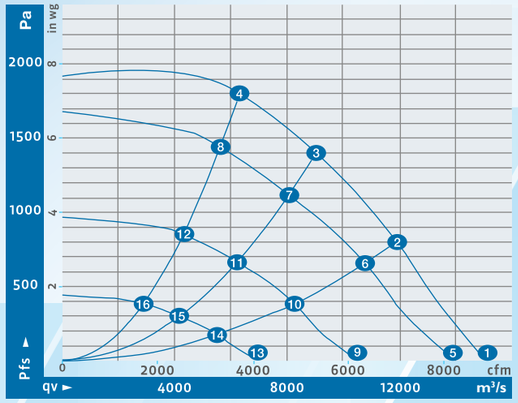
Selected EC Fan

K3G450PB2401

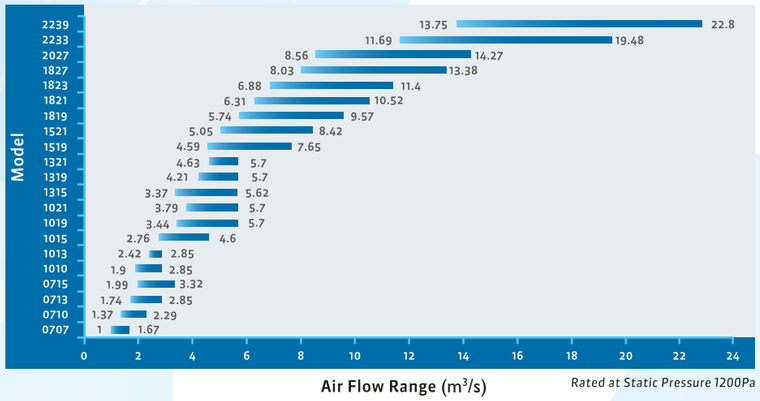


Curve: Air Performance 50 Hz

Air Flow Range

AHU Model	Fan QTY	Air Flow Range (m^3/s)	Rate Air Flow (m^3/s)	Input Power (W)		Watts/ CMH	
				@ 500 Pa	@ 1200 Pa	@ 500 Pa	@ 1200 Pa
0707	1	1.00 - 1.67	1.34	1064	2642	0.22	0.55
0710	1	1.37 - 2.29	1.83	1477	3326	0.22	0.50
0713	1	1.74 - 2.85	2.30	1933	4118	0.23	0.50
0715	2	1.99 - 3.32	2.66	2120	5264	0.22	0.55
1010	1	1.90 - 2.85	2.38	2036	4294	0.24	0.50
1013	1	2.42 - 2.85	2.64	2381	4811	0.25	0.51
1015	2	2.76 - 4.60	3.68	2970	6680	0.22	0.50
1019	2	3.44 - 5.70	4.57	3840	8192	0.23	0.50
1021	2	3.79 - 5.70	4.75	4068	8580	0.24	0.50
1315	2	3.37 - 5.62	4.50	3744	8034	0.23	0.50
1319	2	4.21 - 5.70	4.96	4342	9024	0.24	0.51
1321	2	4.63 - 5.70	5.17	4622	9422	0.25	0.51
1519	4	4.59 - 7.65	6.12	4940	11636	0.22	0.53
1521	4	5.05 - 8.42	6.74	5448	12464	0.22	0.51
1819	4	5.74 - 9.57	7.66	6192	13804	0.22	0.50
1821	4	6.31 - 10.52	8.42	6812	14980	0.22	0.49
1823	4	6.88 - 11.40	9.14	7680	16384	0.23	0.50
1827	6	8.03 - 13.38	10.71	8640	19554	0.22	0.51
2027	6	8.56 - 14.27	11.42	9228	20604	0.22	0.50
2233	8	11.69 - 19.48	15.59	12624	28016	0.23	0.50
2239	8	13.75 - 22.8	18.275	15352	32752	0.233	0.498

AHU Specifications



Rated at Static Pressure 1200Pa

Nominal Data

Phase		3~
Nominal Voltage	VAC	400
Nominal Voltage Range	VAC	380 .. 480
Frequency	Hz	50/60
Method of Obtaining Data		ml
Speed	min^{-1}	2600
Power Consumption	W	5250
Current Draw	A	8
Min. Ambient Temperature	°C	-25
Max. Ambient Temperature	°C	40

CONTROL BASIC

- EC Fan - Build in controller with Modbus integrated
- Able to couple with differential pressure controller only to achieve constant air volume control. The system is self-adjusting to adapt to interference factors like filter pollution

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Specifications, designs and other content appearing in this brochure are current as of Aug 2016 but subject to change without notice.

DAIKIN

DSPAHU1-0801



DM AHU with EC Fan



EC FAN

ELECTRONICALLY COMMUTATED FAN

Basic AHU Information

- AHU Modular Concept Design
- Model Range - DM1 (1”), DM2 (2”) and DM2TB (2”)
- Standard Model Range : AHU Model 0707 – 2239
- Air Volume Range : 1 to 22 m^3/s
- Total Static Pressure Up to 1800 Pa

TECHNOLOGY FEATURES

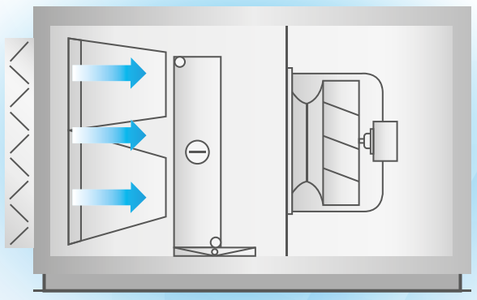
- Unrivalled Compactness
- High Efficiency
- Robust Design
- Economical Operation
- Low Noise Emissions
- Low Vibration Level
- Long Service Life
- Reliable Operation

SAVINGS

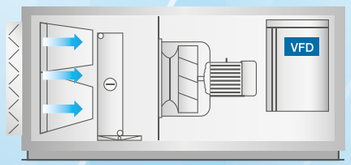
- Save on Space – Smaller AHU Size
- Save on Components - Inverter, Sine Filter, Premium Motor, Shielded Cable, Motor Protection
- Save on Cost - Installation & Maintenance Cost

MARKET FAN MOTOR SOLUTIONS

EC FAN (Our Solution)



Fan + Motor + VFD (Conventional Fan Solution)



Why EC Fan?



- **Save on Installation Cost**
- **Save on Space**
- **Save on Components**
  - No Inverter
  - No Sine Filter
  - No Premium Motor
  - No Shielded Cable
  - No Motor Protection

BENEFITS

OF USING DAIKIN EC SOLUTION



FAN ARRAY



2-Fan Array Arrangement

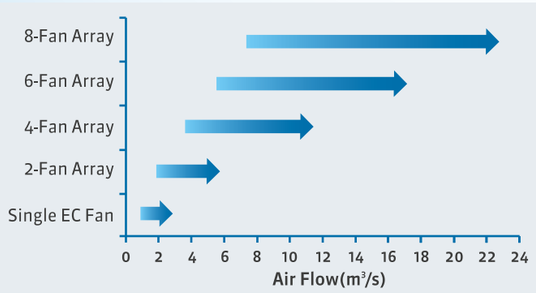
4-Fan Array Arrangement

More Fan Array Arrangements

8-Fan Array Arrangement

6-Fan Array Arrangement

Specifications



Rated at Static Pressure 1200Pa

Fan Array Air Flow Range

	Air Flow Range (m^3/s)
Single EC Fan	0.93 - 2.85
2-Fan Array	1.86 - 5.7
4-Fan Array	3.72 - 11.4
6-Fan Array	5.58 - 17.1
8-Fan Array	7.44 - 22.8