



39G

Galaxy

Air Handling Unit



	Page
Features	3 - 5
Basic Construction	6
Quick Selection	7
Dimension	8 - 9
Fan Discharge Outlet Dimension	10
Horizontal Fan Arrangements	11
Mixing Box Section in Module	12
Center to Center Distance for Fan & Motor configuration	13 - 14
Base Unit Casing Weight	15 - 17
Fan Motor Weight	18
Fan Blower Specifications	19 - 20
Filter Type, Dimension and Quantity	21
Coil Weight	22
Guide Specifications	23 - 26

CISB 39G offers

- Units are design in accordance to:
 - ARI Standard for coils (ARI 410)
- Double wall with 1" & 2" 40kg/m³ CFC-Free PU insulation (HCFC 141b). Isolates insulation exposure to the air stream.
- Wide range of coil offering – 4, 5, 6, 7, 8 rows and 8, 10, 12, 14 FPI for chilled water. Optimized coil circuiting. DX Coil (4, 6 rows) and Hot Water Coil (1, 2 rows) are also available.
- All chilled water, DX and Hot Water coils are factory pressure tested at 400 psig as standard.
- Coil tracks enable easy coil removal for complete cleaning and assurance of a dry unit interior.
- Powder painted sloped galvanized steel drain pan with bottom drainage.
- Forward curved, Backward curved and Airfoil fan.
 - Forward curved – sizes 160 to 1000mm diameter
 - Backward curved / Airfoil blade – sizes 225 to 1000mm diameter
- Low leak construction with hex socket compression, type latch and nitrile gasket on mating panel parameter.
- Factory installed unit base of 100mm height, constructed of 14 gauge galvanized steel.

50mm Non-Thermal Bridge (NTB) features



- Composite Corner Piece (Trileg) – ABS material.
- Non-Thermal Bridge (NTB) Aluminium Frame Extrusion.
- Non-Thermal Bridge (NTB) sandwiched panels and access doors.
- Non-Thermal Bridge (NTB) quality panel to frame fitting.
- No condensation problems in humid environment at low internal temperatures.
- Rigid construction with aluminium frame work and machine-injected rigid polyurethane foam panels.
- Spring mounted fans for low vibration transmission.



Compression Latch (Hex Socket)

Only requires the use of hexagon wrench to open / close the access door



Chilled Water Coil with Steel Header

Coils are of aluminium/copper plate fins with belled collars and bonded to 12.7mm OD copper tubes by mechanically expansion. The coils have galvanized steel casing and steel headers with male threaded connections.



Sloping Drain Pan and Drain Outlet

New drain pan assembly for better drainage, bottom access drain and sloping for rapid water flow and better Internal Air Quality (IAQ). Ready to couple with male connection.



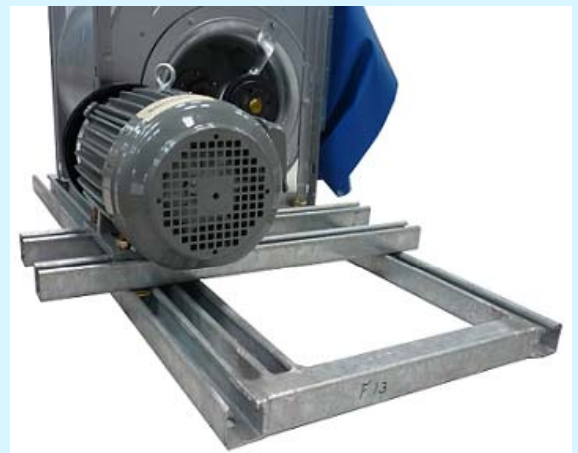
Direct Expansion Coil (DX coil)

Coils are aluminium/copper with belled collars and bonded 12.7mm OD copper tubes by mechanically expansion. Coil are provided with brass distributors with sweat type connections.



Spring Isolator

As standard from the factory, the fan and motor assembly are mounted on a common base with color-coded internally mounted spring isolators, which saves site installation cost.



Assembly Fan Housing Motor and Base

FMB are made of painted heavy gauge mild steel (for fan size 450 and above) or power strut type (for fan size 160 to 400) to ensure proper and easy installation fan housing and motor.



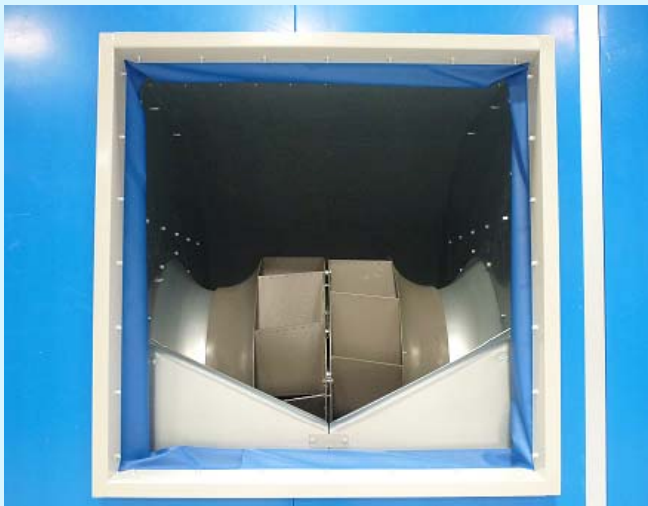
Bearing Arm

Self aligning double row ball bearings mounted within a cast iron housing supported on tubular bearing arm assembly.



Taper Lock Pulley

Ability to change diameter of pulley according to fan shaft. Pulleys with taper lock bush allows for convenient dismantling and maintenance of drive package, besides offering flexibility in interchanging for different shaft sizes.



Fan Discharge Collar

Flanged discharge collar to provide easy ducting connection.



Handle Grab

Large and Non-Conductive handles for easy panel removal.



Accessory High Velocity Filter (HVF) Frame

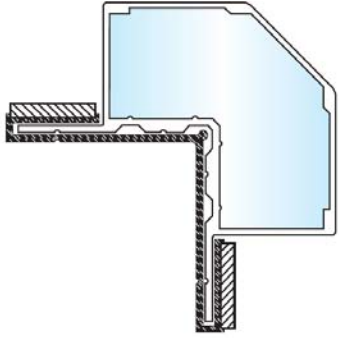
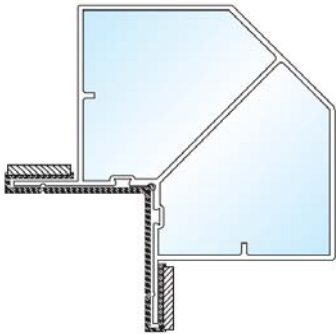
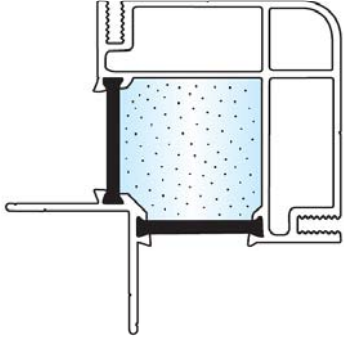
For "free air return" application, factory supplied 75mm HVF track is an option instead of one module casing resulting in shorter overall unit length.

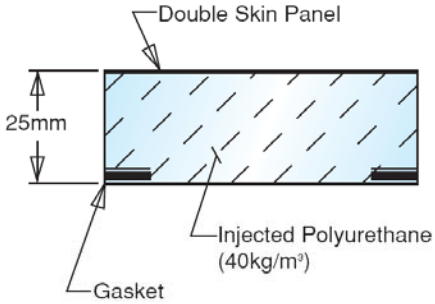
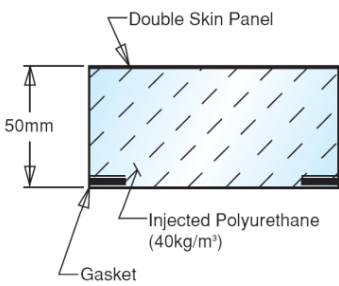
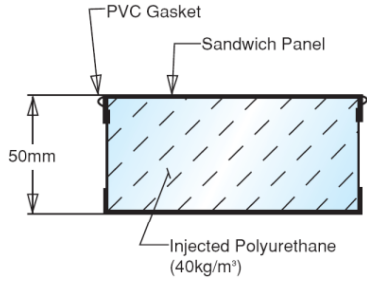


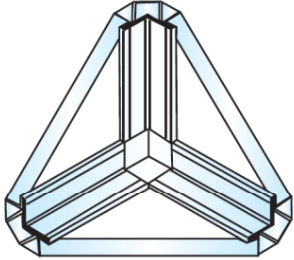
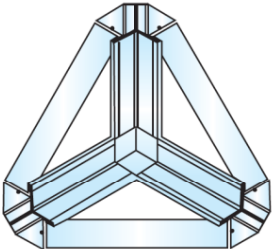
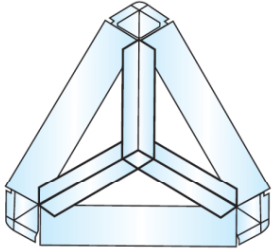
Dampers

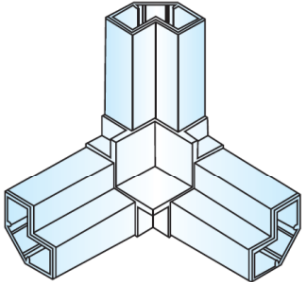
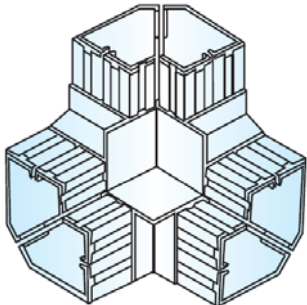
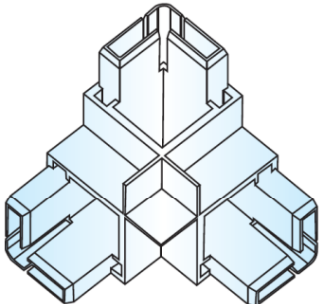
Mixing boxes are equipped with opposed blades interconnected outside with return air dampers.

Basic Construction

39G 25mm Frame Construction	39G 50mm Frame Construction	39G 50mm NTB Frame Construction
		

39G 25mm Panel (Double Skin)	39G 50mm Panel (Double Skin)	39G 50mm NTB Panel (Sandwich)
 <p>Double Skin Panel</p> <p>25mm</p> <p>Gasket</p> <p>Injected Polyurethane (40kg/m³)</p>	 <p>Double Skin Panel</p> <p>50mm</p> <p>Gasket</p> <p>Injected Polyurethane (40kg/m³)</p>	 <p>PVC Gasket</p> <p>Sandwich Panel</p> <p>50mm</p> <p>Injected Polyurethane (40kg/m³)</p>

39G 25mm Frame Panel Construction	39G 50mm Frame Panel Construction	39G 50mm NTB Frame Panel Construction
		

39G 25mm Trileg Construction	39G 50mm Trileg Construction	39G 50mm NTB Trileg Construction
		

Quick Selection

Carrier offers you three easy quick selection steps for 39G:

- 1.) Determine the unit size based on air flow or coil face area.
 - a.) 1.5m/s minimum velocity (cooling or heating).
 - b.) 2.5m/s maximum velocity for cooling coil without drift eliminator.
 - c.) 4.5m/s maximum velocity for heating coil only.
- 2.) Use roughing-in dimensions (Pg 8) to find approximate size of base unit and it's accessory sections.
- 3.) Compute weights of base casing unit (Pg 15-17).
- 4.) To compute total of unit weight and respective fan, coil and motor drive package weight (if applicable) .

Unit Size Selection

39G Unit Size	Coil Face Area (m ²)	Air Volume (l/s) x 1000		
		1.5 m/s	2.5 m/s	4.5 m/s
0608	0.221	0.33	0.55	0.99
0609	0.302	0.45	0.76	1.36
0711	0.447	0.67	1.12	2.01
0811	0.559	0.84	1.40	2.51
0912	0.685	1.03	1.71	3.08
0913	0.754	1.13	1.89	3.39
0914	0.824	1.24	2.06	3.71
1015	1.057	1.58	2.64	4.75
1117	1.372	2.06	3.43	6.17
1317	1.646	2.47	4.11	7.41
1418	1.858	2.79	4.65	8.36
1420	2.099	3.15	5.25	9.45
1621	2.570	3.86	6.43	11.57
1822	3.203	4.80	8.01	14.41
1825	3.698	5.55	9.25	16.64
2025	3.983	5.97	9.96	17.92
2125	4.267	6.40	10.67	19.20
2226	4.606	6.91	11.52	20.73
2230	5.394	8.09	13.48	24.27
2234	6.181	9.27	15.45	27.81
2634	7.377	11.07	18.44	33.20

Note:

For application where face velocity exceed 2.6m/s (for cooling only), drift eliminators is recommended to avoid moisture carry over under normal operating condition.

Computer Selection

We have made available a computer program to finalize your selections. Please contact your Carrier representative for a computer selection based on your "Quick Selection" plus the design parameters of your application.



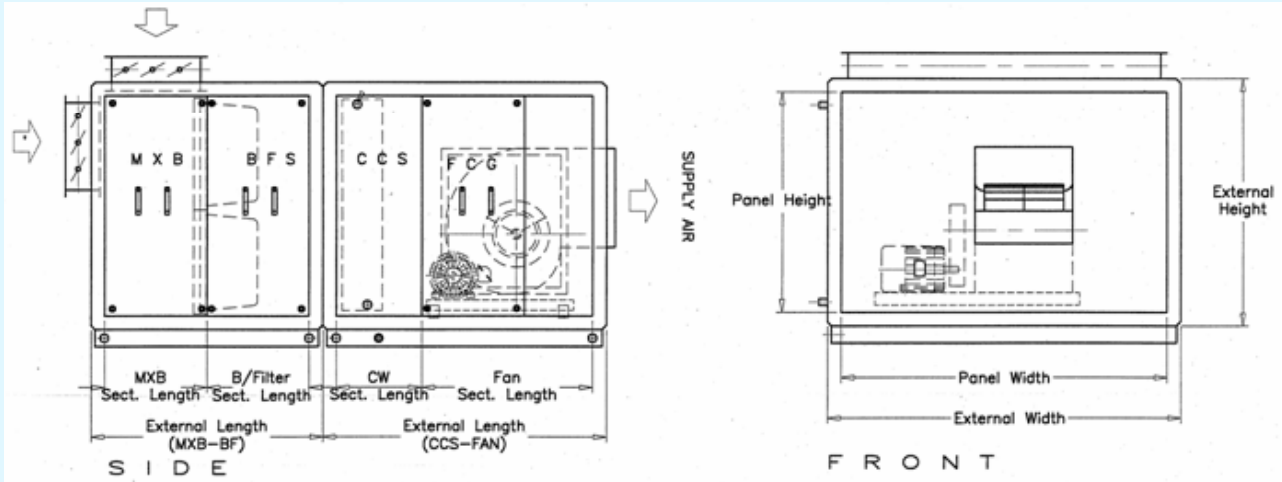
Dimensions

39G Unit Sizes	Internal Size			External Size			Internal Size Section												Plenum Access				
	Fan Size	Height (mm)		Width (mm)		50mm		Mixing Box Section		Filter Section		Coil Section		Heater Section		Fan Section		Diffuser Section		Discharge Section with Damper			
		Height (mm)	Width (mm)	Height (mm)	Width (mm)	Height (mm)	Width (mm)	Mixing Box	Economized Mixing Box	Bag Filter/LVF	HVF Filter	HEPA Filter	Cooling coil / Dual coil (Horizontal)	Hot water coil (Horizontal)	HTR	Horizontal	Vertical				Length (mm)	Length (mm)	
0608	160	600	800	850	700	900	500	1000	500	600	300	300	600	600	300	300	600	900	900	300	300	600	600
0609	180	600	800	850	700	900	500	1000	500	600	300	300	600	600	300	300	600	900	900	300	300	600	600
	200	600	900	950	700	1000	500	1000	500	600	300	300	600	600	300	300	600	900	900	300	300	600	600
0711	200	700	1100	1150	800	1200	500	1000	500	600	300	300	600	600	300	300	600	900	900	300	300	600	600
	225	700	1100	1150	800	1200	500	1000	500	600	300	300	600	600	300	300	600	900	900	300	300	600	600
0811	225	800	1100	1150	900	1200	500	1000	500	600	300	300	600	600	300	300	600	900	900	300	300	600	600
	250	800	1100	1150	900	1200	500	1000	500	600	300	300	600	600	300	300	600	900	900	300	300	600	600
0912	250	900	1200	1250	1000	1300	500	1000	500	600	300	300	600	600	300	300	600	900	900	300	300	600	600
	280	900	1300	1350	1000	1400	600	1000	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
0913	315	900	1300	1350	1000	1400	600	1000	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
	315	900	1400	1450	1000	1500	600	1200	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
0914	355	900	1400	1450	1000	1500	600	1200	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
	355	1000	1500	1550	1100	1600	600	1200	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
1015	400	1000	1500	1550	1100	1600	600	1200	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
1117	400	1100	1700	1750	1200	1800	600	1200	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
	450	1100	1700	1750	1200	1800	600	1200	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
1317	400	1300	1700	1750	1400	1800	600	1200	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
	450	1300	1700	1750	1400	1800	600	1200	600	600	300	300	600	600	300	300	600	900	900	300	300	600	600
1418	450	1400	1800	1850	1500	1900	800	1200	600	600	300	300	600	600	300	300	600	1100	1100	300	300	800	800
	500	1400	1800	1850	1500	1900	800	1200	600	600	300	300	600	600	300	300	600	1100	1100	300	300	800	800
1420	500	1400	2000	2050	1500	2100	800	1200	600	600	300	300	600	600	300	300	600	1100	1100	300	300	800	800
	560	1400	2000	2050	1500	2100	800	1200	600	600	300	300	600	600	300	300	600	1300	1300	300	300	800	800
1621	560	1600	2100	2150	1700	2200	800	1200	600	600	300	300	600	600	300	300	600	1300	1300	300	300	800	800
	630	1600	2100	2150	1700	2200	800	1200	600	600	300	300	600	600	300	300	600	1400	1400	300	300	800	800
1822	560	1800	2200	2250	1900	2300	900	1200	600	600	300	300	600	600	300	300	600	1300	1300	300	300	900	900
	630	1800	2200	2250	1900	2300	900	1200	600	600	300	300	600	600	300	300	600	1400	1400	300	300	900	900
1825	630	1800	2500	2550	1900	2600	900	1200	600	600	300	300	600	600	300	300	600	1400	1400	300	300	900	900
	710	1800	2500	2550	1900	2600	900	1200	600	600	300	300	600	600	300	300	600	1500	1500	300	300	900	900
2025	630	2000	2500	2050	2100	2600	900	1800	600	600	300	300	600	600	300	300	600	1400	1400	300	300	900	900
	710	2000	2500	2050	2100	2600	900	1800	600	600	300	300	600	600	300	300	600	1500	1500	300	300	900	900
2125	710	2100	2500	2150	2200	2600	1100	1800	600	600	300	300	600	600	300	300	600	1500	1500	300	300	1100	1100
	800	2100	2500	2150	2200	2600	1100	1800	600	600	300	300	600	600	300	300	600	1700	1700	300	300	1100	1100
2226	710	2200	2600	2250	2300	2700	1100	1800	600	600	300	300	600	600	300	300	600	1500	1500	300	300	1100	1100
	800	2200	2600	2250	2300	2700	1100	1800	600	600	300	300	600	600	300	300	600	1700	1700	300	300	1100	1100
2230	800	2200	3000	2250	2300	3100	1100	1800	600	600	300	300	600	600	300	300	600	1700	1700	300	300	1100	1100
	900	2200	3000	2250	2300	3100	1100	1800	600	600	300	300	600	600	300	300	600	1900	1900	300	300	1100	1100
2234	800	2200	3400	2250	2300	3500	1100	1800	600	600	300	300	600	600	300	300	600	1700	1700	300	300	1100	1100
	900	2200	3400	2250	2300	3500	1100	1800	600	600	300	300	600	600	300	300	600	1900	1900	300	300	1100	1100
2634	900	2600	3400	2650	2700	3500	1100	1800	600	600	300	300	600	600	300	300	600	1900	1900	300	300	1100	1100
	1000	2600	3400	2650	2700	3500	1100	1800	600	600	300	300	600	600	300	300	600	2000	2000	300	300	1100	1100

Note: Vertical Fan + Coil unit shipping option:

- For vertical unit, factory pre-join the fan and coil section for model 0914 and below.
- For model 39G1015 and above, fan section and coil section will be delivered in separate packaging.

Unit Dimension Calculations



External AHU Length

External AHU Length = (Section Length + K)mm

where, K = 50mm (for 25mm casing thickness) or 100mm (for 50mm casing thickness)

If the AHU module length is more than 2000mm, section will be split into several casing for shipping purposes.

For example,

A.) 39G1522, MXB-BF-CCS-FS, Fan Size 500, Horizontal AHU with 50mm casing thickness

Module length is 800 + 600 + 600 + 1100mm, equals to 3100mm.

Unit will be split into two section:

1.) MXB-BF-CCS:	800 + 600 + 600 =	2000 + K(100) =	2100mm	
2.) FS:	1100	= 1100 + K(100) =	1200mm	
			Total AHU Length=	3300mm

B.) 39G1522, MXB-BF-CCS-FS, Fan Size 500, Vertical AHU with 50mm casing thickness

Module length is 900 + 600 + 1100mm, equals to 2600mm.

Unit will be split into two section:

1.) MXB-BF:	800 + 600	=	1400 + K(100) =	1500mm
2.) FS:	1100	=	1100 + K(100) =	1200mm
			Total AHU Length=	2700mm

Note: The fan is on top of the coil section, just apply the fan section length for calculation.

External AHU Width

External AHU Width = (Module Width + K)mm

where, K = 50mm (25mm casing thickness) or 100mm (50mm casing thickness)

For example:

A.) 39G1522, MXB-BF-CCS-FS, Fan Size 500, Horizontal AHU with 50mm casing thickness

AHU width = 2200mm + K (100mm) = 2300mm

External AHU Height

A.) Horizontal AHU = (Module height + K + 100)mm

where, K = 50mm (for 25mm casing thickness) or 100mm (for 50mm casing thickness)

For example **39G1500, MXB-BF-CCS-FS, Fan Size 500, Horizontal with 50mm casing thickness**

AHU Height = (1500 + 100 + 100)mm = 1700mm

B.) Vertical AHU = (Section Vertical Height + Fan Section Vertical Height + 2K + 100)mm

where, K = 50mm (for 25mm casing thickness) or 100mm (for 50mm casing thickness)

For example: **39G1522, MXB-BF-CCS-FS, Fan Size 500, Vertical AHU with 50mm casing thickness**

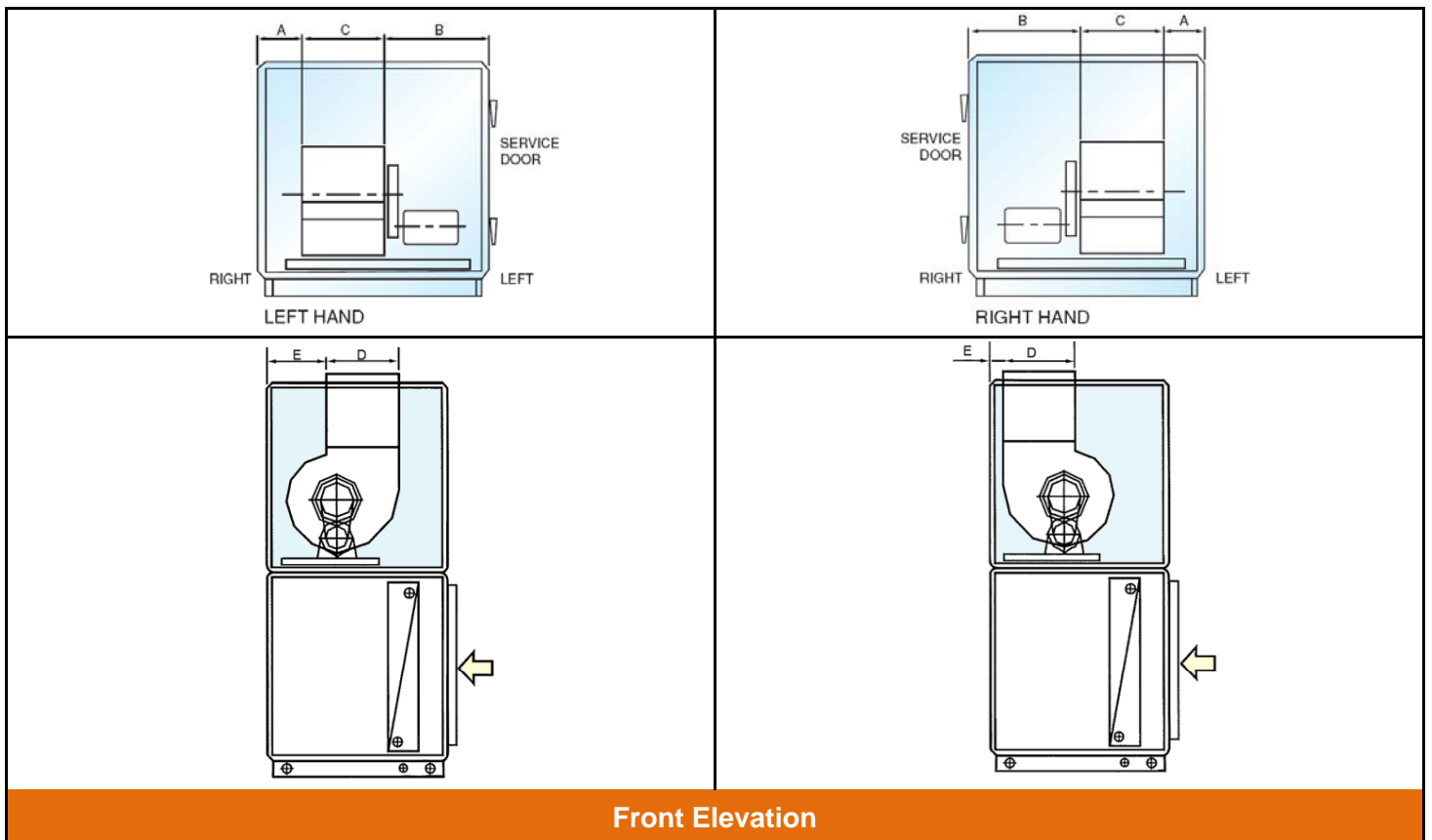
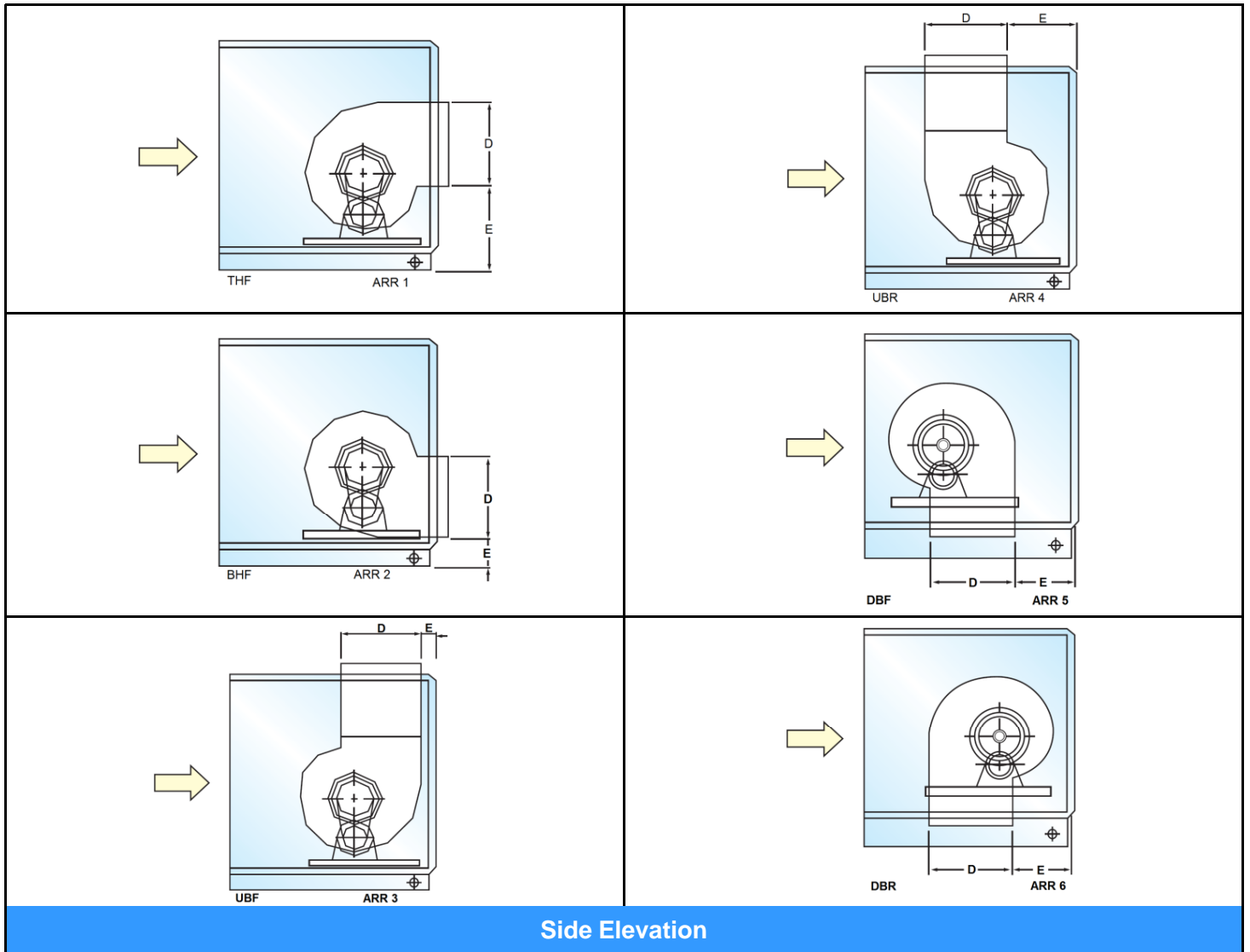
AHU Height = (1500 + 1200 + 100 + 100)mm = 3000mm

Fan Discharge Outlet Dimension (mm)

39G Unit Size	Fan Size	Max HP	A						B						C=D						E									
			25mm		50mm		50mm		25mm		50mm		50mm		25mm		50mm		25mm		50mm		25mm		50mm		25mm		50mm	
			THF	BHF	UBF	UBR	DBF	DBR	UBF (Vert)	UBR (Vert)	DBF	DBR	UBF (Vert)	UBR (Vert)	DBF	DBR	UBF (Vert)	UBR (Vert)	DBF	DBR	UBF (Vert)	UBR (Vert)	DBF	DBR	UBF (Vert)	UBR (Vert)	DBF	DBR	UBF (Vert)	UBR (Vert)
0608	160	1.5	157	182	480	505	214	403	428	218	243	218	243	274	299	159	184	218	243	274	299	159	184	218	243	274	299	159	184	
	180	1.5	157	182	455	480	238	416	441	206	231	206	231	248	273	161	186	206	231	248	273	161	186	206	231	248	273	161	186	
0609	180	4	157	182	555	580	238	416	441	206	231	206	231	248	273	161	186	206	231	248	273	161	186	206	231	248	273	161	186	
	200	4	157	182	528	553	265	394	419	293	318	243	268	317	342	165	190	243	268	317	342	165	190	243	268	317	342	165	190	
0711	200	7.5	225	250	658	683	265	425	450	293	318	243	268	317	342	165	190	243	268	317	342	165	190	243	268	317	342	165	190	
	225	5.5	225	250	626	651	297	438	463	293	318	227	252	252	284	192	217	227	252	252	284	192	217	227	252	252	284	192	217	
0811	225	5.5	225	250	626	651	297	438	463	293	318	227	252	252	284	192	217	227	252	252	284	192	217	227	252	252	284	192	217	
	250	5.5	225	250	596	621	327	453	478	293	318	212	237	222	247	195	220	212	237	222	247	195	220	212	237	222	247	195	220	
0912	250	7.5	225	250	696	721	327	453	478	293	318	212	237	222	247	195	220	212	237	222	247	195	220	212	237	222	247	195	220	
	280	7.5	241	266	640	665	370	464	489	293	318	240	265	277	302	200	225	240	265	277	302	200	225	240	265	277	302	200	225	
0913	280	10	241	266	740	765	370	464	489	293	318	240	265	277	302	200	225	240	265	277	302	200	225	240	265	277	302	200	225	
	315	10	190	215	747	772	413	485	510	293	318	176	201	262	287	214	239	220	245	270	295	220	245	270	295	220	245	270	295	
0914	315	20	190	215	847	872	413	485	510	293	318	176	201	262	287	214	239	220	245	270	295	220	245	270	295	220	245	270	295	
	355	15	241	266	748	773	462	497	522	293	318	146	171	343	368	155	180	330	355	380	405	330	355	380	405	330	355	380	405	
1015	355	20	241	266	848	873	462	509	534	293	318	146	171	343	368	155	180	330	355	380	405	330	355	380	405	330	355	380	405	
	400	15	245	270	789	814	516	536	561	293	318	116	141	344	369	120	145	310	335	360	385	310	335	360	385	310	335	360	385	
1117	400	20	345	370	889	914	516	536	561	293	318	116	141	344	369	120	145	310	335	360	385	310	335	360	385	310	335	360	385	
	450	25	302	327	870	895	578	599	624	328	353	146	171	427	452	237	262	332	357	382	407	332	357	382	407	332	357	382	407	
1317	400	20	345	370	889	914	516	536	561	293	318	116	141	344	369	120	145	310	335	360	385	310	335	360	385	310	335	360	385	
	450	25	302	327	870	895	578	599	624	328	353	146	171	427	452	237	262	332	357	382	407	332	357	382	407	332	357	382	407	
1418	450	30	302	327	970	995	578	564	589	328	353	146	171	427	452	237	262	332	357	382	407	332	357	382	407	332	357	382	407	
	500	25	308	333	895	920	647	585	610	328	353	115	140	388	413	192	217	310	335	360	385	310	335	360	385	310	335	360	385	
1420	500	30	433	458	970	995	647	585	610	328	353	115	140	388	413	192	217	310	335	360	385	310	335	360	385	310	335	360	385	
	560	30	357	382	970	995	724	624	649	328	353	141	166	485	510	237	262	338	363	388	413	237	262	338	363	388	413	237	262	
1621	560	30	407	432	933	958	724	624	649	328	353	138	163	485	510	237	262	338	363	388	413	237	262	338	363	388	413	237	262	
	630	30	407	432	933	958	810	665	690	328	353	138	163	485	510	237	262	338	363	388	413	237	262	338	363	388	413	237	262	
1822	560	25	589	614	938	963	724	659	684	328	353	141	166	485	510	237	262	338	363	388	413	237	262	338	363	388	413	237	262	
	630	40	372	397	1068	1093	810	700	725	328	353	138	163	485	510	237	262	338	363	388	413	237	262	338	363	388	413	237	262	
1825	630	40	656	681	1085	1110	810	700	725	328	353	138	163	485	510	237	262	338	363	388	413	237	262	338	363	388	413	237	262	
	710	60	555	580	1088	1113	907	754	779	328	353	131	156	512	537	205	230	437	462	487	512	205	230	437	462	487	512	205	230	
2025	630	40	656	681	1085	1110	810	700	725	328	353	138	163	485	510	237	262	338	363	388	413	237	262	338	363	388	413	237	262	
	710	60	555	580	1088	1113	907	754	779	328	353	131	156	512	537	205	230	437	462	487	512	205	230	437	462	487	512	205	230	
2125	710	60	555	580	1088	1113	907	754	779	328	353	131	156	512	537	205	230	437	462	487	512	205	230	437	462	487	512	205	230	
	800	40	463	488	1071	1096	1016	808	833	328	353	100	125	634	659	205	230	529	554	579	604	205	230	529	554	579	604	205	230	
2226	710	60	662	687	1082	1107	907	754	779	328	353	131	156	512	537	205	230	437	462	487	512	205	230	437	462	487	512	205	230	
	800	60	463	488	1171	1196	1016	843	868	328	353	100	125	634	659	205	230	529	554	579	604	205	230	529	554	579	604	205	230	
2230	800	60	863	888	1171	1196	1016	843	868	328	353	100	125	634	659	205	230	529	554	579	604	205	230	529	554	579	604	205	230	
	900	75	743	768	1168	1193	1139	869	894	328	353	104	129	707	732	207	232	607	632	657	682	104	129	707	732	657	682	104	129	
2234	800	60	863	888	1171	1196	1016	843	868	328	353	100	125	634	659	205	230	529	554	579	604	205	230	529	554	579	604	205	230	
	900	75	968	993	1343	1368	1139	869	894	328	353	104	129	707	732	207	232	607	632	657	682	104	129	707	732	657	682	104	129	
2328	800	60	663	688	1171	1196	1016	808	833	328	353	100	125	634	659	205	230	529	554	579	604	205	230	529	554	579	604	205	230	
	900	60	568	593	1143	1168	1139	869	894	328	353	104	129	707	732	207	232	607	632	657	682	104	129	707	732	657	682	104	129	
2333	800	75	863	888	1471	1496	1016	808	833	328	353	100	125	634	659	205	230	529	554	579	604	205	230	529	554	579	604	205	230	
	900	75	968	993	1243	1268	1139	869	894	328	353	104	129	707	732	207	232	607	632	657	682	104	129	707	732	657	682	104	129	
2634	900	75	968	993	1343	1368	1139	869	894	328	353	104	129	707	732	207	232	607	632	657	682	104	129	707	732	657	682	104	129	
	1000	75	971	996	1203	1228	1276	871	896	328	353	96	121	678	703	134	159	640	665	690	715	96	121	678	703	690	715	96	121	

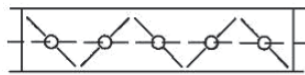
Refer to page 11.

Horizontal Fan Arrangements

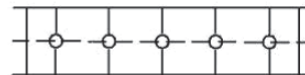


Mixing Box Section in Module

OPPOSED



HALF CLOSE



OPEN

39G AHU Size	MXB	OPPOSED BLADE DAMPER (H x W in mm)				DAMPER OPENING SIZE (H x W in mm)			
		TOP	REAR	SIDE	BOTTOM	TOP	REAR	SIDE	BOTTOM
0608	500	460 x 748	460 x 748	560 x 448	260 x 448	410 x 678	410 x 678	510 x 448	210 x 378
0609	500	460 x 848	460 x 848	560 x 448	260 x 548	410 x 778	410 x 778	510 x 448	210 x 478
0711	500	460 x 1048	460 x 1048	660 x 448	260 x 748	410 x 978	410 x 978	610 x 448	210 x 678
0811	500	460 x 1048	460 x 1048	760 x 448	260 x 748	410 x 978	410 x 978	710 x 448	210 x 678
0912	500	460 x 1148	460 x 1148	860 x 448	260 x 848	410 x 1078	410 x 1078	810 x 448	210 x 778
0913	600	560 x 1248	560 x 1248	860 x 548	360 x 948	510 x 1178	510 x 1178	810 x 548	310 x 878
0914	600	560 x 1348	560 x 1348	860 x 548	360 x 1048	510 x 1278	510 x 1278	810 x 548	310 x 978
1015	600	560 x 1448	560 x 1448	960 x 548	360 x 1148	510 x 1378	510 x 1378	910 x 548	310 x 1078
1117	600	560 x 1648	560 x 1648	1060 x 548	360 x 1348	510 x 1578	510 x 1578	1010 x 548	310 x 1278
1317	600	560 x 1648	560 x 1648	1260 x 548	360 x 1348	510 x 1578	510 x 1578	1210 x 548	310 x 1278
1418	800	760 x 1748	760 x 1748	1360 x 748	560 x 1448	710 x 1678	710 x 1678	1310 x 678	510 x 1378
1420	800	760 x 1948	760 x 1948	1360 x 748	560 x 1648	710 x 1878	710 x 1878	1310 x 678	510 x 1578
1621	800	760 x 2048	760 x 2048	1560 x 748	560 x 1748	710 x 1978	710 x 1978	1510 x 678	510 x 1678
1822	900	860 x 2148	860 x 2148	1760 x 848	660 x 1848	810 x 2078	810 x 2078	1710 x 778	610 x 1778
1825	900	860 x 2448	860 x 2448	1760 x 848	660 x 2148	810 x 2378	810 x 2378	1710 x 778	610 x 2078
2025	900	860 x 2448	860 x 2448	1960 x 848	660 x 2148	810 x 2378	810 x 2378	1910 x 778	610 x 2078
2125	1100	1060 x 2448	1060 x 2448	2060 x 1048	860 x 2148	1010 x 2378	1010 x 2378	2010 x 978	810 x 2078
2226	1100	1060 x 2548	1060 x 2548	2160 x 1048	860 x 2248	1010 x 2478	1010 x 2478	2110 x 978	810 x 2178
2230	1100	1060 x 2948	1060 x 2948	2160 x 1048	860 x 2648	1010 x 2878	1010 x 2878	2110 x 978	810 x 2578
2234	1100	1060 x 3348	1060 x 3348	2160 x 1048	860 x 3048	1010 x 3278	1010 x 3278	2110 x 978	810 x 2978
2328	1100	1060 x 2748	1060 x 2748	2260 x 1048	860 x 2448	1010 x 2678	1010 x 2678	2210 x 978	810 x 2378
2333	1100	1060 x 3248	1060 x 3248	2260 x 1048	860 x 2948	1010 x 3178	1010 x 3178	2210 x 978	810 x 2878
2634	1100	1060 x 3348	1060 x 3348	2560 x 1048	860 x 3048	1010 x 3278	1010 x 3278	2510 x 978	810 x 2978

Center to Center Distance for Fan and Motor Configuration

39G Unit Size	Fan Size	BHF/BHR CTCD (in mm)										THF/THR CTCD (in mm)												
		1 hp	1.5 - 2hp	3 - 4 hp	5 - 5.5 hp	7.5 - 10 hp	15 - 20 hp	25 - 30 hp	40 hp	50 - 60hp	75 hp	100 hp	1 hp	1.5 - 2hp	3 - 4 hp	5 - 5.5 hp	7.5 - 10 hp	15 - 20 hp	25 - 30 hp	40 hp	50 - 60hp	75 hp	100 hp	
0608	160	203	201	-	-	-	-	-	-	-	-	-	-	-	196	-	-	-	-	-	-	-	-	-
	180	194	191	188	184	-	-	-	-	-	-	-	-	-	179	178	179	-	-	-	-	-	-	-
	180	194	191	188	184	-	-	-	-	-	-	-	-	-	179	178	179	-	-	-	-	-	-	-
0609	200	260	248	234	215	198	-	-	-	-	-	-	-	-	242	220	206	193	-	-	-	-	-	-
	200	260	248	234	215	198	-	-	-	-	-	-	-	242	220	206	193	-	-	-	-	-	-	-
	225	254	249	245	231	213	-	-	-	-	-	-	-	225	223	212	198	-	-	-	-	-	-	-
0811	225	254	249	245	231	213	-	-	-	-	-	-	-	225	223	212	198	-	-	-	-	-	-	-
	250	269	262	257	246	226	-	-	-	-	-	-	-	234	231	218	203	-	-	-	-	-	-	-
	250	269	262	257	246	226	-	-	-	-	-	-	-	234	231	218	203	-	-	-	-	-	-	-
0912	280	310	305	300	282	261	-	-	-	-	-	-	-	268	264	246	230	-	-	-	-	-	-	-
	280	310	305	300	282	261	-	-	-	-	-	-	-	268	264	246	230	-	-	-	-	-	-	-
	315	304	297	290	282	270	254	-	-	-	-	-	-	241	236	228	221	215	-	-	-	-	-	-
0914	315	304	297	290	282	270	254	-	-	-	-	-	-	241	236	228	221	215	-	-	-	-	-	-
	355	355	348	341	333	320	282	-	-	-	-	-	-	281	277	267	259	226	-	-	-	-	-	-
	355	355	348	341	333	320	282	-	-	-	-	-	-	281	277	267	259	226	-	-	-	-	-	-
1015	400	411	404	397	388	375	337	-	-	-	-	-	-	323	318	308	299	264	-	-	-	-	-	-
	400	411	404	397	388	375	337	-	-	-	-	-	-	323	318	308	299	264	-	-	-	-	-	-
	450	-	-	370	352	328	295	272	-	-	-	-	-	-	-	248	229	206	175	153	-	-	-	-
1117	450	-	-	370	352	328	295	272	-	-	-	-	-	-	-	248	229	206	175	153	-	-	-	-
	450	-	-	370	352	328	295	272	-	-	-	-	-	-	-	248	229	206	175	153	-	-	-	-
	500	-	-	451	433	409	375	352	-	-	-	-	-	-	-	324	305	282	251	230	-	-	-	-
1420	500	-	-	451	433	409	375	352	-	-	-	-	-	-	-	324	305	282	251	230	-	-	-	-
	560	-	-	548	530	506	473	449	-	-	-	-	-	-	-	409	390	367	337	315	-	-	-	-
	560	-	-	548	530	506	473	449	-	-	-	-	-	-	-	409	390	367	337	315	-	-	-	-
1621	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
1822	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
1825	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
	710	-	-	801	782	759	726	703	675	643	-	-	-	-	-	636	617	595	566	544	517	535	-	-
2025	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
	630	-	-	675	656	633	600	576	548	-	-	-	-	-	-	528	509	487	457	436	409	-	-	-
	710	-	-	801	782	759	726	703	675	643	-	-	-	-	-	636	617	595	566	544	517	535	-	-
2125	710	-	-	801	782	759	726	703	675	643	-	-	-	-	-	636	617	595	566	544	517	535	-	-
	710	-	-	801	782	759	726	703	675	643	-	-	-	-	-	636	617	595	566	544	517	535	-	-
	800	-	-	1005	986	963	930	907	879	848	-	-	-	-	-	805	786	764	735	714	687	659	-	-
2226	710	-	-	801	782	759	726	703	675	643	-	-	-	-	-	636	617	595	566	544	517	535	-	-
	710	-	-	801	782	759	726	703	675	643	-	-	-	-	-	636	617	595	566	544	517	535	-	-
	800	-	-	1005	986	963	930	907	879	848	-	-	-	-	-	805	786	764	735	714	687	659	-	-
2230	800	-	-	1005	986	963	930	907	879	848	-	-	-	-	-	805	786	764	735	714	687	659	-	-
	800	-	-	1005	986	963	930	907	879	848	-	-	-	-	-	805	786	764	735	714	687	659	-	-
	900	-	-	1180	1161	1138	1105	1082	1054	1023	988	988	-	-	-	961	942	921	891	871	844	815	804	804
2234	800	-	-	1005	986	963	930	907	879	848	-	-	-	-	-	805	786	764	735	714	687	659	-	-
	800	-	-	1005	986	963	930	907	879	848	-	-	-	-	-	805	786	764	735	714	687	659	-	-
	900	-	-	1180	1161	1138	1105	1082	1054	1023	988	988	-	-	-	961	942	921	891	871	844	815	804	804
2634	900	-	-	1180	1161	1138	1105	1082	1054	1023	988	988	-	-	-	961	942	921	891	871	844	815	804	804
	900	-	-	1180	1161	1138	1105	1082	1054	1023	988	988	-	-	-	961	942	921	891	871	844	815	804	804
	1000	-	-	1294	1275	1252	1220	1197	1169	1138	1101	1101	-	-	-	1092	1068	1046	1015	994	968	939	905	905

Center to Center Distance for Fan and Motor Configuration

39G Unit Size	Fan										UBF/JBR CTCD (in mm)										DBF/DBR CTCD (in mm)															
	1 hp	1.5 - 2hp	3 - 4 hp	5 - 5.5 hp	7.5 - 10 hp	15 - 20 hp	25 - 30 hp	40 hp	50 - 60hp	75 hp	100 hp	1 hp	1.5 - 2hp	3 - 4 hp	5 - 5.5 hp	7.5 - 10 hp	15 - 20 hp	25 - 30 hp	40 hp	50 - 60hp	75 hp	100 hp	1 hp	1.5 - 2hp	3 - 4 hp	5 - 5.5 hp	7.5 - 10 hp	15 - 20 hp	25 - 30 hp	40 hp	50 - 60hp	75 hp	100 hp			
0608	160	203	202	-	-	-	-	-	-	-	-	206	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	180	192	189	188	186	-	-	-	-	-	-	199	193	193	178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
0609	180	192	189	188	186	-	-	-	-	-	-	199	193	193	178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	200	254	245	230	216	201	-	-	-	-	-	257	251	251	242	242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
0711	200	254	245	230	216	201	-	-	-	-	-	257	251	251	242	242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	225	243	240	237	227	211	-	-	-	-	-	248	241	241	232	232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
0811	225	243	240	237	227	211	-	-	-	-	-	248	241	241	232	232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	250	258	254	250	247	221	-	-	-	-	-	231	223	223	213	213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
0912	250	258	254	250	247	221	-	-	-	-	-	231	223	223	213	213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	280	294	290	286	270	250	-	-	-	-	-	310	302	302	291	291	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
0913	280	294	290	286	270	250	-	-	-	-	-	310	302	302	291	291	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	315	266	260	255	248	239	228	-	-	-	-	287	278	278	267	267	251	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
0914	315	266	260	255	248	239	228	-	-	-	-	287	278	278	267	267	251	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	355	321	315	310	303	293	258	-	-	-	-	278	268	268	255	255	239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1015	355	321	315	310	303	293	258	-	-	-	-	278	268	268	255	255	239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	400	372	366	360	303	343	307	-	-	-	-	301	278	278	263	263	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1117	400	372	366	360	303	343	307	-	-	-	-	301	278	278	263	263	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	450	-	-	311	292	269	236	213	-	-	-	-	-	-	311	293	272	243	224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1317	400	372	366	360	303	343	307	-	-	-	-	301	278	278	263	263	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	450	-	-	311	292	269	236	213	-	-	-	-	-	-	311	293	272	243	224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1418	450	-	-	311	292	269	236	213	-	-	-	-	-	-	311	293	272	243	224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	500	-	-	377	358	334	302	279	-	-	-	-	-	-	370	353	331	303	283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1420	500	-	-	377	358	334	302	279	-	-	-	-	-	-	370	353	331	303	283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	560	-	-	456	438	414	382	359	-	-	-	-	-	-	430	412	392	364	346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1621	560	-	-	456	438	414	382	359	-	-	-	-	-	-	430	412	392	364	346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	630	-	-	588	569	546	514	492	464	-	-	-	-	-	516	498	478	450	431	406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1822	560	-	-	456	438	414	382	359	-	-	-	-	-	-	430	412	392	364	346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	630	-	-	588	569	546	514	492	464	-	-	-	-	-	516	498	478	450	431	406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1825	630	-	-	588	569	546	514	492	464	-	-	-	-	-	516	498	478	450	431	406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	710	-	-	682	663	640	608	585	557	526	-	-	-	-	616	598	578	550	530	505	478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2025	630	-	-	588	569	546	514	492	464	-	-	-	-	-	516	498	478	450	431	406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	710	-	-	682	663	640	608	585	557	526	-	-	-	-	616	598	578	550	530	505	478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2125	710	-	-	682	663	640	608	585	557	526	-	-	-	-	616	598	578	550	530	505	478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	800	-	-	834	815	792	760	738	710	680	-	-	-	-	747	728	707	678	658	631	603	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2226	710	-	-	682	663	640	608	585	557	526	-	-	-	-	616	598	578	550	530	505	478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	800	-	-	834	815	792	760	738	710	680	-	-	-	-	747	728	707	678	658	631	603	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2230	800	-	-	834	815	792	760	738	710	680	-	-	-	-	747	728	707	678	658	631	603	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	900	-	-	992	973	950	919	896	869	838	803	-	-	-	850	832	811	783	763	737	710	677	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2234	800	-	-	834	815	792	760	738	710	680	-	-	-	-	747	728	707	678	658	631	603	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	900	-	-	992	973	950	919	896	869	838	803	-	-	-	850	832	811	783	763	737	710	677	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2634	900	-	-	992	973	950	919	896	869	838	803	-	-	-	850	832	811	783	763	737	710	677	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	-	-	1119	1100	1055	1045	1023	996	965	912	-	-	-	905	891	871	843	824	799	772	740	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Base Unit Coil Weight (25mm Section Weight)

39G AHU Size	Fan Size	Mixing Box Section				Filter Section			Coil Section		Heater Section	Fan Section		Diffuser Section	Discharge Section with Damper	Plenum Access
		Mixing Box	Double Mixing Box	Economized Mixing Box	Bag Filter / LVF	HVF Filter	HEPA Filter	Cooling/Dual (Horizontal)	Hot Water (Horizontal)	Horizontal		Vertical				
		MXB	DBL MXB	ECN MXB	BF / LVF	HVF	HEPA	CW	HW	FCF or BCF	FCF or BCF	DIF	DISC	ACS		
0608	160	37	65	37	43	22	75	40	21	22	24	42	43			
	180	37	65	37	43	22	75	40	21	22	24	42	43			
0609	180	39	68	39	45	23	78	42	21	23	25	45	45			
	200	39	68	39	45	23	78	42	21	23	25	45	45			
0711	200	46	79	46	53	27	91	49	25	27	30	54	53			
	225	46	79	46	53	27	91	49	25	27	30	54	53			
0811	225	49	82	49	55	28	96	51	26	28	31	57	55			
	250	49	82	49	55	28	96	51	26	28	31	57	55			
0912	250	55	88	55	59	30	101	54	27	30	33	64	59			
	280	55	88	55	59	30	101	54	27	30	33	64	59			
0913	280	66	91	66	61	32	106	57	29	32	35	76	61			
	315	66	91	66	61	32	106	57	29	32	35	76	61			
0914	315	67	108	67	63	32	109	58	30	32	36	79	63			
	355	67	108	67	63	32	109	58	30	32	36	79	63			
1015	355	74	115	74	67	34	116	62	31	34	38	86	67			
	400	74	115	74	67	34	116	62	31	34	38	86	67			
1117	400	83	126	83	73	37	129	67	34	37	41	99	73			
	450	83	126	83	73	37	129	67	34	37	41	99	73			
1317	400	92	135	92	77	39	136	70	35	39	43	109	77			
	450	92	135	92	77	39	136	70	35	39	43	109	77			
1418	450	121	140	98	80	40	143	73	37	40	45	144	80			
	500	121	140	98	80	40	143	73	37	40	45	144	80			
1420	500	129	146	105	84	43	149	77	39	43	49	154	84			
	560	129	146	105	84	43	149	77	39	43	49	154	84			
1621	560	145	160	119	92	46	163	84	42	46	53	174	92			
	630	145	160	119	92	46	163	84	42	46	53	174	92			
1822	560	172	171	131	99	50	174	89	45	50	56	207	99			
	630	172	171	131	99	50	174	89	45	50	56	207	99			
1825	630	187	184	142	106	53	189	96	48	53	60	225	106			
	710	187	184	142	106	53	189	96	48	53	60	225	106			
2025	630	198	276	152	109	55	195	99	50	55	63	239	109			
	710	198	276	152	109	55	195	99	50	55	63	239	109			
2125	710	232	283	157	111	56	198	100	50	56	66	281	111			
	800	232	283	157	111	56	198	100	50	56	66	281	111			
2226	710	243	293	166	116	59	206	104	53	59	70	296	116			
	800	243	293	166	116	59	206	104	53	59	70	296	116			
2230	800	264	308	183	126	64	221	114	58	64	77	322	126			
	900	264	308	183	126	64	221	114	58	64	77	322	126			
2234	800	291	338	203	139	70	243	128	64	70	81	355	139			
	900	291	338	203	139	70	243	128	64	70	81	355	139			
2634	900	320	360	226	147	74	257	133	67	74	93	393	147			
	1000	320	360	226	147	74	257	133	67	74	93	393	147			

Note: Estimated weight in kg.

Base Unit Coil Weight (50mm Section Weight)

39C AHU Size	Fan Size	Mixing Box Section			Filter Section			Coil Section		Heater Section	Fan Section		Diffuser Section	Discharge Section with Damper	Plenum Access
		Mixing Box	Double Mixing Box	Economized Mixing Box	Bag Filter/LVF	HVF Filter	HEPA Filter	Cooling/Dual (Horizontal)	Hot Water (Horizontal)		Horizontal	Vertical			
		MXB	DBL MXB	ECN MXB	BF / LVF	HVF	HEPA	CW	HW	HTR	FCF or BCF	FCF or BCF	DIF	DISC	ACS
0608	160	38	68	38	45	23	78	41	22	23	50	69	25	44	45
	180	38	68	38	45	23	78	41	22	23	50	69	25	44	45
0609	180	41	71	41	47	24	82	44	22	24	54	72	26	46	47
	200	41	71	41	47	24	82	44	22	24	62	72	26	46	47
0711	200	49	82	49	55	28	96	52	27	28	75	84	31	56	55
	225	49	82	49	55	28	96	52	27	28	75	84	31	56	55
0811	225	52	86	52	57	29	101	53	27	29	78	88	32	60	57
	250	52	86	52	57	29	101	53	27	29	78	88	32	60	57
0912	250	57	92	57	62	31	107	57	29	31	86	93	34	67	62
	280	57	92	57	62	31	107	57	29	31	97	93	34	67	62
0913	280	69	95	69	64	33	112	60	31	33	101	97	36	80	64
	315	69	95	69	64	33	112	60	31	33	101	97	36	80	64
0914	315	71	113	71	66	34	115	61	31	34	104	99	37	82	66
	355	71	113	71	66	34	115	61	31	34	114	99	37	82	66
1015	355	78	121	78	70	35	122	65	33	35	124	106	39	90	70
	400	78	121	78	70	35	122	65	33	35	124	106	39	90	70
1117	400	89	133	89	76	39	137	70	36	39	143	118	43	104	76
	450	89	133	89	76	39	137	70	36	39	166	141	43	104	76
1317	400	98	142	98	81	41	144	74	37	41	153	124	45	116	81
	450	98	142	98	81	41	144	74	37	41	178	149	45	116	81
1418	450	131	148	105	85	43	151	77	39	43	189	156	47	154	85
	500	131	148	105	85	43	151	77	39	43	189	156	47	154	85
1420	500	140	154	112	89	45	158	81	41	45	202	164	99	165	89
	560	140	154	112	89	45	158	81	41	45	229	191	99	165	89
1621	560	157	169	128	97	49	172	89	45	49	253	208	108	185	97
	630	157	169	128	97	49	172	89	45	49	269	224	108	185	97
1822	560	185	181	141	104	53	184	94	48	53	271	-	115	220	104
	630	185	181	141	104	53	184	94	48	53	291	-	115	220	104
1825	630	202	194	153	111	56	201	102	51	56	319	-	124	240	111
	710	202	194	153	111	56	201	102	51	56	336	-	124	240	111
2025	630	214	294	164	115	58	207	105	53	58	334	-	128	256	115
	710	214	294	164	115	58	207	105	53	58	351	-	128	256	115
2125	710	250	301	169	117	59	211	106	53	59	360	-	130	299	117
	800	250	301	169	117	59	211	106	53	59	401	-	130	299	117
2226	710	263	312	179	122	62	219	110	56	62	377	-	135	315	122
	800	263	312	179	122	62	219	110	56	62	419	-	135	315	122
2230	800	286	327	199	134	68	234	122	62	68	455	-	149	344	134
	900	286	327	199	134	68	234	122	62	68	495	-	149	344	134
2234	800	315	359	220	148	74	258	137	69	74	504	-	166	378	148
	900	315	359	220	148	74	258	137	69	74	549	-	166	378	148
2634	900	347	383	246	156	78	273	142	71	78	590	-	173	420	156
	1000	347	383	246	156	78	273	142	71	78	614	-	173	420	156

Note: Estimated weight in kg.

Base Unit Coil Weight (50mm NTB Section Weight)

39G AHU Size	Fan Size	Mixing Box Section			Filter Section			Coil Section		Heater Section	Fan Section		Diffuser Section	Discharge Section with Damper	Plenum Access
		Mixing Box	Double Mixing Box	Economized Mixing Box	Bag Filter / LVF	HVF Filter	HEPA Filter	Cooling/Dual (Horizontal)	Hot Water (Horizontal)		Horizontal	Vertical			
		IMXB	DBL IMXB	ECN MXB	BF / LVF	HVF	HEPA	CW	HW	HTR	FCF or BCF	FCF or BCF	DIF	DISC	ACS
0608	160	44	75	44	50	26	80	49	25	26	58	80	25	44	50
	180	44	75	44	50	26	80	49	25	26	58	80	25	44	50
0609	180	46	78	46	53	27	84	52	26	27	62	84	26	46	53
	200	46	78	46	53	27	84	52	26	27	73	84	26	46	53
0711	200	56	91	56	63	32	98	61	31	32	88	98	31	56	63
	225	56	91	56	63	32	98	61	31	32	88	98	31	56	63
0811	225	60	95	60	65	33	103	63	32	33	92	103	32	60	65
	250	60	95	60	65	33	103	63	32	33	92	103	32	60	65
0912	250	67	102	67	70	35	109	68	34	35	102	109	34	67	70
	280	67	102	67	70	35	109	68	34	35	116	109	34	67	70
0913	280	80	106	80	73	38	114	71	36	38	121	114	36	80	73
	315	80	106	80	73	38	114	71	36	38	121	114	36	80	73
0914	315	82	127	82	75	39	117	73	37	39	125	117	37	82	75
	355	82	127	82	75	39	117	73	37	39	138	117	37	82	75
1015	355	90	136	90	81	41	125	78	39	41	149	125	39	90	81
	400	90	136	90	81	41	125	78	39	41	149	125	39	90	81
1117	400	105	150	105	88	45	140	85	43	45	174	140	43	105	88
	450	105	150	105	88	45	140	85	43	45	203	169	43	105	88
1317	400	117	160	117	93	47	147	90	45	47	188	147	45	117	93
	450	117	160	117	93	47	147	90	45	47	218	178	45	117	93
1418	450	158	167	126	98	49	155	94	47	49	233	187	47	158	98
	500	158	167	126	98	49	155	94	47	49	233	187	47	158	98
1420	500	170	174	136	103	52	162	99	50	52	249	196	49	170	103
	560	170	174	136	103	52	162	99	50	52	282	230	49	170	103
1621	560	191	191	155	112	56	176	108	54	56	313	250	108	191	112
	630	191	191	155	112	56	176	108	54	56	332	270	108	191	112
1822	560	227	205	172	120	61	189	115	58	61	340	-	115	227	120
	630	227	205	172	120	61	189	115	58	61	360	-	115	227	120
1825	630	247	221	187	129	65	206	124	62	65	396	-	124	247	129
	710	247	221	187	129	65	206	124	62	65	417	-	124	247	129
2025	630	263	342	200	134	67	213	128	64	67	415	-	128	263	134
	710	263	342	200	134	67	213	128	64	67	437	-	128	263	134
2125	710	307	350	207	136	68	216	130	65	68	448	-	130	307	136
	800	307	350	207	136	68	216	130	65	68	500	-	130	307	136
2226	710	324	363	220	141	71	225	135	68	71	470	-	135	324	141
	800	324	363	220	141	71	225	135	68	71	523	-	135	324	141
2230	800	353	382	247	157	79	240	151	76	79	570	-	151	353	157
	900	353	382	247	157	79	240	151	76	79	620	-	151	353	157
2234	800	389	417	274	175	88	265	168	84	88	631	-	168	389	175
	900	389	417	274	175	88	265	168	84	88	687	-	168	389	175
2634	900	431	447	307	183	92	280	176	88	92	741	-	176	431	183
	1000	431	447	307	183	92	280	176	88	92	771	-	176	431	183

Note: Estimated weight in kg.

Fan Motor Weight

Table below shows the approximate fan motor weight.

Motor HP	Motor kW	Motor Shaft Diameter (mm)	Approx. Weight (kg)	Frame Number
1	0.75	19	15	D80
1.5	1.1	24	20	D90S
2	1.5	24	22	D90L
3 / 4	2.2 / 3.0	28	30	D100L
5 / 5.5	3.7 / 4.4	28	42	D112M
7.5	5.5	38	65	D132S
10	7.5	38	76	D132M
15	11.0	42	118	D160M
20	15.0	42	139	D160L
25	18.5	48	189	D180M
30	22.0	48	203	D180L
40	30.0	55	290	D200L
50	37.0	60	320	D225SC
60	45.0	60	355	D225MC
75	55.0	70	520	D2250SA

Notes:

- Motor weights based on 4-pole, 415/3Ø/50Hz induction type TEFC foot mounted motor.
- Motor is suitable for direct on-line / reduced voltage starting mechanism.
- Standard motor shall be per IEC standard IP55 enclosure with Class F insulation and B temperature rise complying with BS2757.
- Maximum ambient temperature 40°C.
- For derivation of motor kW from fan BkW use.

$$\text{Motor kW} = \text{Fan BkW} \times A, \text{ where } A = 1.20 \text{ if BkW} < 10\text{kW}$$

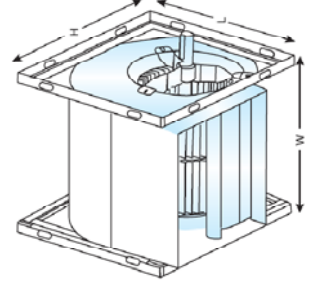
$$A = 1.15 \text{ if BkW} > 10\text{kW}$$
- Please refer to your nearest Carrier representatives for special motor voltages or application.

Fan Blower Specification

Forward Curved

Fan Model	Weight (Kg)	Fan Max RPM	Shaft Dia (mm)	Width, W (mm)	Height, H (mm)	Length, L (mm)	Maximum BkW
ADH 160 R	6.6	4200	20 h7	245	300	259	3
ADH 180 R	7.8	4000	20 h7	269	336	294	3
ADH 200 R	9.1	3800	20 h7	306	370	306	4
ADH 225 R	10.7	3400	20 h7	338	415	345	4
ADH 250 R	13	2800	20 h7	372	461	381	4
ADH 280 R	18	2500	25 h7	421	518	429	5.5
ADH 315 R	22	2100	25 h7	464	578	480	5.5
ADH 355 R	29	1800	30 h7	533	655	544	7.5
ADH 400 R	38	1600	30 h7	587	736	609	7.5
ADH 450 R	50	1400	35 h7	649	827	679	11
ADH 500 R	65	1200	35 h7	718	918	748	11
ADH 560 R	86	1100	40 h7	815	1030	839	15
ADH 630 R	106	900	40 h7	901	1157	940	15
ADH 710 R	135	750	50 h7	998	1303	1050	18.5
ADH 200 K	12.6	3800	20 h7	306	370	306	4
ADH 225 K	14.5	3400	20 h7	338	415	345	4
ADH 250 K	18	3000	25 h7	372	461	381	7.5
ADH 280 K	24	2600	30 h7	421	518	429	11
ADH 315 K	29	2300	30 h7	464	578	480	11
ADH 355 K	41	2000	35 h7	531	655	544	15
ADH 400 K	52	1800	35 h7	587	736	613	15
ADH 450 K	66	1500	40 h7	649	827	679	15
ADH 500 K	85	1300	40 h7	718	918	748	15
ADH 560 K	134	1200	50 h7	815	1030	839	18.5
ADH 630 K	170	1000	50 h7	901	1157	940	18.5
ADH 710 K	201	900	50 h7	998	1303	1050	22
ADH 800 K	249	800	50 h7	1107	1468	1181	22
ADH 900 K	306	700	60 h7	1230	1648	1319	30
ADH 1000 K	333	650	60 h7	1367	1810	1451	37
ADH 315 K1	30	2300	30 h7	464	578	480	18.5
ADH 355 K1	42	2000	35 h7	531	655	544	22
ADH 400 K1	53	1800	35 h7	587	736	613	22
ADH 450 K1	67	1500	40 h7	649	827	679	30
ADH 500 K1	86	1300	40 h7	718	918	748	30
ADH 560 K1	142	1200	50 h7	815	1030	839	30
ADH 630 K1	175	1000	50 h7	901	1157	940	30
ADH 710 K1	208	900	60 h7	998	1303	1050	37
ADH 800 K1	261	800	60 h7	1107	1468	1181	37
ADH 900 K1	316	700	60 h7	1230	1648	1319	45

Fan Model	Weight (Kg)	Fan Max RPM	Shaft Dia (mm)	Width, W (mm)	Height, H (mm)	Length, L (mm)	Maximum BkW
ADH 500 K2	105	1300	50 h7	718	918	748	37
ADH 560 K2	150	1200	50 h7	815	1030	839	45
ADH 630 K2	180	1000	50 h7	901	1157	940	45
ADH 710 K2	225	900	60 h7	998	1303	1050	55
ADH 800 K2	278	800	60 h7	1107	1468	1181	55
ADH 900 K2	320	700	60 h7	1230	1648	1319	75
ADH 1000 K2	360	650	60 h7	1367	1810	1451	75
FDA CM 180	9.5	3700	20g6	268	336	294	2
FDA CM 200	10.5	3300	20g6	306	370	306	2.5
FDA CM 225	12	2900	20g6	338	415	348	3
FDA CM 250	15	2700	20g6	372	460	383	3
FDA CM 280	20	2400	25g6	420	518	432	4
FDA CM 315	24	2100	25g6	464	578	480	5.5
FDA CM 355	32	1800	30g6	532	654	548	5.5
FDA CM 400	41	1600	30g6	586	736	612	7.5
FDA CM 450	51	1400	35g6	648	827	681	7.5
FDA CM 500	74	1200	35g6	718	918	750	11
FDA CM 560	93	1100	40g6	814	1030	844	11
FDA CM 630	104	900	45g6	900	1157	945	15
FDA CM 710	127	800	50g6	998	1302	1057	18.5
FDA TM 250	21	3000	25g6	372	460	383	7.5
FDA TM 280	27	2700	30g6	420	518	432	11
FDA TM 315	30	2200	30g6	464	578	480	11
FDA TM 355	45	2000	35g6	532	654	548	15
FDA TM 400	55	1800	35g6	586	736	612	15
FDA TM 450	61	1600	40g6	648	827	681	18.5
FDA TM 500	81	1300	45g6	718	918	750	18.5
FDA TM 560	110	1200	45g6	814	1030	844	22
FDA TM 630	140	1000	50g6	900	1157	945	22
FDA TM 710	192	900	55g6	998	1302	1057	25
FDA TM 800	240	750	55g6	1106	1468	1180	25
FDA TM 900	293	650	60g6	1230	1648	1319	30
FDA TM 1000	340	600	70g6	1366	1810	1450	37



Fan Blower Specification

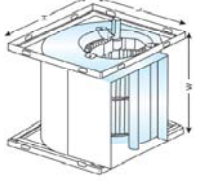
Backward Curved

Fan Model	Weight (Kg)	Fan Max RPM	Shaft Dia (mm)	Width, W (mm)	Height, H (mm)	Length, L (mm)	Maximum BkW
RDH 180 R	7.1	6800	20 h7	269	336	294	2.2
RDH 200 R	8.5	6000	20 h7	306	370	306	3
RDH 225 R	9.9	5800	20 h7	338	415	345	4
RDH 250 R	15.7	4600	20 h7	372	461	381	4
RDH 280 R	21	4000	25 h7	421	518	429	5.5
RDH 315 R	25	3500	25 h7	464	578	480	5.5
RDH 355 R	34	3300	30 h7	533	655	544	7.5
RDH 400 R	42	2700	30 h7	587	736	609	7.5
RDH 450 R	57	2500	35 h7	649	827	679	11
RDH 500 R	70	2100	35 h7	718	918	748	11
RDH 560 R	92	1950	40 h7	815	1030	839	15
RDH 630 R	119	1600	40 h7	901	1157	940	15
RDH 710 R	165	1300	50 h7	998	1303	1050	15
RDH 200 K	11.8	6800	20 h7	306	370	306	3
RDH 225 K	13.6	6000	20 h7	338	415	345	4
RDH 250 K	21	5400	25 h7	372	461	381	5.5
RDH 280 K	28	4700	30 h7	421	518	429	7.5
RDH 315 K	32	4100	30 h7	464	578	480	7.5
RDH 355 K	46	3800	35 h7	531	655	544	11
RDH 400 K	57	3100	35 h7	587	736	613	15
RDH 450 K	73	2800	40 h7	649	827	679	15
RDH 500 K	90	2350	40 h7	718	918	748	15
RDH 560 K	141	2100	50 h7	815	1030	839	18.5
RDH 630 K	173	1700	50 h7	901	1157	940	18.5
RDH 710 K	220	1500	50 h7	998	1303	1050	22
RDH 800 K	270	1200	50 h7	1107	1468	1181	22
RDH 900 K	343	1100	60 h7	1230	1648	1319	30
RDH 1000 K	415	1000	60 h7	1367	1810	1451	37
RDH 315 K1	34	4500	30 h7	464	578	480	11
RDH 355 K1	47	4000	35 h7	531	655	544	15
RDH 400 K1	58	3500	35 h7	587	736	613	22
RDH 450 K1	75	3200	40 h7	649	827	679	30
RDH 500 K1	92	2650	40 h7	718	918	748	30
RDH 560 K1	148	2400	50 h7	815	1030	839	30
RDH 630 K1	180	2000	50 h7	901	1157	940	30
RDH 710 K1	240	1700	60 h7	998	1303	1050	37
RDH 800 K1	297	1400	60 h7	1107	1468	1181	37
RDH 900 K1	355	1250	60 h7	1230	1648	1319	45
RDH 500 K2	90	2350	50 h7	718	918	748	37
RDH 560 K2	141	2100	50 h7	815	1030	839	37
RDH 630 K2	173	1700	50 h7	901	1157	940	45
RDH 710 K2	220	1500	60 h7	998	1303	1050	55
RDH 800 K2	270	1200	60 h7	1107	1468	1181	55
RDH 900 K2	343	1100	60 h7	1230	1648	1319	75
RDH 1000 K2	415	1000	60 h7	1367	1810	1451	75

Fan Model	Weight (Kg)	Fan Max RPM	Shaft Dia (mm)	Width, W (mm)	Height, H (mm)	Length, L (mm)	Maximum BkW
BDB CM 200	13	5200	20g6	306	370	306	2
BDB CM 225	16	4500	20g6	338	415	348	2.2
BDB CM 250	20	4000	20g6	372	460	383	2.5
BDB CM 280	24	3500	25g6	420	518	432	3
BDB CM 315	27	3100	25g6	464	578	480	4
BDB CM 355	41	2700	30g6	532	654	548	5
BDB CM 400	45	3200	30g6	586	736	612	6
BDB CM 450	62	2900	35g6	648	827	681	8
BDB CM 500	81	2500	35g6	718	918	750	10
BDB CM 560	110	2200	40g6	814	1030	844	12
BDB CM 630	141	2000	45g6	900	1157	945	14
BDB CM 710	199	1800	50g6	998	1302	1057	18
BDB TM 315	40	4100	30g6	464	578	480	8
BDB TM 355	53	3500	35g6	532	654	548	11
BDB TM 400	67	3200	35g6	586	736	612	14
BDB TM 450	89	2900	40g6	648	827	681	18
BDB TM 500	118	2500	45g6	718	918	750	20
BDB TM 560	158	2200	45g6	814	1030	844	25
BDB TM 630	197	2000	50g6	900	1157	945	30
BDB TM 710	251	1800	55g6	998	1302	1057	40
BDB TM 800	299	1200	55g6	1106	1468	1180	22
BDB TM 900	368	1050	60g6	1230	1648	1319	30
BDB TM 1000	474	1000	70g6	1366	1810	1450	35
BDB XM 800	323	1600	65g6	1106	1468	1180	50
BDB XM 900	397	1400	70g6	1230	1648	1319	60
BDB XM 1000	512	1300	80g6	1366	1810	1450	80

AIRFOIL

RZR 12-225	15	6640	20K6	350	433	366	7.5
RZR 12-280	23	5235	25K6	423	532	449	7.5
RZR 12-315	27	4418	25K6	465	596	502	7.5
RZR 12-355	36	3200	25K6	515	669	562	7.5
RZR 15-400	61	3600	30K6	580	750	632	30
RZR 15-450	73	3360	30K6	644	840	708	30
RZR 15-500	94	2920	30K6	713	930	780	30
RZR 15-560	125	2400	40K6	789	1046	884	37
RZR 15-630	149	1880	40K6	876	1173	980	37
RZR 15-710	201	2000	50K6	973	1324	1104	55
RZR 15-800G1	250	1470	50K6	1092	1522	1244	55
RZR 15-900G1	358	1430	60K6	1225	1706	1386	75
RZR 15-1000	416	1140	60K6	1362	1869	1510	75



Filter Type, Dimension and Quantity

TYPE	DIMENSION (mm)	PART NO.	39G UNIT SIZE																				
			0608	0609	0711	0811	0912	0913	0914	1015	1117	1317	1418	1420	1621	1822	1825	2025	2125	2226	2230	2234	2634
HEPA filter EU13 P/brd	H289 X W595	3GA509-904	-	-	2	2	-	-	-	2	-	2	-	-	3	2	4	-	-	4	4	8	3
	H391 X W495	3GA509-943	-	2	-	-	2	2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-944	1	-	1	1	2	2	4	-	-	2	-	-	3	-	-	-	-	-	3	-	-
	H595 X W595	3GA509-902	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
HEPA filter EU13 Alum	H289 X W595	3GA509-920	-	-	2	2	-	-	-	2	-	2	-	-	3	2	4	-	-	4	4	8	3
	H391 X W495	3GA509-951	-	2	-	-	2	2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-952	1	-	1	1	2	2	4	-	-	2	-	-	3	-	-	-	-	-	3	-	-
	H595 X W595	3GA509-918	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
HEPA filter EU14 P/brd	H289 X W595	3GA509-925	-	-	2	2	-	-	-	2	-	2	-	-	3	2	4	-	-	4	4	8	3
	H391 X W495	3GA509-953	-	2	-	-	2	2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-954	1	-	1	1	2	2	4	-	-	2	-	-	3	-	-	-	-	-	3	-	-
	H595 X W595	3GA509-923	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
HEPA filter EU14 Alum	H289 X W595	3GA509-941	-	-	2	2	-	-	-	2	-	2	-	-	3	2	4	-	-	4	4	8	3
	H391 X W495	3GA509-961	-	2	-	-	2	2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-962	1	-	1	1	2	2	4	-	-	2	-	-	3	-	-	-	-	-	3	-	-
	H595 X W595	3GA509-939	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
1" Bag Filter EU5	H289 X W595	39GA509-373	-	-	-	-	-	-	-	2	-	-	-	-	3	-	4	-	-	4	4	5	-
	H391 X W495	39GA509-375	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-376	1	-	-	-	2	2	4	-	-	-	-	-	-	3	-	-	-	-	-	-	-
	H595 X W595	39GA509-630	-	2	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-631	-	-	2	2	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	3	3
	H595 X W391	39GA509-632	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3	-
	H595 X W595	39GA509-378	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
1" Bag Filter EU6	H289 X W595	39GA509-230	-	-	-	-	-	-	-	2	-	-	-	-	3	-	4	-	-	4	4	5	-
	H391 X W495	39GA509-232	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-233	1	-	-	-	2	2	4	-	-	-	-	-	-	3	-	-	-	-	-	-	-
	H595 X W595	39GA509-621	-	2	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-622	-	-	2	2	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	3	3
	H595 X W391	39GA509-623	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3	-
	H595 X W595	39GA509-235	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
1" Bag Filter EU7	H289 X W595	39GA509-208	-	-	-	-	-	-	-	2	-	-	-	-	3	-	4	-	-	4	4	5	-
	H391 X W495	39GA509-210	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-211	1	-	-	-	2	2	4	-	-	-	-	-	-	3	-	-	-	-	-	-	-
	H595 X W595	39GA509-618	-	2	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-619	-	-	2	2	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	3	3
	H595 X W391	39GA509-620	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3	-
	H595 X W595	39GA509-213	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
1" Bag Filter EU8	H289 X W595	39GA509-240	-	-	-	-	-	-	-	2	-	-	-	-	3	-	4	-	-	4	4	5	-
	H391 X W495	39GA509-242	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-243	1	-	-	-	2	2	4	-	-	-	-	-	-	3	-	-	-	-	-	-	-
	H595 X W595	39GA509-624	-	2	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-625	-	-	2	2	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	3	3
	H595 X W391	39GA509-626	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3	-
	H595 X W595	39GA509-245	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
1" Bag Filter EU9	H289 X W595	39GA509-270	-	-	-	-	-	-	-	2	-	-	-	-	3	-	4	-	-	4	4	5	-
	H391 X W495	39GA509-615	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-271	1	-	-	-	2	2	4	-	-	-	-	-	-	3	-	-	-	-	-	-	-
	H595 X W595	39GA509-627	-	2	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-628	-	-	2	2	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	3	3
	H595 X W391	39GA509-629	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3	-
	H595 X W595	39GA509-272	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
2" HVF filter G03	H289 X W595	39GA509-038	-	-	2	2	-	-	-	2	-	2	-	-	3	2	4	-	-	4	4	8	3
	H391 X W495	39GA509-040	-	2	-	-	2	2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-041	1	-	1	1	2	2	4	-	-	2	-	-	3	-	-	-	-	-	3	-	-
	H595 X W595	39GA509-043	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20
2" HVF filter G04	H289 X W595	39GA509-026	-	-	2	2	-	-	-	2	-	2	-	-	3	2	4	-	-	4	4	8	3
	H391 X W495	39GA509-028	-	2	-	-	2	2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-029	1	-	1	1	2	2	4	-	-	-	2	-	-	3	-	-	-	-	3	-	-
	H595 X W595	39GA509-031	-	-	-	-	-	-	-	2	-	4	4	6	6	6	8	12	12	12	12	15	20

Coil Weight

39G Unit Size	Face Area (m ²)	Estimated Dry Coil Weight (kg)																																		
		Hot Water								Chilled Water								Direct Expansion																		
		1		2		4		5		6		7		8		4		6																		
8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14													
0608	0.22	13	13	14	14	13	13	14	14	21	22	22	24	24	25	26	27	26	27	28	29	30	31	30	31	32	35	21	22	22	24	24	26	27	28	29
0609	0.30	16	16	17	17	16	16	17	17	26	27	28	29	29	30	31	33	31	33	35	37	38	40	37	39	41	43	26	27	28	29	31	33	35	37	
0711	0.45	20	21	21	22	20	21	21	22	33	36	37	39	38	40	41	43	41	44	47	49	51	54	50	53	55	59	33	36	37	39	41	44	47	49	
0811	0.56	24	25	26	27	24	25	26	27	40	42	44	47	44	48	50	52	50	53	57	59	62	65	60	64	68	72	40	42	44	47	50	53	57	59	
0912	0.68	27	28	30	31	27	28	30	31	47	49	51	53	52	55	59	62	58	62	65	70	73	77	70	75	80	85	47	49	51	53	58	62	65	70	
0913	0.75	29	30	31	33	29	30	31	33	49	52	54	58	55	59	62	66	62	66	71	74	79	83	75	81	86	92	49	52	54	58	62	66	71	74	
0914	0.82	30	32	33	35	30	32	33	35	52	55	58	61	59	63	66	71	66	71	75	80	84	90	81	86	93	98	52	55	58	61	66	71	75	80	
1015	1.06	36	38	40	42	36	38	40	42	63	66	71	74	72	76	82	86	81	87	93	98	104	110	99	107	115	123	63	66	71	74	81	87	93	98	
1117	1.37	56	59	61	64	56	59	61	64	90	94	99	104	101	107	114	119	113	120	127	135	141	150	136	146	156	165	90	94	99	104	113	120	127	135	
1317	1.65	66	69	72	75	66	69	72	75	105	110	117	123	118	126	134	141	132	141	150	160	168	178	160	172	184	196	105	110	117	123	132	141	150	160	
1418	1.86	72	75	79	82	72	75	79	82	114	121	128	135	130	138	147	156	146	156	165	176	185	197	176	191	204	217	114	121	128	135	146	156	165	176	
1420	2.10	77	80	84	88	77	80	84	88	124	131	139	147	141	150	160	170	158	170	181	193	203	216	193	208	224	239	124	131	139	147	158	170	181	193	
1621	2.57	90	95	99	104	90	95	99	104	146	154	164	174	167	179	191	202	189	203	216	230	242	259	230	250	269	288	146	154	164	174	189	203	216	230	
1822	3.20	108	114	120	126	108	114	120	126	175	186	198	211	202	216	231	246	228	246	263	281	295	316	281	305	328	351	175	186	198	211	228	246	263	281	
1825	3.70	117	124	130	137	117	124	130	137	193	206	220	234	223	240	257	274	253	274	294	315	328	355	314	341	369	395	193	206	220	234	253	274	294	315	
2025	3.98	134	141	149	156	134	141	149	156	224	238	253	268	257	274	293	311	289	311	333	355	373	399	355	383	413	443	224	238	253	268	289	311	333	355	
2125	4.27	142	150	158	166	142	150	158	166	237	252	269	284	272	292	312	330	307	330	355	378	396	424	377	409	439	471	237	252	269	284	307	330	355	378	
2226	4.61	150	159	167	176	150	159	167	176	251	269	285	302	289	311	332	352	327	352	378	403	394	424	402	436	470	504	251	269	285	302	327	352	378	403	
2230	5.39	166	175	185	195	166	175	185	195	282	302	322	341	326	350	376	400	370	400	429	459	448	483	457	497	536	576	282	302	322	341	370	400	429	459	
2234	6.18	181	192	204	215	181	192	204	215	313	336	358	381	362	391	420	448	413	447	481	515	502	542	513	558	603	648	313	336	358	381	413	447	481	515	
2634	7.38	211	225	238	252	211	225	238	252	363	391	417	445	423	457	491	525	483	523	564	604	590	637	685	710	765	815	363	391	417	445	483	523	564	604	

Note:

- All coils are of 12.7mm OD copper tubes with aluminium plated fin construction.
- To estimate the weight of water content (kg), use – Face area (sq.m) x no. of rows x 7.0kg/sq.m.
- To estimate dry coil weight (kg) for copper plate fin construction, use the above data (kg) x 3.3.

GENERAL

1. Furnish and install central air handling units of the type, size and capacity shown on the equipment schedule.
2. Equipment schedules are based on Carrier 39G C-series. The design of the air handling unit is based on the use of modular panels and extruded aluminum perimeter frames with composite corner piece.
3. Units shall be horizontal/vertical draw-through type or horizontal blow-through type as shown on the certified drawings. In general, the unit shall consist of:
 - Mixing box section
 - Filter section
 - Coil section
 - Access or Plenum section
 - Fan section

CASING

1. Unit shall be constructed of a complete frame with easily removable panels. Removal of any panel shall not affect the structural integrity of the unit.
2. All 39G unit sections shall be supplied with 14-gage G90 galvanized (100mm height) steel structural unit base. Holes are provided for rigging purposes and are positioned to suit optimum hoisting stability.
3. Casing panels shall be solid double wall of 50mm (or 25mm) nominal construction with injection foam insulation in between. The outer panel shall be painted 0.5mm thick galvanized steel (sky blue color – RAL 5012) and inner panel shall be unpainted 0.5mm thick galvanized steel. The coating shall meet or exceed ASTM B117 Standard for 500-hour salt spray test.
4. The casing panels shall be insulated with injected insitu CFC-Free Polyurethane insulation foam with thermal conductivity of 0.020W/mK and a density of 40kg/m³ in between. The insulation shall be sandwiched and encapsulated between the inner and outer panel. Exposed insulation is not acceptable.
5. Casing panels shall have no exterior exposed raw edges that could lead to rust formation. All casing corners shall be radiused or chamfered.
6. All panels shall seal against a full casing perimeter with nitrile gasket to ensure a tight seal.
7. Mixing boxes shall be solid double wall, insulated and complete with necessary air dampers for return and fresh air mixing. Accessibility options shall be hinged access door on hand side, hinged access doors on both sides, or removable access doors.
 - a. Viewports shall be available as a factory-installed option on the door of this section.
 - b. Marine lights shall be available as a factory-installed option.
8. Filter section shall be solid double wall, insulated and complete with necessary tracks for filters installation. Accessibility options shall be hinged access door on hand side, hinged access doors on both sides, or removable access doors.
 - a. Pressure gages or switches shall be available as a factory-installed option
 - b. Filter sections shall be designed and constructed to house one of the following filter types:
 - Face/side loading 25mm or 50mm pre-filters
 - Side loading 50mm angle filters
 - Face loading 529mm bag filters with 50mm pre-filters
 - Side loading 529mm bag filters
 - Face loading HEPA filters
9. Coil sections shall have solid double wall and insulated casing. Accessibility options shall be hinged access door or removable access doors (applicable for vertical type).
10. Access and plenum sections shall have solid double wall and insulated casing. Accessibility options shall be hinged access door on hand side, hinged access doors on both sides or removable access doors.
 - a. Viewports shall be available as a factory-installed option on the door of this section.
 - b. Marine lights shall be available as a factory-installed option.

CASING (cont')

11. Fan section shall have solid double wall and insulated casing. Accessibility options shall be hinged access door on hand side, hinged access doors on both sides or removable access doors.
 - a. Viewports shall be available as a factory-installed option on the door(s) of this section.
 - b. IP44 marine lights shall be available as a factory-installed option.
 - c. Blow-thru sections shall have a diffuser plate as an integral part of the fan section if used immediately downstream of the fan section.

FANS

A. General

1. Forward-curved fans shall have one double width double inlet (DWDI) fan wheel and scroll. They shall be constructed of galvanized steel. They shall be designed for continuous operation at the maximum rated fan speed and motor horsepower. Completed fan assembly shall be statically and dynamically balanced in accordance to ISO 1940.
2. Backward inclined fans shall have one double width double inlet (DWDI) fan wheel and scroll. The fan assembly shall be cleaned, primed and painted with alchidic-melamminic paint. They shall be designed for continuous operation at the maximum rated fan speed and motor horse-power. Completed fan assembly shall be statically and dynamically balanced in accordance to ISO 1940.
3. Airfoil fan sections shall have one double width double (DWDI) airfoil fan wheel and scroll. The fan assembly shall be cleaned, primed and painted with epoxy paint. Completed fan assembly shall be statically and dynamically balanced in accordance to ISO 1940.
4. Fan wheels shall be keyed to the shaft and shall be designed for continuous operation at maximum rated fan speed and motor horsepower. Fan wheels and shafts shall be selected with a maximum operating speed 25% below the first critical.
5. Fan shafts shall be solid carbon steel, turned, ground, polished and coated with protective paint. Hollow shafts are not acceptable.

B. Performance Ratings

Air performance ratings of the fans shall be rated and certified in accordance with AMCA 210-99.

C. Sound Ratings

Manufacturer shall publish first through eighth octave sound power for fan inlet and fan discharge.

D. Mounting

Fan scroll, wheel, shaft, bearings, drives, and motor shall be mounted on a common base assembly. The base assembly shall be isolated from the outer casing with factory-installed 2" spring isolators and flexible canvas connection.

FAN MOTOR

1. The motor size, type, speed and its electrical characteristics shall be as per the equipment schedule.
2. Fan motors shall be mounted within the fan section casing on slide rails to aid in belt tightening.
3. Fan motors shall be IP55, high efficiency (EFF2), totally enclosed fan cooled (TEFC) with class F insulation. Optional premium efficiency (EFF1) motors shall be available, if specified.
4. The motor shall be suitable for operation at ambient temperature of 40°C (max) with $\pm 10\%$ voltage utilization range and a 1.15 minimum service factor.

DRIVES

1. The drive assembly shall consist of V-belts and a set of fan and motor pulley.
2. The V-belts shall be SPZ, SPA, SPB or SPC grades, oil and heat resistance and having anti static characteristic which prevent electrical discharge.
3. The motor and fan pulley dimension shall conform to ISO 4183 and shall be using taper-lock bush with set screws for easy and quick assemble and disassemble process. The pulley shall be phosphated and coated with a layer of rust prohibitive paint for protection against corrosion.
4. Drive shall be designed for a minimum 1.5 service factor as standard with a 2.0 service factor options. Drives shall be fixed-pitch with variable pitch as an option. All drives shall be factory mounted, with sheaves aligned.

COILS

- A.** All cooling, heating and refrigerant (DX) coils shall be provided to meet the scheduled performance. All coil performances shall be rated in accordance with ARI Standard 410 and shall be tested at 400 psig air pressure while submerged under water.

B. General Fabrication

1. All water and refrigerant coils shall have minimum 12.7mm (1/2-in.) OD copper tubes mechanically expanded into fins to ensure high thermal performance.
2. Aluminum fin type shall be with belled collars. Optional copper fins or fins with protective coatings shall be supplied, if specified.
3. Aluminum-finned coils shall be supplied with die formed casing and galvanized steel tube sheet. Optional stainless steel or aluminum tube sheet shall be available if specified. Copper-finned coils shall be supplied with stainless steel casing and tube sheets.
4. Moisture eliminator shall be provided if specified on the equipment schedule. The moisture eliminator material shall be mesh aluminum type or PVC type as specified.

C. Cooling and Heating Coils

1. Headers shall be constructed of steel with MPT connections. Headers shall have drain and vent connections accessible from the exterior of the unit. Optional non-ferrous headers with sweat connection shall be supplied if specified.
2. Coils shall be drainable, with non-trapping circuits and without turbulence promoting devices. Coils will be suitable for a design working pressure of 300 psig at 93°C (cooling coils) or 175 psig at 205°C (heating coils).
3. Coil shall be designed for counter flow arrangements.

D. Refrigerant (DX) Coils

1. Headers shall be constructed of copper with brazed joints.
2. Standard circuiting selections include optional single distributor arrangement (for 39G0608 – 39G0813) and dual distributor arrangement for most sizes for face split or intertwined row split as specified. Brass nozzles and distributors are factory supplied to ensure uniform flow. Expansion valves shall be provided if specified.
3. Coil shall be designed for counter flow arrangements.

E. Drain Pans

1. Drain pans shall be single wall, 1.0mm thick galvanized (and powder painted) or SS304 stainless steel construction as specified. The drain pan depth shall be 40mm with 500mm width and insulated with 3mm PE closed cell insulation underneath to prevent condensation.
2. The pan shall be sloped toward the drain fitting to ensure positive condensate drainage and shall extend downstream of the coil to provide sufficient amount of space to contain moisture carry-over. Drain pan shall allow no standing water.
3. Drain pan shall have a recessed bottom drain design with integral FPT elbow (43mm OD) for side discharge and trapping. One drain outlet shall be supplied for each cooling coil section unless otherwise indicated.
4. Where 2 or more coils are stacked in a coil bank, intermediate drain pans shall be provided and the condensate shall be piped to the bottom drain pan. The bottom coil shall not serve as a drain path for the upper coil.
5. The coil shall not sit in the drain pan and shall be removable via a coil track.

ELECTRIC HEATERS

1. Electric heater capacity and steps shall be as indicated on the equipment schedule.
2. The electric heater element shall be constructed from 80/20 nickel chrome resistance wire which is connected to terminal pins and centered in SS304 stainless steel sheath tubes by compressed magnesium oxides.
3. The manufacturer shall furnish a control box containing contactor, thermostat and circuit breaker. Heater control box shall be mounted on the designated hand side of the unit.

FILTER SECTIONS

1. Provide the type and efficiency of the filters as per the equipment schedule.
2. High velocity filter sections shall accept 25mm or 50mm (G3 or G4) washable or throw-away filters.
3. Angle filter sections shall accept 50mm (G3) washable filters of standard flat filter sizes, arranged in a horizontal V formation.
4. Bag filter sections shall be capable of accepting (F5 - F9) bag filters with length up to 529mm with 22mm header.
5. Blow-thru HEPA filter sections shall contain a face loading filter frame and be capable of accepting standard size 300mm deep HEPA filters (H13-H14).
6. Optional Magnehelic filter gages complete with necessary tubing to measure the pressure drop across the filters shall be provided if specified.

MXB DAMPERS

1. Provide factory installed opposed acting dampers as per the approved drawings.
2. Damper frame shall be made of extruded and anodized aluminum. Damper blades shall also be extruded and anodized aluminum airfoil shape to withstand high velocity and static pressure. Dampers shall be provided with flexible synthetic blade edge seals for low leakage application.
3. Damper shall be sectionalized to limit blade length to be less than 1800mm in order to prevent excessive blade warping. Outdoor air and return air damper size shall be of the same area for equal air mixing.



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Manufacturer reserves the right to discontinue, or change at anytime, specifications or designs without notice and without incurring obligations.

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