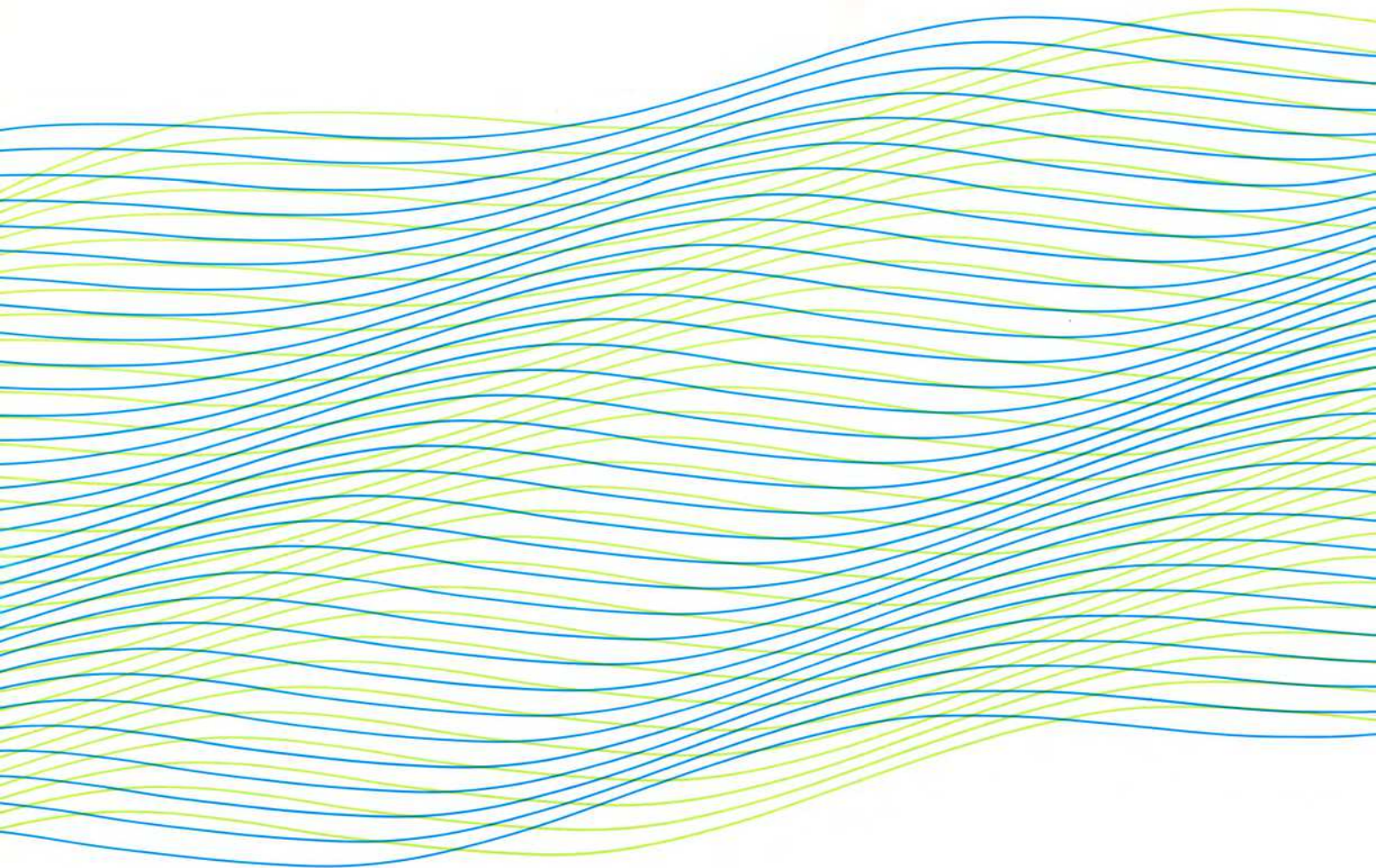




EBARA

GENERAL-PURPOSE FANS –50Hz–

CN0001VR



Introduction

EBARA Corporation was founded in 1912 when Issey Hatakeyama undertook commercial application of Dr. Ariya Inokuty's "Theory for Centrifugal Pumps". Since then, EBARA has made constant efforts to improve its own technology and as a result has become one of the leading producers of pump, fans and compressors. EBARA has also been engaged in the production and engineering services for other industrial machinery including refrigerating machines, boilers and plant equipment.

EBARA Corporation produces a wide range of pneumatic equipment from fans for air conditioning, exhaust blowers for sintering equipment to compressors for LNG plants, and enjoys a good reputation in this field of manufacture.

In this catalog EBARA lists its standard fans for general-purpose use. As a result of its many years of experience in the production of technologically superior products, all of EBARA's products provide excellent cost performance with HIGH-EFFICIENCY, LOW-NOISE, COMPACT DESIGN, LOW-COST and HIGH-QUALITY.

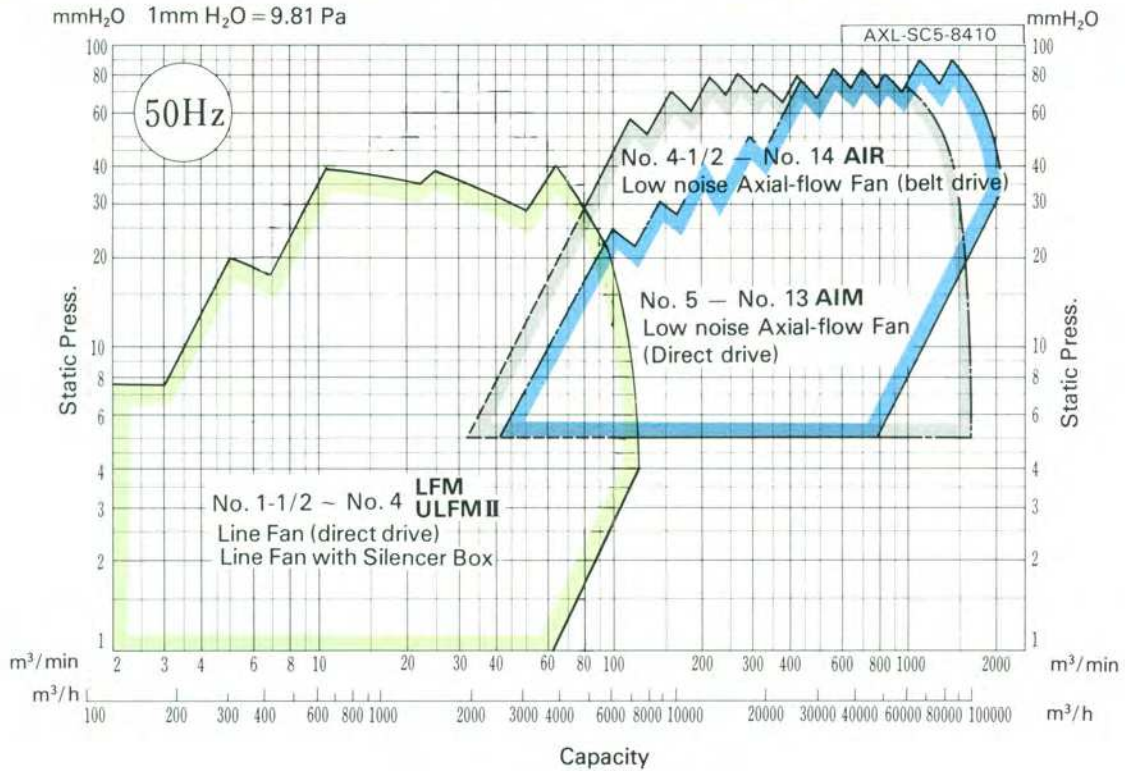
EBARA is very proud of its products and feel sure they will fill expectations of their most exacting customers in the years to come.

Applications and Features

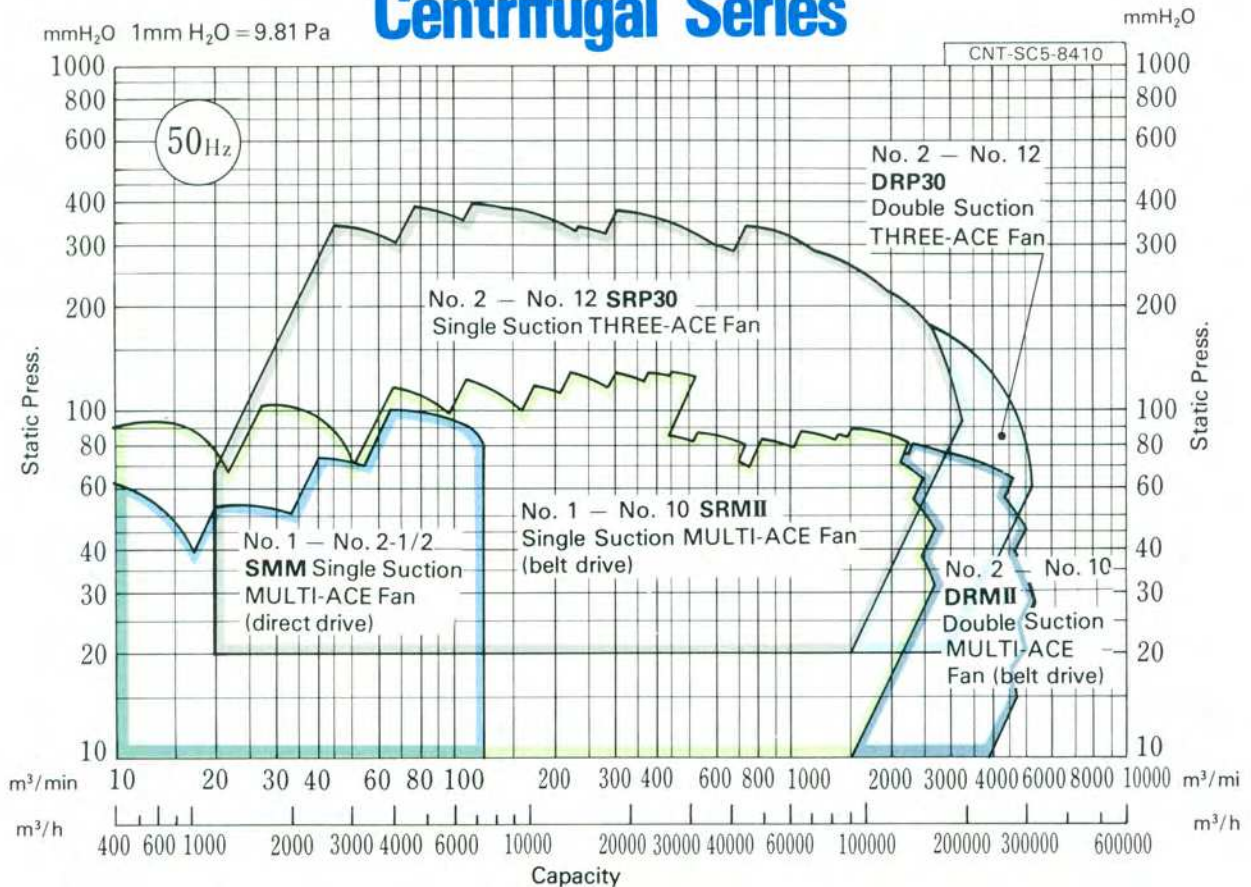
⊙ Excellent ○ Good △ Fair

Type	Applications	Application Range			Models	Size	Noise	Efficiency	Remarks	Reference page					
		Pressure	Capacity (m ³ /min)	Temperature (°C)											
Axial-flow fans	Air-conditioning	40mmH ₂ O (390Pa)	1 ~ 110	- 10 ~ 40	LINE FAN	⊙	⊙	⊙	Mixed flow fan	4					
					LINE FAN with Silencer					6					
		80mmH ₂ O (785Pa)	30 ~ 2000	- 10 ~ 40	Low noise Axial-flow Fan	Model AIM (Direct drive motor supported within casing)	⊙	⊙	○	Vane Axial-flow fan	8				
						Model AIR (Belt drive)	⊙	⊙	○		10				
Centrifugal fans	Industrial air feeders and exhausters	80mmH ₂ O (785Pa)	5 ~ 130	- 10 ~ 40	MULTI-ACE FAN	⊙	⊙	○	Forward curved vane fan (Multi-blade fan)	12					
	Air feeders and exhausters for various machines		5 ~ 2600	- 10 ~ 50						14					
	General ventilation and blowing		40 ~ 5000	- 10 ~ 40						16					
	Hot Air feeder and exhauster for various machines (for example driers) Kitchen Exhausters Other general industrial use	80mmH ₂ O (785Pa)	5 ~ 850	- 10 ~ 80	MULTI-ACE FAN	△	⊙	○	Forward curved vane fan (Multi-blade fan)	18					
											20 ~ 3000	- 10 ~ 50	THREE-ACE FAN	Model SRP30 (Single suction belt drive)	△
				30 ~ 500	- 10 ~ 40						Model DRP30 (Double suction belt drive)	△	⊙	⊙	

Axial-flow Series (air flow in axial direction)



Centrifugal Series



NOTE: All charts in this catalogue are for standard types and selection is based on air under the standard suction conditions (20°C, 760mmHg/101.3kPa, RH65% air density $\rho = 1.20\text{kg/m}^3$)

AXIAL-FLOW SERIES (axial flow direction)

MODEL LFM Line Fan

■ Features

- 1. Low noise:**
10 to 15 dB lower noise levels than conventional axial flow fans and multi-blade centrifugal fans used for air conditioning.
- 2. High efficiency:**
Extremely efficient energy saving type not usually associated with small fans.
- 3. Compact:**
Limited space adequate for installation.
Can be installed at any location in ducts with ease.
- 4. No restrictions on installation:**
Can be installed at such sites as on floor, ceiling, horizontally or vertically.
- 5. Load limit:**
No possibility of overload throughout full service air flow range.

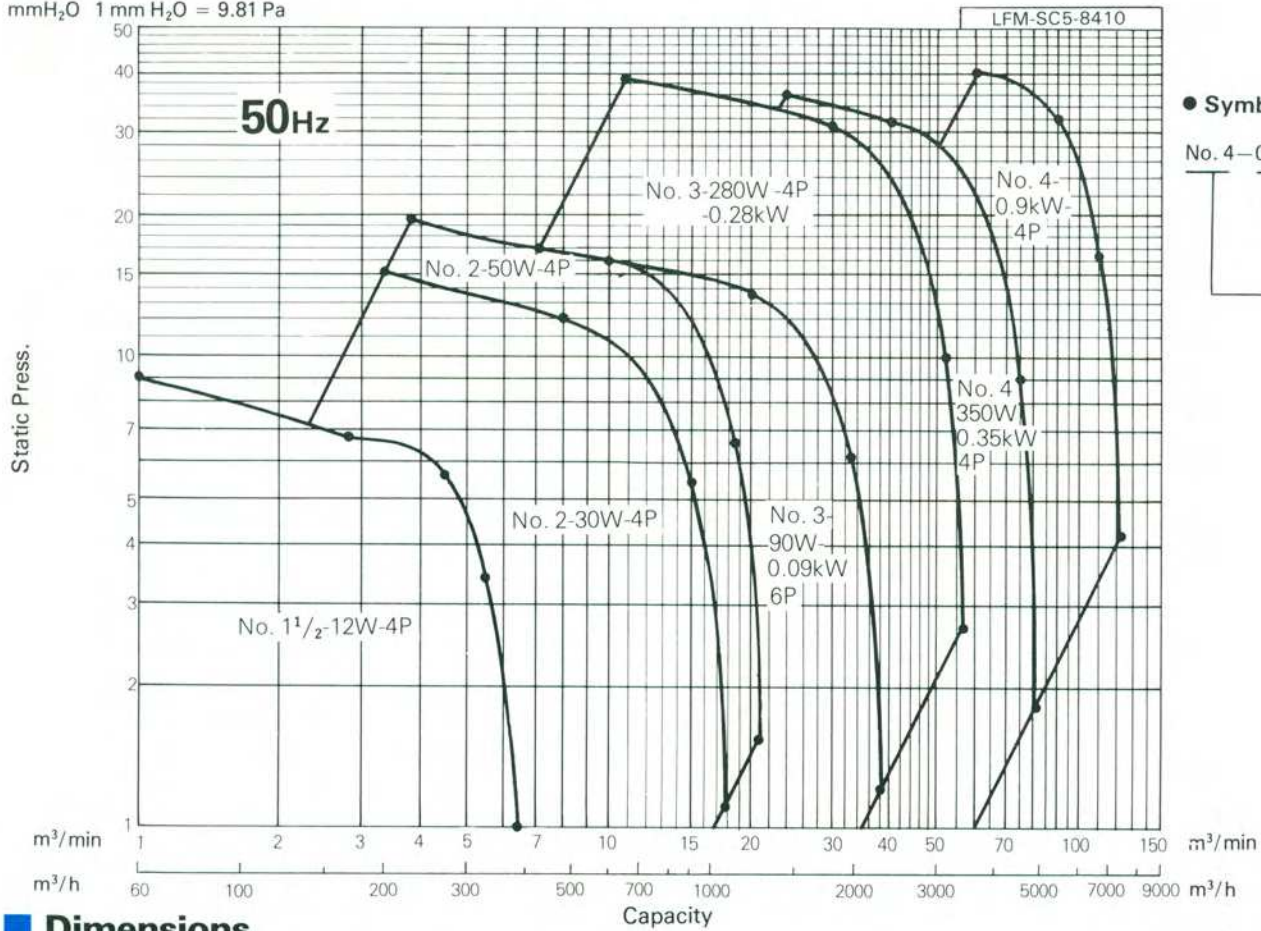


■ Specifications

Gas Handled	Name Temperature Humidity Specific gravity	Air - 10°C ~ 40°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Impeller Casing Drive	Mixed flow Vertical Split Axial type with Guide vanes Direct
Main Materials	Impeller Casing	Steel Steel
Mounting	Mounting Setting	Floor-mounting, Ceiling-mounting Horizontal, Vertical
Accessories	Standard	Companion flange (Only for size No. 4)
Electric Motor	Type	Totally enclosed Insulation class E

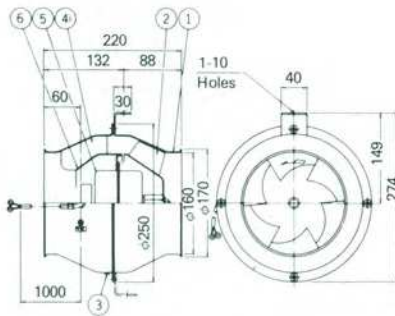
■ Selection chart

mmH₂O 1 mm H₂O = 9.81 Pa

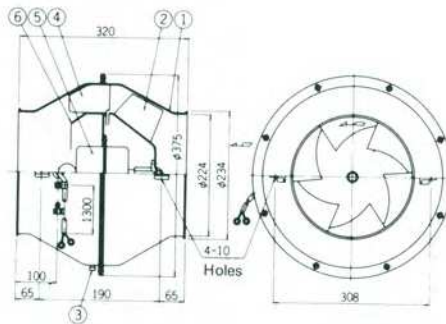


■ Dimensions

No. 1 1/2 LFM



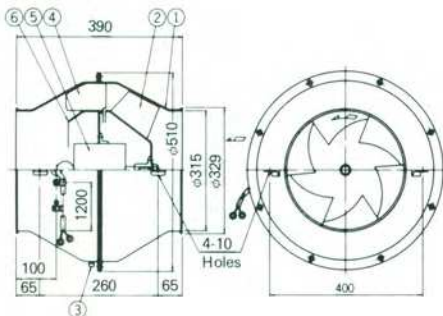
No. 2 LFM



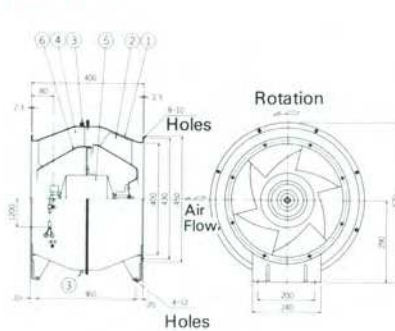
Weight List

No.	Motor		Weight (Mass) kg
	1φ W	3φ kW	
1 1/2	12	—	3.7
2	30	—	9
	50	—	10
3	90	—	24
	280	—	27
	—	0.09	25
4	—	0.28	24
	350	—	38
	—	0.35	38
—	0.9	39	

No. 3 LFM



No. 4 LFM



No.	PARTS NAME	MATERIAL	No. FOR UNIT
1	CASING	SPCC STEEL	1 SET
2	IMPELLER	SPCC STEEL	1
3	DRAIN CAP	A-510 BUBBER	1 SET
4	GUIDE VANE	SPCC STEEL	1 SET
5	MOTOR		1
6	INNER CYLINDER	SPCC STEEL	1

AXIAL-FLOW SERIES (axial flow direction)

MODEL ULFMII Line Fan with Silencer Box

■ Features

- 1. Ultra low noise:**
Lower noise levels are possible since low noise LEM type line fan has a built-in high efficiency silencer.
- 2. Compact:**
Limited space adequate for installation.
Can be installed at any location in ducts with ease.
- 3. High efficiency:**
Such features as high efficiency and load limit for built-in type LFM line fan are available.

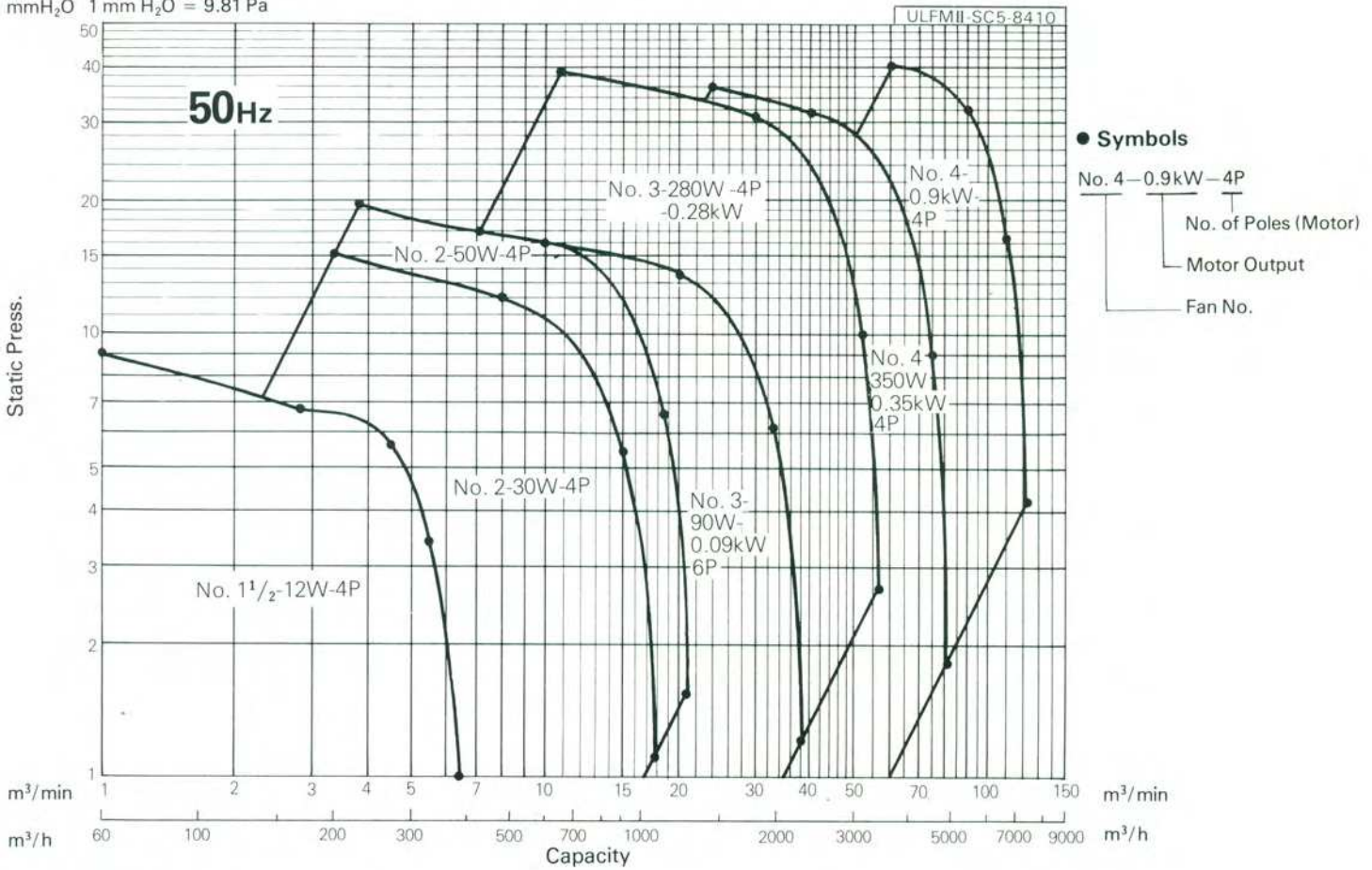


■ Specifications

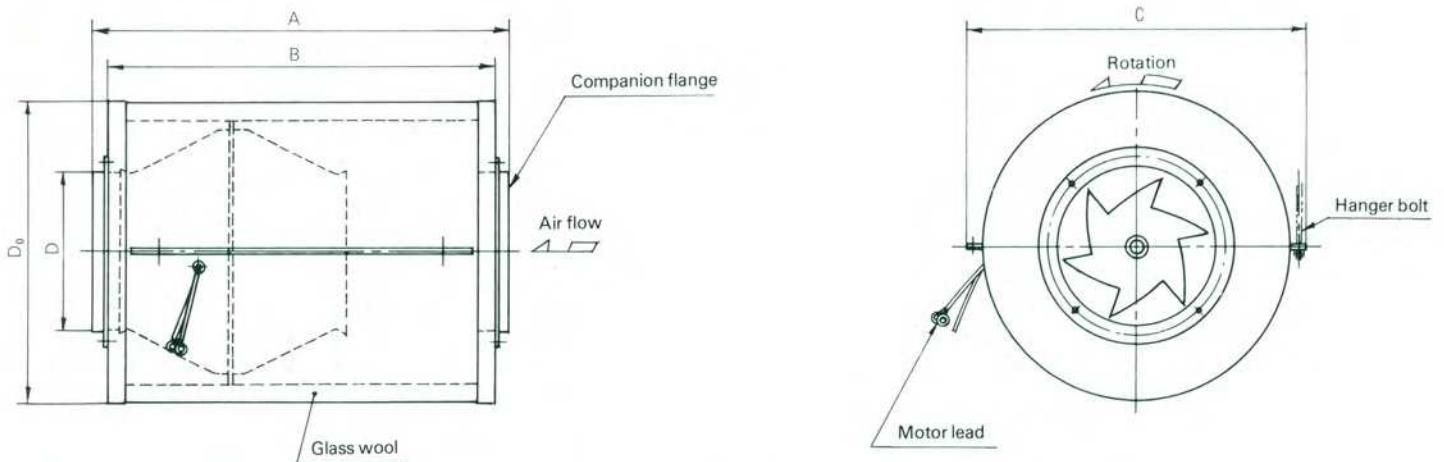
Gas Handled	Name Temperature Humidity Specific gravity	Air - 10°C ~ 40°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Fan Silencer box Drive	Model LFM Line fan Horizontal Split Axial flow type Cylindrical case with Glass wool Direct
Main Materials	Impeller Casing Silencer box	Steel Steel Galvanized steel sheet, Glass wool
Mounting	Mounting	Ceiling-mounting
Accessories	Standard	Companion flange
Electric Motor	Type	Totally enclosed Insulation class E

Selection Chart

mmH₂O 1 mm H₂O = 9.81 Pa



Dimensions



Unit: mm

No.	A	B	C	D	D ₀	Weight Mass kg														
						W 12	W 30	W 50	W 90	kW 0.09	W 280	W 0.28	W 350	kW 0.35	kW 0.9					
1 ¹ / ₂	440	400	350	160	300	10														
2	590	550	475	224	425		20	21												
3	750	700	680	315	600				55	56	58	55								
4	750	700	680	400	600								71	67	71					

ULFMII-D1-E8410

Note: This weight is approximate and includes motor weight.

AXIAL-FLOW SERIES (axial flow direction)

MODEL AIM Low-noise Axial-flow Fan

■ Features

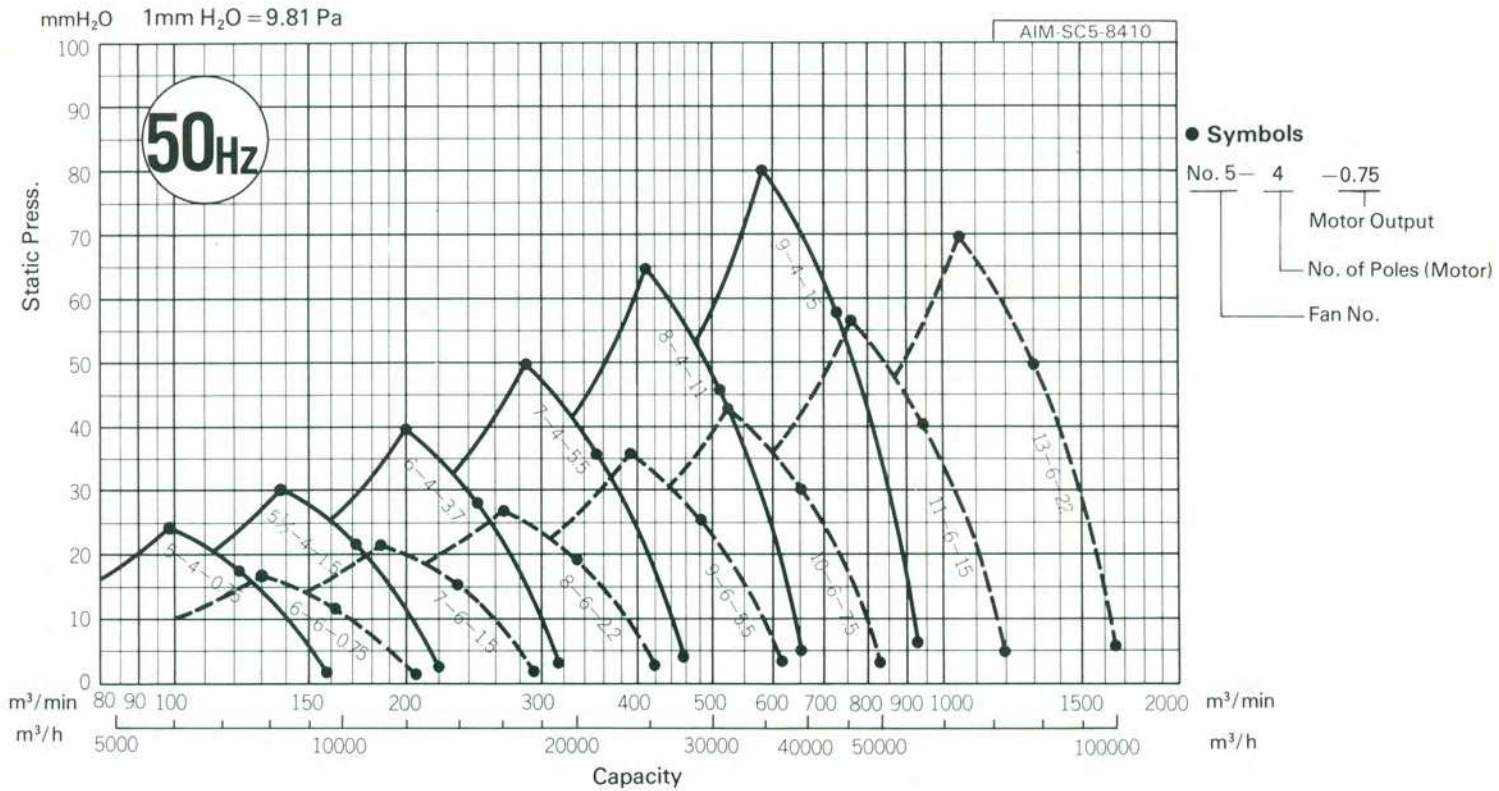
- 1. Low noise:**
By using impellers which have been developed by EBARA, 10 to 15 dB lower noise levels than with conventional fans have been achieved.
- 2. High efficiency:**
High efficiency is maintained by using impellers and guide vanes based on hydraulic design.
- 3. Compact:**
Although this is a small fan, large volume of air flow can be provided and installation facilitated as fan can be installed in duct work.



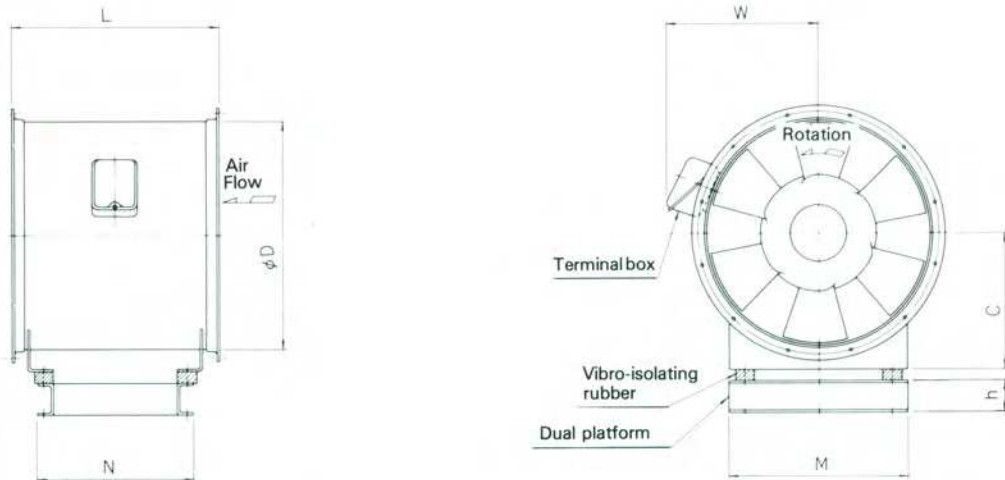
■ Specifications

Gas Handled	Name Temperature Humidity Specific gravity	Air - 10°C ~ 40°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Impeller Casing Drive	Axial flow Aerofoil profile blade Axial flow Casing with Guide vanes Direct
Main Materials	Impeller Casing	Aluminum Alloy Casting Steel
Mounting	Mounting Setting	Floor-mounting, Ceiling-mounting (Up to No. 9) Horizontal, Vertical
Accessories	Standard	Companion flange, Vibro-isolating rubber Dual plat form
Electric Motor	Type	Open drip proof Insulation class E

Selection chart



Dimensions



Unit: mm

No.	D	L	C	W	M	N	h	Weight Mass kg	
								4 pole	6 pole
5	500	500	310	315	400	360	80	56	
5½	560	500	340	340	440	360	80	70	
6	630	540	385	390	500	400	80	115	95
7	710	550	425	425	560	390	100	160	130
8	800	680	470	520	640	520	100	225	165
9	900	700	520	570	720	540	100	270	225
10	1000	740	580	650	800	560	125		355
11	1120	850	640	710	900	670	125		485
13	1250	880	705	770	1000	700	125		580

Note: This weight is approximate and includes motor weight.

AIM-D1-E8410

AXIAL-FLOW SERIES (axial flow direction)

MODEL AIR Low noise Axial-flow Fan

■ Features

1. Low noise:

By using impellers which have been developed by EBARA, 10 to 15 dB lower noise levels than with conventional fans have been achieved.

2. High efficiency:

High efficiency is maintained by using impellers and guide vanes based on hydraulic design.

3. Compact:

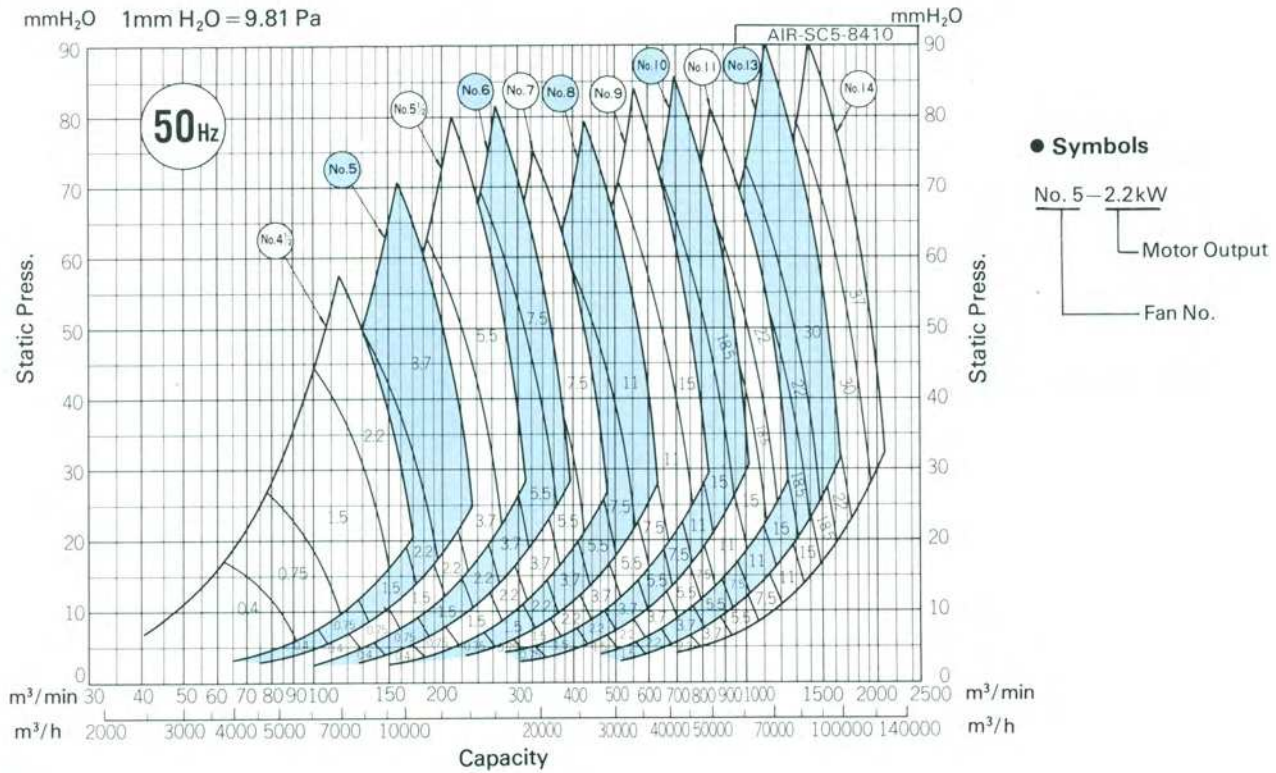
Although this is a small fan, large volumes of air flow can be provided and installation facilitated as fan can be installed in duct work.



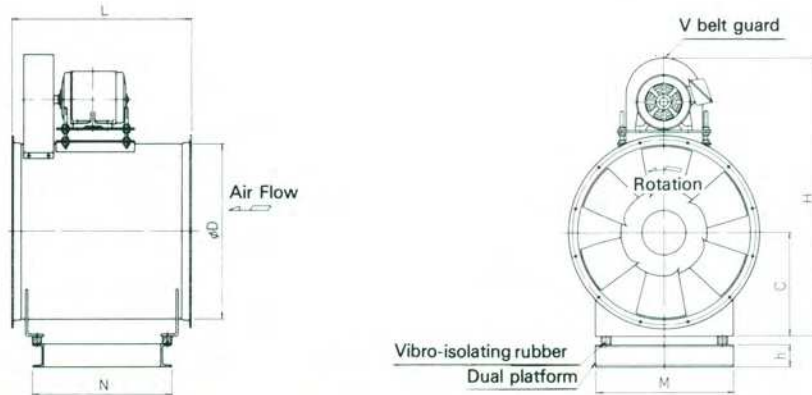
■ Specifications

Gas Handled	Name Temperature Humidity Specific gravity	Air - 10°C ~ 50°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Impeller Casing Bearing Drive	Axial flow Airfoile profile blade Axial flow Casing with Guide vanes Ball bearing unit V-belt
Main Materials	Impeller Casing Shaft	Aluminium Alloy Casting Steel Carbon Steel
Mounting	Mounting Setting	Floor-mounting, Ceiling-mounting (Up to No. 9) Horizontal, Vertical
Accessories	Standard	V-pulley, V-belt, V-belt guard Companion flange, Vibro-isolating rubber. Dual plat form.
Electric Motor	Standard type	Open drip proof Insulation class E 4 pole

Selection chart



Dimensions



Unit: mm

No.	Out put kW	D	L	M	N	C	H	h	Bearing Unit	Weight (Mass) kg
4 ^{1/2}	0.4 ~ 2.2	450	610	360	470	285	815	80	UCF-205	70
5	0.4 ~ 3.7	500	680	400	540	310	880	80	UCF-206	85
5 ^{1/2}	0.4 ~ 5.5	560	700	440	560	340	970	80	UCF-207	100
6	0.4 ~ 7.5	630	750	500	610	385	1065	80	UCF-208	135
7	0.4 ~ 7.5	710	750	560	590	425	1155	100	UCF-209	160
8	0.75 ~ 11	800	820	640	660	470	1280	100	UCF-210	200
9	0.75 ~ 15	900	900	720	740	520	1390	100	UCF-310	240
10	0.75 ~ 11	1000	900	800	720	580	1540	125	UCP-310	350
	UCP-311								370	
11	1.5 ~ 15	1120	950	900	770	640	1695	125	UCP-310	425
	UCP-312								450	
13	1.5 ~ 18.5	1250	1030	1000	850	705	1825	125	UCP-311	510
	UCP-313								530	
14	2.2 ~ 22	1400	1120	1100	940	780	2010	125	UCP-311	615
	UCP-314								640	

Note: This weight is approximate and not includes motor weight.

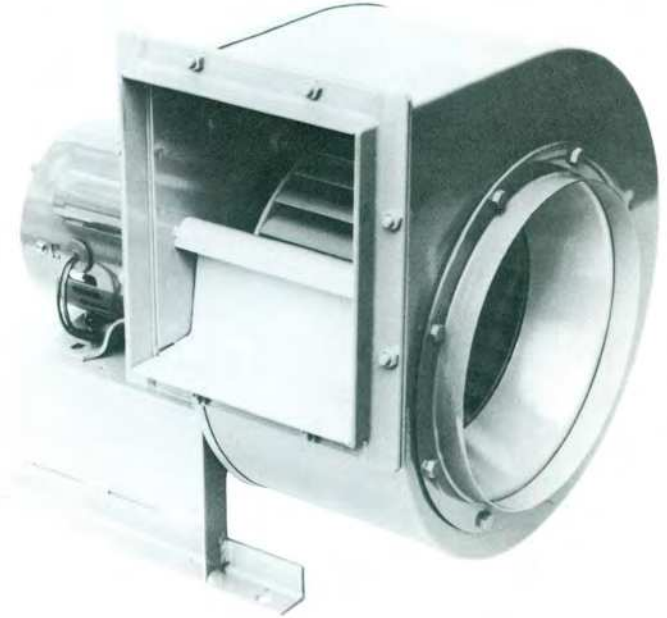
AIR-D1-E8410

CENTRIFUGAL SERIES (forward curved)

MODEL SMM Single Suction MULTI-ACE Fan (Direct Drive)

■ Features

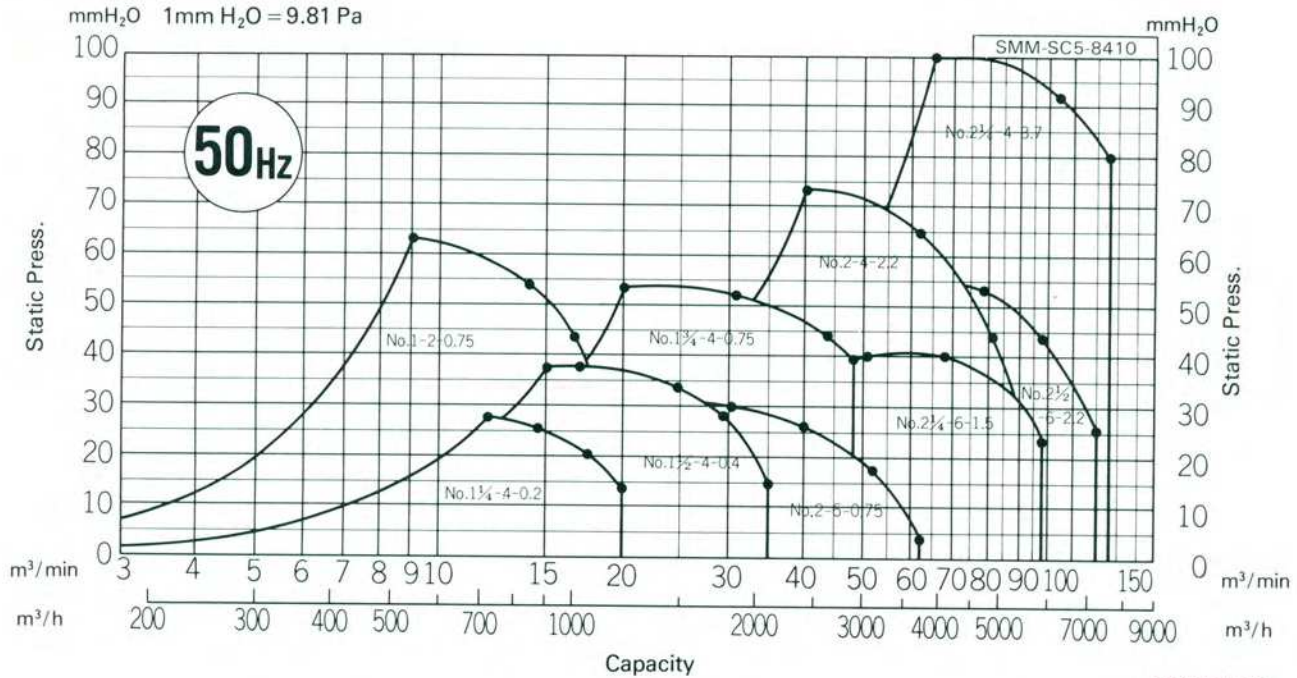
- 1. Large volume air flow:**
Use of EBARA original Forward Curved Multi-blades provides large air flow, although the fan is small.
- 2. Compact:**
Extremely compact with light weight achieved due to direct drive (impeller mounted on motor shaft).



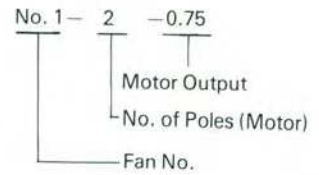
■ Specifications

Gas Handled	Name Temperature Humidity Specific gravity	Air -10°C ~ 40°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Impeller Casing Drive	Forward Curved Multiblade Single Suction type scroll Direct
Main Materials	Impeller Casing	Steel Steel
Mounting	Mounting Discharge direction	Floor-mounting, Ceiling-mounting f-1 ~ f-4 (4 variations)
Accessories	Standard	Companion flange, Vibro-isolating rubber Dual platform
Electric Motor	Type	Open drip proof Insulation class E

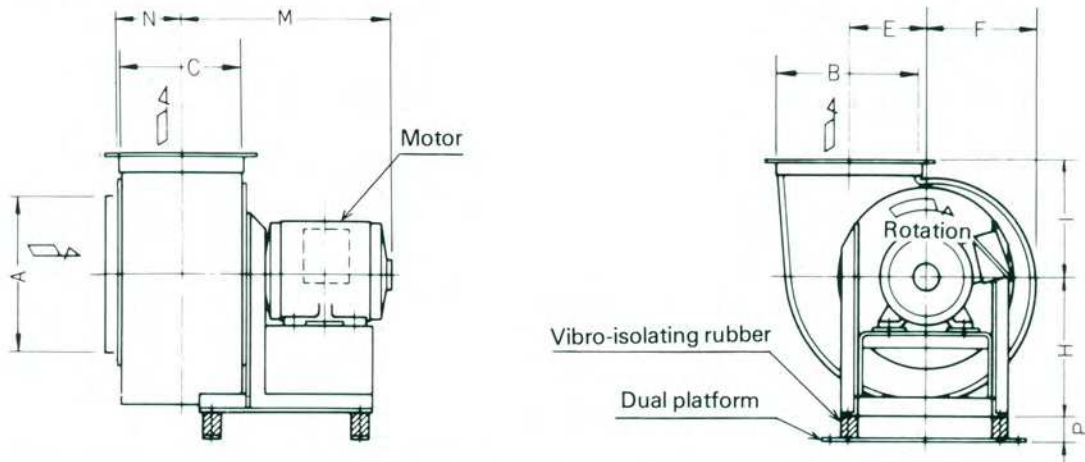
Selection chart



● Symbols



Dimensions



*Discharge outlet can be changed to f-1 to f-4 as shown on back cover Unit: mm

No.	A	B	C	E	F	H	I	M	N	P	Weight Mass kg						
											kw	0.2	0.4	0.75	1.5	2.2	3.7
1	160	140	130	85	115	160	130	290	66	31							
1 1/4	205	180	160	95	145	180	160	310	81	31	15						
1 1/2	235	210	190	135	175	220	180	310	96	35		21					
1 3/4	270	250	220	135	195	240	200	370	111	40			31				
2	315	280	250	170	230	290	225	400	126	40			45			53	
2 1/4	335	320	280	190	260	320	260	430	141	40				62			71
2 1/2	390	360	310	210	290	350	280	500	156	40					73		

Note: This weight is approximate and includes motor weight.

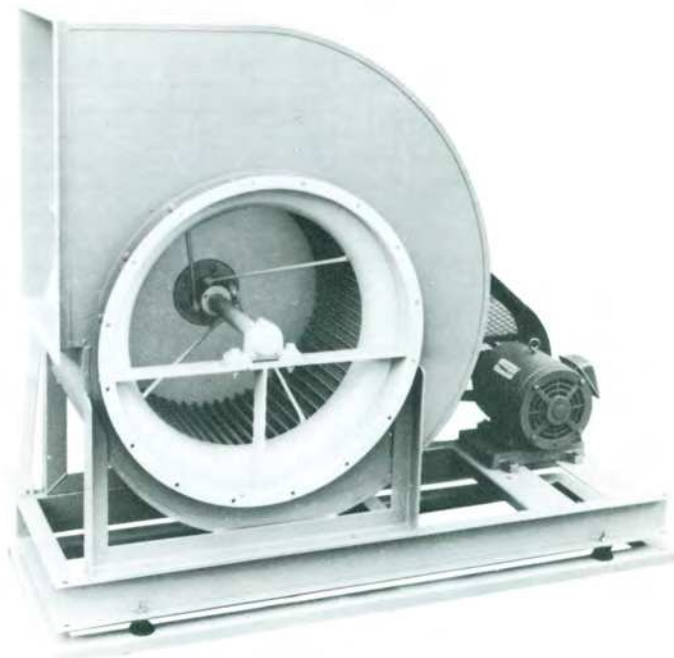
SMM-D1-E8410

CENTRIFUGAL SERIES (forward curved)

MODEL SRMII Single Suction MULTI-ACE Fan

Features

- 1. Low noise:**
Extraordinary low noise achieved by use of Forward Curved Multi-blade fan.
- 2. Large volume air flow:**
By using EBARA original Forward Curved Multi-blades, large air flow with small size fan can be provided.
- 3. Compact:**
The smallest, most compact type fan among centrifugal fans which have the same air flow volume.
- 4. Wide range:**
Standardization has been achieved to provide a large range of air flow for a wide range of applications.

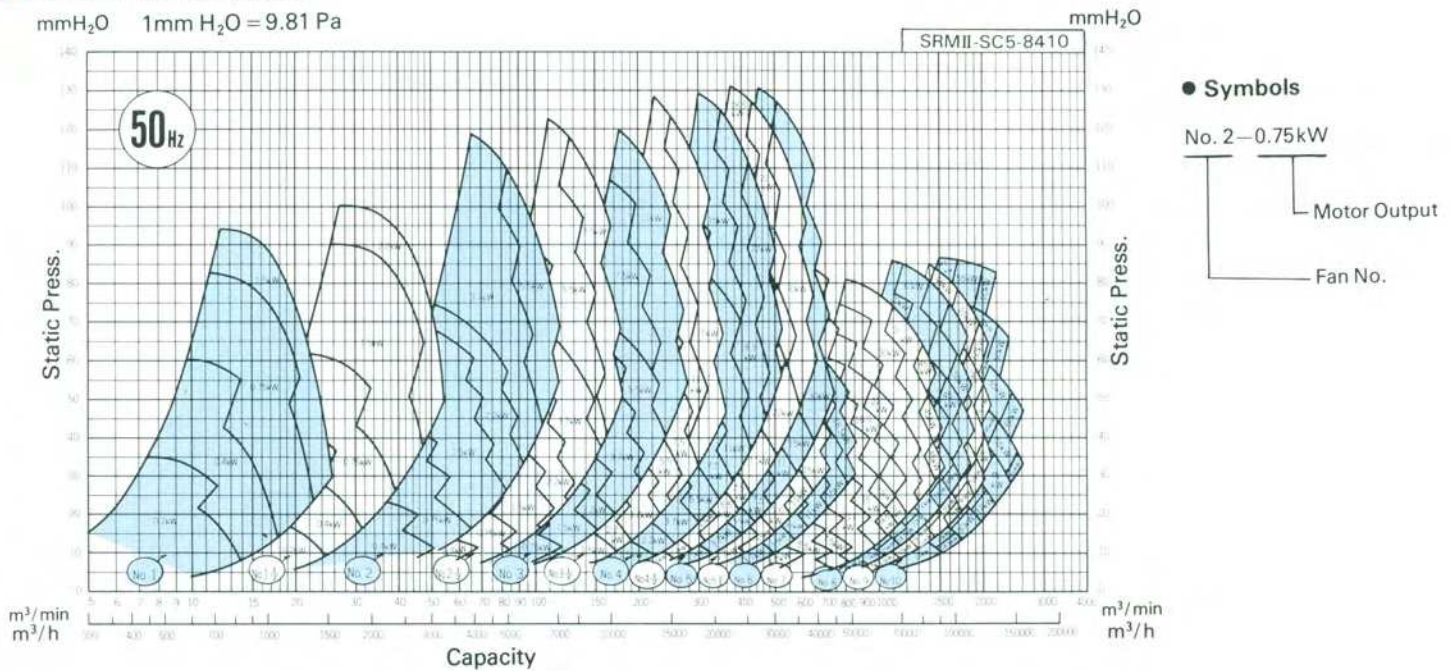


Specifications

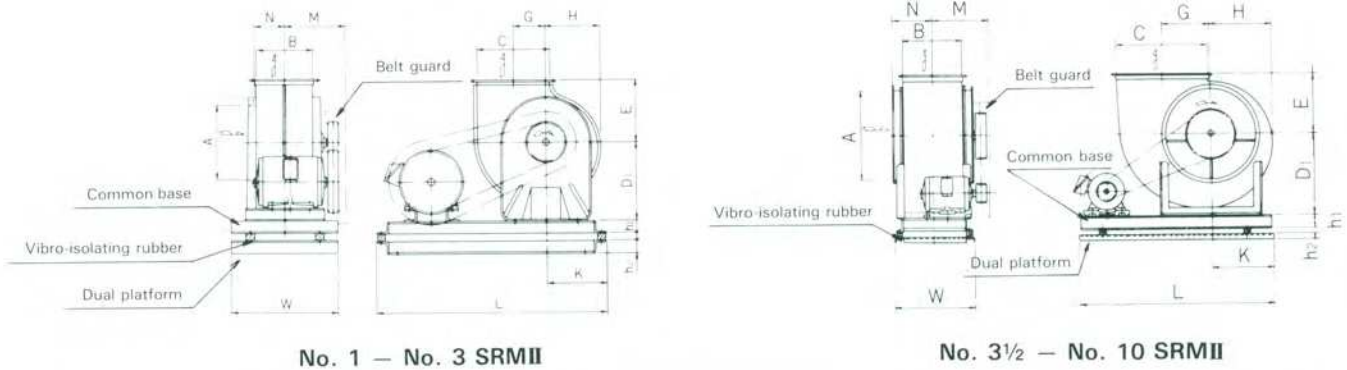
Gas Handled	Name Temperature Humidity Specific gravity	Air - 10°C ~ 50°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Impeller Casing Bearing Drive	Forward Curved Multiblades Single Suction type scroll Ball bearing unit V-belt
Main Materials	Impeller Casing Shaft	Steel Steel Carbon Steel
Mounting	Mounting Discharge direction	Floor-mounting, Ceiling-mounting (No. 1 ~ 6) f-1 ~ f-6 (6 variations)
Accessories	Standard	Common base, V-pulley, V-belt, V-belt guard, Vibro-isolating rubber, Dual platform, Companion flange.
Electric Motor	Standard type	Open drip proof Insulation class E 4 or 6 pole

Selection chart

mmH₂O 1mm H₂O = 9.81 Pa



Dimensions



No. 1 - No. 3 SRMII

No. 3 1/2 - No. 10 SRMII

*Illustrations from f-1 to f-6 are shown on back cover. Unit: mm

No.	Output kw	A	B	C	*D			h ₁	h ₂	E	G	H	K	L	M	N	W	Bearing Unit		Weight (Mass) kg
					f-1-2	f-3-4	f-5-6											Pulley Side	Opposite Side	
1	0.2 - 1.5	163	130	165	180	180	180	30	30	155	69	129	140	650	195	67	300	B4BA-NG		19
1 1/2	0.2 - 2.2	245	190	240	260	260	260	40	40	205	106	187	200	760	200	97	350	B4BA-NG		27
2	0.4 - 2.2	300	230	305	325	325	325	80	20	270	152.5	225	240	840	240	119	310	UC205-NG		39
	3.7 - 5.5	300	230	305	275	230	335	80	20	270	152.5	225	240	960	280	118	310	UCP207	UCP204	46
2 1/2	0.4 - 3.7	380	280	375	395	395	395	80	20	330	187.5	272	285	960	265	144	360	UCP206-NG		57
	5.5 - 7.5	380	280	375	330	275	405	80	20	330	187.5	272	285	1140	305	143	360	UCP307	UCP205	64
3	0.75 - 5.5	480	355	475	495	495	495	100	30	415	237.5	341	360	1150	313	182	465	UC207-NG		102
	7.5 - 11	480	355	475	410	345	510	100	30	415	237.5	341	360	1280	385	181	465	UCP309	UCP206	107
3 1/2	0.75 - 7.5	578	370	580	510	430	625	100	30	380	290	402	450	1450	382	247	495	UCP208	UCP206	150
	11 - 15	578	370	580	510	430	625	100	30	380	290	402	450	1450	382	247	495	UCP309	UCP206	168
4	1.5 - 11	656	420	660	580	485	710	100	30	430	335	455	455	1540	427	272	545	UCP209	UCP206	195
	15 - 22	656	420	660	580	485	710	100	30	430	335	455	455	1600	427	272	545	UCP309	UCP206	220
4 1/2	1.5 - 11	713	480	745	640	535	790	100	30	480	375	505	495	1620	457	302	605	UCP209	UCP206	235
	15 - 30	713	480	745	640	535	790	100	30	480	375	505	495	1700	457	302	605	UCP312	UCP208	262
5	1.5 - 15	800	530	825	720	600	880	120	40	530	415	556	545	1720	502	347	695	UCP210	UCP208	305
	18.5 - 30	800	530	825	720	600	880	120	40	530	415	556	545	1800	502	347	695	UCP312	UCP208	335
5 1/2	2.2 - 15	886	580	910	790	660	965	120	40	590	455	643	585	1820	527	372	745	UCP210	UCP208	360
6	2.2 - 18.5	965	630	990	860	720	1050	120	40	650	495	701	625	1900	567	397	795	UCP212	UCP208	455
7	3.7 - 4.5	1160	800	1120	1010	835	1230	100	50	760	613	830	650	2500	740	502	900	UCP316	UCP212	860
8	5.5 - 55	1285	870	1290	1110	930	1365	100	50	845	665	920	750	2700	775	557	970	UCP316	UCP212	1040
9	5.5 - 60	1445	980	1450	1240	1040	1550	125	65	950	743	1030	825	2900	860	642	1130	UCP318	UCP314	1380
10	7.5 - 60	1605	1090	1610	1380	1150	1720	125	65	1060	822	1170	900	3050	920	697	1240	UCP318	UCP314	1715

SRMII-D1-E8601

Note: Upper and lower casings can be separated with No. 10.
This weight is approximate and not includes motor weight.

CENTRIFUGAL SERIES (forward curved)

MODEL DRMII Double Suction MULTI-ACE Fan

■ Features

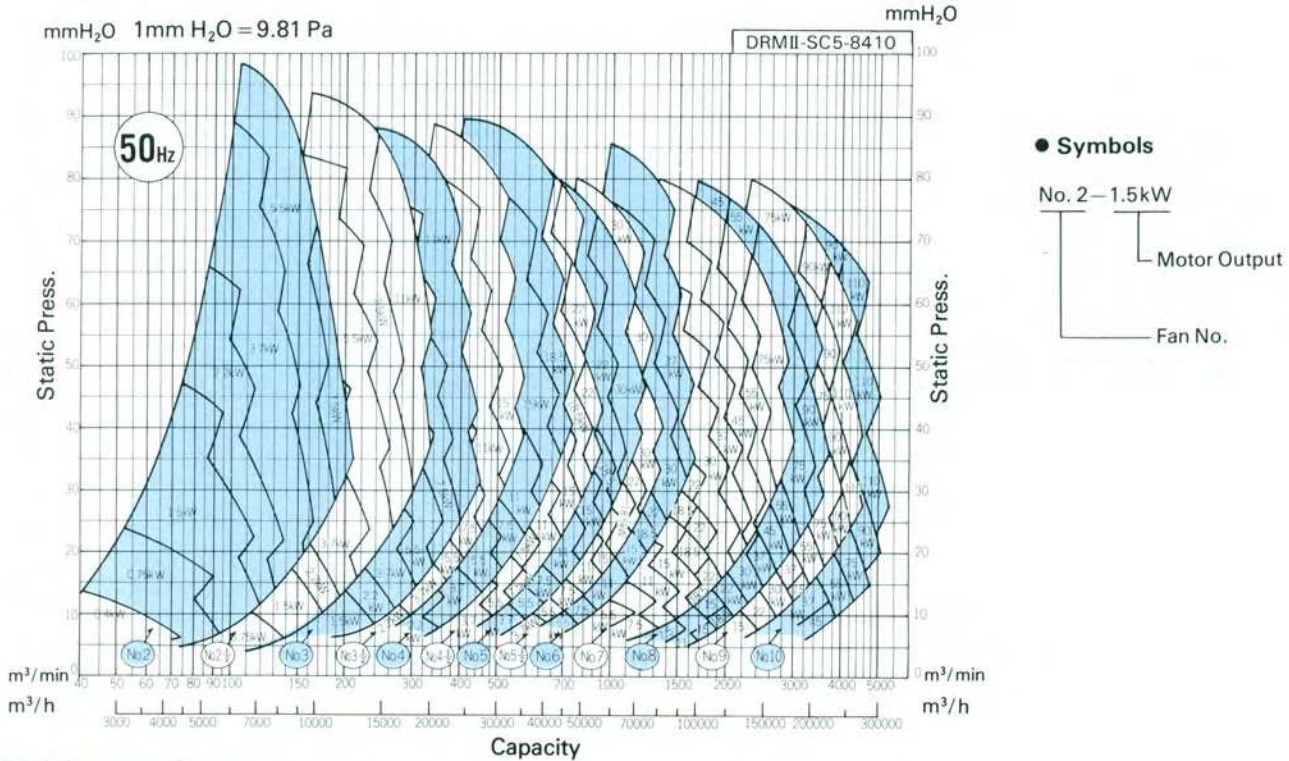
- 1. Low noise:**
Extraordinary low noise achieved by use of Forward Curved Multi-blade fan.
- 2. Large volume air flow:**
By using EBARA original Forward Curved Multi-blades, large air flow with small size fan can be provided.
- 3. Compact:**
The smallest, most compact type fan among centrifugal fans which have the same air flow volume.
- 4. Wide range:**
Standardization has been achieved to provide a large range of air flow for a wide range of applications.



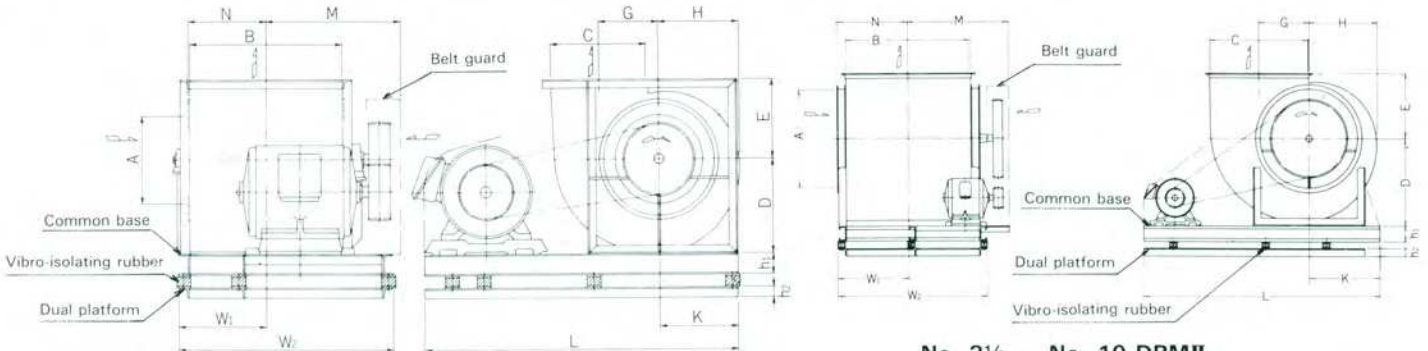
■ Specifications

Gas Handled	Name Temperature Humidity Specific gravity	Air - 10°C ~ 40°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Impeller Casing Bearing Drive	Forward Curved Multi blades Double Suction type scroll Ball bearing unit V-belt
Main Materials	Impeller Casing Shaft	Steel Steel Carbon Steel
Mounting	Mounting Discharge direction	Floor-mounting, Ceiling-mounting (Up to No. 3 ¹ / ₂) f-1 ~ f-6 (6 variations)
Accessories	Standard	Common base, V-pulley, V-belt, V-belt guard, Vibro-isolating rubber, Dual platform, Companion flange.
Electric Motor	Standard type	Open drip proof Insulation class E 4 or 6 pole

Selection chart



Dimensions



No. 2 — No. 3 DRMII

No. 3 1/2 — No. 10 DRMII

*Illustrations from f-1 to f-6 are shown on back cover. Unit: mm

No.	Output kw	A	B	C	*D			h ₁	h ₂	E	G	H	K	L	M	N	W ₁	W ₂	Bearing Unit		Weight (Mass) kg
					f-1-2	f-3-4	f-5-6												Pulley Side	Opposite Side	
2	0.4-7.5	250	440	280	270	230	335	60	30	225	170	229	225	900	385	221	250	615	UCP306	UCP204	51
2 1/2	0.75-11	320	560	360	340	295	415	60	30	280	210	289	280	1050	455	281	310	730	UCP307	UCP205	68
3	1.5-11	382	675	430	400	345	495	60	30	330	255	343	330	1150	518	338.5	367.5	835	UCP307	UCP205	87
3 1/2	1.5-15	578	740	580	510	430	625	100	50	380	290	402	440	1510	629	432	422	895	UCP310	UCP206	240
4	2.2-18.5	656	840	660	580	485	710	100	50	430	335	455	480	1590	679	482	472	995	UCP310	UCP206	330
4 1/2	2.2-22	713	960	745	640	535	790	100	50	480	375	505	525	1680	739	542	532	1115	UCP311	UCP208	400
5	3.7-30	800	1060	825	720	600	880	120	65	530	415	556	565	1780	819	612	597	1260	UCP312	UCP208	510
5 1/2	3.7-30	886	1160	910	790	660	965	120	65	590	455	614	605	1860	884	662	647	1360	UCP313	UCP208	610
6	3.7-37	965	1260	990	860	720	1050	120	65	650	495	673	605	2010	969	712	697	1485	UCP314	UCP210	730
7	3.7-37	1160	1600	1120	1010	835	1230	100	50	760	613	853	680	2450	1300	902	900	2020	UCP318	UCP314	1520
8	45-75	1160	1600	1120	1010	835	1230	125	65	760	613	853	680	2650	1300	902	900	2020	UCP324	UCP316	1650
	3.7-37	1285	1740	1290	1110	930	1365	100	50	845	665	943	750	2600	1390	992	970	2160	UCP320	UCP314	1740
9	45-90	1285	1740	1290	1110	930	1365	125	65	845	665	943	750	2800	1390	992	970	2160	UCP324	UCP316	1950
	7.5-37	1445	1960	1450	1240	1040	1550	125	65	950	743	1052	825	2750	1530	1132	1080	2380	UCP322	UCP315	2350
10	45-110	1445	1960	1450	1240	1040	1550	125	65	950	743	1052	825	2950	1580	1132	1080	2380	Roller # 22228	Ball # 6318	2550
	15-37	1605	2180	1610	1380	1150	1720	125	65	1060	822	1169	900	3050	1690	1242	1190	2600	UCP322	UCP315	2850
	45-110	1605	2180	1610	1380	1150	1720	125	65	1060	822	1169	900	3050	1690	1242	1190	2600	Roller # 22228	Ball # 6318	3100

Note: Upper and lower casings can be separated with No. 7 through No. 10.
This weight is approximate and not includes motor weight.

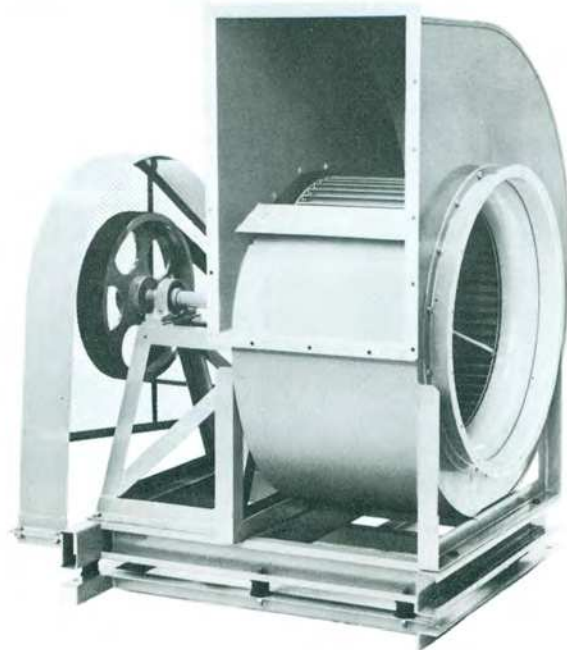
DRMII-D1-E8601

CENTRIFUGAL SERIES (forward curved)

MODEL SRM0II Single Suction MULTI-ACE Fan (Overhang Impeller type)

■ Features

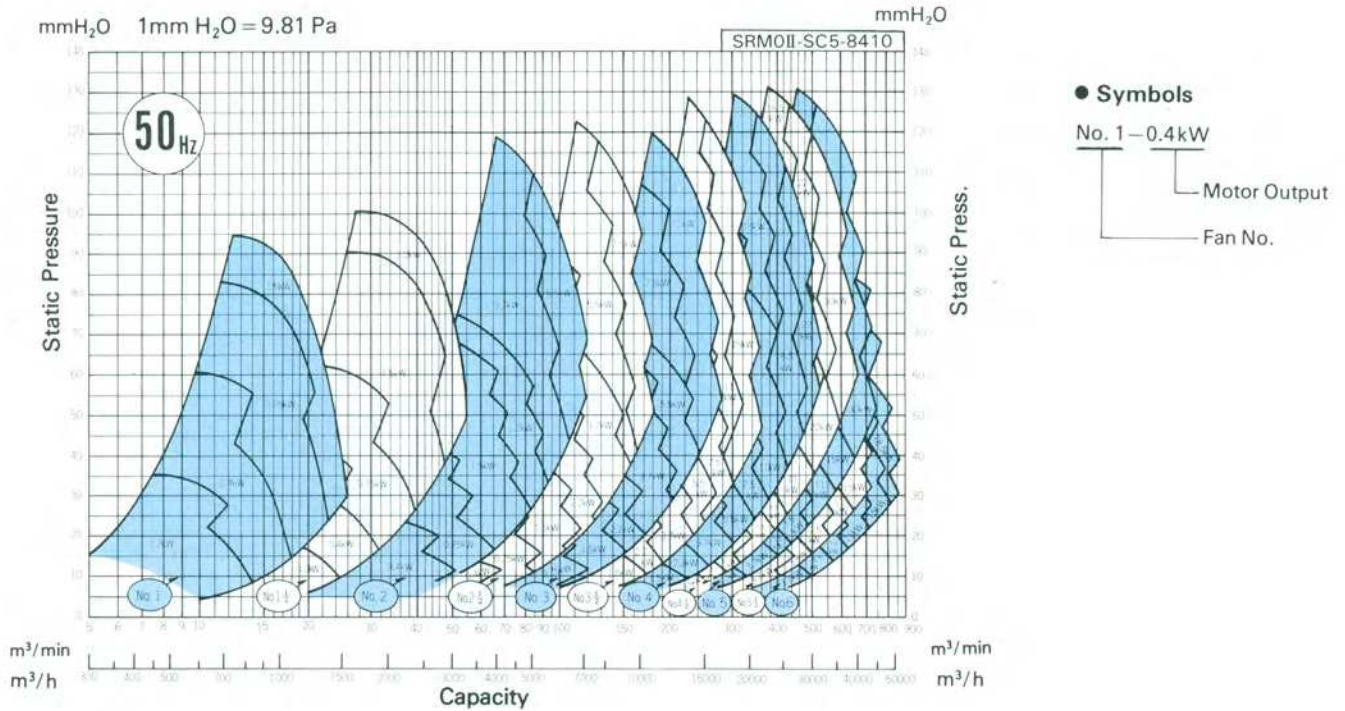
- 1. Low noise:**
Extraordinary low noise levels produced by Forward Curved Multi-blade fan.
- 2. Large air flow:**
EBARA original Forward Curved Multi-blades produce large air flows with a small sized fan.
- 3. Wide application:**
Overhang impeller use of fan with gasses up to 80°C temperature.



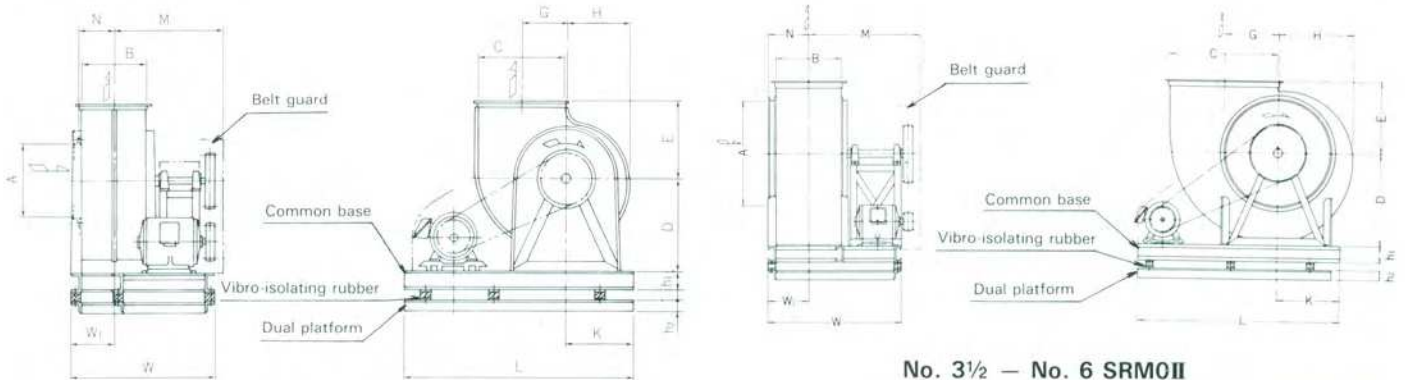
■ Specifications

Gas Handled	Name Temperature Humidity Specific gravity	Air - 10°C ~ 80°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Impeller Casing Bearing Drive	Forward Curved Multiblades Single Suction type scroll Ball bearing unit V-belt
Main Materials	Impeller Casing Shaft	Steel Steel Carbon Steel
Mounting	Mounting Discharge direction	Floor-mounting, Ceiling-mounting (Up to No. 3 ¹ / ₂) f-1 ~ f-6 (6 variations)
Accessories	Standard	Common base, V-pulley, V-belt, V-belt guard, Vibro-isolating rubber, Dual platform, Companion flange.
Electric Motor	Standard type	Open drip proof Insulation class E 4 pole

Selection chart



Dimensions



No. 1 - No. 3 SRM0II

No. 3½ - No. 6 SRM0II

*Illustrations from f-1 to f-6 are shown on back cover. Unit: mm

No.	Output kw	A	B	C	*D			h ₁	h ₂	E	G	H	K	L	M	N	W ₁	W ₂	Bearing Unit		Weight [Mass] kg
					f-1-2	f-3-4	f-5-6												Pulley Side	Opposite Side	
1	0.2-1.5	163	130	165	180	180	180	60	30	155	69	129	135	600	313	67	375	90	UCP203	UCP203	26
1½	0.2-2.2	245	190	240	260	260	260	80	40	205	106	187	190	750	363	97	470	127	UCP204	UCP204	41
2	0.4-2.2	300	230	305	325	325	325	80	40	270	152.5	225	240	950	490	119	580	155	UCP204	UCP204	61
	3.7-5.5	300	230	305	275	230	335	80	40	270	152.5	225	240	950	490	118	580	155	UCP207	UCP207	66
2½	0.4-3.7	380	280	375	395	395	395	80	40	330	187.5	272	285	1100	530	144	660	180	UCP205	UCP205	79
	5.5-7.5	380	280	375	330	275	405	80	40	330	187.5	272	285	1100	530	143	660	180	UCP307	UCP307	88
3	0.75-5.5	480	355	475	495	495	495	100	50	415	237.5	341	360	1250	648	182	800	227.5	UCP206	UCP206	141
	7.5-11	480	355	475	410	345	510	100	50	415	237.5	341	360	1250	648	181	800	227.5	UCP309	UCP309	144
3½	0.75-7.5	578	370	580	510	430	625	100	50	380	290	402	365	1300	710	247	810	237	UCP208	UCP208	195
	11-15	578	370	580	510	430	625	100	50	380	290	402	300	1290	725	247	810	237	UCP310	UCP310	215
4	1.5-11	656	420	660	580	485	710	100	50	430	335	455	440	1510	790	272	895	262	UCP209	UCP209	240
	15-22	656	420	660	580	485	710	100	50	430	335	455	375	1510	805	272	895	262	UCP310	UCP310	270
4½	1.5-11	713	480	745	640	535	790	100	50	480	375	505	480	1590	860	302	995	292	UCP209	UCP209	270
	15-30	713	480	745	640	535	790	100	50	480	375	505	415	1610	885	302	995	292	UCP313	UCP313	335
5	1.5-15	800	530	825	720	600	880	120	65	530	415	556	525	1680	945	347	1115	327	UCP211	UCP211	360
	18.5-30	800	530	825	720	600	880	120	65	530	415	556	455	1700	970	347	1115	327	UCP313	UCP313	410
5½	2.2-15	886	580	910	790	660	965	120	65	590	455	644	565	1780	1060	372	1260	357	UCP211	UCP211	450
6	2.2-18.5	965	630	990	860	720	1050	120	65	650	495	703	605	1860	1150	397	1360	382	UCP212	UCP212	530

Note: This weight is approximate and not includes motor weight.

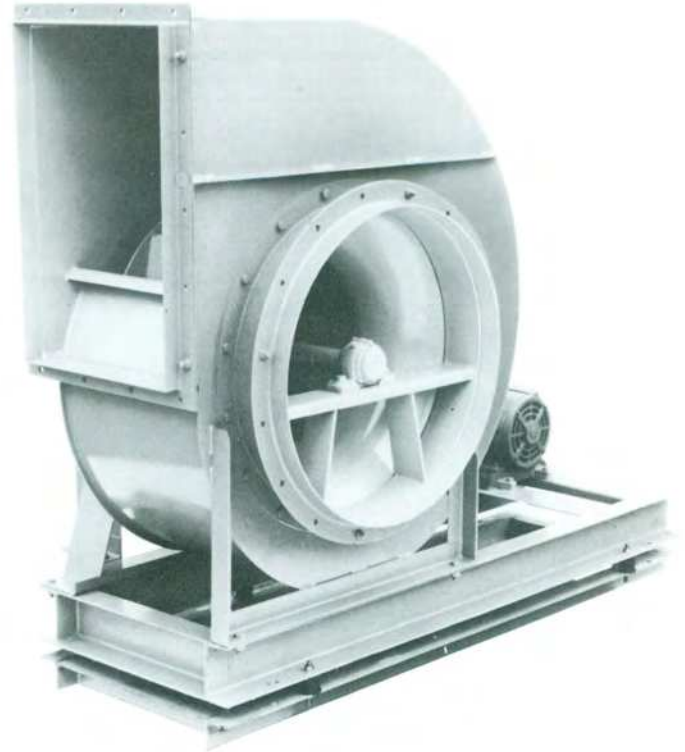
SRM0II-D1-E8601

CENTRIFUGAL SERIES (backward curved)

MODEL SRP30 Single Suction THREE-ACE Fan.

■ Features

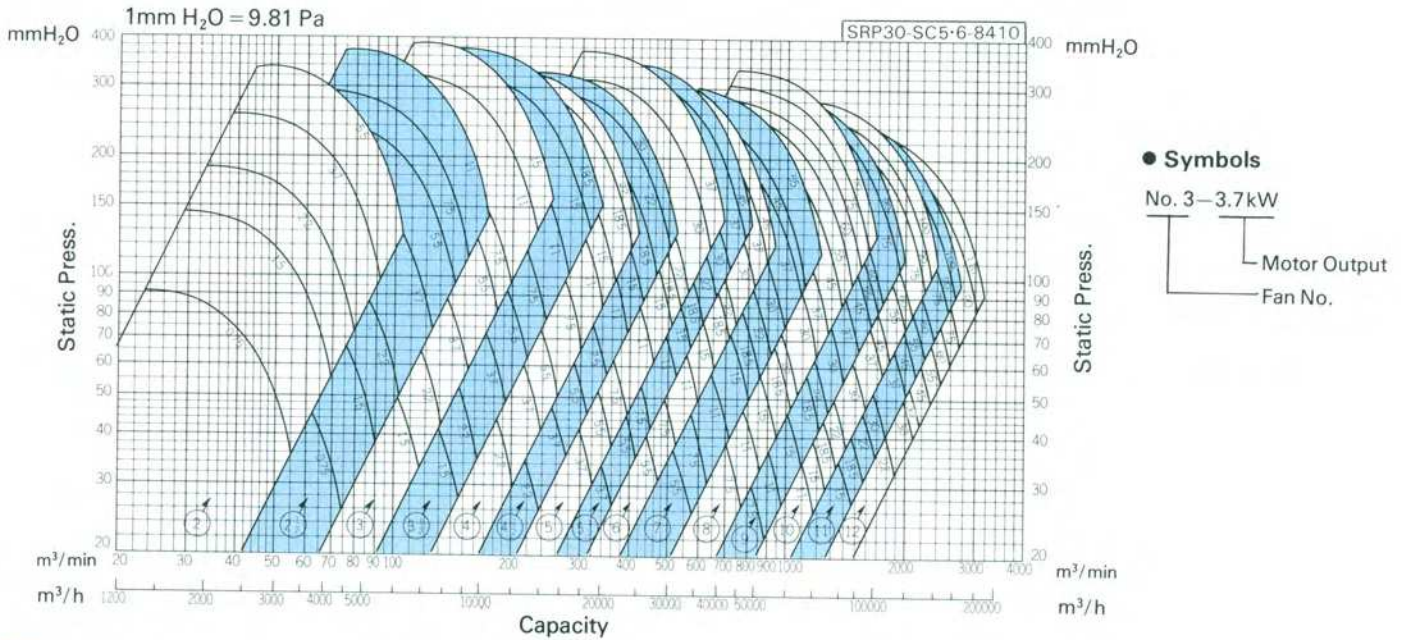
- 1. Low noise:**
Extraordinary low noise levels are possible with Backward Curved type centrifugal fan blades.
- 2. High efficiency:**
The same high efficiency as that of airfoil profile blade type fans is attained.
- 3. Load limit performance:**
No possibility of overload in any service air flow range.
- 4. Wide range:**
Fans are available in many series, with ranges of air flow at 20 m³/min to 3,000 m³/min and static pressures of 20 mm H₂O to 300 mm H₂O, which can cover any requirement.



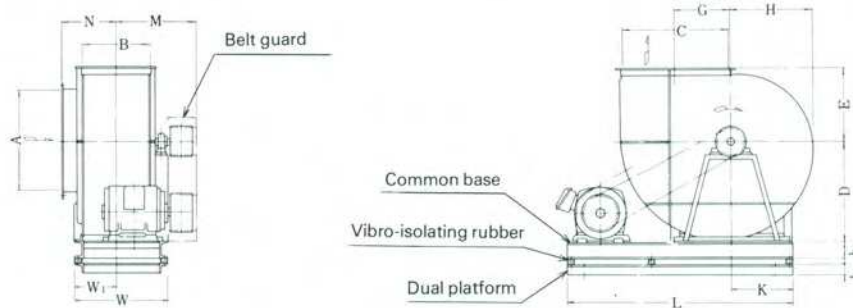
■ Specifications

Gas Handled	Name Temperature Humidity Specific gravity	Air -10°C ~ 50°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Impeller Casing Bearing Drive	Airfoil profile blade (No. 2 ~ 3 ¹ / ₂) Backward curved vanes (No. 4 ~ 12) Single Suction type scroll Ball bearing unit or Roller bearing V-belt
Main Materials	Impeller Casing Shaft	Aluminium Alloy Casting (No. 2 ~ 3 ¹ / ₂), Steel (No. 4 ~ 12) Steel Carbon steel
Mounting	Mounting Discharge direction	Floor-mounting, Ceiling-mounting (Up to No. 3 ¹ / ₂) f-1 ~ f-6 (6 variations)
Accessories	Standard	Common base, V-pulley, V-belt, V-belt guard, Vibro-isolating rubber, Dual platform, Companion flange.
Electric Motor	Standard type	Open drip proof Insulation class E 4 pole

Selection chart



Dimensions



*Illustrations from f-1 to f-6 are shown on back cover. Unit: mm

No.	Output (kW)	A	B	C	*D			h ₁	h ₂	E	G	H	K	L	M	N	W ₁	W	Bearing Unit		Weight Mass kg		
					f-1	f-3	f-5												Pulley Side	Opposite side	Bare Fan	Common base	
2	0.75 ~ 5.5	350	210	330	320	270	400	65	65	250	167	256	200	1080	260	167	215	490	UCP306	CUCP204CE	60	15	
2½	0.75 ~ 5.5	420	260	415	320	330	400	65	65	300	210	316	250	1300	350	192	240	545	UCP306	CUCP204CE	80	20	
	UCP307																		CUCP205CE				
3	1.5 ~ 7.5	500	320	495	470	400	570	100	65	350	250	376	300	1400	430	242	210	480	UCP307	CUCP205CE	120	30	
	UCP308																		CUCP206CE				
3½	1.5 ~ 11	570	370	580	540	460	650	125	65	390	292	439	340	1490	430	267	235	540	UCP308	CUCP206CE	150	45	
	UCP309																		CUCP207CE				
4	2.2 ~ 15	635	420	660	610	520	730	125	65	450	333	499	385	1660	505	312	260	595	UCP309	CUCP207CE	215	50	
	UCP311																		CUCP208CE				
4½	18.5 ~ 22	710	480	745	680	580	810	125	65	500	375	559	425	1750	560	342	290	675	UCP310	CUCP208CE	270	60	
	UCP312																		CUCP209CE				
5	2.2 ~ 18.5	780	530	825	750	640	900	150	65	560	415	619	460	1920	620	367	330	750	UCP311	CUCP209CE	375	85	
	UCP314																		CUCP210CE				
5½	3.7 ~ 22	860	580	910	830	700	1000	150	65	620	456	679	500	2090	650	442	355	800	UCP312	CUCP210CE	440	95	
	UCP315																		CUCP211CE				
6	3.7 ~ 45	940	630	990	900	760	1090	150	65	680	498	739	550	2190	680	467	380	860	UCP313	CUCP211CE	520	100	
	UCP316																		CUCP212CE				
7	5.5 ~ 37	1050	740	1155	1030	870	1250	150	75	790	580	843	650	2400	780	490	445	1025	UCP316	CUCP213CE	615	185	
	UCP319																		CUCP213CE				
8	45 ~ 55	1200	840	1320	1170	990	1430	200	75	900	665	963	725	2700	1010	560	495	1155	UCP318	CUCP315CE	870	280	
	UCP322																		CUCP315CE				
9	55 ~ 90	1350	950	1485	1320	1110	1590	200	75	1000	745	1133	800	3150	1060	630	550	1265	UCP322	CUCP315CE	1200	320	
	UCP326																		CUCP318CE				
10	7.5 ~ 60	1500	1050	1650	1460	1230	1750	200	75	1120	830	1253	875	3300	1170	700	600	1425	UCP324	CUCP316CE	1470	350	
	Roller # 22224																		Ball # 6316				
11	11 ~ 60	1650	1160	1815	1600	1350	1920	200	75	1240	910	1373	950	3500	1230	770	655	1535	UCP324	CUCP316CE	1790	375	
	Roller # 22224																		Ball # 6316				
12	7.5 ~ 100	1800	1260	1980	1740	1470	2090	250	75	1350	995	1493	1050	3700	1350	840	705	1635	UCP328	CUCP318CE	2135	555	
	Roller # 22228																		Ball # 6318				
	90 ~ 110							300						3900						2195	655		

Note: Upper and lower casings can be separated with No. 9 through No. 12.

This weight is approximate and not includes motor weight.

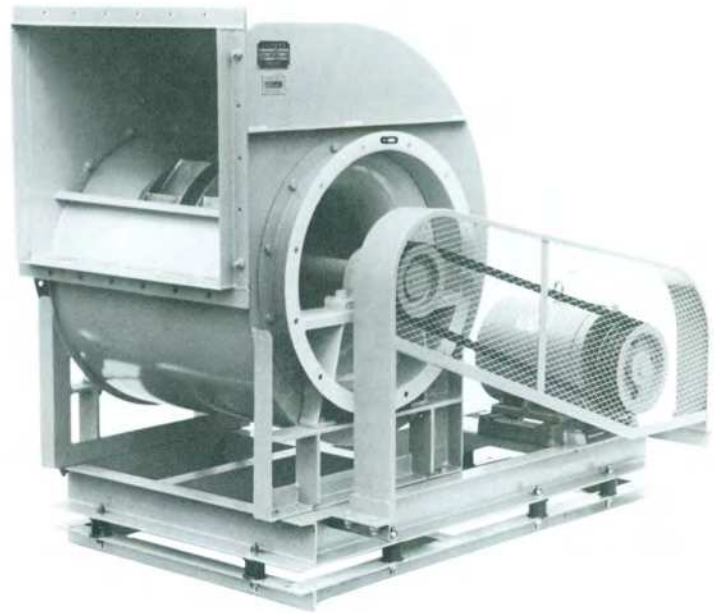
SRP30-D1-E8410

CENTRIFUGAL SERIES (backward curved)

MODEL DRP30 Double Suction THREE-ACE Fan.

■ Features

1. **Low noise:**
Extraordinary low noise levels are possible with Backward Curved type centrifugal fan blades.
2. **High efficiency:**
The same high efficiency as that of airfoil profile blade type fans is attained.
3. **Load limit performance:**
No possibility of overload in any service air flow range.
4. **Wide range:**
Fans are available in many series, with ranges of air flow at 30m³/min to 5,000m³/min and static pressures of 20mm H₂O to 200mm H₂O, which can cover any requirement.

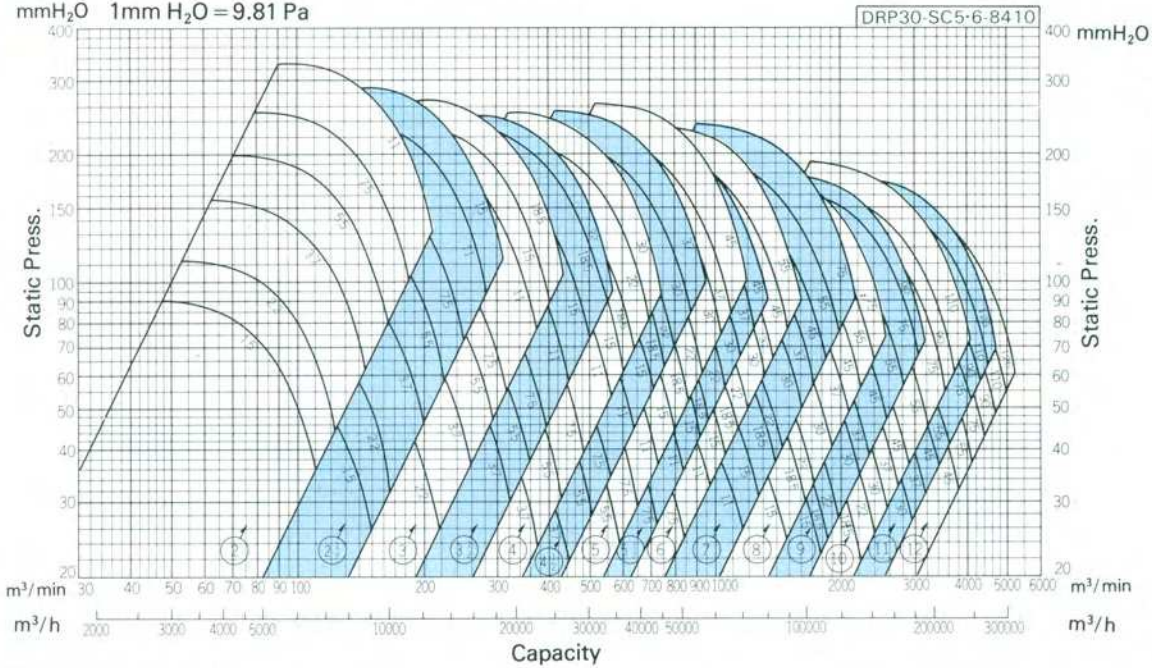


■ Specifications

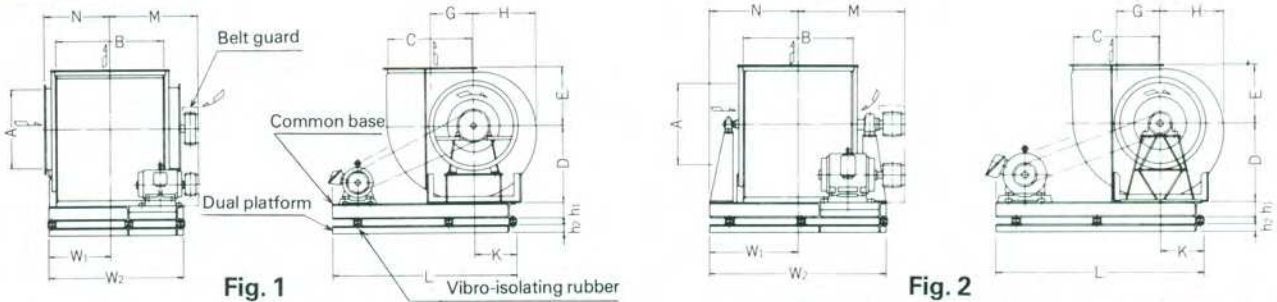
Gas Handled	Name Temperature Humidity Specific gravity	Air - 10°C ~ 40°C Max. 85% RH 1.2 kg/m ³ at 20°C
Structure	Impeller Casing Bearing Drive	Airfoil profile blade (No. 2 ~ 3 ¹ / ₂) Back ward curved vanes (No. 4 ~ 12) Double suction type scroll Ball bearing unit or Roller bearing V-belt
Main Materials	Impeller Casing Shaft	Aluminium Alloy Casting (No. 2 ~ 3 ¹ / ₂) Steel (No. 4 ~ 12) Steel Carbon steel
Mounting	Mounting Discharge direction	Floor mounting f-1 ~ f-6 (6 variations)
Accessories	Standard	Common base, V-pulley, V-belt, V-belt guard, Vibro-isolating rubber, Dual platform, Companion flange.
Electric Motor	Standard type	Open drip proof Insulation class E 4 pole

Selection chart

mmH₂O 1mm H₂O = 9.81 Pa



Dimensions



*Illustrations from f-1 to f-6 are shown on back cover. Unit: mm

No.	Output (kW)	Fig.	A	B	C	*D						Bearing Unit				Weight/Mass/kg							
						f-1 f-2	f-3 f-4	f-5 f-6	h ₁	h ₂	E	G	H	K	L	M	N	W ₁	W ₂	Pulley Side	Opposite side	Bare Fan	Common base
2	1.5 ~ 5.5	1	350	420	330	320	320	400	75	40	250	167	252	190	1070	400	271	250	550	UCP306	UCP204	90	30
	7.5 ~ 11	2	350	420	330	320	320	400	75	40	250	267	252	190	1100	505	395	395	795	EWP308T	UCP205	95	35
2 1/2	1.5 ~ 7.5	1	420	520	415	380	380	470	75	40	300	210	316	240	1170	445	321	300	665	UCP307	UCP205	115	35
	11 ~ 15	2	420	520	415	380	380	470	75	40	300	210	316	240	1250	610	460	460	930	EWP310T	UCP206	145	40
3	2.2 ~ 11	1	500	640	495	470	470	570	100	50	350	250	376	270	1280	550	401	370	790	UCP308	UCP206	170	50
	15 ~ 18.5	2	500	640	495	470	470	570	100	50	350	250	376	270	1400	685	550	550	1110	EWP310T	UCP206	200	60
3 1/2	3.7 ~ 15	1	570	740	580	540	540	650	125	65	390	292	439	315	1425	645	452	425	915	UCP309	UCP207	215	75
	18.5 ~ 22	2	570	740	580	540	540	650	125	65	390	292	439	315	1545	750	620	620	1240	EWP312T	UCP208	260	90
4	3.7 ~ 15	1	635	840	660	610	610	730	125	65	450	333	500	360	1550	695	522	475	1010	UCP310	UCP208	330	85
	18.5 ~ 30	2	635	840	660	610	610	730	125	65	450	333	500	360	1775	815	695	695	1390	EWP314T	UCP211	410	110
4 1/2	3.7 ~ 18.5	1	710	960	745	680	680	810	150	75	500	375	557	405	1735	830	582	540	1210	UCP311	UCP209	400	135
	22 ~ 37	2	710	960	745	680	680	810	150	75	500	475	557	405	1895	880	770	770	1540	EWP314T	UCP212	505	155
5	5.5 ~ 22	1	780	1060	825	750	750	900	150	75	560	415	620	405	1785	890	632	600	1310	UCP313	UCP210	610	145
	30 ~ 45	2	780	1060	825	750	750	900	150	75	560	415	620	405	1995	1030	855	855	1710	EWP316T	UCP212	770	170
5 1/2	7.5 ~ 30	1	860	1160	910	830	830	1000	150	75	620	456	680	430	1975	965	732	650	1405	UCP314	UCP211	800	155
	37 ~ 45	2	860	1160	910	830	830	1000	150	75	620	456	680	430	2120	1085	925	925	1850	EWP318T	UCP213	970	180
6	7.5 ~ 37	1	940	1260	990	900	900	1090	150	75	680	498	740	480	2150	1035	782	700	1505	UCP315	UCP212	1070	175
	45 ~ 55	2	940	1260	990	900	900	1090	150	75	680	498	740	480	2260	1160	1005	1005	2000	EWP320T	UCP213	1335	185
7	11 ~ 37	1	1050	1210	1370	1200	1000	1450	200	75	790	688	948	700	3000	1350	1240	1240	2310	Ball # 6316	UCP314	1680	385
	45 ~ 75	2	1050	1210	1370	1200	1000	1450	200	75	790	688	948	700	3300	1540	1230	1230	2340	Roller # 22220	Ball # 6314	1940	540
8	15 ~ 45	1	1200	1380	1560	1370	1140	1650	200	75	900	783	1084	800	3300	1510	1330	1330	2530	UCP316	UCP314	2290	425
	55 ~ 75	2	1200	1380	1560	1370	1140	1650	200	75	900	783	1084	800	3500	1640	1360	1360	2610	Roller # 22220	Ball # 6314	2460	590
9	15 ~ 45	1	1350	1520	1760	1540	1290	1860	200	75	1000	883	1219	1900	3000	1670	1515	1515	2855	UCP318	UCP316	2860	465
	55 ~ 90	2	1350	1520	1760	1540	1290	1860	200	75	1000	883	1219	1900	3700	1860	1530	1530	2920	Roller # 22224	Ball # 6316	3065	645
10	18.5 ~ 55	1	1500	1730	1950	1720	1430	2070	250	75	1120	979	1354	1000	3700	1830	1690	1690	3160	UCP318	UCP316	3590	685
	75 ~ 110	2	1500	1730	1950	1720	1430	2070	250	75	1120	979	1354	1000	3900	1990	1700	1700	3225	Roller # 22224	Ball # 6316	3770	765
11	30 ~ 55	1	1650	1900	2150	1855	1565	2270	250	75	1240	1078	1489	1100	4100	1940	1850	1850	3440	UCP320	UCP316	4200	750
	75 ~ 125	2	1650	1900	2150	1855	1565	2270	250	75	1240	1078	1489	1100	4300	2140	1860	1860	3520	Roller # 22228	Ball # 6320	4445	840
12	45 ~ 125	2	1800	2070	2340	2050	1700	2460	300	75	1350	1773	1624	1200	4450	2260	1980	1980	3760	Roller # 22228	Ball # 6320	5240	890

Note: Upper and lower casings can be separated with No. 7 through No. 12.

This weight is approximate and not includes motor weight.


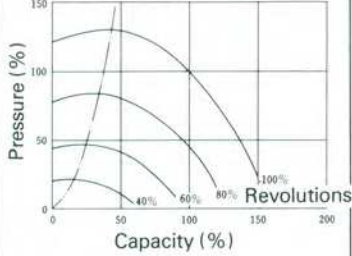

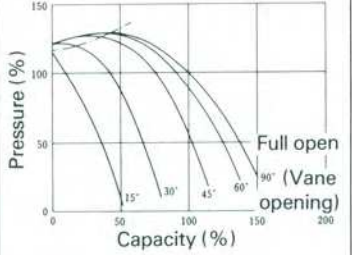

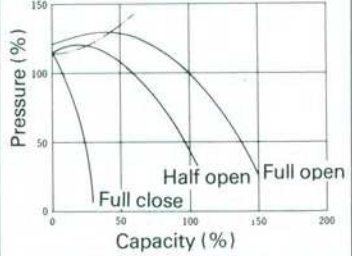

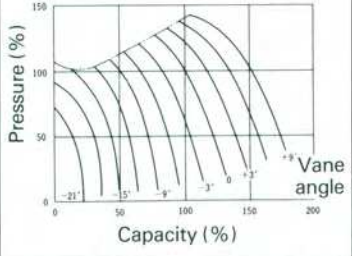
DRP30-D1-E8410

V.A.V. Fan (Variable Air Volume)

Thirty percent of the total electric power consumption for the building is necessary for air conditioning. From the consideration of energy saving, it is a key point to decrease consumption of power used for air conditioning equipment.

In compliance with air conditioning equipment loads which vary under such conditions as season or operating hours of the installation, it is necessary to control fan air flow efficiently and to decrease power consumption of the entire air conditioning system.

EBARA has developed various types of air flow control units such as high efficiency **THREE-ACE FANS**, **MULTI-ACE FANS** and has produced optimum energy saving systems for various services.

Control system		Control range (Air flow control range)	Optimum control range	Performance during controlling
Variable speed		20% Min. 100% Max.	Full range	
Inlet-vane		20% Full close 100% Full open	Full range Air flow range from 60% to 100% is best for controlling	
Scroll-Damper		40% Full close 100% Full open	Full range However, energy saving effect of controlling is not so large	
Variable pitch		20% Min. 120% Max.	Full range	

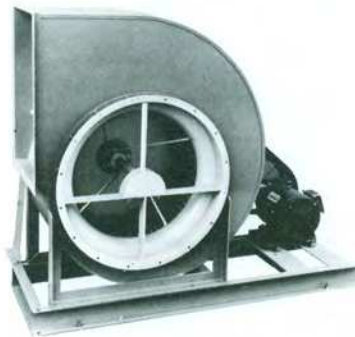
Fire Smoke Exhaust Fans for Emergency

Model AEMH (Axial-flow fan)
Motor-driven Type



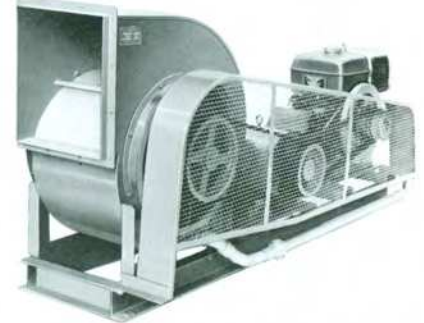
- Motor cooling unit allows continuous operation at high temperatures.
- Besides the feature of compact size, simple in construction is distinguished for heat resistance and hi-reliability.

Model SRMH, SRP3H (Centrifugal Fan)
Motor-driven Type



- Exhaust fan automatically starts with the signal from the smoke sensing device, and efficiently exhausts smoke allowing the people to evacuate the building.
- Special heat-resistant system incorporated allows continuous running at high temperature.

Engine/Motor Dual Driven Type



- Exhaust fan is normally driven by the motor with arrangement for automatic changeover to driving by the diesel engine in the event of a power failure.

Specifications

Type	Application Range		Model	Fan No.	Drive	Remarks
	Capacity (m ³ /min.)	Press (mm H ₂ O)				
Axial-flow Fan	120 ~ 1500	15 ~ 100	AEMH	No. 5 ~ 13	Motor Driven (Direct drive)	Vane Axial Flow Fan
Centrifugal Fan	120 ~ 1800	10 ~ 80	SRMH	No. 3 ~ 8	Motor Driven (V-belt drive) Engine/Motor Dual Driven (V-belt drive)	Forward Curved Multi-blades Fan
	120 ~ 2000	20 ~ 300	SRP3H	No. 3 ~ 10	Motor Driven (V-belt drive) Engine/Motor Dual Driven (V-belt drive)	Backward Curved Vane Fan

Heat resistance requirements for exhaust fan.

An exhaust fan should operate without trouble when exhaust temperature reaches 280°C and continues for more than thirty minutes.

Furthermore, when exhaust temperature is raised from 280°C to 560°C, it should operate without damage. when exhaust temperature is in excess of 560°C it should operate without extreme damage for more than 30 minutes.

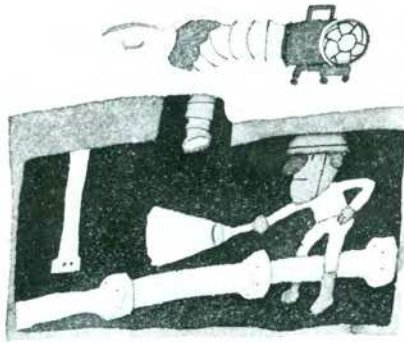
PORTABLE-ACE FAN

Model APM Portable-Ace Fan

Applications



Sump pit ventilation



Man hole ventilation



Always carry in emergency vehicle



Spray booth ventilation



Weld shop exhaust



General exhaust for floor cleaning and drying



General factory exhaust



Green house ventilation



Barn ventilation

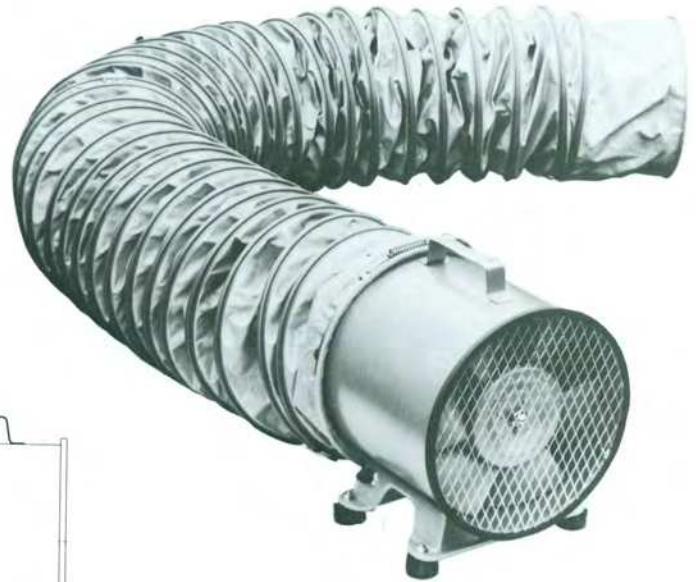
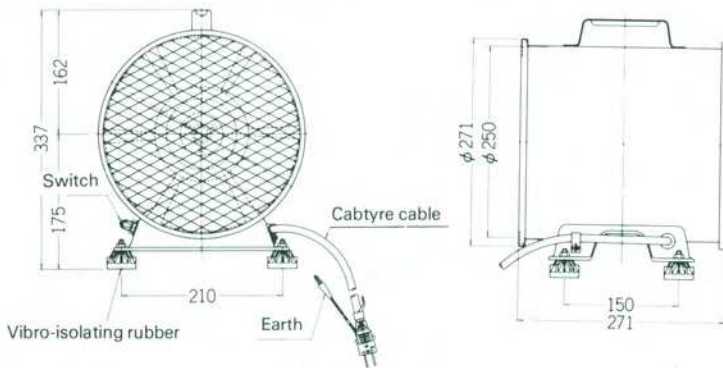
Specifications

Gas handled	Air - 10°C ~ 50°C	
Materials	Casing	Steel
	Impeller	Steel (Dia ϕ 250 mm)
Installation	Indoor, Outdoor	
Motor	Type	Totally enclosed
	Phase	Single phase
	Pole	2p (2800 min ⁻¹)
	Insulation	Class E
Weight	11.5 kg	

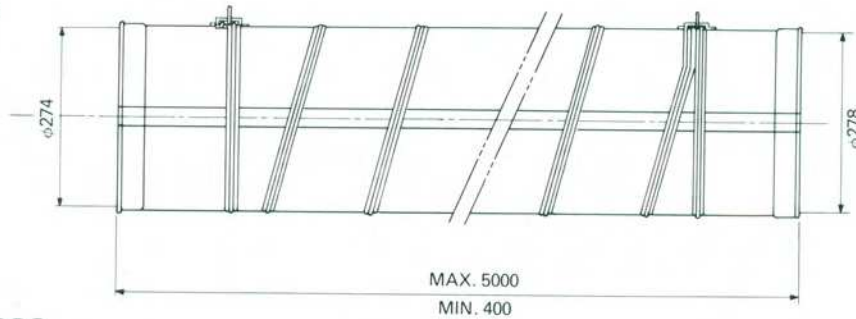
Optional Accessories:

- Spiral duct carrying case.
- Band.

Dimensions (Unit: mm)

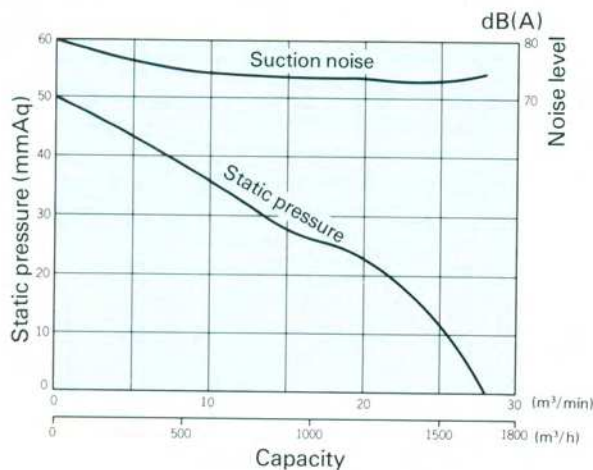


Spiral duct



Performance

1. Performance curves



2. Air volume

Spiral duct No. (length)	Discharge Air Volume		Discharge velocity m/s
	m ³ /min	m ³ /h	
0 (0m)	28	1,680	9.5
1 (5m)	25.5	1,530	8.7
2 (10m)	22.5	1,350	7.6
3 (15m)	20.5	1,230	7.0
4 (20m)	18.5	1,110	6.3
5 (25m)	17.0	1,020	5.8

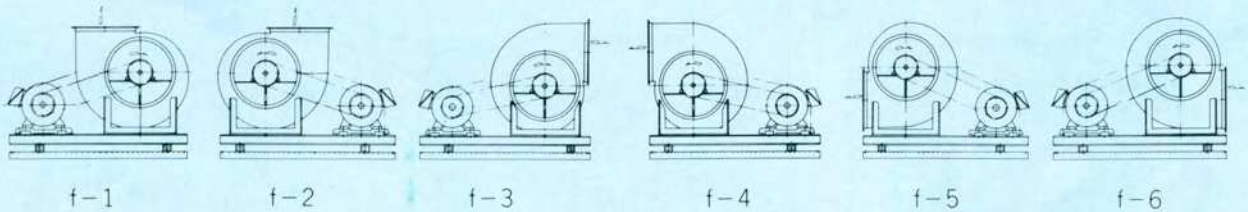
Note for your inquiries

Please give us the following information for the better quotation.

1. Purpose of service
2. Capacity: m^3/min . (Suction volume according to application)
3. Static pressure: mmH_2O
4. Gas handled: Temperature; Humidity; Nature of gas
5. Discharge direction: Select from illustrations below
6. Driving method: Belt drive or Direct drive
7. Motor: If so, specify voltage, number of poles, frequency and type.
8. Accessories: (The following is equipped if necessary) Common base; Vibro-isolating rubber; Dual platform; V belt; B belt guard.
9. Drain opening, Access door.

Discharge Direction

There are 6 variations as illustrated below.
(Illustrations are of fan as seen from drive side.)



*All specifications subject to change without notice.
In this catalog, the particulars in [] are in accordance with the International System of Units (SI) and given for reference only.

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