



Systems and components for industrial enclosures





FF Series fan filters

FF series with an easy-to-mount tool-less fixing system with clips, optimized for 1 to 3.7mm thick enclosures.

Model	Dimensions	Cut-out	Voltage	Frequency	Rated Power	Max Air Flow	Rated Temp. Range	Approvals
	(mm)	(mm)	(V)	(Hz)	(W)	(m³/h)**	(°C)	
FF08U	106.5x106.5	91.5x91.5	-	-	-	-	-10 ÷ +60	CE; cURus; cCSAus;
FF12U	150x150	124x124	-	-	-	-	-10 ÷ +60	CE; cURus; cCSAus;
FF13U	203.9x203.9	177x177	-	-	-	-	-10 ÷ +60	CE; cURus; cCSAus;
FF15U	250x250	223x223	-	-	-	-	-10 ÷ +60	CE; cURus; cCSAus;
FF20U	325x325	291x291	-	-	-	-	-10 ÷ +60	CE; cURus; cCSAus;
FF08A115UN	106.5x106.5	91.5x91.5	115 V a.c.	50/60	9.0/7.0	12/15	-10 ÷ +55	CE; cURus; cCSAus;
FF08A115UNR	106.5x106.5	91.5x91.5	115 V a.c.	50/60	9.0/7.5	16/21	-10 ÷ +55	CE; cURus; cCSAus;
FF08A230UN	106.5x106.5	91.5x91.5	230 V a.c.	50/60	10/8.0	12/15	-10 ÷ +55	CE; cURus; cCSAus;
FF08A230UNR	106.5x106.5	91.5x91.5	230 V a.c.	50/60	10/8.0	16/21	-10 ÷ +55	CE; cURus; cCSAus;
FF08D12UN	106.5x106.5	91.5x91.5	12 V d.c.	-	2.0	16	-10 ÷ +55	CE; cURus; cCSAus;
FF08D12UNR	106.5x106.5	91.5x91.5	12 V d.c.	-	2.2	23	-10 ÷ +55	CE; cURus; cCSAus;
FF08D24UN	106.5x106.5	91.5x91.5	24 V d.c.	-	2.0	16	-10 ÷ +55	CE; cURus; cCSAus;
FF08D24UNR	106.5x106.5	91.5x91.5	24 V d.c.	-	2.2	23	-10 ÷ +55	CE; cURus; cCSAus;
FF08GA115UF	106.5x106.5	92.5x92.5	115 V a.c.	50/60	12/10	22/26	-10 ÷ +55	CE; cURus; cCSAus;
FF08GA115UNR	106.5x106.5	92.5x92.5	115 V a.c.	50/60	12/9.0	16/20	-10 ÷ +55	CE; cURus; cCSAus;
FF08GA230UF	106.5x106.5	92.5x92.5	230 V a.c.	50/60	12/11	22/26	-10 ÷ +55	CE; cURus; cCSAus;
FF08GA230UNR	106.5x106.5	92.5x92.5	230 V a.c.	50/60	12/10	16/20	-10 ÷ +55	CE; cURus; cCSAus;
FF08GD24UN	106.5x106.5	92.5x92.5	24 V d.c.	-	15	50	-10 ÷ +55	CE; cURus; cCSAus;
FF08GD24UNR	106.5x106.5	92.5x92.5	24 V d.c.	-	17	60	-10 ÷ +55	CE; cURus; cCSAus;
FF12A115UF	150x150	124x124	115 V a.c.	50/60	16/15	45/50	-10 ÷ +55	CE; cURus; cCSAus;
FF12A115UFR	150x150	124x124	115 V a.c.	50/60	16/15	47/52	-10 ÷ +55	CE; cURus; cCSAus;
FF12A115UN	150x150	124x124	115 V a.c.	50/60	19/17	67/79	-10 ÷ +55	CE; cURus; cCSAus;
FF12A115UNR	150x150	124x124	115 V a.c.	50/60	19/17	60/70	-10 ÷ +55	CE; cURus; cCSAus;
FF12A230UF	150x150	124x124	230 V a.c.	50/60	18/17	45/50	-10 ÷ +55	CE; cURus; cCSAus;
FF12A230UFR	150x150	124x124	230 V a.c.	50/60	18/17	47/52	-10 ÷ +55	CE; cURus; cCSAus;
FF12A230UN	150x150	124x124	230 V a.c.	50/60	18/16	67/79	-10 ÷ +55	CE; cURus; cCSAus;
FF12A230UNR	150x150	124x124	230 V a.c.	50/60	18/16	60/70	-10 ÷ +55	CE; cURus; cCSAus;
FF12A24UF	150x150	124x124	24 V a.c.	50/60	15/15	39/44	-10 ÷ +60	CE;
FF12A24UFR	150x150	124x124	24 V a.c.	50/60	15/15	50/52	-10 ÷ +60	CE;
FF12D24UN	150x150	124x124	24 V d.c.	-	7.4	47	-10 ÷ +55	CE; UR; cCSAus;
FF12D24UNR	150x150	124x124	24 V d.c.	-	7.4	64	-10 ÷ +55	CE; UR; cCSAus;
FF12D48UN	150x150	124x124	48 V d.c.	-	8.6	47	-10 ÷ +55	CE; UR; cCSAus;
FF12D48UNR	150x150	124x124	48 V d.c.	-	8.6	64	-10 ÷ +55	CE; UR; cCSAus;
FF13PA115UF	203.9x203.9	177x177	115 V a.c.	50/60	19/18	100/110	-10 ÷ +55	CE; cURus; cCSAus;
FF13PA115UFR	203.9x203.9	177x177	115 V a.c.	50/60	18/18	100/110	-10 ÷ +55	CE; cURus; cCSAus;
FF13PA115UN	203.9x203.9	177x177	115 V a.c.	50/60	16/15	110/130	-10 ÷ +55	CE; cURus; cCSAus;
FF13PA115UNR	203.9x203.9	177x177	115 V a.c.	50/60	20/18	110/135	-10 ÷ +55	CE; cURus; cCSAus;
FF13PA230UF	203.9x203.9	177x177	230 V a.c.	50/60	18/18	100/110	-10 ÷ +55	CE; cURus; cCSAus;
FF13PA230UFR	203.9x203.9	177x177	230 V a.c.	50/60	18/18	100/110	-10 ÷ +55	CE; cURus; cCSAus;
FF13PA230UN	203.9x203.9	177x177	230 V a.c.	50/60	19/17	110/130	-10 ÷ +55	CE; cURus; cCSAus;
FF13PA230UNR	203.9x203.9	177x177	230 V a.c.	50/60	19/18	110/135	-10 ÷ +55	CE; cURus; cCSAus;
FF13PD24UN	203.9x203.9	177x177	24 V d.c.	-	8.2	100	-10 ÷ +55	CE; UR; cCSAus;
FF13PD24UN5	203.9x203.9	177x177	24 V d.c.	-	8.2	85	-10 ÷ +55	CE; UR; cCSAus;
FF13PD24UNR	203.9x203.9	177x177	24 V d.c.	-	8.5	120	-10 ÷ +55	CE; UR; cCSAus;

(**) data with uncertainty of ±15% ■ IP44

IP55 version is available, on request, for all FF, FPF and GF series fan filters

Model	Dimensions	Cut-out	Voltage	Frequency	Rated Power	Max Air Flow	Rated Temp. Range	Approvals
	(mm)	(mm)	(V)	(Hz)	(W)	(m³/h)**	(°C)	
FF15A115UF	250x250	223x223	115 V a.c.	50/60	31/31	230/270	-10 ÷ +55	CE; cURus; cCSAus;
FF15A115UFR	250x250	223x223	115 V a.c.	50/60	31/31	245/290	-10 ÷ +55	CE; cURus; cCSAus;
FF15A115UN2	250x250	223x223	115 V a.c.	50/60	39/41	230/272	-10 ÷ +55	CE; cURus; cCSAus;
FF15A115UNR2	250x250	223x223	115 V a.c.	50/60	39/41	238/283	-10 ÷ +55	CE; cURus; cCSAus;
FF15A230UF	250x250	223x223	230 V a.c.	50/60	32/36	230/270	-10 ÷ +55	CE; cURus; cCSAus;
FF15A230UFR	250x250	223x223	230 V a.c.	50/60	32/36	245/290	-10 ÷ +55	CE; cURus; cCSAus;
FF15A230UN2	250x250	223x223	230 V a.c.	50/60	42/45	230/272	-10 ÷ +55	CE; cURus; cCSAus;
FF15A230UNR2	250x250	223x223	230 V a.c.	50/60	42/45	238/283	-10 ÷ +55	CE; cURus; cCSAus;
FF15D24UF	250x250	223x223	24 V d.c.	-	31	275	-10 ÷ +55	CE; cURus; cCSAus;
FF15D24UFR	250x250	223x223	24 V d.c.	-	31	295	-10 ÷ +55	CE; cURus; cCSAus;
FF15D24UN	250x250	223x223	24 V d.c.	-	17	225	-10 ÷ +55	CE; UR; cCSAus;
FF15D24UNR	250x250	223x223	24 V d.c.	-	17	255	-10 ÷ +55	CE; UR; cCSAus;
FF15D48UF	250x250	223x223	48 V d.c.	-	43	295	-10 ÷ +55	CE;
FF15D48UFR	250x250	223x223	48 V d.c.	-	43	310	-10 ÷ +55	CE;
FF15D48UN	250x250	223x223	48 V d.c.	-	16	225	-10 ÷ +55	CE; UR; cCSAus;
FF15D48UNR	250x250	223x223	48 V d.c.	-	16	255	-10 ÷ +55	CE; UR; cCSAus;
FF15MA115UF	250x250	223x223	115 V a.c.	50/60	16/15	130/145	-10 ÷ +70	CE;
FF15MA115UFR	250x250	223x223	115 V a.c.	50/60	16/15	140/155	-10 ÷ +70	CE;
FF15MA230UF	250x250	223x223	230 V a.c.	50/60	21/20	130/145	-10 ÷ +70	CE;
FF15MA230UFR	250x250	223x223	230 V a.c.	50/60	21/20	140/155	-10 ÷ +70	CE;
FF15PA115UF	250x250	223x223	115 V a.c.	50/60	17/16	105/120	-10 ÷ +55	CE; cURus; cCSAus;
FF15PA115UFR	250x250	223x223	115 V a.c.	50/60	17/16	110/120	-10 ÷ +55	CE; cURus; cCSAus;
FF15PA115UN	250x250	223x223	115 V a.c.	50/60	20/19	125/145	-10 ÷ +55	CE; cURus; cCSAus;
FF15PA115UNR	250x250	223x223	115 V a.c.	50/60	20/19	130/150	-10 ÷ +55	CE; cURus; cCSAus;
FF15PA230UF	250x250	223x223	230 V a.c.	50/60	18/17	105/120	-10 ÷ +55	CE; cURus; cCSAus;
FF15PA230UFR	250x250	223x223	230 V a.c.	50/60	18/17	110/120	-10 ÷ +55	CE; cURus; cCSAus;
FF15PA230UN	250x250	223x223	230 V a.c.	50/60	19/17	125/145	-10 ÷ +55	CE; cURus; cCSAus;
FF15PA230UNR	250x250	223x223	230 V a.c.	50/60	19/18	130/150	-10 ÷ +55	CE; cURus; cCSAus;
FF15PD24UN	250x250	223x223	24 V d.c.	-	7.6	140	-10 ÷ +55	CE; UR; cCSAus;
FF15PD24UNR	250x250	223x223	24 V d.c.	-	7.6	150	-10 ÷ +55	CE; UR; cCSAus;
FF15PD48UN	250x250	223x223	48 V d.c.	-	8.6	140	-10 ÷ +55	CE; UR; cCSAus;
FF15PD48UNR	250x250	223x223	48 V d.c.	-	8.6	150	-10 ÷ +55	CE; UR; cCSAus;
FF20A115UE	325x325	291x291	115 V a.c.	50/60	60/74	520/580	-10 ÷ +70	CE;
FF20A115UE1	325x325	291x291	115 V a.c.	50/60	74/83	520/580	-10 ÷ +55	CE; cURus; cCSAus;
FF20A115UER	325x325	291x291	115 V a.c.	50/60	64/73	550/610	-10 ÷ +70	CE;
FF20A115UER1	325x325	291x291	115 V a.c.	50/60	74/83	550/610	-10 ÷ +55	CE; cURus; cCSAus;
FF20A230UE	325x325	291x291	230 V a.c.	50/60	73/87	520/580	-10 ÷ +70	CE;
FF20A230UE1	325x325	291x291	230 V a.c.	50/60	70/85	520/580	-10 ÷ +55	CE; cURus; cCSAus;
FF20A230UER	325x325	291x291	230 V a.c.	50/60	74/86	550/610	-10 ÷ +70	CE;
FF20A230UER1	325x325	291x291	230 V a.c.	50/60	70/85	550/610	-10 ÷ +55	CE; cURus; cCSAus;
FF20A400TUE	325x325	291x291	400 3N ~	50/60	94/115	540/n.a.	-10 ÷ +70	CE;
FF20GA115UE	325x325	291x291	115 V a.c.	50/60	124/146	705/755	-10 ÷ +60	CE;
FF20GA115UE1	325x325	291x291	115 V a.c.	50/60	124/146	630/660	-10 ÷ +55	CE; cURus; cCSAus;
FF20GA115UEA	325x325	291x291	115 V a.c.	50/60	170/220	820/930	-10 ÷ +60	CE;

(**) données avec marge d'erreur de +/- 15%

Model	Dimensions	Cut-out	Voltage	Frequency	Rated Power	Max Air Flow	Rated Temp. Range	Approvals
	(mm)	(mm)	(V)	(Hz)	(W)	(m³/h)**	(°C)	
FF20GA115UEA1	325x325	291x291	115 V a.c.	50/60	124/146	825/945	-10 ÷ +55	CE; cURus; cCSAus;
FF20GA115UER	325x325	291x291	115 V a.c.	50/60	175/225	730/830	-10 ÷ +60	CE;
FF20GA115UER1	325x325	291x291	115 V a.c.	50/60	125/171	740/840	-10 ÷ +55	CE; cURus; cCSAus;
FF20GA115UERA	325x325	291x291	115 V a.c.	50/60	175/225	800/905	-10 ÷ +60	CE;
FF20GA115UERA1	325x325	291x291	115 V a.c.	50/60	125/171	795/920	-10 ÷ +55	CE; cURus; cCSAus;
FF20GA230UE	325x325	291x291	230 V a.c.	50/60	155/190	730/820	-10 ÷ +60	CE;
FF20GA230UE1	325x325	291x291	230 V a.c.	50/60	120/158	670/760	-10 ÷ +55	CE; cURus; cCSAus;
FF20GA230UEA	325x325	291x291	230 V a.c.	50/60	164/195	936/1020	-10 ÷ +60	CE;
FF20GA230UEA1	325x325	291x291	230 V a.c.	50/60	120/158	825/945	-10 ÷ +55	CE; cURus; cCSAus;
FF20GA230UER	325x325	291x291	230 V a.c.	50/60	165/205	730/830	-10 ÷ +60	CE;
FF20GA230UER1	325x325	291x291	230 V a.c.	50/60	120/157	720/820	-10 ÷ +55	CE; cURus; cCSAus;
FF20GA230UERA	325x325	291x291	230 V a.c.	50/60	165/205	800/905	-10 ÷ +60	CE;
FF20GA230UERA1	325x325	291x291	230 V a.c.	50/60	120/157	795/920	-10 ÷ +55	CE; cURus; cCSAus;
FF20GEA400TUE	325x325	291x291	400 3N ~	50/60	160/n.a	515/n.a.	-10 ÷ +55	CE;

(**)) data with uncertainty of ±15%

FF Series, EMC version

Model	Dimensions	Cut-out	Voltage	Frequency	Rated Power	Max Air Flow	Rated Temp. Range	Approvals
	(mm)	(mm)	(V)	(Hz)	(W)	(m³/h)**	(°C)	
FF08UC	106.5x106.5	91,5x91,5					-10 ÷ +60	CE; cURus; cCSAus;
FF12A230UFC	150x150	124x124	230 V a.c.	50/60	18/17	45/50	-10 ÷ +55	CE; cURus; cCSAus;
FF12UC	150x150	124x124					-10 ÷ +60	CE; cURus; cCSAus;
FF13PD24UNC	203.9x203.9	177x177	24 V d.c.		8.2	100	-10 ÷ +55	CE; UR; cCSAus;
FF13UC	203.9x203.9	177x177					-10 ÷ +60	CE; cURus; cCSAus;
FF15A230UFC	250x250	223x223	230 V a.c.	50/60	32/36	230/270	-10 ÷ +55	CE; cURus; cCSAus;
FF15PA230UFC	250x250	223x223	230 V a.c.	50/60	18/17	105/120	-10 ÷ +55	CE; cURus; cCSAus;
FF15UC	250x250	223x223					-10 ÷ +60	CE; cURus; cCSAus;
FF20A230UEC	325x325	291x291	230 V a.c.	50/60	73/87	520/580	-10 ÷ +70	CE
FF20UC	325x325	291x291					-10 ÷ +60	CE; cURus; cCSAus;

(**) data with uncertainty of ±15%

Other models on request.



virdis

Orientable Fan

Model	Dimensions	Voltage	Frequency	Rated Power	Max Air Flow	Rated Temp. Range	Approvals
	(mm)	(V)	(Hz)	(W)	(m³/h)	(°C)	
OF-A12B23SWBAQ130	119X119X38	230 V a.c.	50/60	21/21	163/182	-10 ÷ +70	CE



FPF Series fan filters

FPF series in a wide choice of filter sizes with and without fan. Also available optionally in Type 3R, IP55 and EMC-shielded versions.

Model	Dimensions	Cut-out	Voltage	Frequency	Rated Power	Max Air Flow	Rated Temp. Range	Approvals
	mm	mm	(V)	(Hz)	(W)	(m³/h)**	(°C)	
FPF08K*G-101	105x105	91,5x91,5	-	-	-	-	-10 ~ +60	CE cURus
FPF08K*115B(R)-110	105x105	91,5x91,5	115 Va.c.	50/60	9/7	23/30	-10 ~ +50	CE cURus
FPF08K*230B(R)-110	105x105	91,5x91,5	230 Va.c.	50/60	10/8	23/30	-10 ~ +50	CE cURus
FPF08K*D24B(R)-110	105x105	91,5x91,5	24 Vd.c.	-	3.6	28	-10 ~ +50	CE cURus
FPF12K*G-100	150x150	124x124	-	-	-	-	-10 ~ +60	CE cURus
FPF12K*24BE(R)-110	150x150	124x124	24 Va.c.	50/60	15/16	57/61	-10 ~ +50	CE ■
FPF12K*115BE(R)-110	150x150	124x124	115 Va.c.	50/60	20/18	57/61	-10 ~ +50	CE cURus
FPF12K*230BE(R)-110	150x150	124x124	230 Va.c.	50/60	20/19	57/61	-10 ~ +50	CE cURus
FPF12K*D24B(R)-110	150x150	124x124	24 Vd.c.	-	9.6	60	-10 ~ +50	CE cURus
FPF12K*D48B(R)-110	150x150	124x124	48 Vd.c.	-	7.7	60	-10 ~ +55	CE ■
FPF13K*G-100	204x204	177x177	-	-	-	-	-10 ~ +60	CE cURus
FPF13KP*115BE(R)-110	204x204	177x177	115 Va.c.	50/60	20/18	110/120	-10 ~ +50	CE cURus
FPF13KP*230BE(R)-110	204x204	177x177	230 Va.c.	50/60	20/19	110/120	-10 ~ +50	CE cURus
FPF13KP*D24B(R)-110	204x204	177x177	24 Vd.c.	-	9.6	120	-10 ~ +50	CE cURus
FPF13K*115BE(R)-110	204x204	177x177	115 Va.c.	50/60	17/15	120/135	-10 ~ +50	CE cURus
FPF13K*230BE(R)-110	204x204	177x177	230 Va.c.	50/60	17/15	120/135	-10 ~ +50	CE cURus
FPF15K*G-100	250x250	223x223	-	-	-	-	-10 ~ +60	CE cURus
FPF15KP*115BE(R)-110	250x250	223x223	115 Va.c.	50/60	20/18	115/125	-10 ~ +50	CE cURus
FPF15KP*230BE(R)-110	250x250	223x223	230 Va.c.	50/60	20/19	115/125	-10 ~ +50	CE cURus
FPF15KP*D12B(R)-110	250x250	223x223	12 Vd.c.	-	6.6	120	-10 ~ +50	CE ■
FPF15KP*D24B(R)-110	250x250	223x223	24 Vd.c.	-	9.6	145	-10 ~ +50	CE cURus
FPF15KP*D48B(R)-110	250x250	223x223	48 Vd.c.	-	7.7	145	-10 ~ +55	CE ■
FPF15KM*115BE(R)-110	250x250	223x223	115 Va.c.	50/60	17/15	130/150	-10 ~ +50	CE cURus
FPF15KM*230BE(R)-110	250x250	223x223	230 Va.c.	50/60	17/15	130/150	-10 ~ +50	CE cURus
FPF15K*115BE(R)-110	250x250	223x223	115 Va.c.	50/60	30/30	240/270	-10 ~ +50	CE cURus
FPF15K*230BE(R)-110	250x250	223x223	230 Va.c.	50/60	29/29	240/270	-10 ~ +50	CE cURus
FPF15K*D24B(R)-110	250x250	223x223	24 Vd.c.	-	22.8	250	-10 ~ +50	CE cURus
FPF15K*D48B(R)-110	250x250	223x223	48 Vd.c.	-	17.8	250	-10 ~ +55	CE ■
FPF15KG*115BE(R)-120	250x250	223x223	115 Va.c.	50/60	50/64	360/400	-10 ~ +55	CE ►
FPF15KG*230BE(R)-120	250x250	223x223	230 Va.c.	50/60	67/87	360/400	-10 ~ +50	CE ►
FPF15KG*400TBE(R)-120	250x250	223x223	400 3~	50/60	71/93	360/400	-10 ~ +55	CE ►
FPF15KG*D24BE(R)-120	250x250	223x223	24 Vd.c.	-	59	470	-10 ~ +55	CE ►
FPF15KG*D48BE(R)-120	250x250	223x223	48 Vd.c.	-	59	470	-10 ~ +55	CE ►
FPF20K*G-100	325x325	291x291	-	-	-	-	-10 ~ +60	CE cURus
FPF20K*115BE(R)-120	325x325	291x291	115 Va.c.	50/60	50/64	520/580	-10 ~ +55	CE ►
FPF20K*230BE(R)-120	325x325	291x291	230 Va.c.	50/60	67/87	520/580	-10 ~ +50	CE ►
FPF20K*400TBE(R)-120	325x325	291x291	400 3~	50/60	71/93	520/580	-10 ~ +55	CE ■
FPF20K*D24BE(R)-120	325x325	291x291	24 Vd.c.	-	59	610	-10 ~ +55	CE ■
FPF20K*D48BE(R)-120	325x325	291x291	48 Vd.c.	-	59	610	-10 ~ +55	CE ■
FPF20KG*115BE(R)-120	325x325	291x291	115 Va.c.	50/60	107/143	660/745	-10 ~ +55	CE ►
FPF20KG*230BE(R)-120	325x325	291x291	230 Va.c.	50/60	114/158	660/745	-10 ~ +55	CE ►
FPF20KG*400TBE(R)-120	325x325	291x291	400 3~	50/60	105/105	650/730	-10 ~ +55	CE ■
FPF20KG*115B(R)-110	325x325	291x291	115 Va.c.	50/60	120/135	650/730	-10 ~ +55	CE ►
FPF20KG*230B(R)-110	325x325	291x291	230 Va.c.	50/60	140/185	650/730	-10 ~ +55	CE ►
FPF20KG*400TB(R)-110	325x325	291x291	400 3~	50/60	93/123	650/730	-10 ~ +55	CE ■

(*) may be R for color RAL 7032 or U for color RAL 7035 (***) data with uncertainty of ±15%

■ UL not available ► UL approval is on request



GF Series fan filters

GF series for thick wall applications in both plastic and plate enclosures, thanks to its revolutionary mounting system with jacks.

Model	Dimensions	Cut-out	Voltage	Frequency	Rated Power	Max Air Flow	Rated Temp. Range	Approvals
	mm	mm	(V)	(Hz)	(W)	(m³/h) **	(°C)	
GF12KUG	150x150	125x125	-	-	-	-	-10 ~ +60	CE
GF12KU115BE (R)	150x150	125x125	115 Va.c.	50/60	17/15	45/50	-10 ~ +55	CE
GF12KU230BE (R)	150x150	125x125	230 Va.c.	50/60	17/15	45/50	-10 ~ +55	CE
GF12KU115B (R)	150x150	125x125	115 Va.c.	50/60	19/17	67/79	-10 ~ +55	CE
GF12KU230B (R)	150x150	125x125	230 Va.c.	50/60	18/16	67/79	-10 ~ +55	CE
GF12KUD24B (R)	150x150	125x125	24 Vd.c.	-	7.4	55	-10 ~ +55	CE
GF12KUD48B (R)	150x150	125x125	48 Vd.c.	-	8.6	55	-10 ~ +55	CE
GF15KUG	250x250	223x223	-	-	-	-	-10 ~ +60	CE
GF15KPU115BE (R)	250x250	223x223	115 Va.c.	50/60	20/19	115/125	-10 ~ +55	CE
GF15KPU230BE (R)	250x250	223x223	230 Va.c.	50/60	17/15	115/125	-10 ~ +55	CE
GF15KPUD24B (R)	250x250	223x223	24 Vd.c.	-	7.6	150	-10 ~ +55	CE
GF15KPUD48B (R)	250x250	223x223	48 Vd.c.	-	8.6	150	-10 ~ +55	CE
GF15KU115BE (R)	250x250	223x223	115 Va.c.	50/60	30/30	240/275	-10 ~ +55	CE
GF15KU230BE (R)	250x250	223x223	230 Va.c.	50/60	30/31	240/275	-10 ~ +55	CE
GF20KUG	325x325	290x290	-	-	-	-	-10 ~ +60	CE
GF20KU115BE (R)	325x325	290x290	115 Va.c.	50/60	60/74	515/550	-10 ~ +55	CE
GF20KU230BE (R)	325x325	290x290	230 Va.c.	50/60	75/85	515/550	-10 ~ +55	CE
GF20KU400TBE (R)	325x325	290x290	400 3~	50/60	94/115	515/550	-10 ~ +55	CE
GF20KGU115B (R)	325x325	290x290	115 Va.c.	50/60	120/135	590/670	-10 ~ +55	CE
GF20KGU230B (R)	325x325	290x290	230 Va.c.	50/60	138/164	590/670	-10 ~ +55	CE
GF20KGU400TB (R)	325x325	290x290	400 3~	50/60	93/123	590/670	-10 ~ +55	CE

(**) Data with uncertainty of ±15%

Roof exhaust units

A range of roof exhaust units to suck warm air out of the enclosure.

T Series



Model	Voltage	Frequency	Rated Power	Max Air Flow	Approvals
	(V)	(Hz)	(W)	(m³/h)**	
T19*115B	115 Va.c.	50/60	58/71	550/590	CE
T19*230B	230 Va.c.	50/60	62/78	550/590	CE
T22*115B	115 Va.c.	50/60	130/170	800/850	CE
T22*230B	230 Va.c.	50/60	125/161	800/850	CE

(*) may be R for color RAL 7032 or U for color RAL 7035

(**) data with uncertainty of ±15%



TP Series

Model	Voltage	Frequency	Rated Power	Max Air Flow	Protection Degree	Approvals
	(V)	(Hz)	(W)	(m³/h)**	IP	
TP19U1	-	-	-	-	24	CE; cURus; cCSAus;
TP19U541	-	-	-	-	54	CE; cURus; cCSAus;
TP19U551	-	-	-	-	55	CE; cURus; cCSAus;
TP19U115B	115 V a.c.	50/60	62/75	500/575	24	CE;
TP19U115B1	115 V a.c.	60	97	575	24	CE; cURus; cCSAus;
TP19U115B441	115 V a.c.	60	97	560	44	CE; cURus; cCSAus;
TP19U115B54	115 V a.c.	50/60	66/74	420/490	54	CE;
TP19U115B541	115 V a.c.	60	97	490	54	CE; cURus; cCSAus;
TP19U115B55	115 V a.c.	50/60	66/74	420/490	55	CE;
TP19U115B551	115 V a.c.	60	97	490	55	CE; cURus; cCSAus;
TP19U230B	230 V a.c.	50/60	67/83	500/575	24	CE;
TP19U230B1	230 V a.c.	50/60	70/81	500/575	24	CE; cURus; cCSAus;
TP19U230B44	230 V a.c.	50/60	69/81	485/560	44	CE;
TP19U230B441	230 V a.c.	50/60	70/81	485/560	44	CE; cURus; cCSAus;
TP19U230B54	230 V a.c.	50/60	70/83	420/490	54	CE;
TP19U230B541	230 V a.c.	50/60	70/81	420/490	54	CE; cURus; cCSAus;
TP19U230B55	230 V a.c.	50/60	70/83	420/490	55	CE;
TP19U230B551	230 V a.c.	50/60	70/81	420/490	55	CE; cURus; cCSAus;

(**) data with uncertainty of ±15%



Accessories for fan filters

Spare parts filter media

Model	Description
FOR IP54 VERSION	
M08FPF	FPF08/FF08 series
M12FPF-EU3	FPF12/FF12 series
M13FPF-EU3	FPF13/FF13 series
M15FPF-EU3	FPF15/FF15 series
M20FPF-EU3	FPF20/FF20 series
FOR IP55 VERSION	
M12FPF	FPF12/FF12 IP55 series
M13FPF	FPF13/FF13 IP55 series
M15FPF	FPF15/FF15 IP55 series
M20FPF	FPF20/FF20 IP55 series



Plastic adaptors

Model	Description
FPFA12-7032G	plastic adaptor RAL 7032
FPFA12-7035G	plastic adaptor RAL 7035
FPFA15-7032G	plastic adaptor RAL 7032
FPFA15-7035G	plastic adaptor RAL 7035
FPFA20-7032G	plastic adaptor RAL 7032
FPFA20-7035G	plastic adaptor RAL 7035

Other colors on request



Steel cover

Model	Description
SSC-08	steel cover for FPF08 and FF08
SSC-12	steel cover for FPF12 and FF12
SSC-13	steel cover for FPF13 and FF13
SSC-15	steel cover for FPF15 and FF15
SSC-20	steel cover for FPF20 and FF20



Document holder

Model
TPD-A4



Pressure compensation device

Model	Description
CP-U55-00	IP55 ventilation plug

Ambient control

Mechanical thermostats and hygrostats for temperature and humidity regulation in electrical enclosures, with DIN rail application.



Mechanical thermostats

Model	Rated Voltage	Rated Current	Contact Current carrying capacity	Setting Range	Differential (referred to set point)	Accuracy	Approvals
	(Va.c.) 50/60Hz	(A)	(A)		(K)	(K)	
°C VERSION							
TRT-10A230V-NC	12-60 Vd.c. 110-250 Va.c.	10 (6*)	15	-10 ~ +80 °C	- 3	± 3	CE cURus
TRT-10A230V-NO	12-60 Vd.c. 110-250 Va.c.	10 (6*)	15	-10 ~ +80 °C	+ 4 if A≤5 + 7 if A>5	± 3	CE cURus
°F VERSION							
TRT-10A230V-NCF	12-60 Vd.c. 110-250 Va.c.	10 (6*)	15	+14 ~ +176 °F	- 3	± 3	CE cURus
TRT-10A230V-NOF	12-60 Vd.c. 110-250 Va.c.	10 (6*)	15	+14 ~ +176 °F	+ 4 if A≤5 + 7 if A>5	± 3	CE cURus

NC = open on rise (red) NO = closed on rise (blue)

* () inductive load with $\cos \varphi = 0.6$



Twin thermostats

Model	Rated Voltage	Rated Current	Contact Current carrying capacity	Setting Range	Differential (referred to set point)	Accuracy	Approvals
	(Va.c.) 50/60Hz	(A)	(A)		(K)	(K)	
°C VERSION							
TRT2-10A230V-NCNC	12-60 Vd.c. 110-250 Va.c.	10+10	15+15	-10 ~ +80 °C	- 3	± 3	CE cURus
TRT2-10A230V-NCNO	12-60 Vd.c. 110-250 Va.c.	10+10	15+15	-10 ~ +80 °C	-3 (NC) / +4 if A≤5 +7 if A>5 (NO)	± 3	CE cURus
TRT2-10A230V-NONO	12-60 Vd.c. 110-250 Va.c.	10+10	15+15	-10 ~ +80 °C	+4 if A≤5 +7 if A>5 (NO)	± 3	CE cURus
°F VERSION							
TRT2-10A230V-NCNCF	12-60 Vd.c. 110-250 Va.c.	10+10	15+15	+14 ~ +176 °F	- 3	± 3	CE cURus
TRT2-10A230V-NCNOF	12-60 Vd.c. 110-250 Va.c.	10+10	15+15	+14 ~ +176 °F	-3 (NC) / +4 if A≤5 +7 if A>5 (NO)	± 3	CE cURus
TRT2-10A230V-NONOF	12-60 Vd.c. 110-250 Va.c.	10+10	15+15	+14 ~ +176 °F	+4 if A≤5 +7 if A>5 (NO)	± 3	CE cURus

NC = open on rise (red) NO = closed on rise (blue)



Flash device

Model	Rated Voltage		Temp. Range	Approvals
	(Va.c.) 50/60Hz		(°C)	
	Single phase	3-phase		
FD01	110-290	220-500	-25 ÷ +70	CE cURus
FD02	110-290	220-500	-25 ÷ +70	CE *
FD03	110-290	220-500	-25 ÷ +70	CE *

* Each component UL approved



Change-over mechanical thermostats

Model	Rated Voltage	Rated Current	Contact Current	Setting Range	Differential (referred to set point)	Approvals
	(V.a.c.) 50/60Hz	(A)	(A)	(°C)	(K)	
TRT-230V-S01	230	(Heating) a.c. 10 (4*), d.c. 30W (Cooling) a.c. 5 (2*), d.c. 30W	10	5 ~ 60	4 1 (with thermal retroaction)	CE

* () inductive load with $\cos \varphi = 0.6$



Mechanical hygrometers

Model	Rated Voltage	Rated Current NC; NO	Setting Range	Differential (referred to set point)	Accuracy	Approvals
	(V.a.c.) 50/60Hz	(A)	(% RH)	(% RH)	(% RH)	
IGR35F	120-240	12-6; 6-3	10 ~ 90 *	5	± 5	CE cURus

* UL certified till max 80%RH



Door limit switches

Model	a.c. Rated Voltage Range	a.c. Rated Current Range	d.c. Rated Voltage Range	d.c. Rated Current Range	Mechanical durability	Approvals
	(V) 50/60Hz	(A)	(V)	(A)	Millions of operations	
FC-001	24-400	10-1.8	24-250	2.8-0.27	15	CE cULus
FC-002	24-400	10-1.8	24-250	2.8-0.27	1	CE cULus
FC-003	24-400	10-1.8	24-250	2.8-0.27	15	CE cULus
FC-004	24-400	10-1.8	24-250	2.8-0.27	10	CE cULus
SA-FC01K	Plastic support for door limit switch fixing					



Heat pumps

Standard and customised thermoelectric units for small enclosures or electronic equipment in telecommunications and industrial automation fields. These units operate according to the principles of the semiconductors technology (Peltier effect).

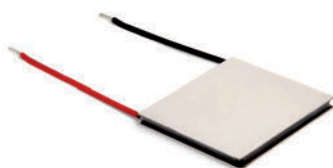
Thermoelectric cooling units d.c version

Model	Cooling Power	Voltage	Rated Current	Max. Current	Operating Temp. Range	Rated Voltage Range	Weight	Approvals
	(W)	(Vd.c.)	(A)	(A)	(°C)	(Vd.c.)	(Kg)	
TCU501240IP55-7035	50	12	5.0	5.8	-20 ~ +70	7-13	4	CE
TCU502440IP55-7035	50	24	2.4	2.8	-20 ~ +70	17-27	4	CE
TCU1001240IP55-7035	100	12	9.2	11.0	-20 ~ +70	7-13	6	CE
TCU1002440IP55-7035	100	24	4.7	5.7	-20 ~ +70	17-27	6	CE
TCU1004840IP55-7035	100	48	2.4	3.0	-20 ~ +70	34-54	6	CE
TCU2001240IP55-7035	200	12	18.4	22.0	-20 ~ +70	7-13	12	CE
TCU2002440IP55-7035	200	24	9.5	11.5	-20 ~ +70	17-27	12	CE
TCU2004840IP55-7035	200	48	4.8	6.0	-20 ~ +70	34-54	12	CE



Thermoelectric cooling units a.c. version

Model	Cooling Power	Rated Voltage Range (50/60Hz)	Input Power	Max. Input Power	Operating Temp. Range	Weight	IP Rating	Approvals
	(W)	(Va.c.)	(W)	(W)	(°C)	(Kg)		
TCU200AC40-SIP	201	88-264	245	306	-20 ~ +50	14	55	CE



Thermoelectric modules

Model	Max. Current I max	Max. Voltage V max	Max. Cooling Power Q _C max	Max. Temp. Differential ΔT max	Max. Operating Temp. T max	Dimensions W x L x H
	(A)	(Vd.c.)	(W)	(°C)	(°C)	(mm)
TM1-1274060-HXHP	6.0	15.3	60.0	67.0	125	40x40x3.8

Other models available on request



Accessories for thermoelectric cooling units

Drip trays

Model	Description
RC-TCU050-1001	for TCU50 model
RC-TCU100-1001	for TCU100 model
RC-TCU200-1001	for TCU200 and TCU200AC models

Anti-condensation heaters

A variety of heaters for the thermo-regulation of electrical cabinets, connectable by cable or terminal block, with DIN rail fastening. The ventilated version enhances the heating power up to a thermal capacity of 400W.



★ The above values of heating power and temperature were obtained at 230 Va.c. 50Hz, at 12 Vd.c. for the model RAC-40-12V and at ambient temperature condition of 15±5°C after a working of 10 minutes. These values have an uncertainty of 10%.



Model	Dimensions	Heating power	Rated voltage range	Weight	Approvals
	HxL (mm)	(W)*	(Va.c.) 50/60 Hz (Vd.c.)	(Kg)	
HEATERS WITH CABLE					
RACP-15	72x25	15	150 - 240	0.10	CE
RACP-30	102x25	30	90 - 240	0.12	CE
RAC-45	102x61	45	110 - 250	0.28	CE
RAC-60	102x61	60	110 - 250	0.28	CE
RAC-80	152x61	80	110 - 250	0.44	CE
RAC-100	152x61	100	110 - 250	0.44	CE
RAC-150	227x61	150	110 - 250	0.59	CE
RACS-150	152x61	138	110 - 250	0.44	CE
RAC-40-12V	102x61	40	12 Vd.c.	0.31	CE
HEATERS WITH TERMINAL BLOCK					
RACM-45	117x61	45	110 - 250	0.29	CE
RACM-60	117x61	60	110 - 250	0.29	CE
RACM-80	167x61	80	110 - 250	0.41	CE
RACM-100	167x61	100	110 - 250	0.41	CE
RACM-150	242x61	150	110 - 250	0.56	CE
RACMS-150	167x61	138	110 - 250	0.41	CE
VENTILATED HEATERS					
RACMV-250	197x61	250	230 Va.c.	0.49	CE
RACMV-400	272x61	400	230 Va.c.	0.66	CE

Model	Dimensions	Heating power	Rated voltage range	Weight	Approvals
	(mm)	(W)	(Va.c.) 50/60 Hz (Vd.c.)	(Kg)	
METALLIC (HWM) OR PLASTIC (HWP) HEATERS WITH CABLE					
HWM045	108x85x61.5	45	110 - 240	0.40	CE cURus
HWM060	108x85x61.5	60	110 - 240	0.40	CE cURus
HWM080	158x85x61.5	80	110 - 240	0.55	CE cURus
HWM100	158x85x61.5	100	110 - 240	0.55	CE cURus
HWM150	208x85x61.5	150	110 - 240	0.75	CE cURus
HWP045	108x85x61.5	45	110 - 240	0.40	CE cURus
HWP060	108x85x61.5	60	110 - 240	0.40	CE cURus
HWP080	158x85x61.5	80	110 - 240	0.55	CE cURus
HWP100	158x85x61.5	100	110 - 240	0.55	CE cURus
HWP150	208x85x61.5	150	110 - 240	0.75	CE cURus
METALLIC (HTM) OR PLASTIC (HTP) HEATERS WITH TERMINAL BLOCK					
HTM045	138x85x61.5	45	110 - 240	0.45	CE cURus
HTM060	138x85x61.5	60	110 - 240	0.45	CE cURus
HTM080	188x85x61.5	80	110 - 240	0.60	CE cURus
HTM100	188x85x61.5	100	110 - 240	0.60	CE cURus
HTM150	238x85x61.5	150	110 - 240	0.80	CE cURus
HTP045	138x85x61.5	45	110 - 240	0.45	CE cURus
HTP060	138x85x61.5	60	110 - 240	0.45	CE cURus
HTP080	188x85x61.5	80	110 - 240	0.60	CE cURus
HTP100	188x85x61.5	100	110 - 240	0.60	CE cURus
HTP150	238x85x61.5	150	110 - 240	0.80	CE cURus



Model	Dimensions	Heating power	Rated voltage range	Weight	Approvals
	(mm)	(W)	50/60 Hz (V.a.c.)	(Kg)	
METALLIC (HVMS) HEATERS WITH FAN					
HVMS080-115	143x85x61.5	80	115	0.60	CE cURus
HVMS080-230	143x85x61.5	80	230	0.60	CE cURus
HVMS125-115	193x85x61.5	125	115	0.75	CE cURus
HVMS125-230	193x85x61.5	125	230	0.75	CE cURus
HVMS150T-115	143x85x61.5	150	115	0.60	CE cURus
HVMS150T-230	143x85x61.5	150	230	0.60	CE cURus
HVMS185-115	243x85x61.5	185	115	0.95	CE cURus
HVMS185-230	243x85x61.5	185	230	0.95	CE cURus
HVMS200T-115	193x85x61.5	200	115	0.75	CE cURus
HVMS200T-230	193x85x61.5	200	230	0.75	CE cURus
HVMS250T-115	243x85x61.5	250	115	0.95	CE cURus
HVMS250T-230	243x85x61.5	400	230	0.95	CE cURus
HVMS350THP-115	242x85x61.5	350	115	0.90	CE cURus
HVMS350THP-230	242x85x61.5	350	230	0.90	CE cURus
PLASTIC (HVPS) HEATERS WITH FAN					
HVPS080-115	143x85x61.5	80	115	0.60	CE cURus
HVPS080-230	143x85x61.5	80	230	0.60	CE cURus
HVPS125-115	193x85x61.5	125	115	0.75	CE cURus
HVPS125-230	193x85x61.5	185	230	0.75	CE cURus
HVPS150T-115	143x85x61.5	150	115	0.60	CE cURus
HVPS150T-230	143x85x61.5	210	230	0.60	CE cURus
HVPS185-115	243x85x61.5	185	115	0.95	CE cURus
HVPS185-230	243x85x61.5	185	230	0.95	CE cURus
HVPS200T-115	193x85x61.5	200	115	0.75	CE cURus
HVPS200T-230	193x85x61.5	200	230	0.75	CE cURus
HVPS250T-115	243x85x61.5	250	115	0.95	CE cURus
HVPS250T-230	243x85x61.5	250	230	0.95	CE cURus
HVPS350THP-115	242x85x61.5	350	115	0.90	CE cURus
HVPS350THP-230	242x85x61.5	350	230	0.90	CE cURus

HEATERS FROM 5W TO 30W SOON AVAILABLE

Enclosure lamps

Compact fluorescent lamps for indoor installation and additional set of options from multiple connection cable to a magnetic mounting system. Available also LED lamps with a metal fixing plate for an adjustable installation.

FLL Series LED lamps

Model	Length	Rated Voltage Range	Rated Frequency	Power	LED		Description	Approvals
					number	color		
FLL-120565U-IR	356	115	50/60	5.0/5.0	40	7100K	PIR sensor	CE cURus
FLL-120565U-S	356	115	50/60	5.0/5.0	40	7100K	ON/OFF switch	CE cURus
FLL-230565U-IR	356	230	50/60	5.0/5.0	40	7100K	PIR sensor	CE cURus
FLL-230565U-S	356	230	50/60	5.0/5.0	40	7100K	ON/OFF switch	CE cURus
FLL-300565U-IR	356	115-230	50/60	5.0/5.0	40	7100K	PIR sensor	CE cURus
FLL-300565U-S	356	115-230	50/60	5.0/5.0	40	7100K	ON/OFF switch	CE cURus

Version with magnet pots available on request

FLL Series - Accessories for LED lamps

Model	Description
FLL-2MA	magnets kit (2pcs.)

CLG-L Series LED lamps

Model	Length	Rated Voltage Range	Rated Frequency	Power	LED		Approvals
					Number	Color	
CLG-L307	400	115-230	50/60	7.0/7.0	12	6400K	CE

Fluorescent lamps

Model	Length	Rated Voltage	Rated Frequency	Power	Light type & lamp holder	Cable Length	Approvals
	(mm)	(V a.c.)	(Hz)	(W)		(mm)	
CLG-R236	277	230	50	6	T5 / G5	1,300	CE GS
CLG-R238	354	230	50	8	T5 / G5	1,800	CE
CLG-R2313	581	230	50	13	T5 / G5	1,800	CE
CLG-T236	270	230	50	6	T4 / G5	1,800	CE GS
CLG-T238	390	230	50	8	T4 / G5	1,800	CE GS
CLG-T2312	425	230	50	12	T4 / G5	1,800	CE GS
CLG-T2316	516	230	50	16	T4 / G5	1,800	CE
CLG-T2320	616	230	50	20	T4 / G5	1,800	CE
CLG-SS2310	498	230	50	10	T8 / G13	-	CE
CLG-SF2310	498	230	50	10	T8 / G13	-	CE

Accessories for fluorescent lamps

Model	Description
CONNECTION CABLE	
CVL01-200	2000 mm
CVL01A-30	300 mm
MAGNETIC SUPPORT	
CLG-TSM1	-

LED tubular lamps

LED tubular lamps for industrial and professional applications represent the ideal choice for illuminating cooling counters and displays, and combine energy saving with highly improved visual impression of the products, thanks to a good uniformity of light. These LED systems can easily replace the traditional fluorescent lamps, often without any changes, offering a perfect retrofit solution.



Type TL (T8)

Model	Length	Rated Frequency	Power	Color Temp.	Lum. Flux	Approvals
	(mm)	(Hz)	(W)	(K)	(lm)	
TL-237-45PT	450	50/60	7.0	4,200	500	CE
TL-237-45WT	450	50/60	7.0	5,000	500	CE
TL-237-465WT	450	50/60	7.0	6,500	500	CE
TL-239-65WX	600	50/60	9.0	5,000	800	CE
TL-239-665WX	600	50/60	9.0	6,500	800	CE
TL-239-6PT	600	50/60	9.0	4,200	800	CE
TL-2314-965WT	900	50/60	14	5,000	1,400	CE
TL-2314-9PT	900	50/60	14	4,200	1,400	CE
TL-2315-105WT	970	50/60	15	5,000	1,400	CE
TL-2318-125WT	1,200	50/60	18	5,000	1,600	CE
TL-2318-1265WX	1,200	50/60	18	6,500	1,600	CE
TL-2318-12PT	1,200	50/60	18	5,000	1,600	CE
TL-2322-155WT	1,500	50/60	22	5,000	2,100	CE
TL-2322-15PT	1,500	50/60	22	4,200	2,100	CE

Type LL (T5)

Model	Length	Rated Frequency	Power	Color Temp.	Lum. Flux	Approvals
	(mm)	(Hz)	(W)	(K)	(lm)	
LL-238-665WO	570	50/60	8	6,500	450 ± 30	CE
LL-2312-965WO	870	50/60	12	6,500	650 ± 30	CE
LL-2316-125WO	1,170	50/60	16	5,000	870 ± 30	CE
LL-2316-125WT	1,170	50/60	16	5,000	1,100 ± 30	CE

X = O (milky) or T (transparent)

Other lengths and color temperatures are available on request.

Visual and acoustic devices

The signal towers for the safety of plants and machinery offer a flexible combinations of up to 7 elements, including steady, flashing, rotating lights and buzzer. IP64 protection degree and a practical bayonet connection Ba 15d.

Light elements

Model	Color	Type	Voltage	Bulbs
ST70-LRF-0	red	steady light	12-230 Va.c./d.c.	bulbs not included. Filament bulbs or LED available on request.
ST70-LAF-0	orange	steady light	12-230 Va.c./d.c.	
ST70-LGF-0	yellow	steady light	12-230 Va.c./d.c.	
ST70-LVF-0	green	steady light	12-230 Va.c./d.c.	
ST70-LBF-0	blue	steady light	12-230 Va.c./d.c.	
ST70-LWF-0	white	steady light	12-230 Va.c./d.c.	
ST70-LRL024-0	red	flashing light	24 Va.c./d.c.	filament bulbs included
ST70-LAL024-0	orange	flashing light	24 Va.c./d.c.	
ST70-LGL024-0	yellow	flashing light	24 Va.c./d.c.	
ST70-LVL024-0	green	flashing light	24 Va.c./d.c.	
ST70-LBL024-0	blue	flashing light	24 Va.c./d.c.	
ST70-LWL024-0	white	flashing light	24 Va.c./d.c.	
ST70-LRL115-0	red	flashing light	115 Va.c.	
ST70-LAL115-0	orange	flashing light	115 Va.c.	
ST70-LGL115-0	yellow	flashing light	115 Va.c.	
ST70-LVL115-0	green	flashing light	115 Va.c.	
ST70-LBL115-0	blue	flashing light	115 Va.c.	
ST70-LWL115-0	white	flashing light	115 Va.c.	
ST70-LRL230-0	red	flashing light	230 Va.c.	LED included
ST70-LAL230-0	orange	flashing light	230 Va.c.	
ST70-LGL230-0	yellow	flashing light	230 Va.c.	
ST70-LVL230-0	green	flashing light	230 Va.c.	
ST70-LBL230-0	blue	flashing light	230 Va.c.	
ST70-LWL230-0	white	flashing light	230 Va.c.	
ST70-LRM024-0	red	LED multifunction light	24 Va.c./d.c.	
ST70-LAM024-0	orange	LED multifunction light	24 Va.c./d.c.	
ST70-LGM024-0	yellow	LED multifunction light	24 Va.c./d.c.	
ST70-LVM024-0	green	LED multifunction light	24 Va.c./d.c.	
ST70-LBM024-0	blue	LED multifunction light	24 Va.c./d.c.	
ST70-LWM024-0	white	LED multifunction light	24 Va.c./d.c.	

Other diameters and versions available on request.

Connection element

Model	Color
ST70-CN-0	black

Acoustic element

Model	Color	Voltage
ST70-AN24-0	black	24 Va.c./d.c.
ST70-ANDV-0	black	115/230 Va.c.

Fixing systems

Model	Type
SF-1N-0	base with integrated tube H100mm
SF-2N-0	extension tube H100mm
SF-3N-0	adapter for 22mm holes
SF-4N-0	angle bracket 90°



Frame fans

A wide range of standard and custom designed models for both AC and DC brushless axial and centrifugal frame fans, including solutions specific to different ambient conditions (IP55, all metal and high temperature resistant fans).

Model	Dimensions	Rated Voltage	Rated Power (50/60Hz)	Max Air Flow (50/60Hz)	Static Pressure (50/60Hz)	Rated Speed (50/60Hz)	Noise (50/60Hz)	Bearing Type		Approvals
	(mm)	(V)	(W)	(m³/h)	(Pa)	(RPM)	[(dB(A)]	Ball	Sleeve	
AC AXIAL FRAME FANS										
A06G12HWBF00	60x60x30	115 Va.c.	5.3/4.0	14/17	18/27	2,200/2,800	27.0/28.0	o		CE cURus
A06G23HWBF00	60x60x30	230 Va.c.	6.0/4.5	14/17	17/27	2,400/3,000	27.0/28.0	o		CE cURus
A08A12HWxFO0	80x80x25	115 Va.c.	14/11	36/41	40/55	2,600/3,100	32.0/35.0	o	o	CE cURus
A08A23HWxFO0	80x80x25	230 Va.c.	16/14	36/41	40/55	2,600/3,100	32.0/35.0	o	o	CE UR
A08B12HWxFO0	80x80x38	115 Va.c.	14/12	41/51	40/55	2,500/3,000	32.0/36.0	o	o	CE cURus
A08B12LWxFO0	80x80x38	115 Va.c.	12/9.0	33/42	25/40	1,900/2,400	28.0/32.0	o	o	CE cURus
A08B23HWxFO0	80x80x38	230 Va.c.	14/12	41/51	40/55	2,500/3,000	32.0/36.0	o	o	CE UR
A08B23LWxFO0	80x80x38	230 Va.c.	14/12	33/42	25/40	1,900/2,400	28.0/32.0	o	o	CE UR
A09A12HTxFO0	92x92x25	115 Va.c.	14/11	56/68	37/54	2,500/3,000	32.0/36.0	o	o	CE cURus
A09A23HTxFO0	92x92x25	230 Va.c.	16/14	56/68	37/54	2,500/3,000	32.0/36.0	o	o	CE UR
A12W12HWWB00	113x113x38	115 Va.c.	20/18	150/167	66/81	2,650/2,950	43.0/48.0	o		CE cURus
A12W23SWWB00	113x113x38	230 Va.c.	22/21	165/200	67/94	2,700/3,100	48.0/50.0	o		CE
A12Z12HWSW00	113x113x38	115 Va.c.	19/18	150/167	66/81	2,650/2,950	43.0/48.0		o	CE
A12Z23HWSW00	113x113x38	230 Va.c.	18/18	148/182	65/80	2,550/2,900	46.0/49.0	o	o	CE
A12A12HTxFO0	120x120x25	115 Va.c.	14/11	109/127	52/53	2,400/2,900	38.0/42.0	o	o	CE cURus
A12A23HTBF00	120x120x25	230 Va.c.	16/14	109/127	52/53	2,400/2,900	38.0/42.0	o		CE UR
A12B05HTBW00	120x120x38	24 Va.c.	14/14	154/165	62/77	2,650/2,850	46.0/49.0	o		CE
A12B05HTSW00	120x120x38	24 Va.c.	13.2/13.2	147/142	55/50	2,530/2,430	46.0/45.0		o	CE
A12B12HTxW00	120x120x38	115 Va.c.	20/18	136/168	57/80	2,750/3,050	46.0/49.0	o	o	CE cURus VDE
A12B12MTxW00	120x120x38	115 Va.c.	16/15	126/133	52/62	2,500/2,700	44.0/46.0	o	o	CE cURus VDE
A12B12STxW00	120x120x38	115 Va.c.	22/20	161/195	82/95	2,700/3,100	45.0/50.0	o	o	CE cURus VDE
A12B23ETSW00	120x120x38	230 Va.c.	6.5/6.0	85/83	19/16	1,500/1,450	29.0/28.0		o	CE VDE
A12B23HTSW00	120x120x38	230 Va.c.	20/19	148/182	65/80	2,750/3,050	46.0/49.0		o	CE cURus VDE
A12B23LTxW00	120x120x38	230 Va.c.	11/10	114/102	27/22	2,200/1,800	43.0/42.0	o	o	CE cURus VDE
A12B23MTxW00	120x120x38	230 Va.c.	16/15	133/143	35/52	2,400/2,600	43.0/45.0	o	o	CE cURus VDE
A12B23VTBW00	120x120x38	230 Va.c.	10/10	98/105	28/28	1,800/1,900	34.0/35.0	o		CE VDE
A12R23HTSW00	120x120x38	230 Va.c.	18/18	150/167	66/81	2,650/3,050	48.0/54.0		o	CE cURus VDE
A13B12HTBF00	127x127x38	115 Va.c.	17/15	174/204	72/28	2,700/3,000	46.0/50.0	o		CE cURus
C17B12HTBF00	172x150x38	115 Va.c.	29/28	300/360	167/187	2,850/3,400	54.0/58.0	o		CE cURus
C17B23HTBF00	172x150x38	230 Va.c.	27/26	300/360	167/187	2,850/3,400	54.0/58.0	o		CE cURus
A17C12HWBF00	172x150x51	115 Va.c.	32/28	290/331	105/95	2,750/3,100	50.0/55.0	o		CE cURus
A17C23HWBF00	172x150x51	230 Va.c.	35/30	290/331	105/95	2,750/3,100	50.0/55.0	o		CE cURus
C17C12HTBF00	172x150x51	115 Va.c.	31/31	348/384	157/197	2,850/3,400	53.0/58.0	o		CE cURus
C17C23HTBF00	172x150x51	230 Va.c.	29/29	348/384	157/197	2,850/3,400	53.0/58.0	o		CE cURus
C18C12HTBF00	172x172x51	115 Va.c.	31/31	348/384	157/197	2,850/3,400	50.0/55.0	o		CE cURus
C18C23HTBF00	172x172x51	230 Va.c.	29/29	348/384	157/197	2,850/3,400	50.0/55.0	o		CE cURus
C22S12HKBD00	218x218x83	115 Va.c.	65/76	790/875	155/163	2,162/2,314	64.6/67.4	o		CE
C22S23HKBD00	218x218x83	230 Va.c.	80/95	840/940	200/217	2,500/2,750	65.0/68.0	o		CE
C22S40HKBD00	218x218x83	400 Va.c.	166	970	245	2620	69.8/72.7	o		CE

x = B (ball) or S (sleeve)

Model	Dimensions	Rated Voltage	Voltage Range	Rated Power	Max Air Flow	Static Pressure	Rated Speed	Noise	Bearing Type		Approvals
	(mm)	(V)	(V)	(W)	(m³/h)	(Pa)	(RPM)	[(dB(A)]	Ball	Sleeve	
DC AXIAL FRAME FANS											
D20E01LWBA00	20x20x10	5 Vd.c.	4 - 6	0.40	1.0	12	9,000	20.0	o		CE UR
D20E01MWBA00	20x20x10	5 Vd.c.	4 - 6	0.70	1.4	20	11,500	26.0	o		CE cURus
D20E04LWBA00	20x20x10	12 Vd.c.	10.8 - 13.2	0.72	0.85	10	9,000	15.0	o		CE
D20E04MWBA00	20x20x10	12 Vd.c.	10.8 - 3.2	0.84	1.0	15	11,500	22.0	o		CE
D02E01HWBZ00	25x25x10	5 Vd.c.	4.5 - 5.5	0.70	4.3	50	12,000	29.0	o		CE cURus
D02E01MWBZ00	25x25x10	5 Vd.c.	4 - 6	0.50	3.6	37	10,000	23.0	o		CE cURus
D02E04HWBZ00	25x25x10	12 Vd.c.	7 - 13	1.1	4.3	50	12,000	29.0	o		CE cURus
D02E04MWBZ00	25x25x10	12 Vd.c.	10.8 - 13.2	0.96	3.6	37	10,000	23.0	o		CE cURus
D03E01LWBA00	30x30x10	5 Vd.c.	4 - 6	0.60	5.5	30	8,000	20.2	o		CE cURus
D03E01MWBA00	30x30x10	5 Vd.c.	4 - 6	0.65	6.4	42	9,000	28.0	o		CE cURus
D03E04LWBA00	30x30x10	12 Vd.c.	10.8 - 13.2	0.72	5.1	32	8,000	26.0	o		CE cURus
D03E04MWBA00	30x30x10	12 Vd.c.	7 - 13	0.60	6.4	42	9,000	28.0	o		CE cURus
D04E01HWxT00	40x40x10	5 Vd.c.	4.5 - 5.5	0.95	11	25	6,000	26.0	o	o	CE cURus
D04E04MWxT00	40x40x10	12 Vd.c.	7 - 13	0.96	8.5	19	4,800	22.0	o	o	CE cURus
D04E05HWxT00	40x40x10	24 Vd.c.	21.6 - 26.4	2.2	11	25	6,000	26.0	o	o	CE cURus
D04E05MWxT00	40x40x10	24 Vd.c.	17 - 27	1.9	8.5	19	4,800	22.0	o	o	CE cURus
D04E04HWST00	40x40x10	12 Vd.c.	7 - 13	1.2	11	25	6,000	26.0		o	CE cURus
D04E01MWST00	40x40x10	5 Vd.c.	4 - 6	0.75	8.5	19	4,800	22.0		o	CE cURus
D04F04HWxA00	40x40x15	12 Vd.c.	7 - 13	1.4	15	61	8,000	39.3	o	o	CE cURus
D04F04LWxA00	40x40x15	12 Vd.c.	7 - 13	0.96	11	35	6,000	27.5	o	o	CE cURus
D04F04MWxA00	40x40x15	12 Vd.c.	7 - 13	1.2	13	45	7,000	31.8	o	o	CE cURus
D04D04HWBZ00	40x40x20	12 Vd.c.	10.8 - 13.2	1.3	15	70	7,800	36.0	o		CE cURus
D04D04MWxZ00	40x40x20	12 Vd.c.	7 - 13	0.96	13	60	6,900	28.5	o	o	CE cURus
D04D05HWBZ00	40x40x20	24 Vd.c.	21.6 - 26.4	2.2	15	70	7,800	36.0	o		CE cURus
D04D05MWBZ00	40x40x20	24 Vd.c.	21.6 - 26.4	1.7	13	58	6,900	33.0	o		CE cURus
D04D04HWSZ00	40x40x20	12 Vd.c.	10.8 - 13.2	1.3	14	65	7,500	35.0		o	CE cURus
D04D05MWSZ00	40x40x20	24 Vd.c.	21.6 - 26.4	1.7	13	47	6,700	32.0		o	CE cURus
D04D05HWSZ00	40x40x20	24 Vd.c.	21.6 - 26.4	2.2	14	65	7,500	35.0		o	CE cURus
D45E01HWBA00	45x45x10	5 Vd.c.	4 - 6	0.20	15	25	5,500	27.4	o		CE cURus
D45E01MWBA00	45x45x10	5 Vd.c.	4 - 6	0.30	12	18	4,500	22.0	o		CE cURus
D45E04HWxA00	45x45x10	12 Vd.c.	7 - 13	1.1	15	25	5,500	27.4	o	o	CE UR
D45E04MWxA00	45x45x10	12 Vd.c.	7 - 13	0.84	12	18	4,500	22.0	o	o	CE UR
D45E01MWSA00	45x45x10	5 Vd.c.	4 - 6	0.30	12	18	4,500	22.0		o	CE UR
D45E01HWSA00	45x45x10	5 Vd.c.	4 - 6	0.20	15	25	5,500	27.4		o	CE UR
D50E04LWxA00	50x50x10	12 Vd.c.	7 - 13	1.2	10	10	3,700	20.0	o	o	CE cURus
D50E04MWxA00	50x50x10	12 Vd.c.	7 - 13	1.4	15	20	4,300	24.0	o	o	CE cURus
D50F04HWBA00	50x50x15	12 Vd.c.	10.8 - 13.2	1.7	24	32	4,800	30.2	o		CE cURus
D50F04SWxA00	50x50x15	12 Vd.c.	9 - 13	2.4	29	48	5,500	33.8	o	o	CE cURus
D50F04LWSA00	50x50x15	12 Vd.c.	10.8 - 13.2	0.96	19	17	3,600	25		o	CE cURus
D50F04MWSA00	50x50x15	12 Vd.c.	10.8 - 13.2	1.2	22	25	4,300	30		o	CE cURus
D50F04HWSA00	50x50x15	12 Vd.c.	10.8 - 13.2	1.7	24	32	4,800	34		o	CE cURus
D06E01MWxT00	60x60x10	5 Vd.c.	4 - 6	0.75	20	20	4,200	28.7	o	o	CE
D06E04MWST00	60x60x10	12 Vd.c.	7 - 13	1.6	20	20	4,200	28.7		o	CE UR
D06E04HWST00	60x60x10	12 Vd.c.	7 - 13	1.8	24	27	4,900	33.1		o	CE UR
D06E01HWST00	60x60x10	5 Vd.c.	4 - 6	0.75	24	27	4,900	33.1		o	CE

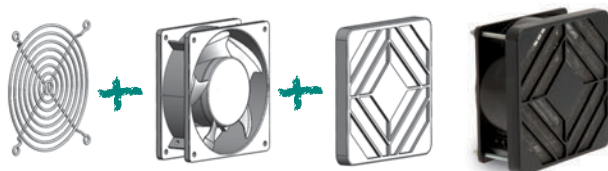
x = B (ball) or S (sleeve)

Model	Dimensions	Rated Voltage	Voltage Range	Rated Power	Max Air Flow	Static Pressure	Rated Speed	Noise	Bearing Type		Approvals
	(mm)	(V)	(V)	(W)	(m³/h)	(Pa)	(RPM)	[(dB(A)]	Ball	Sleeve	
D06F01MWxA00	60x60x15	5 Vd.c.	4 - 6	1.3	24	26	3,900	31.2	o	o	CE UR
D06F04MWxA00	60x60x15	12 Vd.c.	7 - 13	1.3	24	26	3,900	31.2	o	o	CE cURus
D06F05HWBA00	60x60x15	24 Vd.c.	21.6 - 26.4	2.2	26	28	4,500	35.2	o		CE
D06F05MWxA00	60x60x15	24 Vd.c.	17 - 27	1.7	24	26	3,900	31.2	o	o	CE
D06F04HWSA00	60x60x15	12 Vd.c.	7 - 13	1.6	27	36	4,500	33.4		o	CE UR
D06F05HWSA00	60x60x15	24 Vd.c.	21.6 - 26.4	2.2	26	38	4,500	35.2		o	CE cURus
D06F01HWSA00	60x60x15	5 Vd.c.	4 - 6	1.9	27	36	4,500	33.4		o	CE UR
D06D04HWxA00	60x60x20	12 Vd.c.	7 - 13	1.9	28	34	4,500	31.0	o	o	CE UR
D06D04LWxA00	60x60x20	12 Vd.c.	7 - 13	0.96	21	21	3,500	23.5	o	o	CE UR
D06D04MWxA00	60x60x20	12 Vd.c.	7 - 13	1.6	23	25	3,900	26.4	o	o	CE UR
D06D05LWxA00	60x60x20	24 Vd.c.	17 - 27	1.7	21	21	3,500	23.5	o	o	CE cURus
D06D05MWxA00	60x60x20	24 Vd.c.	17 - 27	1.9	23	25	3,900	26.4	o	o	CE UR
D06A04LWBA00	60x60x25	12 Vd.c.	10.8 - 13.2	0.96	23	18	2,700	20.6	o		CE cURus
D06A04MWBA00	60x60x25	12 Vd.c.	10.8 - 13.2	1.7	32	32	3,600	29.8	o		CE UR
D06A04SWBA00	60x60x25	12 Vd.c.	10.8 - 13.2	3.2	50	67	5,300	40.5	o		CE cURus
D06A05HWxA00	60x60x25	24 Vd.c.	21.6 - 26.4	3.6	42	50	4,500	35.2	o	o	CE cURus
D06A05SWBA00	60x60x25	24 Vd.c.	21.6 - 26.4	3.8	47	60	5,000	37.6	o		CE cURus
D06A04HWSA00	60x60x25	12 Vd.c.	10.8 - 13.2	2.8	42	50	4,500	35.2		o	CE cURus
D06A04SWSA00	60x60x25	12 Vd.c.	10.8 - 13.2	4.2	46	57	5,000	40.0		o	CE cURus
D06A04LWSA00	60x60x25	12 Vd.c.	10.8 - 13.2	0.96	22	16	2,500	18.1		o	CE UR
D06A04MWSA00	60x60x25	12 Vd.c.	10.8 - 13.2	1.7	31	30	3,500	28.6		o	CE UR
D06A05SWSA00	60x60x25	24 Vd.c.	21.6 - 26.4	3.8	47	60	5,000	37.6		o	CE cURus
D06A05LWSA00	60x60x25	24 Vd.c.	21.6 - 26.4	1.9	22	16	2,500	18.1		o	CE UR
D06A05MWSA00	60x60x25	24 Vd.c.	17 - 27	1.9	31	30	3,500	28.6		o	CE UR
D07A04MWxA00	70x70x25	12 Vd.c.	7 - 13	1.9	55	44	3,800	32.0	o	o	CE UR
D07A05HWxA00	70x70x25	24 Vd.c.	17 - 27	3.1	61	55	4,200	35.5	o	o	CE
D07A05MWxA00	70x70x25	24 Vd.c.	17 - 27	2.6	55	44	3,800	32.0	o	o	CE
D07A04HWSA00	70x70x25	12 Vd.c.	7 - 13	2.3	61	55	4,200	35.5		o	CE UR
D08F01MWxA00	80x80x15	5 Vd.c.	4 - 6	1.2	38	21	2,440	26.0	o	o	CE UR
D08F04HWxA00	80x80x15	12 Vd.c.	7 - 13	2.3	51	32	3,200	31.4	o	o	CE UR
D08F04MWBA00	80x80x15	12 Vd.c.	10.8 - 13.2	1.8	38	21	2,440	26.0	o		CE UR
D08F05MWxA00	80x80x15	24 Vd.c.	17 - 27	2.4	38	21	2,440	26.0	o	o	CE UR
D08F04MWSA00	80x80x15	12 Vd.c.	10.8 - 13.2	1.8	37	19	2,440	24.9		o	CE UR
D08F05HWSA00	80x80x15	24 Vd.c.	17 - 27	3.1	51	32	3,400	31.4		o	CE UR
D08F01HWSA00	80x80x15	5 Vd.c.	4 - 6	0.44	51	32	3,200	31.4		o	CE UR
D08D04HWBA00	80x80x20	12 Vd.c.	10.8 - 13.2	2.9	49	37	3,100	34.9	o		CE UR
D08D04MWxA00	80x80x20	12 Vd.c.	7 - 13	1.9	40	24	2,550	27.0	o	o	CE cURus
D08D05HWBA00	80x80x20	24 Vd.c.	21.6 - 26.4	3.6	49	37	3,100	32.4	o		CE UR
D08D05MWxA00	80x80x20	24 Vd.c.	17 - 27	3.1	40	24	2,550	27.0	o	o	CE cURus
D08D04HWSA00	80x80x20	12 Vd.c.	10.8 - 13.2	2.9	49	37	3,000	34.0		o	CE UR
D08D05HWSA00	80x80x20	24 Vd.c.	21.6 - 26.4	3.6	47	39	3,000	34.0		o	CE UR
D08A04HWBA00	80x80x25	12 Vd.c.	7 - 13	1.9	68	38	3,000	33.4	o		CE cURus
D08A04LWxA00	80x80x25	12 Vd.c.	7 - 13	0.72	47	20	2,100	21.6	o	o	CE UR
D08A04MWBA00	80x80x25	12 Vd.c.	7 - 13	1.1	57	29	2,500	28.3	o		CE UR
D08A04SWxA00	80x80x25	12 Vd.c.	10.8 - 13.2	5.4	89	66	3,900	40.8	o	o	CE cURus
D08A05HWBA00	80x80x25	24 Vd.c.	21.6 - 26.4	3.8	70	39	3,200	36.2	o		CE UR
D08A05MWBA00	80x80x25	24 Vd.c.	21.6 - 26.4	2.4	55	25	2,500	29.4	o		CE cURus
D08A05SWxA00	80x80x25	24 Vd.c.	21.6 - 26.4	6.2	89	66	3,900	40.8	o	o	CE cURus
D08A04MWSA00	80x80x25	12 Vd.c.	7 - 13	1.1	57	29	2,500	28.3		o	CE cURus
D08A04HWSA00	80x80x25	12 Vd.c.	10.8 - 13.2	3.0	66	35	3,000	35.2		o	CE cURus
D08A05MWSA00	80x80x25	24 Vd.c.	24.6 - 26.4	2.4	53	23	2,400	28.6		o	CE cURus
D08A05LWSA00	80x80x25	24 Vd.c.	21.6 - 26.4	2.2	43	17	2,000	22.7		o	CE UR
D08A05HWSA00	80x80x25	24 Vd.c.	21.6 - 26.4	3.8	70	39	3,000	35.2		o	CE UR
D09D04MWxA00	92x92x20	12 Vd.c.	7 - 13	1.9	49	21	2,430	28.9	o	o	CE UR

x = B (ball) or S (sleeve)

Model	Dimensions	Rated Voltage	Voltage Range	Rated Power	Max Air Flow	Static Pressure	Rated Speed	Noise	Bearing Type		Approvals
	(mm)	(V)	(V)	(W)	(m³/h)	(Pa)	(RPM)	[(dB(A)]	Ball	Sleeve	
D09D05MWxA00	92x92x20	24 Vd.c.	17 - 27	2.4	49	21	2,430	28.9	o	o	CE cURus
D09D04HWSA00	92x92x20	12 Vd.c.	7 - 13	3.0	56	26	2,700	32.8		o	CE UR
D09D05HWSA00	92x92x20	24 Vd.c.	17 - 27	3.4	56	26	2,700	32.8		o	CE UR
D09A04EWBZ00	92x92x25	12 Vd.c.	10.8 - 13.2	1.1	51	8	1,600	19.1	o		CE
D09A04HWxZ00	92x92x25	12 Vd.c.	7 - 13	3.0	95	37	2,900	37.5	o	o	CE cURus
D09A04LWxZ00	92x92x25	12 Vd.c.	7 - 13	1.6	66	18	2,100	27.5	o	o	CE cURus
D09A04MWxZ00	92x92x25	12 Vd.c.	7 - 13	2.0	76	25	2,400	31.2	o	o	CE cURus
D09A04SWBZ00	92x92x25	12 Vd.c.	7 - 13	4.7	105	47	3,300	39.4	o		CE cURus
D09A05HWBZ00	92x92x25	24 Vd.c.	21.6 - 26.4	3.6	95	36	2,900	37.5	o		CE cURus
D09A05LWxZ00	92x92x25	24 Vd.c.	17 - 27	1.9	66	18	2,000	28.7	o	o	CE cURus
D09A05MWxZ00	92x92x25	24 Vd.c.	17 - 27	2.9	76	25	2,400	31.2	o	o	CE cURus
D09A05SWBZ00	92x92x25	24 Vd.c.	21.6 - 26.4	5.0	105	47	3,300	42.2	o		CE cURus
D09A04SWSZ00	92x92x25	12 Vd.c.	10.8 - 13.2	4.7	105	47	3,300	42.2		o	CE cURus
D09A05SWSZ00	92x92x25	24 Vd.c.	21.6 - 26.4	5.0	105	47	3,300	42.2		o	CE cURus
D09A05HWSZ00	92x92x25	24 Vd.c.	21.6 - 26.4	3.6	87	34	2,900	35.4		o	CE cURus
D12A04LWBZ00	120x120x25	12 Vd.c.	7 - 13	2.9	122	23	1,800	34.4	o		CE cURus
D12A04MWBZ00	120x120x25	12 Vd.c.	10.8 - 13.2	4.0	138	28	2,050	38.0	o		CE cURus
D12A04SWxZ00	120x120x25	12 Vd.c.	10.8 - 13.2	6.0	168	43	2,500	43.3	o	o	CE cURus
D12A05HWBZ00	120x120x25	24 Vd.c.	21.6 - 24.6	4.6	149	33	2,200	39.1	o		CE cURus
D12A05LWxZ00	120x120x25	24 Vd.c.	17 - 27	3.4	122	23	1,800	34.4	o	o	CE cURus
D12A05MWxZ00	120x120x25	24 Vd.c.	17 - 27	4.1	141	29	2,050	38.0	o	o	CE cURus
D12A05SWBZ00	120x120x25	24 Vd.c.	21.6 - 26.4	6.0	168	43	2,500	43.3	o		CE cURus
D12A04MWSZ00	120x120x25	12 Vd.c.	10.8 - 13.2	4.1	138	28	2,050	38.0		o	CE cURus
D12A04HWSZ00	120x120x25	12 Vd.c.	7 - 13	5.3	151	34	2,200	39.1		o	CE cURus
D12A04LSWZ00	120x120x25	12 Vd.c.	10.8 - 13.2	2.9	122	23	1,800	34.4		o	CE UR
D12A05HWSZ00	120x120x25	24 Vd.c.	21.6 - 26.4	5.8	149	33	2,200	39.1		o	CE cURus
D12A05SWSZ00	120x120x25	24 Vd.c.	21.6 - 26.4	6.0	168	43	2,500	43.3		o	CE cURus
D12G05HWBA00	120x120x32	24 Vd.c.	21.6 - 26.4	6.0	183	54	2,750	43.3	o		CE
D12B04HWBZ00	120x120x38	12 Vd.c.	10.8 - 13.2	6.0	179	66	2,800	46.7	o		CE UR
D12B04LWBZ00	120x120x38	12 Vd.c.	10.8 - 13.2	2.9	122	32	1,950	36.2	o		CE UR
D12B04SWxZ00	120x120x38	12 Vd.c.	7 - 13	8.4	204	80	3,200	48.0	o	o	CE UR
D12B05HWxZ00	120x120x38	24 Vd.c.	21.6 - 26.4	7.7	179	66	2,800	46.7	o	o	CE cURus
D12B05LWxZ00	120x120x38	24 Vd.c.	17 - 27	3.4	123	22	1,950	32.9	o	o	CE cURus
D12B05MWxZ00	120x120x38	24 Vd.c.	17 - 27	5.5	160	56	2,540	41.0	o	o	CE cURus
D12B05SWBZ00	120x120x38	24 Vd.c.	21.6 - 26.4	9.6	204	83	3,200	48.0	o		CE cURus
D12B07HWBZ00	120x120x38	48 Vd.c.	43.02 - 52.8	9.6	179	66	2,800	46.7	o		CE UR
D12B07LWxZ00	120x120x38	48 Vd.c.	35 - 53	4.8	123	22	1,950	32.9	o	o	CE UR
D12B07MWBZ00	120x120x38	48 Vd.c.	43.2 - 52.8	6.7	164	57	2,540	45.0	o		CE UR
D12B04LSWZ00	120x120x38	12 Vd.c.	10.8 - 13.2	2.9	122	32	1,950	36.2		o	CE UR
D12B04MWSZ00	120x120x38	12 Vd.c.	7 - 13	4.2	160	56	2,540	41.0		o	CE UR
D12B04HWSZ00	120x120x38	12 Vd.c.	10.8 - 13.2	6.0	179	66	2,800	46.7		o	CE UR
D12B05HWSZ00	120x120x38	24 Vd.c.	21.6 - 26.4	7.7	179	66	2,800	46.7		o	CE cURus
D12B05SWSZ00	120x120x38	24 Vd.c.	21.6 - 26.4	9.6	204	83	3,200	48.0		o	CE cURus
D12B07MWSZ00	120x120x38	48 Vd.c.	43.2 - 52.8	6.7	164	57	2,540	45.0		o	CE UR
D12B07HWSZ00	120x120x38	48 Vd.c.	43.2 - 52.8	9.6	179	66	2,800	46.7		o	CE UR
D22S07HKBD00	218x218x83	48 Vd.c.	36 - 60	60	1,030	210	2,840	67.0	o		CE
DC CENTRIFUGAL FANS											
DC6G04HWxA00	75x75x30	12 Vd.c.	7 - 13	3.6	18	89	3,000	38.5	o	o	CE UR
DC6G04MWBA00	75x75x30	12 Vd.c.	7 - 13	2.4	13	58	2,600	34.9	o		CE UR
DC6G05MWxA00	75x75x30	24 Vd.c.	17 - 27	3.4	13	58	2,600	34.9	o	o	CE UR
DC1G05MWBA01	120x120x31	24 Vd.c.	21.6 - 26.4	9.4	48	220	2,300	49.0	o		CE cURus

x = B (ball) or S (sleeve)



Frame fans in kit

119x119x38mm frame fans with guard and mesh, supplied in a kit solution (not assembled).

Model	Approvals
A12B23MTBAQ109	CE

Special frame fans



Model	Dimensions	Rated Voltage	Voltage Range	Rated Power	Max Air Flow	Static Pressure	Rated Speed	Noise	Bearing Type		Approvals
	(mm)	(V)	(V)	(W)	(m³/h)	(Pa)	(RPM)	[[dB(A)]]	Ball	Sleeve	
IP55 DC FRAME FANS											
D04D04HWBZF0	40x40x20	12 Vd.c.	10.8 - 13.2	1.3	15	70	7,800	36.0	o		CE
D04E05MWBTF0	40x40x10	24 Vd.c.	21.6 - 26.4	1.9	8,5	19	4,800	22.1	o		CE
D06A04LWBAF0	60x60x25	12 Vd.c.	10.8 - 13.2	0.96	24	17	2,500	18.1	o		CE
D06A05HWBAF0	60x60x25	24 Vd.c.	17 - 27	3.6	41	44	4,500	35.2	o		CE
D06A05SWBAF0	60x60x25	24 Vd.c.	17 - 27	3.8	46	60	5,000	37.9	o		CE
D07A04HWBAF0	70x70x25	12 Vd.c.	7 - 13	2.3	61	55	4,200	35.5	o		CE
D08A04HWBAF0	80x80x25	12 Vd.c.	10.8 - 13.2	3.0	66	37	3,100	34.4	o		CE cURus
D08A04LWBAF0	80x80x25	12 Vd.c.	7 - 13	1.4	44	18	2,100	22.5	o		CE
D08A05HWBAF0	80x80x25	24 Vd.c.	21.6 - 26.4	3.8	69	37	3,200	36.2	o		CE
D08A05MWBAF0	80x80x25	24 Vd.c.	21.6 - 26.4	2.6	55	25	2,500	29.4	o		CE
D08A05SWBAF0	80x80x25	24 Vd.c.	21.6 - 26.4	6.2	87	59	3,900	40.9	o		CE
D09A04HWBZF0	92x92x25	12 Vd.c.	10.8 - 13.2	3.0	95	37	2,900	37.5	o		CE
D09A05HWBZF0	92x92x25	24 Vd.c.	17 - 27	3.6	95	36	2,900	37.5	o		CE
D09A05LWBZF0	92x92x25	24 Vd.c.	17 - 27	1.9	59	16	2,100	25.0	o		CE
D09A05SWBZF0	92x92x25	24 Vd.c.	17 - 27	5.0	97	43	3,300	39.4	o		CE
D12A04HWBZF0	120x120x25	12 Vd.c.	7 - 13	4.4	151	34	2,200	39.1	o		CE UR
D12A04LWBZF0	120x120x25	12 Vd.c.	7 - 13	2.9	122	23	1,800	34.4	o		CE cURus
D12A05HWBZF0	120x120x25	24 Vd.c.	17 - 27	4.6	150	34	2,200	39.1	o		CE
D12A05HWBZFW80	120x120x25	24 Vd.c.	21.6 - 26.4	4.6	150	34	2,200	39.1	o		CE
D12A05SWBZF0	120x120x25	24 Vd.c.	17 - 27	6.0	168	43	2,500	43.3	o		CE
D12B04HWBZF0	120x120x38	12 Vd.c.	7 - 13	6.0	178	59	2,800	42.8	o		CE
D12B05HWBZF0	120x120x38	24 Vd.c.	21.6 - 26.4	7.7	180	66	2,800	46.7	o		CE

Special frame fans

Model	Dimensions	Rated Voltage	Rated Power (50/60Hz)	Max Air Flow (50/60Hz)	Static Pressure (50/60Hz)	Rated Speed (50/60Hz)	Noise (50/60Hz)	Bearing Type		Approvals
	(mm)	(V)	(W)	(m³/h)	(Pa)	(RPM)	[(dB(A)]	Ball	Sleeve	
IP55 AC FRAME FANS										
A08B12HWBFF0	80x80x38	115 Va.c.	14/12	41/51	40/55	2,500/3,000	32.0/36.0	o		CE
A08B23HWBFF0	80x80x38	230 Va.c.	14/12	41/51	40/55	2,500/3,000	32.0/36.0	o		CE
A12W23HWBWF0	113x113x38	230 Va.c.	20/19	150/180	66/80	2,550/2,900	46.0/49.0	o		CE
A12Z23HWBWF0	113x113x38	230 Va.c.	18/18	140/155	62/75	2,600/2,950	42.0/45.0	o		CE
A12B12HWBWF0	120x120x38	115 Va.c.	20/18	136/168	57/80	2,750/3,050	46.0/49.0	o		CE
A12B23HWBWF0	120x120x38	230 Va.c.	20/19	148/182	65/80	2,750/3,050	46.0/49.0	o		CE
A12B23LWBWF0	120x120x38	230 Va.c.	11/10	114/102	27/22	2,200/1,800	43.0/42.0	o		CE
A12B23STBWF0	120x120x38	230 Va.c.	24/22	143/199	62/97	2,700/3,100	48.0/50.0	o		CE
ALL METAL AC FRAME FANS										
A09B12HWBM00	92x92x38	115 Va.c.	12/11	75/87	59/74	2,700/3,200	37.0/42.0	o		CE cURus
A09B23HWBM00	92x92x38	230 Va.c.	12/11	75/87	59/74	2,700/3,200	37.0/42.0	o		CE cURus
A12B12HTBM00	120x120x38	115 Va.c.	17/15	151/175	64/59	2,700/3,100	42.0/46.0	o		CE cURus
A12B12LTBM00	120x120x38	115 Va.c.	17/15	107/114	25/22	2,000/2,050	33.0/35.0	o		CE cURus
A12B23HTBM00	120x120x38	230 Va.c.	17/15	151/175	64/59	2,700/3,100	42.0/46.0	o		CE cURus
A12B23LTBM00	120x120x38	230 Va.c.	17/15	107/114	25/22	2,000/2,050	33.0/35.0	o		CE cURus
A17M12SWBM00	172x150x55	115 Va.c.	42/42	332/391	137/157	2,800/3,250	49.0/53.0	o		CE cURus
A17M23SWBM00	172x150x55	230 Va.c.	42/42	332/391	137/157	2,800/3,250	49.0/53.0	o		CE cURus
A17T12SWBM00	172x150x55	115 Va.c.	45/45	383/434	123/126	2,750/3,150	58.0/61.0	o		CE cURus
A17T23SWBM00	172x150x55	230 Va.c.	45/45	383/434	123/126	2,750/3,150	58.0/61.0	o		CE cURus
HIGH TEMPERATURE AC FRAME FANS										
A09B12HWBMT0	92x92x38	115 Va.c.	12/11	75/87	59/74	2,700/3,200	37.0/42.0	o		CE
A09B23HTBMT0	92x92x38	230 Va.c.	12/11	75/87	59/74	2,700/3,200	37.0/42.0	o		CE
A17M12SWBMT0	172x150x55	115 Va.c.	42/42	332/391	137/157	2,800/3,250	49.0/53.0	o		CE cURus
A17M23SWBMT0	172x150x55	230 Va.c.	42/42	332/391	137/157	2,800/3,250	49.0/53.0	o		CE cURus
A17T12SWBMT0	172x150x55	115 Va.c.	45/45	383/434	123/123	2,750/3,150	58.0/61.0	o		CE cURus
A17T23SWBMT0	172x150x55	230 Va.c.	45/45	383/434	123/123	2,750/3,150	58.0/61.0	o		CE cURus
EC (ELECTRONICALLY COMMUTATED) FRAME FANS										
E08B12HWBL00	80x80x38	115 Va.c.	5.0/5.0	64/68	46/53	2,800/3,000	35.0/37.0	o		CE
E08B23HWBL00	80x80x38	230 Va.c.	5.0/5.0	68/73	53/61	3,000/3,200	37.0/39.0	o		CE
E12B23HWBL00	120x120x38	230 Va.c.	6.0/6.0	198/206	79/77	3,000/3,100	45.0/46.8	o		CE
E12B23HWBLF0	120x120x38	230 Va.c.	5.8/6.7	190/200	70/75	2,735/2,850	45.0/46.8	o		CE
E12B23LWBL00	120x120x38	230 Va.c.	2.5/2.5	132/138	32/37	2,000/2,100	34.0/35.7	o		CE
E12B23MWBL00	120x120x38	230 Va.c.	4.0/4.0	169/176	55/58	2,500/2,700	40.0/41.8	o		CE

Frame fans accessories

Metal fan guards



Model	Dimensions
	(ø mm)
25	24
40	29.1
45	38.3
50	42
60	53
80	76
92	90
120	115.6
127	115.6
150	154.4
150/S	154.4
GMP200NK	215
GMP250NK	278

Plastic fan guards



Model	Dimensions
	(mm)
G40	42.3x42.3
G60	60x60
G80	81x81
G92	92x92
G120	121x121
G150	173x173

Fast assembly plastic fan guards



Model	Dimensions
	(mm)
G120/S	120x120



Metal fan guard

Model	Dimensions
	(mm)
G120M-7035	120x120

Plastic filters



Model	Dimensions
	(mm)
F40/MR	46.4x 46.4
F60/MR	64x64
F80/MR	86x86
F92/MR	97x97
F120/MR	126x126
F150/MR	179x179

Metal filters



Model	Dimensions
	(mm)
FM/60	60x60
FM/80	83.8x83.8
FM/92	92x92
FM/120	119x119
FM/150	182x182

Spare filter media



Model	Dimensions
	(mm)
M40	42x42
M60	60x60
M80	81x81
M92	92x92
M120	120x120
M150	172x172

Fan power leads



straight version	45° version	Length of cable
Model	Model	
		(mm)
C24	C24-45	610
C36	C36-45	910
C60	C60-45	1,520
C80	C80-45	2,032
C100	C100-45	2,540
C118	-	3,000

Elastic rivets



Model
EAR4401N

Plastic rivets



Round flat head version	V-shaped head version	RAL color
Model	Model	
FAR175TPN	FAR175TSN	9005 Black
FAR175TPR	FAR175TSR	7032 Grey
FAR225TPN	FAR225TSN	9005 Black
FAR225TPR	FAR225TSR	7032 Grey

All accessories are



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