



VENTILATION FOR ELECTRICAL CABINETS AND THERMAL MANAGEMENT

RC





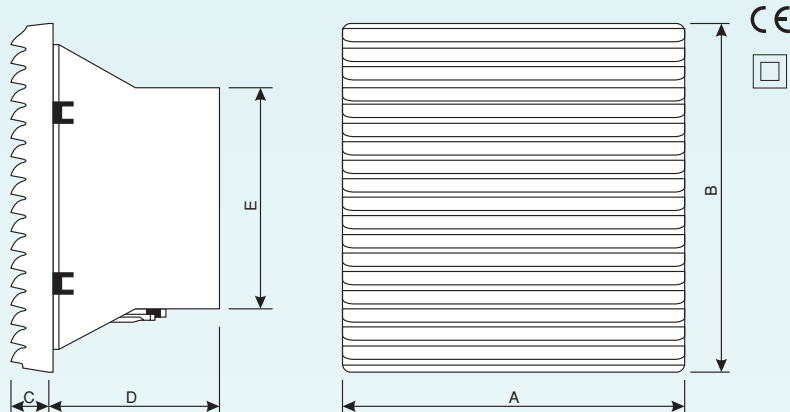
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Main features

- Axial fans for heat dissipation in enclosures supplied with grille, without filter.
- Motor mounted on ball bearing to allow 30.000 hours of continuous operation.
- Fans completely made in self extinguishing material V0 conforming to UL, resistant to temperature from -20°C to +50°C.
- The fan assembly RC maintains the original protection grade IP43, IP44, IP54, of the electrical cabinet conforming to Standard EN 60529.
- Quick installation, easily removable grille to allow the maintenance of the filters whilst the fan is operating.
- Slotted external grilles allow drainage of condensation.
- Fans in accordance with Standards CEI 17-13/1 (IEC 439-1), EN 60335-2-80.
- Grey colour RAL 7032.

Dimensions



Model	A	B	C	D	∅ E	Kg
RC 10.13	130	140	24	74	98	0,6
RC 12.13	130	140	24	74	114	0,6
RC 14.25	256	256	29	91	147	1,2
RC 14.32	323	322	34	145	147	1,6
RC 15.32	323	322	34	145	147	2,6
RC 20.32	323	322	34	140	204	3

Technical Data

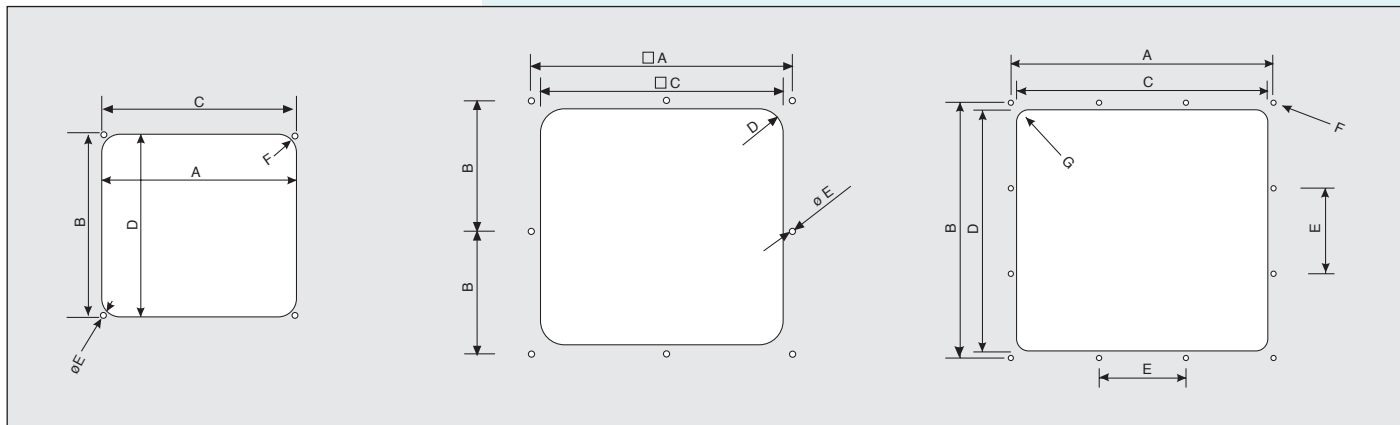
Model	RC 10.13	RC 12.13	RC 14.25	RC 14.32	RC 15.32	RC 20.32
Ref./Cod. 110-120 V	OW 958 1	OW 959 9	OW 953 2	OW 972 2	OW 960 7	OW 961 5
Ref./Cod. 220-240 V	OW 954 0	OW 955 7	OW 952 4	OW 971 4	OW 956 5	OW 957 3
Hz	50/60	50/60	50/60	50/60	50/60	50/60
W	16	17	30	30	35	35
Nom. curr. in Amp.	0,20/0,10	0,22/0,11	0,44/0,22	0,44/0,23	0,30/0,15	0,50/0,35
dB (A) at 2 m	42	42	50	50	56	63
RPM	2500	2250	2320	2320	2800	2750
Flow rate m ³ /h	59	67	250	270	290	520



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FILTERS & GRILLES RC

Drilling scheme for Fan Assembly and Grilles



RC 10.13 - RC 12.13 - G 13					
A	B	C	D	E (ø)	F (r)
117	123	115	125	3	12

RC 14.25 - G 25				
A	B	C	D (r)	E (ø)
232	116	220	15	3,5

RC 14.32 - RC 15.32 - RC 20.32 - G 32						
A	B	C	D	E	F (ø)	G (r)
302	297	287	281	100	3,5	12,5

Filters for Grilles and Fan Assembly

High performance filters made of unbreakable synthetic fibre flame protection level F1 conforming to Standard DIN 53438.

The filter F32/5 allows a dust filtering up to 10µm granulometry.



Colour RAL 7032

Model	Ref.	For Products	Remarks
F13/4	OW 962 3	RC 10.13 - RC 12.13 - G13	to keep IP44 protection
F13/5	OW 969 8	RC 10.13 - RC 12.13 - G13	to keep IP54 protection
F25/3	OW 967 2	RC 14.25 - G25	to keep IP43 protection
F25/4	OW 968 0	RC 14.25 - G25	to keep IP44 protection
F25/5	OW 991 2	RC 14.25 - G25	to keep IP54 protection
F32/4	OW 963 1	RC 14.32 - RC 15.32 - RC 20.32 - G32	to keep IP44 protection
F32/5	OW 964 9	RC 14.32 - RC 15.32 - RC 20.32 - G32	to keep IP55 protection

External exhaust grilles

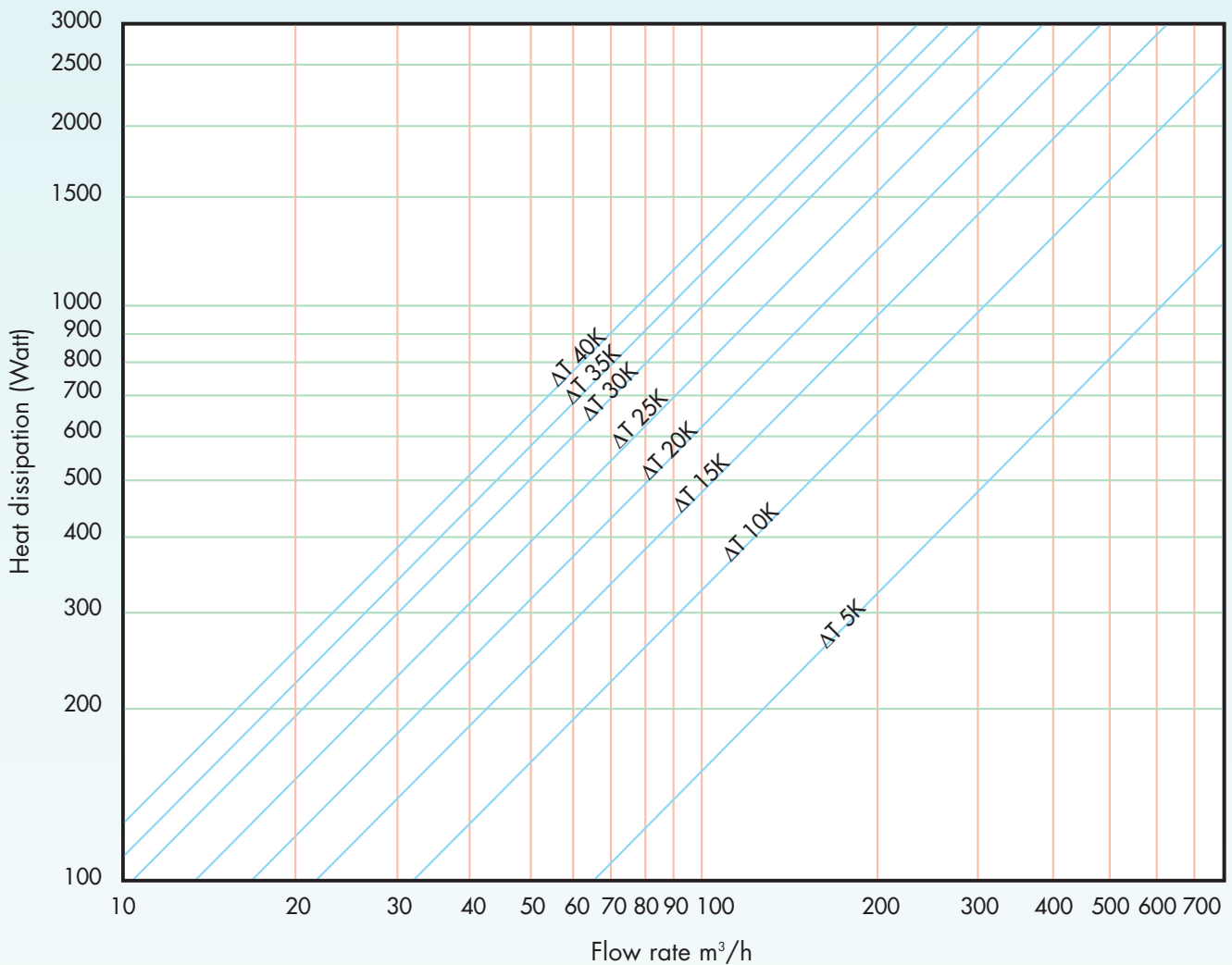
External exhaust grilles with variable protection grade according to the filter. Completely made in self-extinguishing material VO conforming to UL94 with resistance to temperature from -20°C to +50°C.

Model	Ref.
G13	OW 965 6
G25	OW 951 6
G32	OW 966 4



SELECTION CHART FOR INSTALLATION

Selection chart for installation



The correct air capacity for appropriate selection of the fan assembly can be determined by consulting the above diagram.

- First determine the following :
 - The thermal power dissipated by the electronic equipments.
 - The maximum temperature allowed inside the cabinet or enclosure.
 - The maximum ambient temperature foreseen outside the cabinet or enclosure.
- Calculate the ΔT as the difference between the two temperatures.
- The point at which the horizontal frame line (green) of the dissipated thermal power bisects the diagonal line (blue) of the temperature difference (ΔT) will show the vertical line (red) indicating the air capacity required for the necessary dissipation in m³/h.
- Choose the correct fan on the performance table.

Natural heat loss through the cabinet walls should be taken into account.

In order to compensate the reduction of flow rate caused by dirty filters, an increase of 20% to the obtained value is advisable.