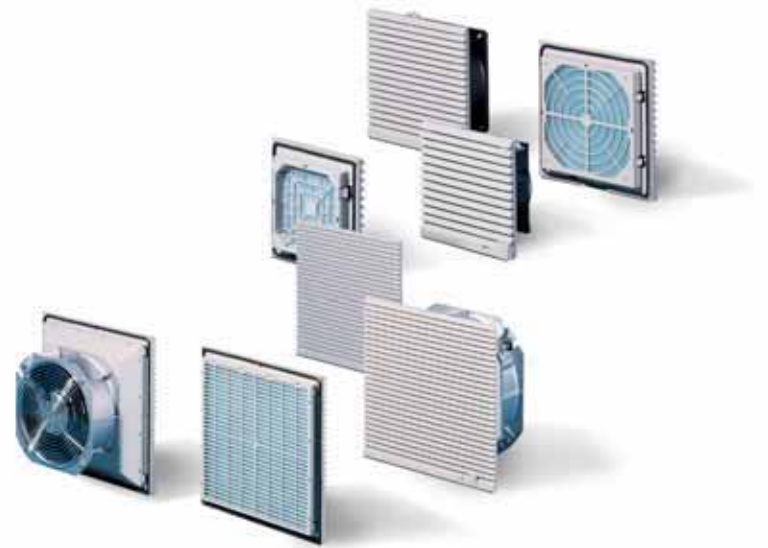


Fans and Filter Units, sk

Fan and filter units are an ideal cost-effective solution for dissipating heat loads provided the allowable internal temperature is higher than the ambient temperature. In their standard form, fans direct air into the enclosure via a filter - pressurising it and thereby further preventing the ingress of unfiltered ambient air. The fans can also be easily reversed so that they extract the warmer air from the enclosure.

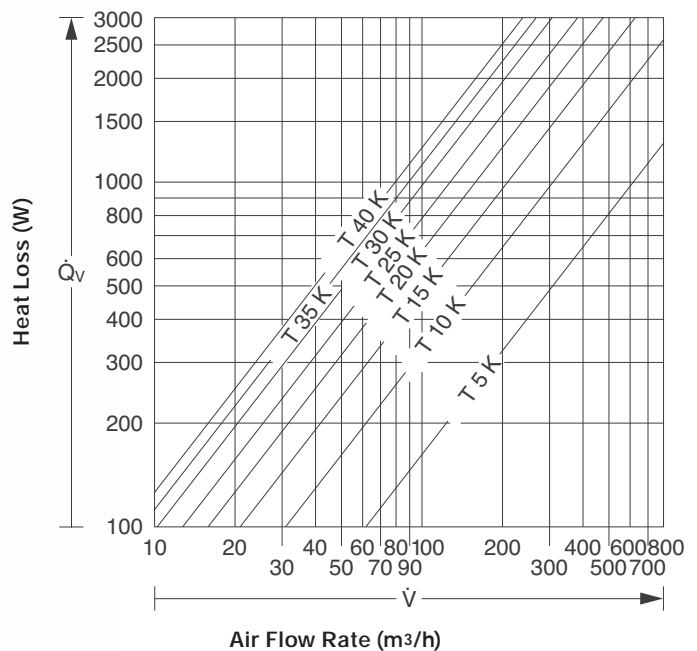
The units are available in a variety of sizes and voltages with an air flow rate range of 20 to 700m³/h. All fan and filter units have an IP 54 protection rating and include dense polyester filter mats.



Selection Procedure

Use the following method to help select the most appropriate capacity fan.

Calculate the heat loss of the equipment to be installed in the enclosure in Watts (W)	Q _v	Example: 300
Select the maximum internal temperature that you wish to maintain in the enclosure in °C	T _i	50
Select the maximum ambient temperature and calculate the difference (DT) T _i - T _u = DT 10	T _u	40
Refer to the graph and draw a horizontal line that coincides with the heat loss in Q _v	See below	
Stop at the appropriate gradient line that corresponds with your DT	ΔT	10
Project a line straight down that matches the required air flow rate of the fan in m ³ /h	m ³ /h	90



Fans and Filter Units, sk



Fan and Filter Mat	Outlet Filter	Dimensions (mm)			Air Flow Rate (m3/h)	Voltage (V) (50/60Hz)	Current (mA)	Spare Filter Mats		Hose Proof Hood
		Width mm	Height mm	Depth mm				Spare Filter Mats	Fine	
3321027	3321207	116.5	116.5	52.0	20	24 (DC)	125	3321700	-	3321800
3321047	3321207	116.5	116.5	52.0	20	48 (DC)	90	3321700	-	3321800
3321117	3321207	116.5	116.5	52.0	20/25	115	138/115	3321700	-	3321800
3321107	3321207	116.5	116.5	52.0	20/25	230	69/58	3321700	-	3321800
3322027	3322207	148.5	148.5	67.5	55	24 (DC)	150	3322700	-	3322800
3322047	3322207	148.5	148.5	67.5	55	48 (DC)	90	3322700	-	3322800
3322117	3322207	148.5	148.5	67.5	55/66	115	240/230	3322700	-	3322800
3322107	3322207	148.5	148.5	67.5	55/66	230	120/110	3322700	-	3322800
3323027	3323207	204.0	204.0	95.0	105	24 (DC)	150	3171100	3181100	3323800
3323047	3323207	204.0	204.0	95.0	105	48 (DC)	90	3171100	3181100	3323800
3323117	3323207	204.0	204.0	95.0	105/120	115	240/230	3171100	3181100	3323800
3323107	3323207	204.0	204.0	95.0	105/120	230	120/110	3171100	3181100	3323800
3324027	3325207	255.0	255.0	117.5	180	24 (DC)	300	3172100	3182100	3324800
3324047	3325207	255.0	255.0	117.5	180	48 (DC)	340	3172100	3182100	3324800
3324117	3325207	255.0	255.0	117.5	180/160	115	380/400	3172100	3182100	3324800
3324107	3325207	255.0	255.0	117.5	180/160	230	190/200	3172100	3182100	3324800
3325027	3325207	255.0	255.0	117.5	230	24 (DC)	590	3172100	3182100	3324800
3325047	3325207	255.0	255.0	117.5	230	48 (DC)	310	3172100	3182100	3324800
3325117	3325207	255.0	255.0	117.5	230/265	115	530/490	3172100	3182100	3324800
3325107	3325207	255.0	255.0	117.5	230/265	230	280/240	3172100	3182100	3324800
3326117	3326207	323.0	323.0	137.5	500/560	115	580/700	3173100	3183100	3326800
3326107	3326207	323.0	323.0	137.5	500/560	230	290/350	3173100	3183100	3326800
3327117	3326207	323.0	323.0	157.5	700/720	115	1500/2000	3327700	3183100	3326800
3327107	3326207	323.0	323.0	157.5	700/720	230	650/950	3327700	3183100	3326800
3327147	3326207	323.0	323.0	157.5	700/720	400/460	270/330	3327700	3183100	3326800



Standard fan/filter



Fan/filter with fine filter



Fan/filter with fine filter mat and hose proof hood



Speed control

Temperature dependent speed control for Rittal fan-and-filter units and air/air heat exchangers with the rated operating voltage of 230V AC, for noise reduction and to save energy in part load operation.



Hose Proof Hoods for fan-and-filter units/outlet filters

When the hose-proof hood is mounted above the fan-and-filter unit and outer filter in conjunction with a fine filter mat, a protection category of IP56 to EN 60 529/10.91 is achieved.

Material: Stainless steel

Protection category: In conjunction with the fan-and-filter units/outlet filters, NEMA 3R + 12 is met.