736	1668	1601
NRF_H-06	Med	774	734	694	664	634	605	576	554	531
NRF_H-08	Med	794	755	717	685	654	624	594	571	548
NRF_H-10	Med	1069	1048	1026	1001	975	946	916	880	845
NRF_H-12	Med	1225	1190	1156	1113	1070	1024	978	940	902
NRF_H-14	Med	1263	1228	1193	1145	1097	1046	996	957	918
NRF_H-16	Med	1768	1727	1686	1638	1590	1541	1492	1434	1376
NRF_H-20	Med	1782	1746	1710	1668	1625	1576	1527	1467	1408
NRF_H-06	Low	600	572	543	521	499	476	453	435	417
NRF_H-08	Low	609	581	553	533	513	490	468	450	431
NRF_H-10	Low	868	849	829	812	796	777	758	728	699
NRF_H-12	Low	971	947	922	885	849	809	770	740	710
NRF_H-14	Low	974	951	928	894	861	822	784	753	723
NRF_H-16	Low	1444	1415	1386	1357	1328	1292	1257	1208	1159
NRF_H-20	Low	1447	1414	1382	1354	1325	1295	1264	1215	1166

Notes:

1. CFM values are for Dry Coil conditions. Wet coils are 92% of Dry Coil CFM. Wet coil conditions occur when SH/TH ratio is 0.91 or less.
2. The above values include 4 Rows Cooling coil & Nylon Air Filter.
3. For ESP other than listed in the above tables, contact manufacturer's representative.

PERFORMANCE DATA TABLE (3ROW COIL) - ENGLISH SYSTEM

ESP (In.Wg)		0.1					0.2					0.3				
Size	Speed	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD
		CFM	Btuh	Btuh	GPM	FT.WG	CFM	Btuh	Btuh	GPM	FT.WG	CFM	Btuh	Btuh	GPM	FT.WG
6	High	886	28007	19439	5.63	9.55	800	25277	17544	5.08	8.62	744	23500	16311	4.72	8.02
8	High	959	30298	21029	6.09	11.63	859	27154	18847	5.46	10.42	785	24803	17215	4.99	9.52
10	High	1236	37103	26014	7.42	14.99	1173	35205	24683	7.04	14.23	1106	33185	23267	6.64	13.41
12	High	1358	34694	24988	6.97	14.64	1298	33182	23899	6.67	14.00	1229	31410	22623	6.31	13.25
14	High	1472	37606	27085	7.56	15.86	1391	35541	25598	7.14	14.99	1297	33141	23869	6.66	13.98
16	High	1997	52632	37918	10.53	21.52	1892	49871	35929	9.98	20.40	1791	47204	34007	9.44	19.30
20	High	2060	53115	38493	10.63	22.20	1954	50397	36523	10.08	21.07	1842	47503	34426	9.50	19.86
6	Med	774	24451	16971	4.91	8.34	694	21934	15224	4.41	7.48	634	20036	13907	4.03	6.83
8	Med	794	25083	17410	5.04	9.63	717	22648	15719	4.55	8.69	654	20669	14346	4.15	7.93
10	Med	1069	32083	22494	6.42	12.96	1026	30797	21593	6.16	12.44	975	29266	20519	5.86	11.83
12	Med	1225	31305	22548	6.29	13.21	1156	29533	21271	5.94	12.46	1070	27343	19694	5.50	11.53
14	Med	1263	32263	23237	6.48	13.61	1193	30482	21955	6.13	12.86	1097	28030	20189	5.63	11.82
16	Med	1768	46601	33573	9.32	19.06	1686	44443	32019	8.89	18.18	1590	41915	30197	8.39	17.14
20	Med	1782	45947	33298	9.19	19.21	1710	44105	31964	8.82	18.44	1625	41913	30375	8.39	17.52
6	Low	600	18961	13160	3.81	6.47	543	17164	11913	3.45	5.86	499	15753	10934	3.17	5.37
8	Low	609	19237	13352	3.87	7.38	553	17465	12122	3.51	6.70	513	16200	11244	3.26	6.22
10	Low	868	26052	18266	5.21	10.53	829	24889	17450	4.98	10.06	796	23878	16742	4.78	9.65
12	Low	971	24815	17873	4.99	10.47	922	23564	16972	4.74	9.94	849	21687	15620	4.36	9.15
14	Low	974	24881	17921	5.00	10.50	928	23720	17084	4.77	10.01	861	21991	15839	4.42	9.28
16	Low	1444	38065	27423	7.62	15.57	1386	36534	26320	7.31	14.94	1328	35003	25217	7.00	14.31
20	Low	1447	37310	27039	7.47	15.60	1382	35644	25831	7.13	14.90	1325	34175	24767	6.84	14.29

ESP (In.Wg)		0.4					0.5				
Size	Speed	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD
		CFM	Btuh	Btuh	GPM	FT.WG	CFM	Btuh	Btuh	GPM	FT.WG
6	High	686	21675	15044	4.36	7.39	633	19989	13874	4.02	6.82
8	High	715	22606	15690	4.54	8.68	660	20847	14470	4.19	8.00
10	High	1040	31226	21893	6.25	12.62	959	28796	20190	5.76	11.64
12	High	1141	29168	21008	5.86	12.30	1053	26899	19374	5.41	11.35
14	High	1192	30456	21936	6.12	12.85	1099	28087	20229	5.65	11.85
16	High	1707	45000	32420	9.00	18.40	1574	41499	29897	8.30	16.97
20	High	1736	44763	32440	8.96	18.71	1601	41280	29916	8.26	17.26
6	Med	576	18211	12640	3.66	6.21	531	16795	11657	3.38	5.73
8	Med	594	18770	13028	3.77	7.20	548	17310	12014	3.48	6.64
10	Med	916	27491	19275	5.50	11.11	845	25352	17775	5.07	10.24
12	Med	978	24997	18004	5.02	10.54	902	23053	16603	4.63	9.72
14	Med	996	25449	18330	5.12	10.74	918	23469	16904	4.72	9.90
16	Med	1492	39340	28342	7.87	16.09	1376	36280	26137	7.26	14.84
20	Med	1527	39370	28532	7.88	16.46	1408	36307	26312	7.26	15.18
6	Low	453	14301	9926	2.87	4.88	417	13188	9154	2.65	4.50
8	Low	468	14785	10262	2.97	5.67	431	13635	9464	2.74	5.23
10	Low	758	22746	15948	4.55	9.19	699	20976	14707	4.20	8.48
12	Low	770	19680	14174	3.96	8.30	710	18149	13072	3.65	7.66
14	Low	784	20029	14426	4.03	8.45	723	18471	13303	3.71	7.79
16	Low	1257	33124	23864	6.63	13.55	1159	30547	22007	6.11	12.49
20	Low	1264	32597	23623	6.52	13.63	1166	30061	21785	6.01	12.57

Note: Data is based on 80/67°F (26.7/19.4°C) air on-coil DBT/WBT and 45/55 °F (7.2/12.78°C) entering/leaving water temperature

PERFORMANCE DATA TABLE (4ROW COIL) - ENGLISH SYSTEM

ESP (In.Wg)		0.1					0.2					0.3				
Size	Speed	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD
		CFM	Btuh	Btuh	GPM	FT.WG	CFM	Btuh	Btuh	GPM	FT.WG	CFM	Btuh	Btuh	GPM	FT.WG
6	High	860	31356	21204	6.30	9.27	776	28300	19137	5.69	8.36	721	26310	17791	5.29	7.78
8	High	930	33921	22938	6.82	11.28	834	30402	20558	6.11	10.11	761	27770	18778	5.58	9.23
10	High	1199	40947	28025	8.19	14.54	1138	38853	26592	7.77	13.80	1073	36623	25066	7.33	13.01
12	High	1317	43281	29829	8.70	14.20	1260	41395	28529	8.32	13.58	1192	39184	27005	7.88	12.85
14	High	1427	46913	32332	9.43	15.39	1349	44338	30557	8.91	14.54	1258	41343	28493	8.31	13.56
16	High	1937	61828	42836	12.37	20.88	1835	58585	40589	11.72	19.78	1737	55452	38418	11.09	18.73
20	High	1998	63774	44184	12.76	21.54	1896	60510	41922	12.11	20.43	1787	57036	39515	11.41	19.26
6	Med	752	27435	18552	5.51	8.11	675	24610	16642	4.95	7.27	616	22481	15202	4.52	6.64
8	Med	772	28144	19032	5.66	9.36	697	25411	17183	5.11	8.45	636	23191	15682	4.66	7.71
10	Med	1039	35483	24286	7.10	12.60	997	34061	23312	6.82	12.10	948	32368	22154	6.48	11.50
12	Med	1191	39138	26974	7.87	12.84	1123	36922	25446	7.42	12.11	1040	34185	23560	6.87	11.21
14	Med	1227	40335	27799	8.11	13.23	1160	38109	26264	7.66	12.50	1066	35043	24152	7.04	11.49
16	Med	1719	54862	38009	10.98	18.53	1639	52322	36250	10.47	17.67	1546	49346	34188	9.87	16.66
20	Med	1732	55286	38303	11.06	18.67	1662	53071	36768	10.62	17.92	1580	50433	34941	10.09	17.03
6	Low	581	21209	14342	4.26	6.27	526	19199	12983	3.86	5.67	483	17621	11916	3.54	5.21
8	Low	590	21518	14551	4.33	7.15	536	19535	13210	3.93	6.50	497	18121	12254	3.64	6.03
10	Low	841	28724	19660	5.75	10.20	804	27442	18782	5.49	9.75	771	26328	18019	5.27	9.35
12	Low	941	30928	21315	6.22	10.14	894	29369	20241	5.90	9.63	822	27029	18628	5.43	8.87
14	Low	944	31011	21372	6.23	10.17	900	29563	20375	5.94	9.70	834	27408	18889	5.51	8.99
16	Low	1399	44674	30951	8.94	15.09	1343	42877	29706	8.58	14.48	1287	41081	28461	8.22	13.87
20	Low	1402	44755	31007	8.95	15.11	1339	42757	29623	8.55	14.44	1284	40995	28402	8.20	13.84

ESP (In.Wg)		0.4					0.5				
Size	Speed	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD
		CFM	Btuh	Btuh	GPM	FT.WG	CFM	Btuh	Btuh	GPM	FT.WG
6	High	665	24267	16410	4.88	7.17	614	22379	15133	4.50	6.61
8	High	694	25310	17115	5.09	8.42	640	23341	15783	4.69	7.76
10	High	1009	34461	23586	6.90	12.24	931	31780	21751	6.36	11.29
12	High	1107	36387	25078	7.31	11.93	1021	33556	23127	6.74	11.01
14	High	1156	37994	26185	7.64	12.46	1066	35038	24148	7.04	11.49
16	High	1656	52863	36625	10.58	17.85	1527	48750	33775	9.75	16.46
20	High	1684	53746	37236	10.75	18.15	1553	49564	34339	9.92	16.74
6	Med	560	20434	13818	4.11	6.04	517	18844	12743	3.79	5.57
8	Med	577	21060	14241	4.23	7.00	532	19422	13133	3.90	6.46
10	Med	890	30405	20810	6.08	10.80	821	28039	19191	5.61	9.96
12	Med	951	31252	21538	6.28	10.25	877	28820	19863	5.79	9.45
14	Med	968	31817	21928	6.40	10.44	893	29341	20222	5.90	9.62
16	Med	1451	46314	32087	9.27	15.64	1338	42711	29591	8.55	14.42
20	Med	1484	47373	32821	9.48	16.00	1369	43688	30268	8.74	14.75
6	Low	439	15996	10817	3.22	4.73	404	14752	9976	2.97	4.36
8	Low	453	16538	11183	3.32	5.50	418	15251	10313	3.07	5.07
10	Low	734	25079	17165	5.02	8.91	677	23128	15829	4.63	8.21
12	Low	746	24528	16904	4.93	8.05	688	22620	15589	4.55	7.42
14	Low	760	24963	17204	5.02	8.19	700	23021	15866	4.63	7.55
16	Low	1218	38876	26934	7.78	13.13	1123	35851	24838	7.17	12.11
20	Low	1225	39102	27090	7.82	13.20	1130	36060	24983	7.21	12.18

Note: Data is based on 80/67°F (26.7/19.4°C) air on-coil DBT/WBT and 45/55 °F (7.2/12.78°C) entering/leaving water temperature

PERFORMANCE DATA TABLE (3ROW COIL) - METRIC SYSTEM

ESP (Pa)		25					50					75				
Size	Speed	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD
		l/s	kW	kW	l/s	kPa	l/s	kW	kW	l/s	kPa	l/s	kW	kW	l/s	kPa
6	High	418	8.20	5.69	0.36	28.57	377	7.40	5.14	0.32	25.78	351	6.88	4.78	0.30	23.97
8	High	452	8.87	6.16	0.38	34.77	406	7.95	5.52	0.34	31.16	371	7.26	5.04	0.31	28.46
10	High	583	10.86	7.62	0.47	44.83	553	10.31	7.23	0.44	42.53	522	9.72	6.81	0.42	40.09
12	High	641	10.16	7.32	0.44	43.76	613	9.72	7.00	0.42	41.85	580	9.20	6.62	0.40	39.62
14	High	694	11.01	7.93	0.48	47.43	657	10.41	7.50	0.45	44.83	612	9.70	6.99	0.42	41.80
16	High	942	15.41	11.10	0.66	64.36	893	14.60	10.52	0.63	60.98	845	13.82	9.96	0.60	57.72
20	High	972	15.55	11.27	0.67	66.38	922	14.76	10.69	0.64	62.99	869	13.91	10.08	0.60	59.37
6	Med	365	7.16	4.97	0.31	24.94	328	6.42	4.46	0.28	22.37	299	5.87	4.07	0.25	20.44
8	Med	374	7.34	5.10	0.32	28.78	338	6.63	4.60	0.29	25.99	309	6.05	4.20	0.26	23.72
10	Med	504	9.39	6.59	0.40	38.76	484	9.02	6.32	0.39	37.21	460	8.57	6.01	0.37	35.36
12	Med	578	9.17	6.60	0.40	39.49	545	8.65	6.23	0.37	37.25	505	8.01	5.77	0.35	34.49
14	Med	596	9.45	6.80	0.41	40.69	563	8.93	6.43	0.39	38.45	517	8.21	5.91	0.36	35.35
16	Med	835	13.65	9.83	0.59	56.98	795	13.01	9.38	0.56	54.35	750	12.27	8.84	0.53	51.25
20	Med	841	13.45	9.75	0.58	57.42	807	12.91	9.36	0.56	55.12	767	12.27	8.89	0.53	52.38
6	Low	283	5.55	3.85	0.24	19.34	256	5.03	3.49	0.22	17.51	235	4.61	3.20	0.20	0.34
8	Low	287	5.63	3.91	0.24	22.07	261	5.11	3.55	0.22	20.04	242	4.74	3.29	0.21	0.39
10	Low	410	7.63	5.35	0.33	31.48	391	7.29	5.11	0.31	30.07	375	6.99	4.90	0.30	0.61
12	Low	458	7.27	5.23	0.31	31.30	435	6.90	4.97	0.30	29.72	401	6.35	4.57	0.28	0.58
14	Low	459	7.29	5.25	0.32	31.38	438	6.95	5.00	0.30	29.92	406	6.44	4.64	0.28	0.59
16	Low	682	11.15	8.03	0.48	46.55	654	10.70	7.71	0.46	44.67	627	10.25	7.38	0.44	0.90
20	Low	683	10.92	7.92	0.47	46.63	652	10.44	7.56	0.45	44.55	625	10.01	7.25	0.43	0.90

ESP (In.Wg)		100					125				
Size	Speed	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD
		l/s	kW	kW	l/s	kPa	l/s	kW	kW	l/s	kPa
6	High	323	6.35	4.41	0.27	22.11	298	5.85	4.06	0.25	20.39
8	High	338	6.62	4.59	0.29	25.94	311	6.10	4.24	0.26	23.92
10	High	491	9.14	6.41	0.39	37.73	453	8.43	5.91	0.36	34.79
12	High	539	8.54	6.15	0.37	36.79	497	7.88	5.67	0.34	33.93
14	High	562	8.92	6.42	0.39	38.41	519	8.22	5.92	0.36	35.43
16	High	806	13.18	9.49	0.57	55.03	743	12.15	8.75	0.52	50.75
20	High	819	13.11	9.50	0.57	55.95	755	12.09	8.76	0.52	51.59
6	Med	272	5.33	3.70	0.23	18.57	251	4.92	3.41	0.21	17.13
8	Med	280	5.50	3.81	0.24	21.54	258	5.07	3.52	0.22	19.86
10	Med	432	8.05	5.64	0.35	33.21	399	7.42	5.20	0.32	30.63
12	Med	462	7.32	5.27	0.32	31.53	426	6.75	4.86	0.29	29.08
14	Med	470	7.45	5.37	0.32	32.10	433	6.87	4.95	0.30	29.60
16	Med	704	11.52	8.30	0.50	48.11	650	10.62	7.65	0.46	44.36
20	Med	720	11.53	8.35	0.50	49.21	664	10.63	7.70	0.46	45.38
6	Low	214	4.19	2.91	0.18	14.59	197	3.86	2.68	0.17	13.45
8	Low	221	4.33	3.00	0.19	16.97	204	3.99	2.77	0.17	15.65
10	Low	358	6.66	4.67	0.29	27.48	330	6.14	4.31	0.26	25.34
12	Low	364	5.76	4.15	0.25	24.82	335	5.31	3.83	0.23	22.89
14	Low	370	5.86	4.22	0.25	25.26	341	5.41	3.90	0.23	23.30
16	Low	593	9.70	6.99	0.42	40.50	547	8.94	6.44	0.39	37.35
20	Low	596	9.54	6.92	0.41	40.74	550	8.80	6.38	0.38	37.57

Note: Data is based on 80/67°F (26.7/19.4°C) air on-coil DBT/WBT and 45/55 °F (7.2/12.78°C) entering/leaving water temperature

PERFORMANCE DATA TABLE (4ROW COIL) - METRIC SYSTEM

ESP (Pa)		25					50					75				
Size	Speed	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD
		l/s	kW	kW	l/s	kPa	l/s	kW	kW	l/s	kPa	l/s	kW	kW	l/s	kPa
6	High	406	9.18	6.21	0.40	27.71	366	8.29	5.60	0.36	25.01	341	7.70	5.21	0.33	23.25
8	High	439	9.93	6.72	0.43	33.72	393	8.90	6.02	0.39	30.22	359	8.13	5.50	0.35	27.61
10	High	566	11.99	8.21	0.52	43.48	537	11.38	7.79	0.49	41.26	506	10.72	7.34	0.46	38.89
12	High	621	12.67	8.73	0.55	42.45	594	12.12	8.35	0.52	40.60	563	11.47	7.91	0.50	38.43
14	High	673	13.74	9.47	0.59	46.01	637	12.98	8.95	0.56	43.48	594	12.11	8.34	0.52	40.55
16	High	914	18.10	12.54	0.78	62.43	866	17.15	11.88	0.74	59.15	820	16.24	11.25	0.70	55.99
20	High	943	18.67	12.94	0.81	64.39	895	17.72	12.28	0.76	61.10	843	16.70	11.57	0.72	57.59
6	Med	355	8.03	5.43	0.35	24.24	319	7.21	4.87	0.31	21.75	291	6.58	4.45	0.29	19.87
8	Med	364	8.24	5.57	0.36	27.98	329	7.44	5.03	0.32	25.26	300	6.79	4.59	0.29	23.06
10	Med	490	10.39	7.11	0.45	37.68	471	9.97	6.83	0.43	36.17	447	9.48	6.49	0.41	34.37
12	Med	562	11.46	7.90	0.50	38.38	530	10.81	7.45	0.47	36.21	491	10.01	6.90	0.43	33.53
14	Med	579	11.81	8.14	0.51	39.56	547	11.16	7.69	0.48	37.37	503	10.26	7.07	0.44	34.37
16	Med	811	16.06	11.13	0.69	55.39	773	15.32	10.61	0.66	52.83	730	14.45	10.01	0.62	49.82
20	Med	817	16.19	11.22	0.70	55.82	785	15.54	10.77	0.67	53.59	746	14.77	10.23	0.64	50.92
6	Low	274	6.21	4.20	0.27	18.74	249	5.62	3.80	0.24	16.97	228	5.16	3.49	0.22	15.57
8	Low	278	6.30	4.26	0.27	21.39	253	5.72	3.87	0.25	19.42	234	5.31	3.59	0.23	18.01
10	Low	397	8.41	5.76	0.36	30.50	379	8.04	5.50	0.35	29.14	364	7.71	5.28	0.33	27.96
12	Low	444	9.06	6.24	0.39	30.33	422	8.60	5.93	0.37	28.80	388	7.91	5.45	0.34	26.51
14	Low	445	9.08	6.26	0.39	30.41	425	8.66	5.97	0.37	28.99	394	8.03	5.53	0.35	26.88
16	Low	660	13.08	9.06	0.56	45.11	634	12.55	8.70	0.54	43.29	607	12.03	8.33	0.52	41.48
20	Low	661	13.10	9.08	0.56	45.19	632	12.52	8.67	0.54	43.17	606	12.00	8.32	0.52	41.39

ESP (In.Wg)		100					125				
Size	Speed	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD	Air Flow	Total capacity	Sensible Capacity	Water Flow	WPD
		l/s	kW	kW	l/s	kPa	l/s	kW	kW	l/s	kPa
6	High	314	7.11	4.80	0.31	21.44	289	6.55	4.43	0.28	19.78
8	High	328	7.41	5.01	0.32	25.16	302	6.83	4.62	0.30	23.20
10	High	476	10.09	6.91	0.44	36.59	439	9.31	6.37	0.40	33.75
12	High	522	10.65	7.34	0.46	35.69	482	9.83	6.77	0.43	32.91
14	High	545	11.13	7.67	0.48	37.26	503	10.26	7.07	0.44	34.36
16	High	781	15.48	10.72	0.67	53.38	721	14.27	9.89	0.62	49.22
20	High	794	15.74	10.90	0.68	54.27	733	14.51	10.05	0.63	50.05
6	Med	265	5.98	4.05	0.26	18.06	244	5.52	3.73	0.24	16.65
8	Med	272	6.17	4.17	0.27	20.94	251	5.69	3.85	0.25	19.31
10	Med	420	8.90	6.09	0.38	32.29	388	8.21	5.62	0.35	29.78
12	Med	449	9.15	6.31	0.40	30.65	414	8.44	5.82	0.37	28.26
14	Med	457	9.32	6.42	0.40	31.20	421	8.59	5.92	0.37	28.78
16	Med	685	13.56	9.40	0.58	46.76	632	12.51	8.66	0.54	43.13
20	Med	700	13.87	9.61	0.60	47.83	646	12.79	8.86	0.55	44.11
6	Low	207	4.68	3.17	0.20	14.14	191	4.32	2.92	0.19	13.04
8	Low	214	4.84	3.27	0.21	16.44	197	4.47	3.02	0.19	15.16
10	Low	347	7.34	5.03	0.32	26.63	320	6.77	4.63	0.29	24.56
12	Low	352	7.18	4.95	0.31	24.06	325	6.62	4.56	0.29	22.18
14	Low	358	7.31	5.04	0.32	24.48	330	6.74	4.65	0.29	22.58
16	Low	575	11.38	7.89	0.49	39.25	530	10.50	7.27	0.45	36.20
20	Low	578	11.45	7.93	0.49	39.48	533	10.56	7.32	0.46	36.41

Note: Data is based on 80/67°F (26.7/19.4°C) air on-coil DBT/WBT and 45/55 °F (7.2/12.78°C) entering/leaving water temperature

Casing:

The Casing is made of Galvanized Sheet metal to ensure rigidity, efficiency and optimum performance.

The Fan Coil unit consists of the Fan and Motor assembly and Coil Assembly securely mounted on a Painted GI Drain Pan.

The ½” Aluminum or Nylon Filter is provided in the Factory mounted plenum.

1” Filter is supplied as an Optional if required.

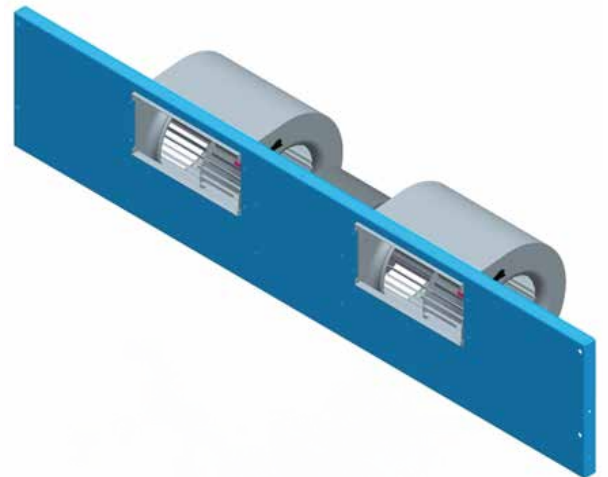
Fan and Motor Assembly:

Fans are statically & dynamically balanced and directly coupled to a Direct Drive single phase and 3 Speed motor.

The motor is capacitor-run induction Class B type with long life high performance ball bearing

The Fan and Motor assembly is mounted on a welded deck panel assembly to ensure the high performance and eliminate the vibration.

Power Supply: 220-240 V / 1 Ph / 50-60 Hz.



Chilled Water Coil:

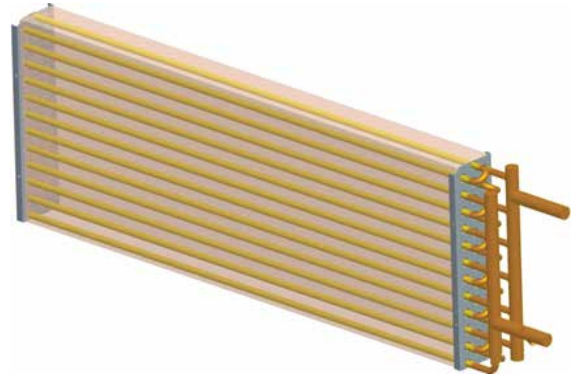
Air temperature is very important for a pleasant climate. Therefore, air heaters and coolers play a significant role in room ventilation units. Chiefly, finned heat exchangers are used as heaters or coolers.

Coil constructed with aluminum corrugated fins and seamless copper tubes. The copper tubes are mechanically bonded into aluminum fin collars and GI End Sheets. Coils leak tested at 350 psi air pressure.

The fins are designed purposely for better heat transfer efficiency and moisture carry-over limit performance. Capacity, Water pressure drop and section procedure is designed in accordance with AHRI standard 410.

Options:

- Tinned Copper Fins
- Pre-coated Blue Fins
- Anti Corrosive Coating

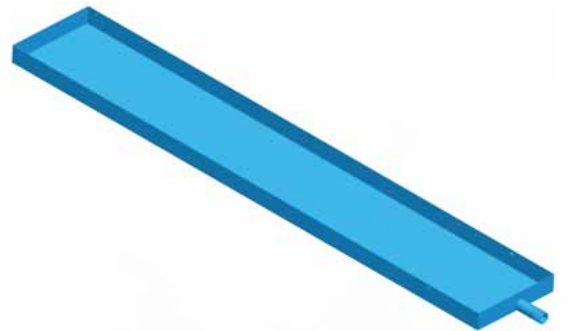


Drain Pan:

Drain Pan is constructed from a one piece Painted galvanized sheet metal welded carefully to protect from leakage. The insulation shall be special designed to be perfect

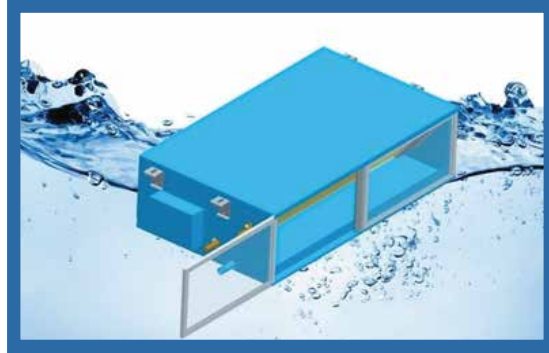
Options:

- Stainless Steel Drain Pan

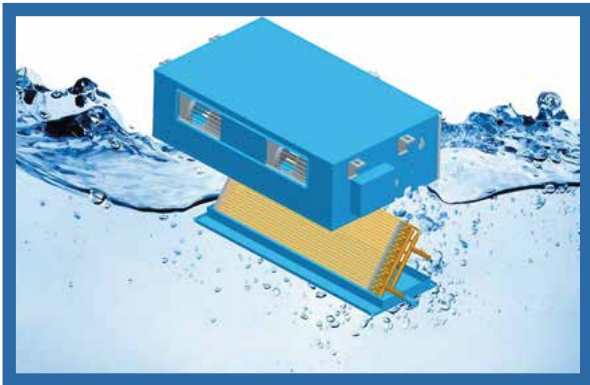


SERVICE ACCESSIBILITY

Filter Access:



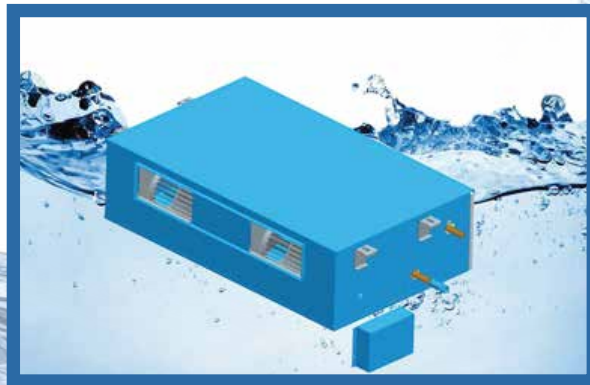
Coil Access:



Blower Access:

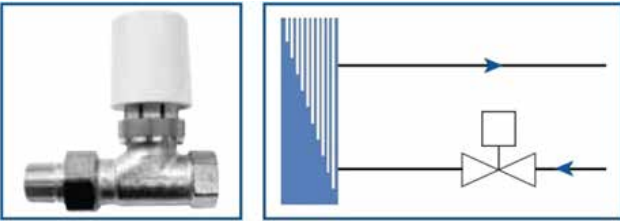


Electrical Access:

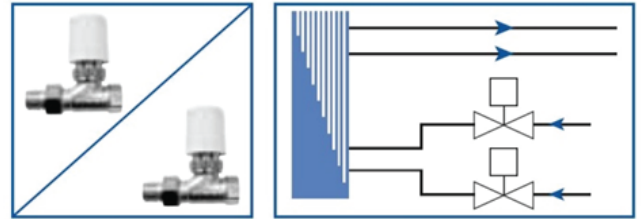


AVAILABLE OPTIONAL VALVES

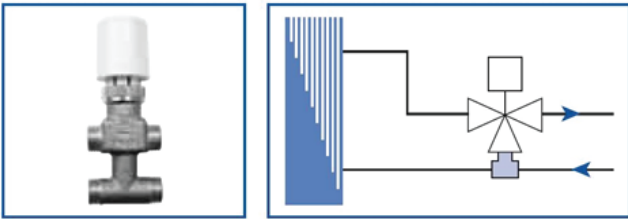
2-way Control Valve - 2-pipe System - 230 Volt
(Or Optional 24 Volt) Thermal Actuator



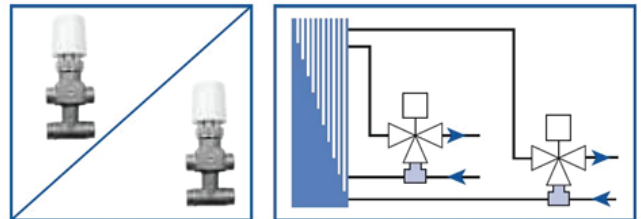
2-way Control Valve - 2-pipe System - 230 Volt
(Or Optional 24 Volt) Thermal Actuator



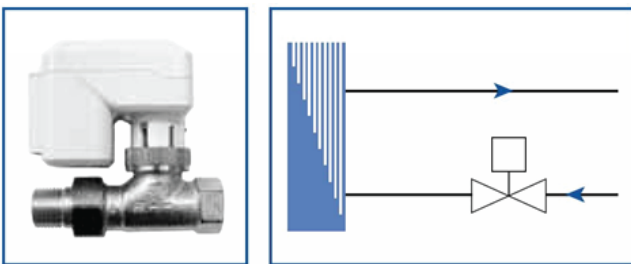
2-way Control Valve - 2-pipe System - 230 Volt
(Or Optional 24 Volt) Thermal Actuator



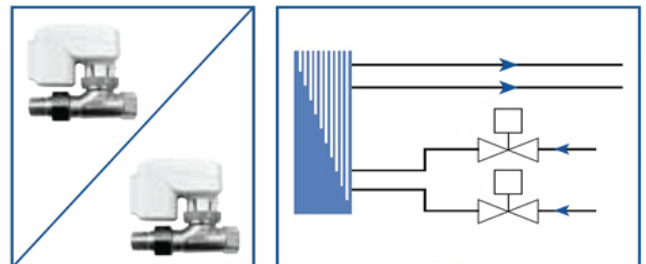
4-way control valve - 4-pipe system - 230 Volt
(or optional 24 Volt) thermal actuator



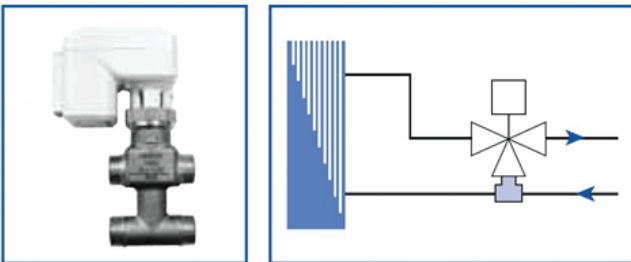
2-way control valve - 2-pipe system -
3-point modulating actuator*



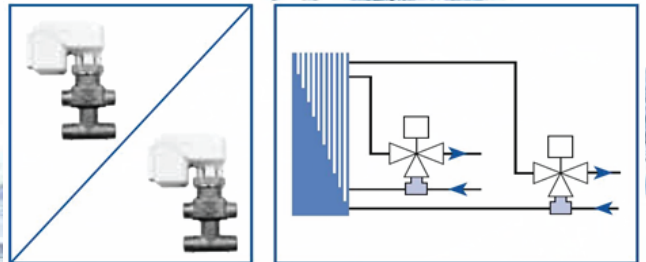
2-way control valve - 4-pipe system -
3-point modulating actuator*



4-way control valve - 2-pipe system -
3-point modulating actuator*



4-way control valve - 4-pipe system -
3-point modulating actuator*



(*) Actuator available with Honeywell or similar digital controllers (consult factory)

Thermostats

Decorative wall mounted type Operating mode: cooling or heating Controlling valve packages & Electric heater

Micro-processor controlled thermostat with intelligent control algorithm (PID) Consequently, apart from the display of the room applications. Temperature, the control quality is greatly enhanced in all applications



LH / RH Access Side Orientation

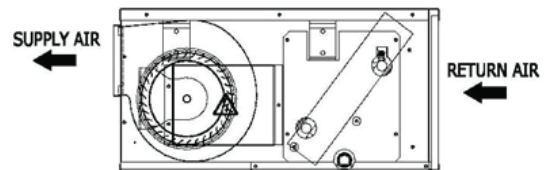
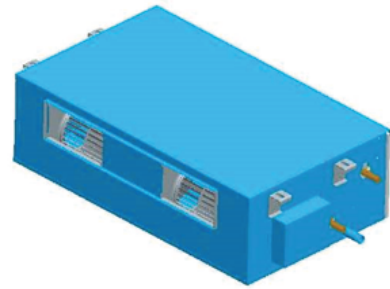
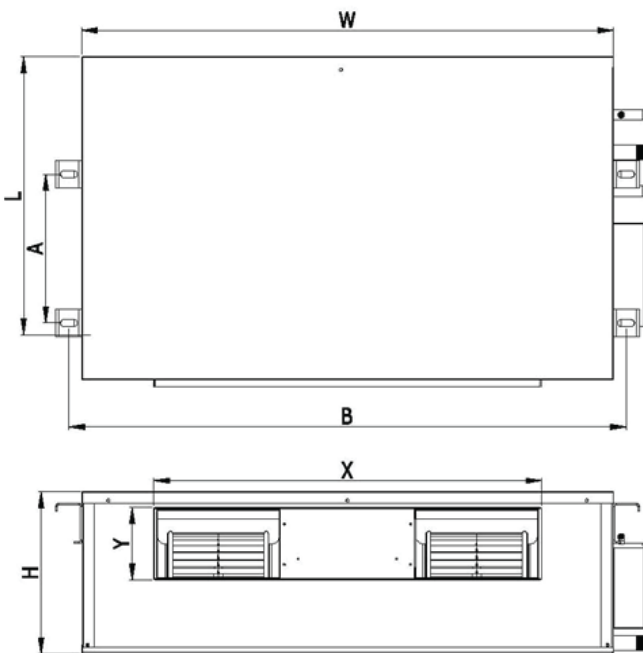


LH Access when Facing from Air Flow Direction



RH Access when Facing from Air Flow Direction

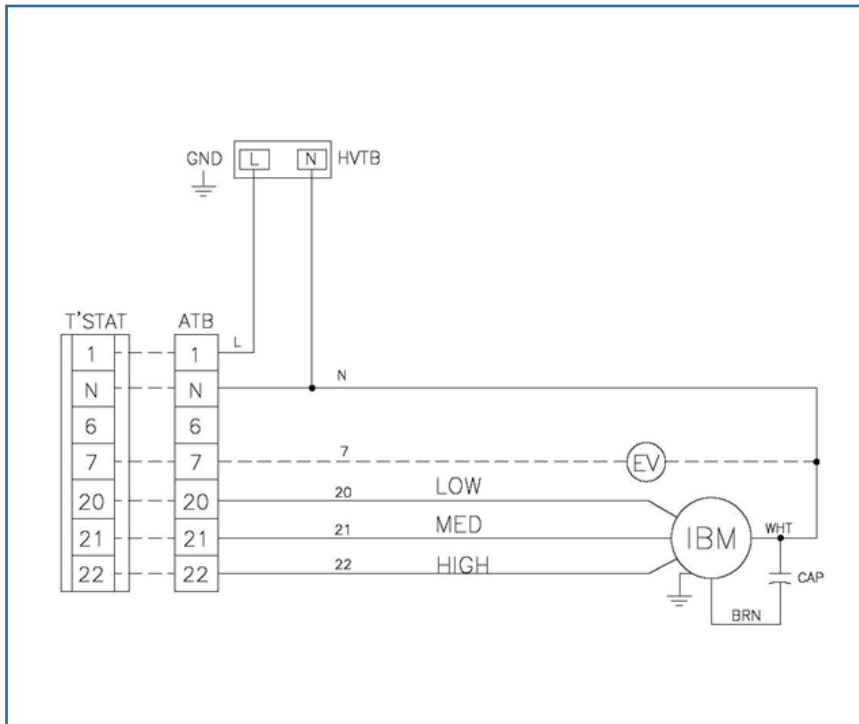
UNIT DIMENSIONAL DETAILS



MODEL	DIMENSIONS					
	L	W	H	A	B	DUCT CONN. (X x Y)
NRF _H -08	600	1000	300	275	1048	759.9 X 160
NRF _H -10	600	1000	300	275	1048	759.9 X 160
NRF _H -12	620	1064	355	295	1112	824 X 161
NRF _H -14	620	1064	355	295	1112	824 X 161
NRF _H -16	620	1349	355	295	1397	824 X 161
NRF _H -20	710	1349	355	385	1397	824 X 161

ALL DIMENSIONS ARE IN mm

WIRING DIAGRAM



LEGEND

ATB	-	AUXILIARY TERMINAL BLOCK
CAP	-	CAPACITOR
EV	-	ELECTRIC VALVE
CND	-	LUC GROUND
HVTB	-	HIGH VOLTAGE TERMINAL BLOCK
IBM	-	INDOOR BLOWER MOTOR
T'SAT	-	THERMOSTAT
—	-	FACTORY WIRING
- - -	-	FILEDWIRING

NOTES:

1. MOTOR IS THERMALLY PROTECTED
2. USE COPPER CONDUCTORS ONLY

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