



AIR HANDLING UNIT

39CQM [2,000~100,000 m³/h]

The New, Versatile and Flexibility in Commercial Air Conditioning System

- ❑ Units are certified in accordance to Eurovent EN1886:2015

Eurovent Specifications		Class				
Thermal Transmission		T5	T4	T3	T2	T1
Thermal Bridging		TB5	TB4	TB3	TB2	TB1
Filter Bypass Leakage	G1-G4	F5	F6	F7	F8	F9
Air Leakage				L3	L2	L1
Casing Strength				D3	D2	D1

Unit class specification marked in blue as per Eurovent standard.

- ❑ Double-skin casing with 50mm(2") 40kg/m³ CFC-Free PU insulation which isolates insulation exposure to the air stream.
- ❑ Wide range of coils offering:
 - Chilled Water - 1, 2, 3, 4, 5, 6, 7, 8 rows with 8, 10, 12, 14 fin per inch.
 - Hot Water - 1, 2, 3, 4, 5, 6, 7, 8 rows with 8, 10, 12, 14 fin per inch.
 - DX Coil - 4 and 6 rows with 8, 10, 12, 14 fin per inch.
- ❑ All coils are factory pressure tested at 400 psig under water as standard with Nitrogen (N₂).
- ❑ Coil tracks enable easy coil removal for complete cleaning and assurance of a dry unit interior.
- ❑ Powder painted sloped galvanized steel drain pan with side drainage as standard (optional stainless steel drain pan).
- ❑ Optimized fan impeller size to meet performance criteria:
 - Forward curved blade - sizes 160mm to 1000mm.
 - Backward curved / Air foil blade - sizes 225mm to 1000mm.
 - Plug fan - sizes 315mm to 1400mm.
- ❑ Low leak construction with hexagonal socket compression, latch type and nitrile gasket on mating panel parameter.
- ❑ Factory installed unit base of 100 mm height, constructed of 10 gauge galvanized steel (optional 125mm height for marine application).
- ❑ Optional factory supplied Heat Recovery Wheel (HRW) or Horizontal Heatpipe for energy management application.
- ❑ Optional factory installed UVC lamp.
- ❑ AHU selection software for easy unit selection (please refer to the Carrier's representative for more details).



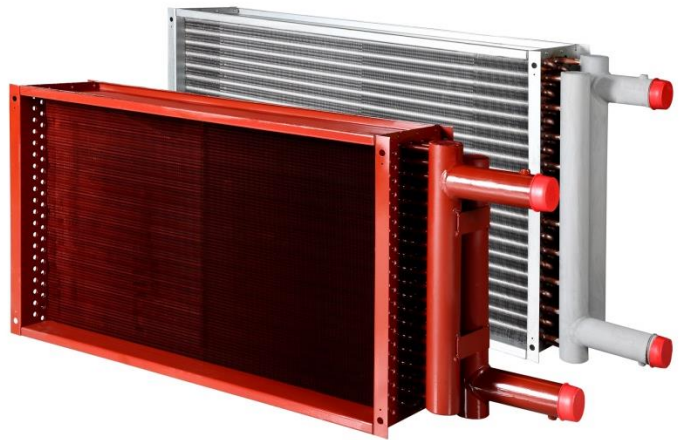
Direct Expansion Coil (DX Coil)

Coils are aluminum/copper with belled collars and bonded 12.7mm OD copper tubes by mechanically expansion. The coils have galvanized steel casing and provided with brass distributors with sweat type connections.

Chilled Water Coil

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

Option: Copper header with brazing type connection.

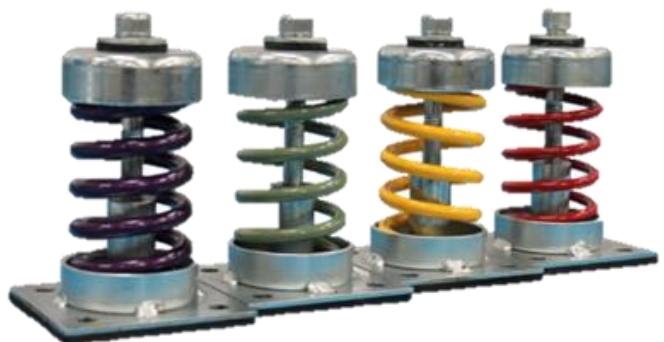


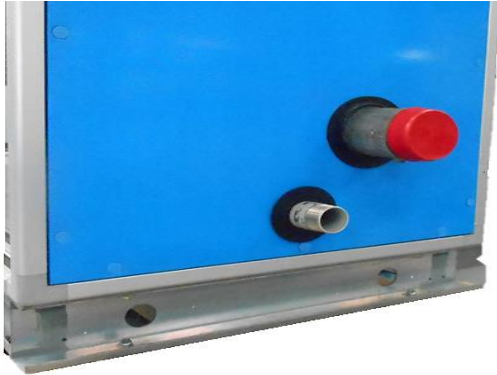
Assembly Fan Housing Motor and Base (FMB)

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.

Spring Isolator

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





Drain Pan and Drain Outlet

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

Bearing Arm

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



Taper Lock Pulley

Flexibility to change diameter of pulley according to fan shaft. Pulleys with taper lock bush allows for convenient dismantling and maintenance of drive package.

Fan Discharge Collar

Flanged discharge collar to provide easy duct connection.





Accessory High Velocity Filter (HVF) Frame

For fresh air 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.



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

- 1) Determine the unit size based on air flow or coil face area.
 - a. 1.5m/s minimum velocity (cooling or heating).
 - b. 2.65m/s maximum velocity for cooling coil without drift eliminator.
 - c. 4.5m/s maximum velocity for heating coil only.
- 2) Use estimated dimensions to find approximate size of base unit or necessary sections.
- 3) Quick selection of weights of base casing unit and motor drive package weight (if applicable).

STANDARD COIL

AHU Model Name	Coil Face Area (m ²)	Air Volume (l/s) x 1000			
		2 m/s	2.5 m/s	3 m/s	3.5 m/s
39CQM0608	0.258	0.52	0.65	0.77	0.9
39CQM0609	0.302	0.6	0.76	0.91	1.06
39CQM0610	0.347	0.69	0.87	1.04	1.21
39CQM0711	0.447	0.89	1.12	1.34	1.56
39CQM0712	0.498	1	1.25	1.49	1.74
39CQM0811	0.559	1.12	1.4	1.68	1.96
39CQM0813	0.686	1.37	1.72	2.06	2.4
39CQM0912	0.685	1.37	1.71	2.06	2.4
39CQM0913	0.754	1.51	1.89	2.26	2.64
39CQM0914	0.824	1.65	2.06	2.47	2.88
39CQM1015	1.057	2.11	2.64	3.17	3.7
39CQM1016	1.139	2.28	2.85	3.42	3.99
39CQM1117	1.28	2.56	3.2	3.84	4.48
39CQM1317	1.646	3.29	4.12	4.94	5.76
39CQM1318	1.76	3.52	4.4	5.28	6.16
39CQM1320	1.989	3.98	4.97	5.97	6.96
39CQM1322	2.094	4.19	5.24	6.28	7.33
39CQM1418	1.858	3.72	4.65	5.57	6.5
39CQM1419	1.979	3.96	4.95	5.94	6.93
39CQM1420	2.099	4.2	5.25	6.3	7.35
39CQM1421	2.22	4.44	5.55	6.66	7.77
39CQM1422	2.341	4.68	5.85	7.02	8.19
39CQM1518	2.054	4.11	5.14	6.16	7.19
39CQM1519	2.187	4.37	5.47	6.56	7.65

AHU Model Name	Coil Face Area (m ²)	Air Volume (l/s) x 1000			
		2 m/s	2.5 m/s	3 m/s	3.5 m/s
39CQM1521	2.454	4.91	6.14	7.36	8.59
39CQM1522	2.587	5.17	6.47	7.76	9.05
39CQM1524	2.854	5.71	7.14	8.56	9.99
39CQM1525	2.987	5.97	7.47	8.96	10.45
39CQM1619	2.291	4.58	5.73	6.87	8.02
39CQM1621	2.57	5.14	6.43	7.71	9
39CQM1622	2.71	5.42	6.78	8.13	9.49
39CQM1624	2.99	5.98	7.48	8.97	10.47
39CQM1625	3.129	6.26	7.82	9.39	10.95
39CQM1719	2.499	5	6.25	7.5	8.75
39CQM1819	2.604	5.21	6.51	7.81	9.11
39CQM1822	3.08	6.16	7.7	9.24	10.78
39CQM1824	3.397	6.79	8.49	10.19	11.89
39CQM1825	3.556	7.11	8.89	10.67	12.45
39CQM2025	3.983	7.97	9.96	11.95	13.94
39CQM2125	4.125	8.25	10.31	12.38	14.44
39CQM2226	4.606	9.21	11.52	13.82	16.12
39CQM2230	5.394	10.79	13.49	16.18	18.88
39CQM2234	6.181	12.36	15.45	18.54	21.63
39CQM2330	5.568	11.14	13.92	16.7	19.49
39CQM2334	6.38	12.76	15.95	19.14	22.33
39CQM2434	6.779	13.56	16.95	20.34	23.73
39CQM2634	7.377	14.75	18.44	22.13	25.82
39CQM2636	7.847	15.69	19.62	23.54	27.46

Note:

For cooling application of face velocity more than 2.65m/s, drift eliminators is recommended to avoid moisture carry over under normal operating condition.

COIL WITH HEATPIPE

AHU Model Name	Coil Face Area (m ²)	Air Volume (l/s) x 1000			
		2 m/s	2.5 m/s	3 m/s	3.5 m/s
39CQM0608	0.213	0.43	0.53	0.64	0.75
39CQM0609	0.258	0.52	0.65	0.77	0.9
39CQM0610	0.302	0.6	0.76	0.91	1.06
39CQM0711	0.396	0.79	0.99	1.19	1.39
39CQM0712	0.447	0.89	1.12	1.34	1.56
39CQM0811	0.495	0.99	1.24	1.49	1.73
39CQM0813	0.622	1.24	1.56	1.87	2.18
39CQM0912	0.615	1.23	1.54	1.85	2.15
39CQM0913	0.685	1.37	1.71	2.06	2.4
39CQM0914	0.754	1.51	1.89	2.26	2.64
39CQM1015	0.974	1.95	2.44	2.92	3.41
39CQM1016	1.057	2.11	2.64	3.17	3.7
39CQM1117	1.191	2.38	2.98	3.57	4.17
39CQM1317	1.532	3.06	3.83	4.6	5.36
39CQM1318	1.646	3.29	4.12	4.94	5.76
39CQM1320	1.875	3.75	4.69	5.63	6.56
39CQM1322	1.986	3.97	4.97	5.96	6.95
39CQM1418	1.737	3.47	4.34	5.21	6.08
39CQM1419	1.858	3.72	4.65	5.57	6.5
39CQM1420	1.979	3.96	4.95	5.94	6.93
39CQM1421	2.099	4.2	5.25	6.3	7.35
39CQM1422	2.22	4.44	5.55	6.66	7.77
39CQM1518	1.92	3.84	4.8	5.76	6.72
39CQM1519	2.054	4.11	5.14	6.16	7.19

AHU Model Name	Coil Face Area (m ²)	Air Volume (l/s) x 1000			
		2 m/s	2.5 m/s	3 m/s	3.5 m/s
39CQM1521	2.32	4.64	5.8	6.96	8.12
39CQM1522	2.454	4.91	6.14	7.36	8.59
39CQM1524	2.72	5.44	6.8	8.16	9.52
39CQM1525	2.854	5.71	7.14	8.56	9.99
39CQM1619	2.151	4.3	5.38	6.45	7.53
39CQM1621	2.431	4.86	6.08	7.29	8.51
39CQM1622	2.57	5.14	6.43	7.71	9
39CQM1624	2.85	5.7	7.13	8.55	9.98
39CQM1625	2.99	5.98	7.48	8.97	10.47
39CQM1719	2.347	4.69	5.87	7.04	8.21
39CQM1819	2.445	4.89	6.11	7.34	8.56
39CQM1822	2.921	5.84	7.3	8.76	10.22
39CQM1824	3.239	6.48	8.1	9.72	11.34
39CQM1825	3.397	6.79	8.49	10.19	11.89
39CQM2025	3.805	7.61	9.51	11.42	13.32
39CQM2125	3.941	7.88	9.85	11.82	13.79
39CQM2226	4.409	8.82	11.02	13.23	15.43
39CQM2230	5.197	10.39	12.99	15.59	18.19
39CQM2234	5.984	11.97	14.96	17.95	20.94
39CQM2330	5.364	10.73	13.41	16.09	18.77
39CQM2334	6.177	12.35	15.44	18.53	21.62
39CQM2434	6.563	13.13	16.41	19.69	22.97
39CQM2634	7.142	14.28	17.86	21.43	25
39CQM2636	7.612	15.22	19.03	22.84	26.64

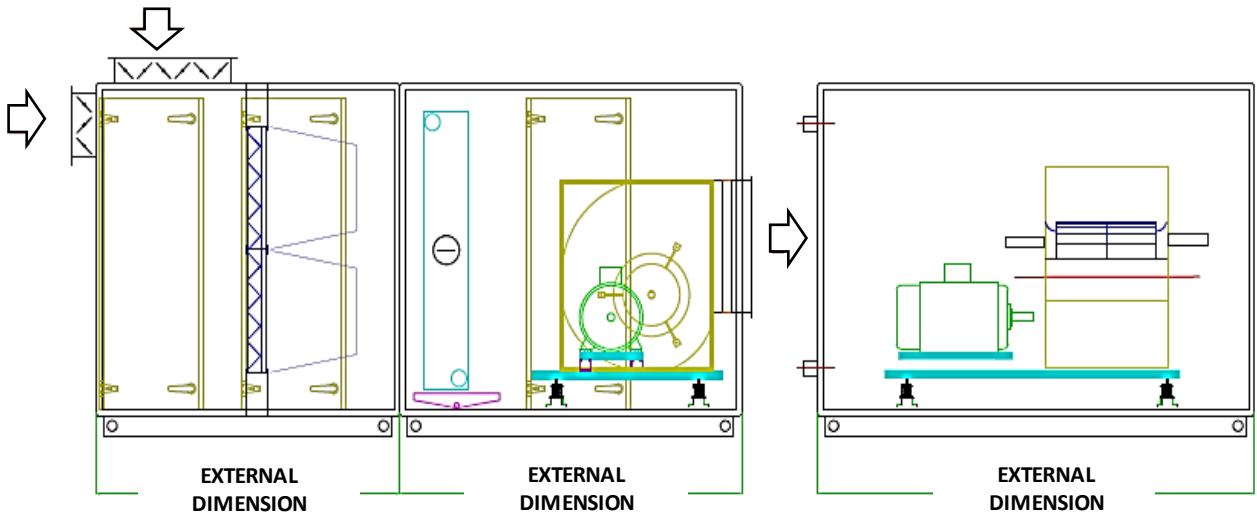
Note:
 For cooling application of face velocity more than 2.65m/s, drift eliminators is recommended to avoid moisture carry over under normal operating condition.

AHU SELECTION PROGRAM

We have made available a computer selection for your application program. Please contact your nearest Carrier Representative for a assistance. Selection based on your "Quick Selection" plus the design parameters on your application.



Horizontal Schematic



External AHU Length

External AHU Length = (Section Length + K)
 where, K = 100mm (50mm casing thickness)

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

For Example:

39CQM1522, MXB-BF-CCS-FS, Fan Size 500, Horizontal AHU with 50mm casing thickness

Unit will be split into two section:-

- 1) MXB-BF: 800mm + 600mm = 1400mm + K(100) = 1500mm
- 2) CCS-FS: 600mm + 1100mm = 1700mm + K(100) = 1800mm

Total AHU Length = 3300mm

External AHU Width

External AHU Width = (Module Width + K)mm
 where, K = 100mm (50mm casing thickness)

For Example:

39CQM1522, MXB-BF-CCS-FS, Fan Size 500, Horizontal AHU with 50mm casing thickness

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

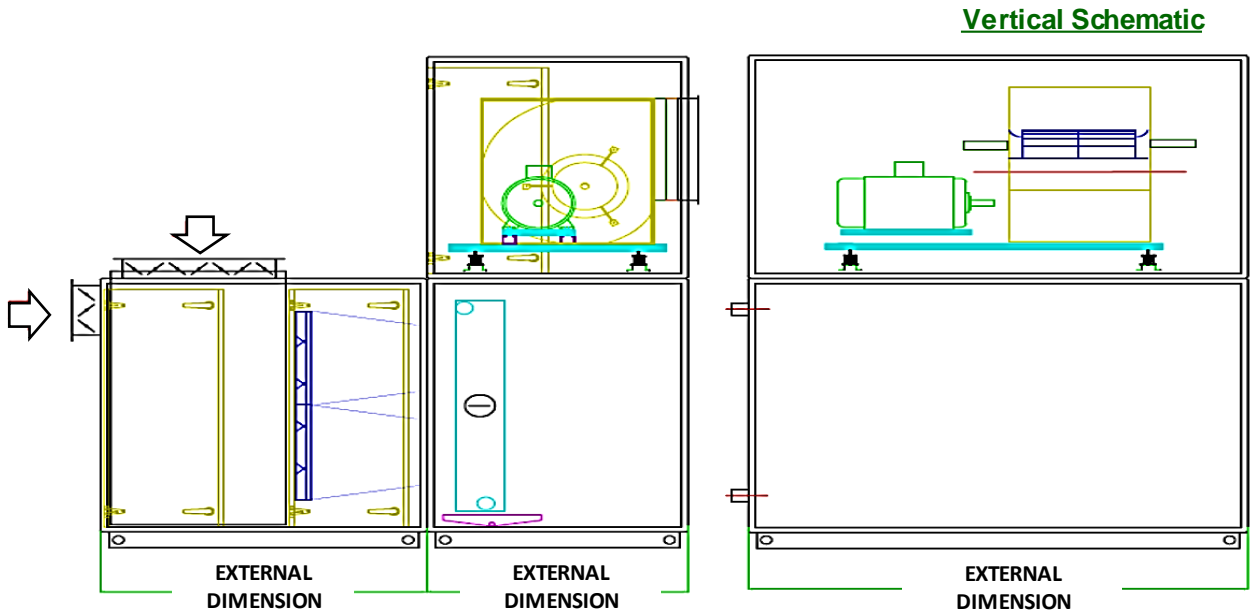
External AHU Height

Horizontal AHU Height = (Module Height + K + 100)mm
 where, K = 100mm (50mm casing thickness)

For Example:

39CQM1522, MXB-BF-CCS-FS, Fan Size 500, Horizontal AHU with 50mm casing thickness

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



External AHU Length

External AHU Length = (Section Length + K)
 where, K = 100mm (50mm casing thickness)

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

For Example:

39CQM1522, MXB-BF-CCS-FS, Fan Size 500, Vertical AHU with 50mm casing thickness

Unit will be split into two section:-

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

Total AHU Length = 2700mm

Note:

- 1) The fan is on top of the coil section, just apply the fan section length for calculation.
- 2) Add 100mm incase of external filter track.

External AHU Width

External AHU Width = (Module Width + K)mm
 where, K = 100mm (50mm casing thickness)

For Example:

39CQM1522, MXB-BF-CCS-FS, Fan Size 500, Horizontal AHU with 50mm casing thickness

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

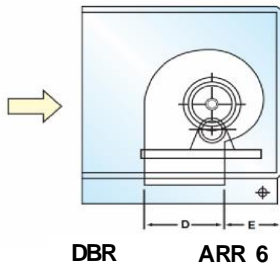
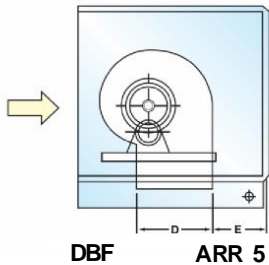
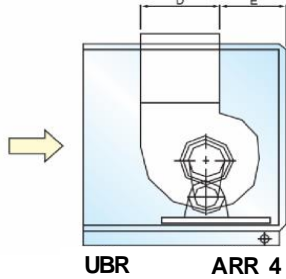
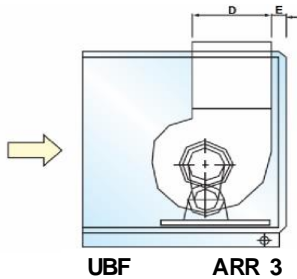
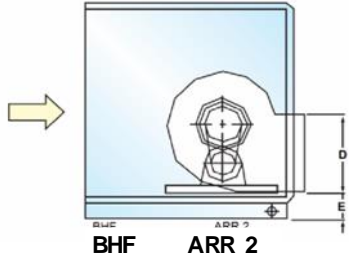
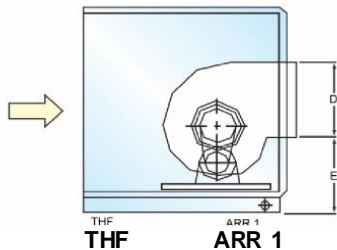
External AHU Height

Vertical AHU = (Module Height + Fan Section Vertical Height + 2K + 100)mm
 where, K = 100mm (50mm casing thickness)

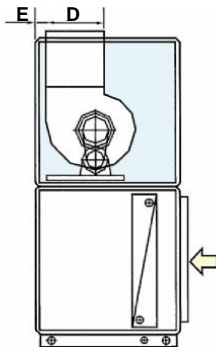
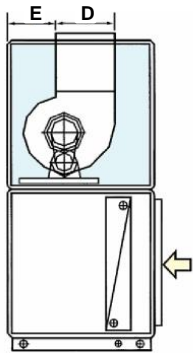
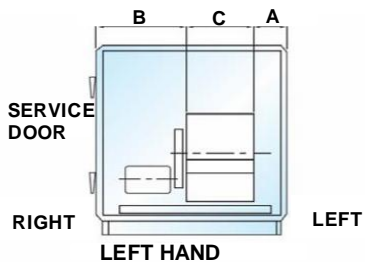
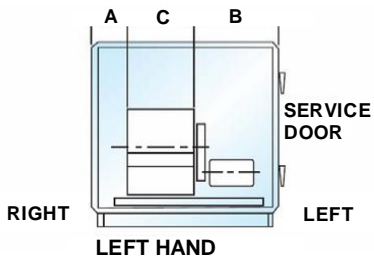
For Example:

39CQM1522, MXB-BF-CCS-FS, Fan Size 500, Vertical AHU with 50mm casing thickness

AHU Height = (1500mm + 1200mm + 200mm + 100mm) = 3000mm



SIDE ELEVATION



FRONT ELEVATION



BASE UNIT COIL WEIGHT (50mm SECTION WEIGHT)

39CQM AHU 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	FCF or BCF				FCF or BCF
	MXB	DBL MXB	ECN MXB	BF / LVF	HVF	HEPA	CW	HW	FCF or BCF		FCF or BCF					
	50mm Section weight (kg)															
0608	38	68	38	45	23	78	41	22	23	23	50	69	25	44	45	
180	38	68	38	45	23	78	41	22	23	23	50	69	25	44	45	
0609	41	71	41	47	24	82	44	22	24	24	54	72	26	46	47	
200	41	71	41	47	24	82	44	22	24	24	62	72	26	46	47	
0711	49	82	49	55	28	96	52	27	28	28	75	84	31	56	55	
225	49	82	49	55	28	96	52	27	28	28	75	84	31	56	55	
0811	52	86	52	57	29	101	53	27	29	29	78	88	32	60	57	
250	52	86	52	57	29	101	53	27	29	29	78	88	32	60	57	
0912	57	92	57	62	31	107	57	29	31	31	86	93	34	67	62	
280	57	92	57	62	31	107	57	29	31	31	97	93	34	67	62	
0913	69	95	69	64	33	112	60	31	33	33	101	97	36	80	64	
315	69	95	69	64	33	112	60	31	33	33	101	97	36	80	64	
0914	71	113	71	66	34	115	61	31	34	34	104	99	37	82	66	
355	71	113	71	66	34	115	61	31	34	34	114	99	37	82	66	
1015	78	121	78	70	35	122	65	33	35	35	124	106	39	90	70	
400	78	121	78	70	35	122	65	33	35	35	124	106	39	90	70	
1117	89	133	89	76	39	137	70	36	39	39	143	118	43	104	76	
450	89	133	89	76	39	137	70	36	39	39	143	118	43	104	76	
1317	98	142	98	81	41	144	74	37	41	41	153	124	45	116	81	
450	98	142	98	81	41	144	74	37	41	41	153	124	45	116	81	
1418	131	148	105	85	43	151	77	39	43	43	189	156	47	154	85	
500	131	148	105	85	43	151	77	39	43	43	189	156	47	154	85	
1420	140	154	112	89	45	158	81	41	45	45	202	164	99	165	89	
500	140	154	112	89	45	158	81	41	45	45	202	164	99	165	89	
1621	157	169	128	97	49	172	89	45	49	49	229	185	108	185	97	
560	157	169	128	97	49	172	89	45	49	49	229	185	108	185	97	
630	157	169	128	97	49	172	89	45	49	49	229	185	108	185	97	
1822	185	181	141	104	53	184	94	48	53	53	274	-	115	220	104	
630	185	181	141	104	53	184	94	48	53	53	274	-	115	220	104	
1825	202	194	153	111	56	201	102	51	56	56	319	-	124	240	111	
630	202	194	153	111	56	201	102	51	56	56	319	-	124	240	111	
2025	214	294	164	115	58	207	105	53	58	58	334	-	128	256	115	
630	214	294	164	115	58	207	105	53	58	58	334	-	128	256	115	
2125	250	301	169	117	59	211	106	53	59	59	360	-	130	299	117	
800	250	301	169	117	59	211	106	53	59	59	401	-	130	299	117	
2226	263	312	179	122	62	219	110	56	62	62	377	-	135	315	122	
800	263	312	179	122	62	219	110	56	62	62	419	-	135	315	122	
2230	286	327	199	134	68	234	122	62	68	68	455	-	149	344	134	
800	286	327	199	134	68	234	122	62	68	68	495	-	149	344	134	
2234	315	359	220	148	74	258	137	69	74	74	504	-	166	378	148	
800	315	359	220	148	74	258	137	69	74	74	549	-	166	378	148	
2634	347	383	246	156	78	273	142	71	78	78	590	-	173	420	156	
1000	347	383	246	156	78	273	142	71	78	78	614	-	173	420	156	

Note: Estimated weight in kg.

POWER		2P				4P				6P				8P			
kW	HP	FRAME	RPM (50Hz)	EFF	WEIGHT (kg)	FRAME	RPM (50Hz)	EFF	WEIGHT (kg)	FRAME	RPM (50Hz)	EFF	WEIGHT (kg)	FRAME	RPM (50Hz)	EFF	WEIGHT (kg)
0.4	0.5	71	2810	75.0		71	1395	71.5		80	925	66.0		90S	710	64.5	
0.6	0.8	71	2755	75.0		80	1405	71.5		80	915	68.0		90L	695	70.0	
0.8	1.0	80	2805	78.0		80	1405	76.5		90S	940	74.0		100L	700	68.0	
1.1	1.5	80	2810	80.5		90S	1415	74.5		90L	940	75.0		100L	690	74.5	
1.5	2.0	90S	2825	81.0		90L	1400	77.0		100L	930	75.0		112M	705	75.5	
2.2	3.0	90L	2840	83.5		100L	1425	81.0		112M	950	81.0		132S	705	81.5	
3.0	4.0	100L	2865	85.0		100L	1435	83.5		132S	955	85.0		132M	715	82.5	
3.7	5.0	112M	2870	85.5		112M	1445	84.5		132M	955	83.0		160M	720	84.0	
4.0	5.5	112M	2870	86.0		112M	1445	86.0		132M	950	85.0		160M	720	84.5	
5.5	7.5	132S	2905	87.0		132S	1445	86.0		132M	960	87.5		160M	720	85.5	
7.5	10.0	132S	2880	88.0		132M	1450	88.5		160M	975	88.0		160L	720	86.0	
11.0	15.0	160M	2940	89.0		160M	1455	89.5		160L	970	89.0		180LC	730	89.0	
15.0	20.0	160M	2925	90.5		160L	1460	90.5		180LC	970	90.0		200LC	730	89.5	
18.5	25.0	160L	2930	91.5		180MC	1450	91.0		200LC	970	91.0		225SC	730	90.0	
22.0	30.0	180MA	2930	92.0		180LC	1460	91.5		200LC	975	92.5		225MC	730	91.0	
30.0	40.0	200LA	2960	92.0		200LC	1470	92.5		225MC	980	91.5		250SC	730	90.5	
37.0	50.0	200LA	2950	92.5		225SC	1470	92.5		250SC	980	92.5		250MC	730	91.0	
45.0	60.0	225MA	2950	93.0		225MC	1470	92.5		250MC	980	92.5		280SC	725	92.0	
55.0	75.0	250SA	2960	92.0		250SC	1480	93.4		280SC	970	92.4		280MC	730	92.4	
75.0	100.0	250MA	2950	94.0		250MC	1480	94.5		280MC	975	93.0		315SC	730	93.0	

Notes:

- Motor weight is based on 415V/3Ø/50Hz induction type TEFC foot-mounted motor.
- Motor is suitable for direct on-line / reduced voltage starting mechanism (except STAR-DELTA).
- Motors 3hp and smaller are STAR connected and motor 4hp and larger are DELTA connected.
- Standard motor shall be as per IEC standard IP55 enclosure with TEFC Class F insulation and B temperature rise complying with BS2757.
- Maximum ambient temperature 40°C.
- For derivation of motor kW from fan BkW use.
- Motor kW = Fan BkW x A, where A = 1.20 if BkW < 10kW
A = 1.15 if BkW > 10kW
- Please refer to your nearest Carrier representatives for special motor voltages or application.



MOTOR DATA

MAXIMUM HP AND MOUNTING POSITION

Access Plenum	Fan Model	Motor Frame Size	Height A (mm)	Length L (mm)	Fan Section Length
1,400	BNB1400D	D180-D200 D225-D280	1,900	1,740	26
300	ANA/BNA 315D	D71-D80 D90-D100 D112	1,900 450	2,032 539 611 628	7 8 8
400	ANA/BNA 355D	D71-D90 D100-D112 D132	490	603 652 732	8 9 10
400	ANA/BNA 400D	D90-D112 D132-D160	530	759 889	10 11
500	ANA/BNA 450D	D90-D112 D132-D160	580	713 923	9 12
500	ANA/BNA 500D	D90-D112 D132-D160	630	760 970	10 12
600	ANA/BNA 560D	D90-D112 D132-D160 D180	700	798 1,008 1,066	10 13 13
700	ANA/BNA 630D	D100-D132 D160-D180	790	928 1,116	12 14
700	ANA/BNA 710D	D100-D132 D160-D180 D200	890	1,176 974 1,162 1,222	15 12 14 15
800	ANA/BNA 800D	D160-D200 D225	1,000	1,276 1,317	16 16
900	ANA/BNA 900D	D132-D180 D200-D225	1,120	1,278 1,379	16 17
1,000	ANA/BNA 1000D	D160-D200 D225-D250	1,240	1,406 1,527	17 19
1,100	ANA/BNA 1120D	D160-D200 D225-D250	1,390	1,502 1,623	18 20
1,200	ANA/BNA 1250D	D180-D200 D225-D280	1,550	1,571 1,863	19 22
1,400	ANA/BNA 1400D	D180-D200 D225-D280	1,700	1,702 1,994	20 24

Access Plenum	Fan Model	Motor Frame Size	Height A (mm)	Length L (mm)	Fan Section Length
500	RLM56-9010	D160 D180 D200 D225	1,230	1,121 1,196 1,252 1,290	16 16 16 16
600	RLM56-1011	D180 D200 D225 D250 D280	1,360	1,266 1,321 1,360 1,453 1,530	18 18 18 18 19
700	RLM55-1112	D200 D225 D250 D280	1,520	1,462 1,488 1,576 1,608	20 20 20 20
700	RLM55-1214	D250 D71-D90 D100-D112	1,700	1,654 586 635	23 8 8
400	BNB355D	D80-D100 D112-D132	530	643 740	8 10
400	BNB400D	D90-D112 D132-D160	580	693 903	9 12
500	BNB450D	D90-D112 D132-D160	630	743 953	10 12
500	BNB500D	D90-D112 D132-D160	700	784 994	10 13
600	BNB560D	D100-D132 D160-D180	790	900 1,088	11 14
700	BNB630D	D100-D132 D160-D180	890	945 1,133	13 14
700	BNB710D	D112-D132 D160-D200	1,000	1,008 1,256	14 16
800	BNB800D	D132-D180 D200-D225	1,120	1,248 1,349	15 17
900	BNB900D	D160-D200 D225-D250	1,240	1,375 1,496	17 18
1,000	BNB1000D	D160-D200 D225-D250	1,390	1,462 1,583	19 19
1,100	BNB1120D	D180-D200 D225-D280	1,550	1,560 1,852	21 22
1,200	BNB1250D	D180-D200 D225-D280	1,700	1,650 1,942	23 23

Access Plenum	Fan Model	Motor Frame Size	Height A (mm)	Length L (mm)	Fan Section Length
200	RLM56-2528	D71 D80 D90 D100 D112	390	486 514 551 584	6 7 7 8
200	RLM56-2831	D80 D90 D100 D112	430	534 571 604 606	7 7 8 8
200	RLM56-3135	D80 D90 D100 D112	470	554 591 624 643	7 8 8 8
200	RLM56-3540	D80 D90 D100 D112	514	694 621 654 656	8 8 8 8
300	RLM56-4045	D90 D100 D132	582	723 646 679	9 8 8
300	RLM56-4550	D90 D100 D112 D132 D160	645	748 673 706 708 775	9 9 9 9 10
300	RLM56-5056	D90 D100 D132 D160	715	833 716 718 785	11 10 10 10
400	RLM56-5663	D112 D132 D160	790	880 759 826	11 11 11
400	RLM56-6371	D132 D160 D180	875	921 869 964	12 12 12
400	RLM56-7180	D132 D160 D180	975	993 914 1,009	12 13 13
500	RLM56-8090	D160 D180 D200	1,095	1,084 1,063 1,138 1,194	13 15 15 15



FAN DATA

AHU Model Name	Nicotra Fan Size (single)		Kruger Fan Size (single)	
	DIDW	AC Plug Fan	DIDW	AC Plug Fan
39CCM0608	160, 180	N/A	160, 180	N/A
39CCM0609	180, 200	N/A	180, 200	N/A
39CCM0610	180, 200	N/A	180, 200	N/A
39CCM0711	200, 225	2528, 2831	200, 225	N/A
39CCM0712	225, 250	2528, 2831	225, 250	N/A
39CCM0811	225, 250, 280, 315	2528, 2831, 3135, 3540	225, 250, 280, 315	315, 355
39CCM0813	280, 315	2831, 3135, 3540	280, 315	315, 355
39CCM0912	250, 280, 315	2831, 3135, 3540, 4045	250, 280, 315	315, 355, 400
39CCM0913	280, 315, 355	2831, 3135, 3540, 4045	280, 315, 355	315, 355, 400
39CCM0914	315, 355	2831, 3135, 3540, 4045	315, 355	315, 355, 400
39CCM1015	355, 400	3135, 3540, 4045, 4550	355, 400	315, 355, 400, 450
39CCM1016	355, 400	3135, 3540, 4045, 4550	355, 400	355, 400, 450
39CCM1117	400, 450	3540, 4045, 4550, 5056	400, 450	355, 400, 450, 500
39CCM1317	400, 450, 500, 560	4550, 5056, 5663, 6371	400, 450, 500, 560	450, 500, 560, 630
39CCM1318	450, 500	4550, 5056, 5663, 6371	450, 500	450, 500, 560, 630
39CCM1320	450, 500	4550, 5056, 5663, 6371	450, 500	450, 500, 560, 630
39CCM1322	450, 500	4550, 5056, 5663, 6371	450, 500	450, 500, 560, 630
39CCM1418	450, 500, 560	5056, 5663, 6371, 7180	450, 500, 560	450, 500, 560, 630
39CCM1419	450, 500, 560	5056, 5663, 6371, 7180	450, 500, 560	450, 500, 560, 630
39CCM1420	500, 560, 630	5056, 5663, 6371, 7180	500, 560, 630	450, 500, 560, 630
39CCM1421	500, 560	5056, 5663, 6371, 7180	500, 560	450, 500, 560, 630
39CCM1422	500, 560	5056, 5663, 6371, 7180	500, 560	450, 500, 560, 630
39CCM1518	450, 500, 560, 630	5663, 6371, 7180, 8090	450, 500, 560, 630	500, 560, 630, 710
39CCM1519	500, 560, 630	5663, 6371, 7180, 8090	500, 560, 630	500, 560, 630, 710

AHU Model Name	Nicotra Fan Size (single)		Kruger Fan Size (single)	
	DIDW	AC Plug Fan	DIDW	AC Plug Fan
39CCM1522	560, 630	5663, 6371, 7180, 8090	560, 630	500, 560, 630, 710
39CCM1522	500, 560, 630	5663, 6371, 7180, 8090	500, 560, 630	500, 560, 630, 710
39CCM1524	560, 630	5663, 6371, 7180, 8090	560, 630	500, 560, 630, 710
39CCM1525	560, 630	5663, 6371, 7180, 8090	560, 630	500, 560, 630, 710
39CCM1619	500, 560	5663, 6371, 7180, 8090	500, 560	560, 630, 710, 800
39CCM1621	560, 630, 710	5663, 6371, 7180, 8090	560, 630, 710	560, 630, 710, 800
39CCM1622	560, 630, 710	5663, 6371, 7180, 8090	560, 630, 710	560, 630, 710, 800
39CCM1821	560, 630, 710	5663, 6371, 7180, 8090	560, 630, 710	560, 630, 710, 800
39CCM1822	560, 630, 710	5663, 6371, 7180, 8090	560, 630, 710	560, 630, 710, 800
39CCM1719	560, 630	6371, 7180, 8090, 9010	560, 630	560, 630, 710, 800
39CCM1819	560, 630, 710	6371, 7180, 8090, 9010	560, 630, 710	630, 710, 800, 900
39CCM1822	560, 630, 710, 800	6371, 7180, 8090, 9010	560, 630, 710, 800	630, 710, 800, 900
39CCM1824	630, 710, 800	6371, 7180, 8090, 9010	630, 710, 800	630, 710, 800, 900
39CCM1825	630, 710, 800	6371, 7180, 8090, 9010	630, 710, 800	630, 710, 800, 900
39CCM2025	630, 710, 800	7180, 8090, 9010, 1011	630, 710, 800	710, 800, 900, 1000
39CCM2125	710, 800, 900	8090, 9010, 1011	710, 800, 900	710, 800, 900, 1000
39CCM2226	710, 800, 900	8090, 9010, 1011	710, 800, 900	710, 800, 900, 1000
39CCM2230	800, 900, 1000	8090, 9010, 1011	800, 900, 1000	710, 800, 900, 1000
39CCM2234	800, 900, 1000	8090, 9010, 1011	800, 900, 1000	710, 800, 900, 1000
39CCM2330	800, 900, 1000	9010, 1011	800, 900, 1000	800, 900, 1000, 1120
39CCM2334	800, 900, 1000	9010, 1011	800, 900, 1000	800, 900, 1000, 1120
39CCM2434	900, 1000	9010, 1011	900, 1000	800, 900, 1000, 1120
39CCM2634	900, 1000	9010, 1011	900, 1000	900, 1000, 1120, 1250
39CCM2636	900, 1000	9010, 1011	900, 1000	900, 1000, 1120, 1250

PLENUM/ PLUG FAN

Access Plenum	Fan Model	Motor Frame Size	Height A (mm)	Length L (mm)	Fan Section Length
1,400	BNB1400D	D180-D200	1,900	1,740	26
		D225-D280	1,900	2,032	26
300	ANA/BNA 315D	D71-D80	450	539	7
		D90-D100	450	611	8
		D112	450	628	8
400	ANA/BNA 355D	D71-D90	490	603	8
		D100-D112	490	652	9
		D132	490	732	10
400	ANA/BNA 400D	D90-D112	530	759	10
		D132-D160	530	889	11
500	ANA/BNA 450D	D90-D112	580	713	9
		D132-D160	580	923	12
500	ANA/BNA 500D	D90-D112	630	760	10
		D132-D160	630	970	12
600	ANA/BNA 560D	D90-D112	700	798	10
		D132-D160	700	1,008	13
		D180	700	1,066	13
700	ANA/BNA 630D	D100-D132	790	928	12
		D160-D180	790	1,116	14
		D200	790	1,176	15
700	ANA/BNA 710D	D100-D132	890	974	12
		D160-D180	890	1,162	14
		D225	890	1,222	15
800	ANA/BNA 800D	D160-D200	1,000	1,276	16
		D225	1,000	1,317	16
900	ANA/BNA 900D	D132-D180	1,120	1,278	16
		D200-D225	1,120	1,379	17
1,000	ANA/BNA 1000D	D160-D200	1,240	1,406	17
		D225-D250	1,240	1,527	19
1,100	ANA/BNA 1120D	D160-D200	1,390	1,502	18
		D225-D250	1,390	1,623	20
1,200	ANA/BNA 1250D	D180-D200	1,550	1,571	19
		D225-D280	1,550	1,863	22
1,400	ANA/BNA 1400D	D180-D200	1,700	1,702	20
		D225-D280	1,700	1,994	24



Access Plenum	Fan Model	Motor Frame Size	Height A (mm)	Length L (mm)	Fan Section Length
500	RLM56-9010	D160	1,230	1,121	16
		D180	1,230	1,196	16
		D200	1,230	1,252	16
		D225	1,230	1,290	16
600	RLM56-1011	D180	1,360	1,266	18
		D200	1,360	1,321	18
		D225	1,360	1,360	18
		D250	1,360	1,453	18
700	RLM55-1112	D280	1,520	1,530	19
		D200	1,520	1,462	20
		D225	1,520	1,488	20
		D250	1,520	1,576	20
700	RLM55-1214	D250	1,700	1,608	20
		D250	1,700	1,654	23
		D250	1,700	1,736	23
300	BNB315D	D71-D90	490	586	8
		D100-D112	490	635	8
400	BNB355D	D80-D100	530	643	8
		D112-D132	530	740	10
400	BNB400D	D90-D112	580	693	9
		D132-D160	580	903	12
500	BNB450D	D90-D112	630	743	10
		D132-D160	630	953	12
500	BNB500D	D90-D112	700	784	10
		D132-D160	700	994	13
600	BNB560D	D100-D132	790	900	11
		D160-D180	790	1,088	14
700	BNB630D	D100-D132	890	945	13
		D160-D180	890	1,133	14
700	BNB710D	D112-D132	1,000	1,008	14
		D160-D200	1,000	1,256	16
800	BNB800D	D132-D180	1,120	1,248	15
		D200-D225	1,120	1,349	17
900	BNB900D	D160-D200	1,240	1,375	17
		D225-D250	1,240	1,496	18
1,000	BNB1000D	D160-D200	1,390	1,462	19
		D225-D250	1,390	1,583	19
1,100	BNB1120D	D180-D200	1,550	1,560	21
		D225-D280	1,550	1,852	22
1,200	BNB1250D	D180-D200	1,700	1,650	23
		D225-D280	1,700	1,942	23

Access Plenum	Fan Model	Motor Frame Size	Height A (mm)	Length L (mm)	Fan Section Length
200	RLM56-2528	D71	390	486	6
		D80	390	514	7
		D90	390	551	7
		D100	390	584	8
200	RLM56-2831	D80	430	534	7
		D90	430	571	7
		D100	430	604	8
		D112	430	606	8
200	RLM56-3135	D80	470	554	7
		D90	470	591	8
		D100	470	624	8
		D112	470	643	8
200	RLM56-3540	D80	514	694	8
		D90	514	621	8
		D100	514	654	8
		D112	514	656	8
300	RLM56-4045	D132	582	723	9
		D90	582	646	8
		D100	582	679	8
		D132	582	748	9
300	RLM56-4550	D90	645	673	9
		D100	645	706	9
		D112	645	708	9
		D132	645	775	10
300	RLM56-5056	D160	715	833	11
		D100	715	716	10
		D112	715	718	10
		D132	715	785	10
400	RLM56-5663	D132	790	880	11
		D112	790	759	11
		D160	790	826	11
		D100	790	921	12
400	RLM56-6371	D132	875	869	12
		D160	875	964	12
		D180	875	993	12
400	RLM56-7180	D132	975	914	13
		D160	975	1,009	13
		D180	975	1,084	13
500	RLM56-8090	D160	1,095	1,063	15
		D180	1,095	1,138	15
		D200	1,095	1,194	15



HEAT WHEEL QUICK SELECTION

AHU Size	AHU Size (Top)	Section Length	Heatwheel Model
39CQM0608	39CQM0608	4	ECW244
39CQM0609	39CQM0609	4	ECW244
39CQM0610	39CQM0610	6	HRW700
39CQM0711	39CQM0711	4	HRW900/ECW324
39CQM0712	39CQM0712	4	HRW1000/ECW364
39CQM0811	39CQM0811	6	HRW900
39CQM0813	39CQM0813	4	HRW1100/ECW424
39CQM0912	39CQM0912	4	HRW1000/ECW364
39CQM0913	39CQM0913	6	HRW1100/ECW424
39CQM0914	39CQM0914	4	HRW1200/ECW424
39CQM1015	39CQM1015	6	HRW1300/ECW484
39CQM1016	39CQM1016	5	ECW486
39CQM1117	39CQM1117	5	HRW1400/ECM544
39CQM1317	39CQM1317	6	HRW1500/ECM544
39CQM1318	39CQM1318	6	HRW1500
39CQM1320	39CQM1320	5	HRW1600/ECW604
39CQM1322	39CQM1322	6	HRW1800/ECW664
39CQM1418	39CQM1318	5	HRW2000/ECW784
39CQM1420	39CQM1418	5	HRW1600/ECM604
39CQM1421	39CQM1320	5	HRW1800/ECW664
39CQM1422	39CQM1420	6	HRW1900/ECW724
39CQM1518	39CQM1322	5	HRW2000/ECW784
	39CQM1422	6	
	39CQM1318	5	
	39CQM1418	5	
	39CQM1518	6	

AHU Size	AHU Size (Top)	Section Length	Heatwheel Model
39CQM1521	39CQM1421	5	HRW1900/ECW724
39CQM1522	39CQM1521	6	
39CQM1524	39CQM1322	6	HRW2000/ECW786
39CQM1525	39CQM1422	6	
	39CQM1522	6	
	39CQM1524	5	HRW2000/ECW844
	39CQM1525	6	
	39CQM1421	7	HRW2200/ECW906
39CQM1621	39CQM1521	5	
39CQM1622	39CQM1521	6	HRW1900/ECW726
39CQM1624	39CQM1621	5	
39CQM1625	39CQM1422	6	
	39CQM1522	6	HRW2000/ECW786
	39CQM1622	6	
	39CQM1524	6	HRW2000/ECW846
	39CQM1624	6	
	39CQM1525	6	HRW2200/ECW906
39CQM1822	39CQM1625	6	
39CQM1824	39CQM1422	7	
	39CQM1522	6	HRW2000/ECW786
	39CQM1622	6	
	39CQM1822	6	
	39CQM1524	6	ECW846
	39CQM1624	6	
	39CQM1824	6	
39CQM1825	39CQM1525	6	
	39CQM1625	7	
	39CQM1825	6	HRW2200/ECW906
39CQM2025	39CQM1525	6	
	39CQM1625	7	
	39CQM1825	6	HRW2200/ECW906



Note: Please refer to the nearest Carrier Representative for more details.

ELECTRICAL HEATER



Model Name	Total No of Stage	Max kW per Stage	Max kW for Section
39CQM0608	2	5.7	11.4
39CQM0609	2	6.8	13.5
39CQM0610	2	8.4	16.8
39CQM0711	2	9.0	18.0
39CQM0712	2	10.2	20.4
39CQM0811	3	9.0	27.0
39CQM0813	3	11.3	33.8
39CQM0912	3	10.2	30.6
39CQM0913	3	11.3	33.8
39CQM0914	3	12.3	36.9
39CQM1015	4	13.5	54.0
39CQM1016	4	14.7	58.8
39CQM1117	4	15.6	62.4
39CQM1317	5	15.6	78.0
39CQM1318	5	19.5	97.5
39CQM1320	5	19.5	97.5
39CQM1322	5	19.5	97.5
39CQM1418	6	16.8	100.8
39CQM1419	6	19.5	117.0
39CQM1420	6	19.5	117.0
39CQM1421	6	19.5	117.0
39CQM1422	6	19.5	117.0
39CQM1518	6	16.8	100.8
39CQM1519	6	16.8	100.8

Model Name	Total No of Stage	Max kW per Stage	Max kW for Section
39CQM1521	6	19.5	117.0
39CQM1522	6	19.5	117.0
39CQM1524	6	19.5	117.0
39CQM1525	6	19.5	117.0
39CQM1619	7	19.5	136.5
39CQM1621	7	19.5	136.5
39CQM1622	7	19.5	136.5
39CQM1624	7	19.5	136.5
39CQM1625	7	19.5	136.5
39CQM1719	7	19.5	136.5
39CQM1819	8	19.5	156.0
39CQM1822	8	19.5	156.0
39CQM1824	8	19.5	156.0
39CQM1825	8	19.5	156.0
39CQM2025	9	19.5	175.5
39CQM2125	9	19.5	175.5
39CQM2226	10	19.5	195.0
39CQM2230	10	19.5	195.0
39CQM2234	10	19.5	195.0
39CQM2330	11	19.5	214.5
39CQM2334	11	19.5	214.5
39CQM2434	11	19.5	214.5
39CQM2634	12	19.5	234.0
39CQM2636	12	19.5	234.0

FILTER TYPE, DIMENSION QUANTITY



TYPE	DIMENSION (mm)	PART NO.	39CQM Unit Size																							
			0608	0609	0610	0711	0712	0811	0813	0912	0913	0914	1015	1016	1117	1317	1318	1320	1322	1418	1419	1420	1421	1422	1518	1519
HEPA Filter EU13P/brd	H289 X W595	3GA509-904	-	-	-	2	3	2	-	-	-	-	2	3	-	2	2	-	2	-	-	-	-	2	-	-
	H391 X W495	3GA509-943	-	2	2	-	-	-	-	2	2	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-944	1	-	-	1	-	1	-	2	2	4	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	3GA509-902	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6
HEPA Filter EU13P/Alum	H289 X W595	3GA509-920	-	-	-	2	3	2	-	-	-	-	2	3	-	2	2	-	2	-	-	-	-	2	-	-
	H391 X W495	3GA509-951	-	2	2	-	-	-	-	2	2	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-952	1	-	-	1	-	1	-	2	2	4	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	3GA509-918	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6
HEPA Filter EU14P/brd	H289 X W595	3GA509-925	-	-	-	2	3	2	-	-	-	-	2	3	-	2	2	-	2	-	-	-	-	2	-	-
	H391 X W495	3GA509-953	-	2	2	-	-	-	-	2	2	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-954	1	-	-	1	-	1	-	2	2	4	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	3GA509-923	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6
HEPA Filter EU14P/Alum	H289 X W595	3GA509-941	-	-	-	2	3	2	-	-	-	-	2	3	-	2	2	-	2	-	-	-	-	2	-	-
	H391 X W495	3GA509-961	-	2	2	-	-	-	-	2	2	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-962	1	-	-	1	-	1	-	2	2	4	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	3GA509-939	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6
1" Bag Filter EU5	H289 X W595	39GA509-373	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W495	39GA509-375	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-376	1	-	-	-	-	-	-	2	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-630	-	2	2	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-631	-	-	-	2	3	2	-	-	-	-	-	1	-	2	2	-	2	-	-	-	-	2	-	-
	H595 X W391	39GA509-632	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	39GA509-378	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6
1" Bag Filter EU6	H289 X W595	39GA509-230	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W495	39GA509-232	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-233	1	-	-	-	-	-	-	2	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-621	-	2	2	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-622	-	-	-	2	3	2	-	-	-	-	-	1	-	2	2	-	2	-	-	-	-	2	-	-
	H595 X W391	39GA509-623	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	10	-	2	-	
H595 X W595	39GA509-235	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6	
1" Bag Filter EU7	H289 X W595	39GA509-208	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W495	39GA509-210	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-211	1	-	-	-	-	-	-	2	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-618	-	2	2	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-619	-	-	-	2	3	2	-	-	-	-	-	1	-	2	2	-	2	-	-	-	-	2	-	-
	H595 X W391	39GA509-620	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	39GA509-213	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6
1" Bag Filter EU8	H289 X W595	39GA509-240	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W495	39GA509-242	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-243	1	-	-	-	-	-	-	2	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-264	-	2	2	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-625	-	-	-	2	3	2	-	-	-	-	-	1	-	2	2	-	2	-	-	-	-	2	-	-
	H595 X W391	39GA509-626	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	39GA509-245	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6
1" Bag Filter EU9	H289 X W595	39GA509-270	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W495	39GA509-615	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-271	1	-	-	-	-	-	-	2	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-627	-	2	2	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-628	-	-	-	2	3	2	-	-	-	-	-	1	-	2	2	-	2	-	-	-	-	2	-	-
	H595 X W391	39GA509-629	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	39GA509-272	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6
2" HVF Filter G03	H289 X W595	39GA509-038	-	-	-	2	3	2	-	-	-	-	2	3	-	2	2	-	2	-	-	-	-	2	-	-
	H391 X W495	39GA509-040	-	2	2	-	-	-	-	2	2	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-041	1	-	-	1	-	1	-	2	2	4	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	39GA509-043	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6
2" HVF Filter G04	H289 X W595	39GA509-026	-	-	-	2	3	2	-	-	-	-	2	3	-	2	2	-	2	-	-	-	-	2	-	-
	H391 X W495	39GA509-028	-	2	2	-	-	-	-	2	2	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-029	1	-	-	1	-	1	-	2	2	4	-	-	-	-	-	-	2	-	-	10	-	2	-	
	H595 X W595	39GA509-031	-	-	-	-	-	-	2	-	-	-	2	2	-	4	4	6	6	4	6	6	-	6	4	6

FILTER TYPE, DIMENSION QUANTITY



TYPE	DIMENSION (mm)	PART NO.	39CQM Unit Size																							
			1521	1522	1524	1525	1619	1621	1622	1624	1625	1719	1819	1822	1824	1825	2025	2125	2226	2230	2234	2330	2334	2434	2634	2636
HEPA Filter EU13P/brd	H289 X W595	3GA509-904	-	2	2	-	3	3	5	5	4	-	-	2	2	4	-	-	4	4	8	7	8	8	4	4
	H391 X W495	3GA509-943	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-944	10	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	3GA509-902	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20
HEPA Filter EU13P/Alum	H289 X W595	3GA509-920	-	2	2	-	3	3	5	5	4	-	-	2	2	4	-	-	4	4	8	7	8	8	4	4
	H391 X W495	3GA509-951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-952	10	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	3GA509-918	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20
HEPA Filter EU14P/brd	H289 X W595	3GA509-925	-	2	2	-	3	3	5	5	4	-	-	2	2	4	-	-	4	4	8	7	8	8	4	4
	H391 X W495	3GA509-953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-954	10	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	3GA509-923	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20
HEPA Filter EU14P/Alum	H289 X W595	3GA509-941	-	2	2	-	3	3	5	5	4	-	-	2	2	4	-	-	4	4	8	7	8	8	4	4
	H391 X W495	3GA509-961	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	3GA509-962	10	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	3GA509-939	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20
1" Bag Filter EU5	H289 X W595	39GA509-373	-	-	-	-	3	3	3	3	4	-	-	-	-	4	-	-	4	4	5	4	5	5	-	-
	H391 X W495	39GA509-375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-376	-	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-631	-	2	2	-	-	-	2	2	-	-	-	2	2	-	-	-	-	-	3	3	3	3	4	4
	H595 X W391	39GA509-632	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	39GA509-378	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20
1" Bag Filter EU6	H289 X W595	39GA509-230	-	-	-	-	3	3	3	3	4	-	-	-	-	4	-	-	4	4	5	4	5	5	-	-
	H391 X W495	39GA509-232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-233	-	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-622	-	2	2	-	-	-	2	2	-	-	-	2	2	-	-	-	-	-	3	3	3	3	4	4
	H595 X W391	39GA509-623	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
H595 X W595	39GA509-235	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20	
1" Bag Filter EU7	H289 X W595	39GA509-208	-	-	-	-	3	3	3	3	4	-	-	-	-	4	-	-	4	4	5	4	5	5	-	-
	H391 X W495	39GA509-210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-211	-	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-618	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-619	-	2	2	-	-	-	2	2	-	-	-	2	2	-	-	-	-	-	3	3	3	3	4	4
	H595 X W391	39GA509-620	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	39GA509-213	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20
1" Bag Filter EU8	H289 X W595	39GA509-240	-	-	-	-	3	3	3	3	4	-	-	-	-	4	-	-	4	4	5	4	5	5	-	-
	H391 X W495	39GA509-242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-243	-	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-625	-	2	2	-	-	-	2	2	-	-	-	2	2	-	-	-	-	-	3	3	3	3	4	4
	H595 X W391	39GA509-626	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	39GA509-245	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20
1" Bag Filter EU9	H289 X W595	39GA509-270	-	-	-	-	3	3	3	3	4	-	-	-	-	4	-	-	4	4	5	4	5	8	-	-
	H391 X W495	39GA509-615	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-271	-	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-
	H495 X W391	39GA509-627	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H595 X W289	39GA509-628	-	2	2	-	-	-	2	2	-	-	-	2	2	-	-	-	-	-	3	3	3	3	4	4
	H595 X W391	39GA509-629	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	39GA509-272	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20
2" HVF Filter G03	H289 X W595	39GA509-038	-	2	2	-	3	3	5	5	4	-	-	2	2	4	-	-	4	4	8	7	8	8	4	4
	H391 X W495	39GA509-040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-041	10	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	39GA509-043	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20
2" HVF Filter G04	H289 X W595	39GA509-026	-	2	2	-	3	3	5	5	4	-	-	2	2	4	-	-	4	4	8	7	8	8	4	4
	H391 X W495	39GA509-028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H391 X W595	39GA509-029	10	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-	-	3	-	-	-	-	-	-
	H595 X W595	39GA509-031	-	6	6	8	6	6	6	6	8	6	6	6	6	8	12	12	12	12	15	12	15	15	20	20

GENERAL

1. Furnish and install central air handling units of the type, size and capacity shown on the equipment schedule.
2. The design of the air handling unit is based on the use of modular panels and extruded aluminum perimeter frames with composite corner piece (based on Carrier 39CQM series).
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
 - Heater 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 39CQM unit sections shall be supplied with 10-gage G60 galvanized (100mm height) steel structural unit baseframe (optional 125mm c-channel baseframe is available if required). Lifting holes are provided for rigging purposes and are positioned to suit optimum hoisting stability.
3. The casing panels shall be solid double wall of 50mm 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 as standard. The panel coating shall meet ASTM B117 Standard for 500-hour salt spray test.
4. The casing panels shall be insulated with injected cast-in-situ 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 Box section shall be solid double wall, insulated casing (as mentioned in clause 3) and complete with necessary dampers for return and fresh air mixing. Accessibility options shall be with hinged access door on hand side or hinged access doors on both sides.
 - 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 casing (as mentioned in clause 3) and complete with necessary tracks or filters installation. Accessibility options shall be with hinged access door on hand side or hinged access doors on both sides.
 - a) Pressure gages (or pressure switches) shall be available as a factory-installed option.
 - b) Filter sections shall be designed and constructed to contain 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

CASING (cont'd)

9. Coil section shall have solid double wall, insulated casing (as mentioned in clause 3) and complete with necessary fittings for coil installation. Accessibility options shall be with hinged access door (applicable for vertical AHU) or removable access doors (applicable for Heatpipe option).
10. Access and Plenum section shall have solid double wall and insulated casing (as mentioned in clause 3). Accessibility options shall be hinged access door on hand side or hinged access doors on both sides.
 - 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.
11. Heater section shall have solid double wall, insulated casing (as mentioned in clause 3) and complete with necessary fittings for heater installation. Accessibility option shall be with removable access door on the hand side.
12. Heat Recovery Wheel (HRW) section shall have solid double wall, insulated casing (as mentioned in clause 3) and complete with necessary fittings for HRW installation. Accessibility option shall be with removable access door on the hand side.
13. Fan section have solid double wall double, insulated casing (as mentioned in clause 3) and complete with necessary base for fan/motor installation. Accessibility options shall be with hinged access door on hand side or hinged access doors on both sides.
 - 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.
 - 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.
 - d) The fan discharge shall be square in area and isolated from the casing by flexible canvas connection.

FANS**A. General**

1. Forward-curved fans shall have double width double inlet (DWDI) fan impeller and scroll. They shall be constructed of galvanized steel and 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 double width double inlet (DWDI) fan impeller and scroll. The fan assembly shall be cleaned, primed and painted with epoxy paint and 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 inlet (DWDI) airfoil fan impeller and scroll. The fan assembly shall be cleaned, primed and painted with epoxy paint and 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.
4. Plenum/Plug fan sections shall have one single width single inlet (SWSI) fan impeller 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. Plug fan shall be direct driven.
5. 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 speed.
6. Fan shafts shall be solid carbon steel, turned, ground, polished and coated with protective paint. Hollow shafts are not acceptable.
7. Recommended fan discharge outlet velocity is between 10~12 m/s.
8. For variable air volume control, variable frequency drive (VFD) shall be supplied as indicated on the equipment schedule.

FANS (cont'd)

B. Performance Ratings

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

C. Sound Ratings

Manufacturer shall publish first through eight octave sound power for fan inlet, fan discharge and airborne.

D. Mounting

Fan scroll, impeller, shaft, bearing, 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" helical spring deflector and flexible canvas connection.

E. Bearing

Fan bearings are with nominal 200,000hrs average life (L_{50}) as standard for all fans.

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 enclosure, totally enclosed fan cooled (TEFC) with class F insulation (optional with class H insulation) and class B temperature rise complying with BS2757.
4. Fan motors shall be standard efficiency (IE1) type. Optional high efficiency (IE2) or premium efficiency (IE3) motors shall be available, if specified. Motor efficiency class shall be based on IEC 60034-30:2008 Standard.
5. The motors 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. For operation $> 40^\circ\text{C}$ please check with factory representative.

DRIVES

1. The drive assembly shall consist of V-belts and a set of fan and motor pulleys adequately sized to meet the specified performance.
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.

DRIVES (cont'd)

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 as option. Drives shall be fixed pitch with variable pitch as an option. All drives shall be factory mounted with sheaves properly aligned and balanced.

COILS

A. General

1. All cooling, heating and refrigerant (DX) coils shall be provided to meet the scheduled performance.
2. All coil performances shall be rated in accordance with AHRI 410 Standard and shall be tested at 400 psig air pressure while submerged under water.
3. All coils shall have minimum 12.7mm (1/2-in.) OD seamless copper tubes mechanically expanded into fins to ensure high thermal performance. Optional is with 9.5mm (3/8") OD copper tubes (applicable for cooling coil only).
4. All coils shall be with aluminum fin with belled collars. Optional copper fins or fins with protective coatings shall be supplied, if specified. Protective coatings shall be post coated and sprayed type only.
5. All aluminum fin coils shall be supplied with galvanized casing and steel tube sheets. Optional stainless steel or aluminum tube sheet shall be supplied, if specified. Copper fin coils shall be supplied with stainless steel casing and tube sheets.
6. All water coils shall be with 1 – 8 rows and 8,10,12,14 fin per inch (fpi) whereas refrigerant coils shall be with 4 ,6 rows and 8,10,12,14 fin per inch (fpi).
7. Moisture eliminator shall be provided, if specified on the equipment schedule to trap moisture droplets. The moisture eliminator material shall be aluminum, mesh aluminum or PVC type as specified.

B. Cooling and Heating

1. Headers shall be constructed of seamless steel pipe material with threaded (MPT) connections. Headers shall have drain and vent connections accessible from the exterior of the unit. Optional copper 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 (chilled water/hot water flow against airflow direction).

C. Direct Expansion (DX)

1. Headers shall be constructed of seamless copper pipe material with brazed joints.
2. DX coil circuiting shall include dual distributors arrangement for all sizes (optional single distributor arrangement for 39CQM0608 – 39CQM0813). Brass nozzles and distributors are factory supplied to ensure uniform flow. Thermal expansion valves shall be provided if specified.
3. DX coils shall have full face active area with row-split intertwined circuits for equal loading (optional face-split if specified). Suction and thermal valve connection shall be on the same side.
4. DX coils shall be designed for counter flow arrangements (refrigerant flow against airflow direction).

COILS (cont'd)

D. Drain Pans

1. Drain pans shall be single wall, 1.5mm 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 drain 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 and design in accordance to ASHRAE Standard 62.
3. Drain pan shall have a side drainage design with MPT connection (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.

ELECTRICAL HEATERS

1. Electric heater capacity and steps shall be as indicated on the equipment schedule. See electrical table for details.
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 (if required) containing contactor, thermostat and circuit breaker. Heater control box shall be mounted on the designated hand side of the unit.

FILTER

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/ Minihelic filter gages (or filter switches) complete with necessary tubing to measure the pressure drop across the filters shall be provided if specified.

European Efficiency Guide	Filter Details	Media	Frame Material	MERV rating
G3	Panel - Primary Filter	Pleated type : Synthetic fibre	Galvanize Iron / Aluminium	MERV 5
G4	Panel - Primary Filter	Pleated type : Synthetic fibre	Beverage Board / Aluminium	MERV 7
F5 - F9	Bag - Secondary Filter	Pocket type : Synthetic fibre	Galvanize Iron / Aluminium	MERV 10 - 15
H13 - H14	HEPA	Water resistance fiberglass	Particle Board	-

Arrestance and Dust Spot Efficiency ratings are based on the ASHRAE 52 test method.

Minimum Efficiency Reporting Value (MERV) ratings are based on the ASHRAE 52 test method.

European Efficiency Classes are based on European Standards EN 779 and EN 1882.

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.

ACCESSORIES

A. Viewports

1. Viewports shall be available as factory installed option on access doors. The viewports shall be fabricated from round, double plane, clear and rigid polycarbonate with a minimum diameter of 200mm and installed with screws that do not come into direct contact with the internal surface of the air handling unit.
2. The viewport shall be gasketed on the internal and external surface with thermoplastic elastomer (TPE) gaskets to ensure air-tightness. The viewport shall be capable of withstanding unit operating pressures.

B. Marine Lamp

1. Marine lamps shall be available as factory installed option on the mixing box, empty and fan sections of the air handling unit. The construction shall be vapor tight and rated to IP44.
2. The marine lamps shall consist of a structural light fitting base with aluminum reflector receptacle and structural glass globe protected by wire mesh.
3. The marine lamps shall come fitted with a light bulb complete with factory installed wiring and terminated with an IP55 rated switch located external to the unit.

NOTE



NOTE



NOTE



NOTE





Carrier improves the world around us; Carrier improves people's lives; our products and services improve building performance; our culture of improvement will not allow us to rest when it comes to the environment.




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