

PRODUCT GUIDE

SY35-SERIES

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EBM(Germany) FAN MOTOR & Double Drain Application

• Inner Grooved Copper Tube : Ø9.52 • Pipe Pitch : 27.5mm x 31.75mm

Capacity 50Hz

R404A / R507A / R448A

Model	Room Temp		F.P	Surface	TD & Capacity						Weight
					10℃		8℃		7℃		
	℃	mm			m'	kW	kcal/h	kW	kcal/h	kW	
SYU-SY35-020PE	H	0	4.5	13.8	4.53	3,894	3.19	2,745	2.48	2,131	26
	M	-8	6.0	10.6	3.48	2,995	2.45	2,111	1.91	1,639	25
	L	-25	8.0	8.2	2.70	2,326	1.91	1,639	1.48	1,273	24
SYU-SY35-030PE	H	0	4.5	20.7	6.79	5,841	4.79	4,117	3.72	3,197	30
	M	-8	6.0	15.9	5.22	4,492	3.68	3,166	2.86	2,458	29
	L	-25	8.0	12.4	4.06	3,488	2.86	2,459	2.22	1,909	28
SYU-SY35-040PE	H	0	4.5	26.4	8.68	7,464	6.12	5,261	4.75	4,085	43
	M	-8	6.0	20.3	6.67	5,740	4.70	4,045	3.65	3,141	40
	L	-25	8.0	15.8	5.18	4,458	3.65	3,142	2.84	2,440	40
SYU-SY35-050PE	H	0	4.5	33.0	10.85	9,330	7.65	6,576	5.94	5,106	46
	M	-8	6.0	25.4	8.34	7,175	5.88	5,057	4.57	3,927	44
	L	-25	8.0	19.7	6.48	5,572	4.57	3,927	3.55	3,050	43
SYU-SY35-080PE	H	0	4.5	39.6	13.02	11,196	9.18	7,891	7.12	6,127	50
	M	-8	6.0	30.5	10.01	8,610	7.06	6,068	5.48	4,712	47
	L	-25	8.0	23.7	7.77	6,686	5.48	4,713	4.26	3,659	47
SYU-SY35-100PE	H	0	4.5	58.6	19.24	16,550	13.56	11,665	10.53	9,058	70
	M	-8	6.0	45.1	14.80	12,727	10.43	8,970	8.10	6,966	66
	L	-25	8.0	35.0	11.49	9,884	8.10	6,966	6.29	5,410	65
SYU-SY35-120PE	H	0	4.5	64.6	21.23	18,254	14.96	12,866	11.62	9,990	83
	M	-8	6.0	49.7	16.32	14,037	11.50	9,894	8.93	7,683	79
	L	-25	8.0	38.6	12.68	10,902	8.93	7,684	6.94	5,967	78
SYU-SY35-150PE	H	0	4.5	77.6	25.47	21,905	17.95	15,439	13.94	11,989	90
	M	-8	6.0	59.6	19.59	16,845	13.81	11,872	10.72	9,219	84
	L	-25	8.0	46.3	15.21	13,082	10.72	9,220	8.33	7,160	

※ The specifications of this unit may be changed without notice for improvements in performance.)

※ Temperature switch (TC) attached to prevent overheating during defrost



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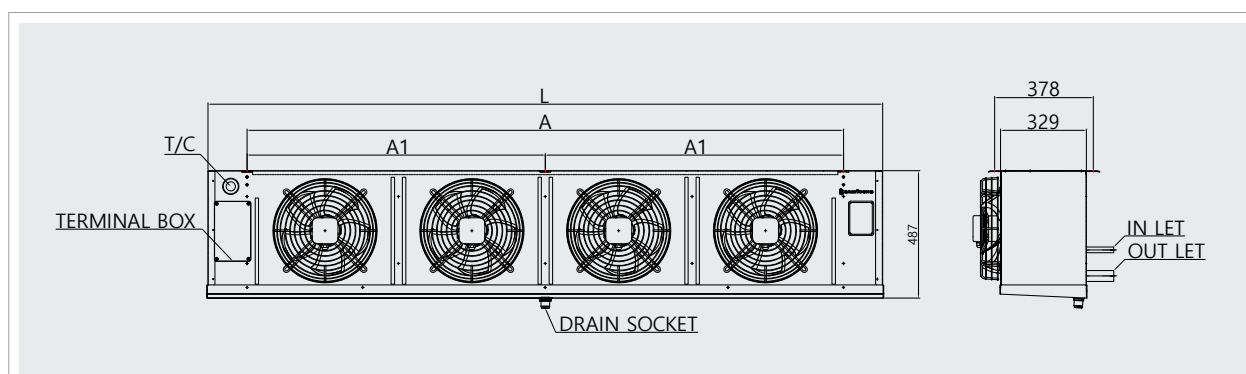
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Specifications

Model	Ventilator	Air Flow	Defrost (kW)			Connections (mmØ)			Dimensions		
			Coil	Drain	*Front	IN	OUT	Drain	L	A	A1
	Ø x W x N x EA	CMM								mm	
SYU-SY35-020PE	H	35									
	M	350 x 170 x 4 x 1	35	0.8 x 2	0.8 x 1	12.7	22.22	20A	935	635	
	L		35		0.8 x 1						
SYU-SY35-030PE	H	27									
	M	350 x 170 x 4 x 1	28	0.8 x 4	0.8 x 1	12.7	22.22	20A	935	635	
	L		28		0.8 x 1						
SYU-SY35-040PE	H	69									
	M	350 x 170 x 4 x 2	70	1.3 x 2	1.3 x 1	15.88	22.22	20A	1,485	1,185	
	L		70		1.3 x 1						
SYU-SY35-050PE	H	62									
	M	350 x 170 x 4 x 2	63	1.3 x 4	1.3 x 1	15.88	28.58	20A	1,485	1,185	
	L		64		1.3 x 1						
SYU-SY35-080PE	H	53									
	M	350 x 170 x 4 x 2	55	1.3 x 4	1.3 x 1	15.88	34.92	20A	1,485	1,185	
	L		56		1.3 x 1						
SYU-SY35-100PE	H	80									
	M	350 x 170 x 4 x 3	82	1.8 x 4	1.8 x 1	22.22	34.92	20A	2,035	1,735	
	L		84		1.8 x 1						
SYU-SY35-120PE	H	124									
	M	350 x 170 x 4 x 4	126	2.3 x 4	2.3 x 1	22.22	41.28	20A	2,585	2,285	1,142
	L		128		2.3 x 1						
SYU-SY35-150PE	H	106									
	M	350 x 170 x 4 x 4	110	2.3 x 4	2.3 x 1	22.22	41.28	20A	2,585	2,285	1,142
	L		112		2.3 x 1						

※ Electric power for fan motor : 1PH x 220V x 50Hz or 3PH x 220V / 380V x 50Hz

※ Fan shroud heater is applied at Room temperature -25°C



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• Inner Grooved Copper Tube : ø9.52 • Pipe Pitch : 27.5mm x 31.75mm

Capacity 50Hz

R404A / R507A / R448A

Model	Room Temp		F.P	Surface	TD & Capacity						Weight
					10°C		8°C		7°C		
	°C	mm			m	kW	kcal/h	kW	kcal/h	kW	
SYU-SY40-030PE	H	0	4.5	23.5	7.71	6,629	5.43	4,672	4.22	3,628	30
	M	-8	6.0	18.1	5.93	5,098	4.18	3,593	3.24	2,790	28
	L	-25	8.0	14.0	4.60	3,959	3.24	2,790	2.52	2,167	29
SYU-SY40-040PE	H	0	4.5	28.2	9.25	7,955	6.52	5,607	5.06	4,354	38
	M	-8	6.0	21.7	7.11	6,118	5.01	4,312	3.89	3,348	37
	L	-25	8.0	16.8	5.52	4,751	3.89	3,349	3.02	2,600	36
SYU-SY40-050PE	H	0	4.5	32.8	10.78	9,272	7.60	6,535	5.90	5,075	47
	M	-8	6.0	25.2	8.29	7,130	5.84	5,025	4.54	3,902	45
	L	-25	8.0	19.6	6.44	5,537	4.54	3,903	3.52	3,031	44
SYU-SY40-080PE	H	0	4.5	41.0	13.48	11,590	9.50	8,169	7.38	6,343	53
	M	-8	6.0	31.6	10.36	8,913	7.30	6,282	5.67	4,878	51
	L	-25	8.0	24.5	8.05	6,922	5.67	4,878	4.40	3,788	50
SYU-SY40-100PE	H	0	4.5	60.7	19.95	17,153	14.06	12,090	10.92	9,388	75
	M	-8	6.0	46.7	15.34	13,191	10.81	9,297	8.39	7,219	71
	L	-25	8.0	36.3	11.91	10,244	8.40	7,220	6.52	5,607	70
SYU-SY40-120PE	H	0	4.5	72.9	23.93	20,583	16.87	14,507	13.10	11,265	88
	M	-8	6.0	56.1	18.41	15,829	12.97	11,156	10.07	8,663	83
	L	-25	8.0	43.5	14.29	12,293	10.07	8,664	7.82	6,728	82
SYU-SY40-150PE	H	0	4.5	80.4	26.41	22,716	18.62	16,010	14.46	12,433	98
	M	-8	6.0	61.9	20.31	17,469	14.32	12,312	11.12	9,561	93
	L	-25	8.0	48.0	15.77	13,566	11.12	9,562	8.63	7,425	92
SYU-SY40-200PE	H	0	4.5	96.5	31.70	27,259	22.34	19,213	17.35	14,919	104
	M	-8	6.0	74.2	24.37	20,962	17.18	14,775	13.34	11,473	98
	L	-25	8.0	57.6	18.93	16,280	13.34	11,474	10.36	8,910	86

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※ Temperature switch (TC) attached to prevent overheating during defrost



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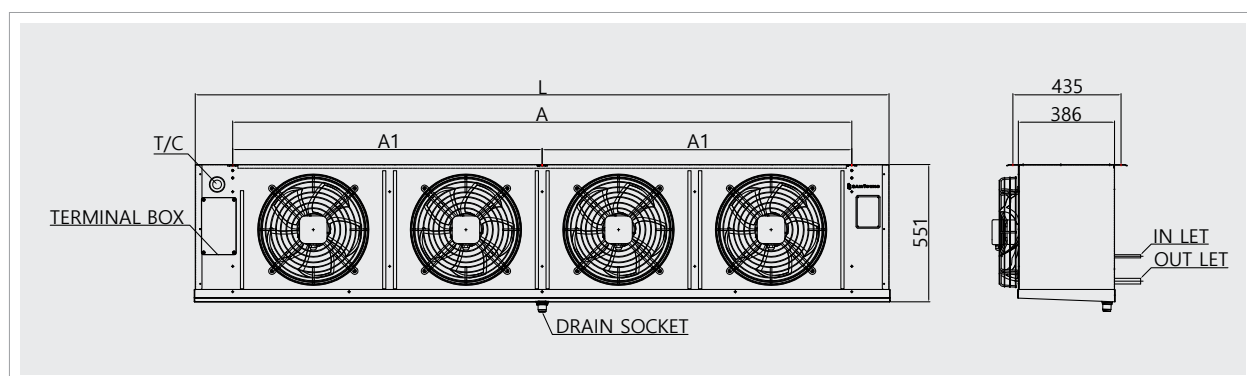
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Specifications

Model	Ventilator	Air Flow	Defrost (kW)			Connections (mmø)			Dimensions		
			Coil	Drain	*Front	IN	OUT	Drain	L	A	A1
	Ø x W x N x EA	CMM							mm		
SYU-SY40-030PE	H	56									
	M	56	0.8 x 4	0.8 x 1		12.7	22.22	20A	1,050	750	
	L	57			0.8 x 1						
SYU-SY40-040PE	H	53									
	M	54	0.8 x 4	0.8 x 1		15.88	22.22	20A	1,050	750	
	L	54			0.8 x 1						
SYU-SY40-050PE	H	112									
	M	113	1.3 x 2	1.3 x 1		15.88	28.58	20A	1,585	1,285	
	L	114			1.3 x 1						
SYU-SY40-080PE	H	105									
	M	107	1.3 x 4	1.3 x 1		15.88	34.92	20A	1,585	1,285	
	L	108			1.3 x 1						
SYU-SY40-100PE	H	158									
	M	160	2.0 x 4	2.0 x 1		22.22	34.92	20A	2,185	1,885	
	L	162			2.0 x 1						
SYU-SY40-120PE	H	148									
	M	150	2.0 x 4	2.0 x 1		22.22	41.28	20A	2,185	1,885	
	L	152			2.0 x 1						
SYU-SY40-150PE	H	211									
	M	213	2.5 x 4	2.5 x 1		22.22	41.28	20A	2,785	2,485	1,242
	L	215			2.5 x 1						
SYU-SY40-200PE	H	198									
	M	200	2.5 x 4	2.5 x 1		22.22	41.28	20A	2,785	2,485	1,242
	L	203			2.5 x 1						

※ Electric power for fan motor : 1PH x 220V x 50Hz or 3PH x 220V / 380V x 50Hz

※ Fan shroud heater is applied at Room temperature -25°C



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SY45-SERIES

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EBM(Germany) FAN MOTOR & Double Drain Application

• Inner Grooved Copper Tube : $\varnothing 12.7$ Pipe Pitch : 33mm x 38.1mm

Capacity 50Hz

R404A / R507A / R448A

Model	Room Temp		F.P	Surface	TD & Capacity						Weight
					10℃		8℃		7℃		
	℃	mm			m'	kW	kcal/h	kW	kcal/h	kW	
SYU-SY45-050PE	H	0	4.5	38.2	11.66	10,028	8.16	7,020	6.20	5,329	87
	M	-8	6.0	29.4	8.97	7,712	6.28	5,398	4.77	4,098	85
	L	-25	8.0	22.8	6.95	5,975	4.86	4,183	3.69	3,175	84
SYU-SY45-080PE	H	0	4.5	51.0	15.55	13,371	10.88	9,360	8.26	7,105	95
	M	-8	6.0	39.2	11.96	10,283	8.37	7,198	6.35	5,464	91
	L	-25	8.0	30.4	9.26	7,967	6.48	5,577	4.92	4,234	90
SYU-SY45-100PE	H	0	4.5	74.8	22.83	19,633	15.98	13,743	12.13	10,433	137
	M	-8	6.0	57.5	17.56	15,098	12.29	10,569	9.33	8,023	131
	L	-25	8.0	44.6	13.60	11,698	9.52	8,189	7.23	6,217	130
SYU-SY45-150PE	H	0	4.5	99.8	30.44	26,177	21.31	18,324	16.17	13,910	150
	M	-8	6.0	76.7	23.41	20,131	16.39	14,092	12.44	10,698	144
	L	-25	8.0	59.4	18.14	15,598	12.70	10,919	9.64	8,289	143
SYU-SY45-200PE	H	0	4.5	110.9	33.83	29,096	23.68	20,367	17.98	15,462	191
	M	-8	6.0	85.3	26.02	22,376	18.21	15,663	13.83	11,891	184
	L	-25	8.0	66.1	20.16	17,337	14.11	12,136	10.71	9,213	182
SYU-SY45-250PE	H	0	4.5	147.8	45.11	38,795	31.58	27,156	23.97	20,616	212
	M	-8	6.0	113.7	34.69	29,835	24.28	20,884	18.44	15,854	202
	L	-25	8.0	88.1	26.88	23,116	18.82	16,181	14.28	12,284	200
SYU-SY45-300PE	H	0	4.5	148.6	48.78	41,954	33.50	28,809	25.54	21,964	240
	M	-8	6.0	114.3	37.52	32,264	25.76	22,156	19.64	16,891	230
	L	-25	8.0	88.5	29.07	24,999	19.96	17,166	15.22	13,087	228
SYU-SY45-400PE	H	0	4.5	198.1	60.44	51,977	42.31	36,384	32.12	27,621	268
	M	-8	6.0	152.3	46.48	39,973	32.76	28,176	24.70	21,241	254
	L	-25	8.0	118.0	36.01	30,971	25.38	21,831	19.14	16,458	252

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※ Temperature switch (TC) attached to prevent overheating during defrost



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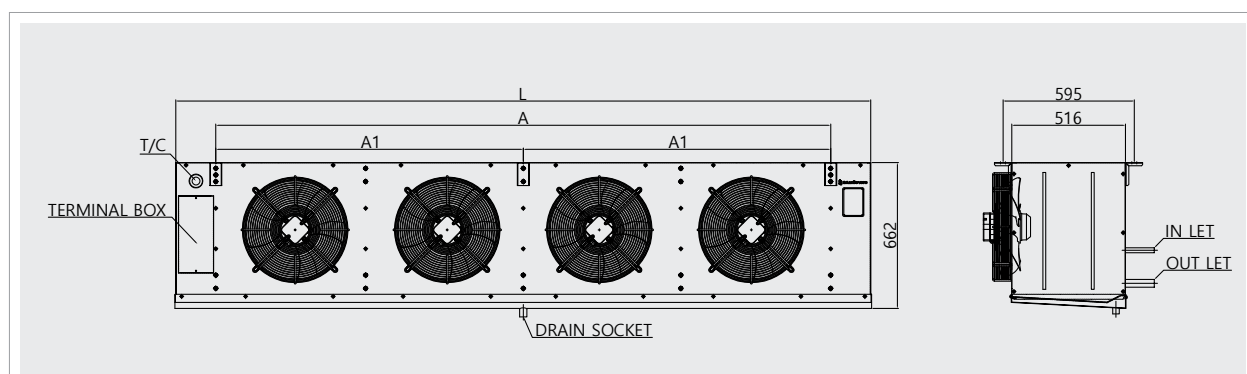
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Specifications

Model	Ventilator	Air Flow	Defrost (kW)			Connections (mmø)			Dimensions		
			Coil	Drain	*Front	IN	OUT	Drain	L	A	A1
	Ø x W x N x EA	CMM							mm		
SYU-SY45-050PE	H	76									
	M	450 x 340 x 4 x 1	76	1.0 x 6	0.6 x 2	15.88	28.58	20A	1,104	740	
	L	77			0.6 x 1						
SYU-SY45-080PE	H	69									
	M	450 x 340 x 4 x 1	70	1.0 x 6	0.6 x 2	15.88	34.92	20A	1,104	740	
	L	70			0.6 x 1						
SYU-SY45-100PE	H	151									
	M	450 x 340 x 4 x 2	152	1.8 x 6	1.1 x 2	22.22	34.92	20A	1,784	1,420	
	L	153			1.1 x 1						
SYU-SY45-150PE	H	138									
	M	450 x 340 x 4 x 2	140	1.8 x 6	1.1 x 2	22.22	41.28	20A	1,784	1,420	
	L	141			1.1 x 1						
SYU-SY45-200PE	H	227									
	M	450 x 340 x 4 x 3	228	2.5 x 6	1.5 x 2	22.22	41.28	20A	2,454	2,090	1,389
	L	230			1.5 x 1						
SYU-SY45-250PE	H	208									
	M	450 x 340 x 4 x 3	210	2.5 x 6	1.5 x 2	22.22	41.28	20A	2,454	2,090	1,389
	L	211			1.5 x 1						
SYU-SY45-300PE	H	303									
	M	450 x 340 x 4 x 4	305	3.2 x 6	1.9 x 2	22.22	53.98	20A	3,154	2,790	1,395
	L	307			1.9 x 1						
SYU-SY45-400PE	H	276							3,154		
	M	450 x 340 x 4 x 4	280	3.2 x 6	1.9 x 2	22.22	53.98	20A		2,790	1,395
	L	282			1.9 x 1						

※ Electric power for fan motor : 1PH x 220V x 50Hz or 3PH x 220V / 380V x 50Hz

※ Fan shroud heater is applied at Room temperature -25°C



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• Inner Grooved Copper Tube : $\varnothing 12.7$ Pipe Pitch : 33mm x 38.1mm

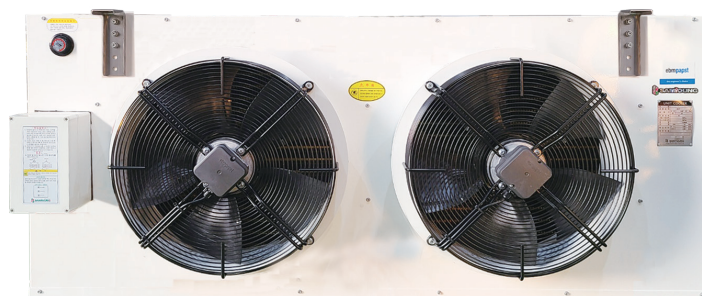
Capacity 50Hz

R404A / R507A / R448A

Model	Room Temp		F.P	Surface	TD & Capacity						Weight	
					10℃		8℃		7℃			
	℃	mm			m'	kW	kcal/h	kW	kcal/h	kW	kcal/h	kg
SYU-SY50-080PE	H	0	4.5	53.9	16.44	14,142	11.51	9,899	8.74	7,515	108	
	M	-8	6.0	41.4	12.65	10,876	8.85	7,613	6.72	5,779	105	
	L	-25	8.0	32.1	9.80	8,427	6.86	5,899	5.21	4,478	104	
SYU-SY50-100PE	H	0	4.5	71.9	21.93	18,856	15.35	13,199	11.65	10,020	119	
	M	-8	6.0	55.3	16.86	14,501	11.80	10,151	8.96	7,706	114	
	L	-25	8.0	42.8	13.06	11,236	9.15	7,865	6.94	5,971	113	
SYU-SY50-150PE	H	0	4.5	105.4	32.15	27,648	22.50	19,354	17.08	14,692	175	
	M	-8	6.0	81.0	24.72	21,263	17.31	14,884	13.14	11,299	168	
	L	-25	8.0	62.8	19.16	16,475	13.41	11,532	10.18	8,755	167	
SYU-SY50-200PE	H	0	4.5	140.5	42.87	36,864	30.01	25,805	22.78	19,590	195	
	M	-8	6.0	108.0	32.97	28,350	23.08	19,845	17.52	15,065	186	
	L	-25	8.0	83.7	25.54	21,966	17.88	15,376	13.57	11,673	184	
SYU-SY50-300PE	H	0	4.5	155.6	47.48	40,837	33.24	28,586	25.23	21,701	250	
	M	-8	6.0	119.7	36.52	31,405	25.56	21,984	19.41	16,689	238	
	L	-25	8.0	92.7	28.29	24,333	19.81	17,033	15.04	12,931	236	
SYU-SY50-400PE	H	0	4.5	207.5	63.31	54,449	44.32	38,114	33.64	28,934	278	
	M	-8	6.0	159.6	48.69	41,873	34.08	29,311	25.87	22,252	265	
	L	-25	8.0	123.6	37.73	32,444	26.41	22,711	20.05	17,241	261	
SYU-SY50-450PE	H	0	4.5	208.3	68.40	58,827	46.97	40,396	35.81	30,797	317	
	M	-8	6.0	160.2	52.61	45,240	36.12	31,066	27.54	23,684	302	
	L	-25	8.0	124.1	40.76	35,053	27.99	24,070	21.34	18,351	300	
SYU-SY50-500PE	H	0	4.5	277.7	84.75	72,881	59.32	51,017	45.03	38,729	356	
	M	-8	6.0	213.6	65.17	56,048	45.62	39,234	34.63	29,784	336	
	L	-25	8.0	165.5	50.50	43,427	35.35	30,399	26.83	23,077	333	

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Specifications

Model	Ventilator	Air Flow	Defrost (kW)			Connections (mmø)			Dimensions			
			Coil	Drain	*Fan	IN	OUT	Drain	L	A	A1	A2
	Ø x W x N x EA	CMM							mm			
SYU-SY50-080PE	H	115										
	M	500 x 690 x 4 x 1	116	1.2 x 6	0.8 x 2	15.88	34.92	20A	1,284	920		
	L	116			0.6 x 1							
SYU-SY50-100PE	H	106										
	M	500 x 690 x 4 x 1	107	1.2 x 6	0.8 x 2	22.22	34.92	20A	1,284	920		
	L	108			0.6 x 1							
SYU-SY50-150PE	H	230										
	M	500 x 690 x 4 x 2	232	2.2 x 6	1.3 x 2	22.22	41.28	20A	2,134	1,770		
	L	233			0.6 x 2							
SYU-SY50-200PE	H	212										
	M	500 x 690 x 4 x 2	214	2.2 x 6	1.3 x 2	22.22	41.28	20A	2,134	1,770		
	L	216			0.6 x 2							
SYU-SY50-300PE	H	345										
	M	500 x 690 x 4 x 3	349	3.1 x 6	1.8 x 2	22.22	53.98	20A	2,964	2,600	1,729	872
	L	349			0.6 x 3							
SYU-SY50-400PE	H	318										
	M	500 x 690 x 4 x 3	322	3.1 x 6	1.8 x 2	28.58	66.68	20A	2,964	2,600	1,729	872
	L	324			0.6 x 3							
SYU-SY50-450PE	H	461										
	M	500 x 690 x 4 x 4	465	3.9 x 6	2.4 x 2	28.58	66.68	20A	3,734	3,370	1,685	1,685
	L	466			0.6 x 4							
SYU-SY50-500PE	H	425										
	M	500 x 690 x 4 x 4	429	3.9 x 6	2.4 x 2	28.58	66.68	20A	3,734	3,370	1,685	1,685
	L	432			0.6 x 4							

※ Electric power for fan motor : 1PH x 220V x 50Hz or 3PH x 220V / 380V x 50Hz

※ Fan shroud heater is applied at Room temperature -25°C

