

Application

The DLK roof ventilating towers, being easy to install and with a pleasant and innovative design, are the best option when there is no room on the enclosure walls or when the rate of flow needed is greater than what can be provided by the FAN series of ventilated grilles.

Available air flow rates

Available in 5 capacities: from 600 to 4000 m³/h. Radial fans are used with the motor pin on a bearing. High volumetric efficiency and quality with an expected life of 50.000 working hours at an ambient temperature of 40°C.

High protection level

The covering structure's special configuration and the self-adhesive seal for coupling to the enclosure ensure the DLK/DLR units an IP44 protection level. A filter kit for IP54 protection is available on request.

Natural ventilating unit

A version is also available without a fan called DLR19XX0B. This is used when natural ventilation is enough to cool the enclosure and you want to maintain its high protection level.

Supply voltage

The DLK ventilating towers are available

for single-phase AC power at 230V and 115V. On request and for substantial quantities they can also be available with other voltages not given in the catalogue.

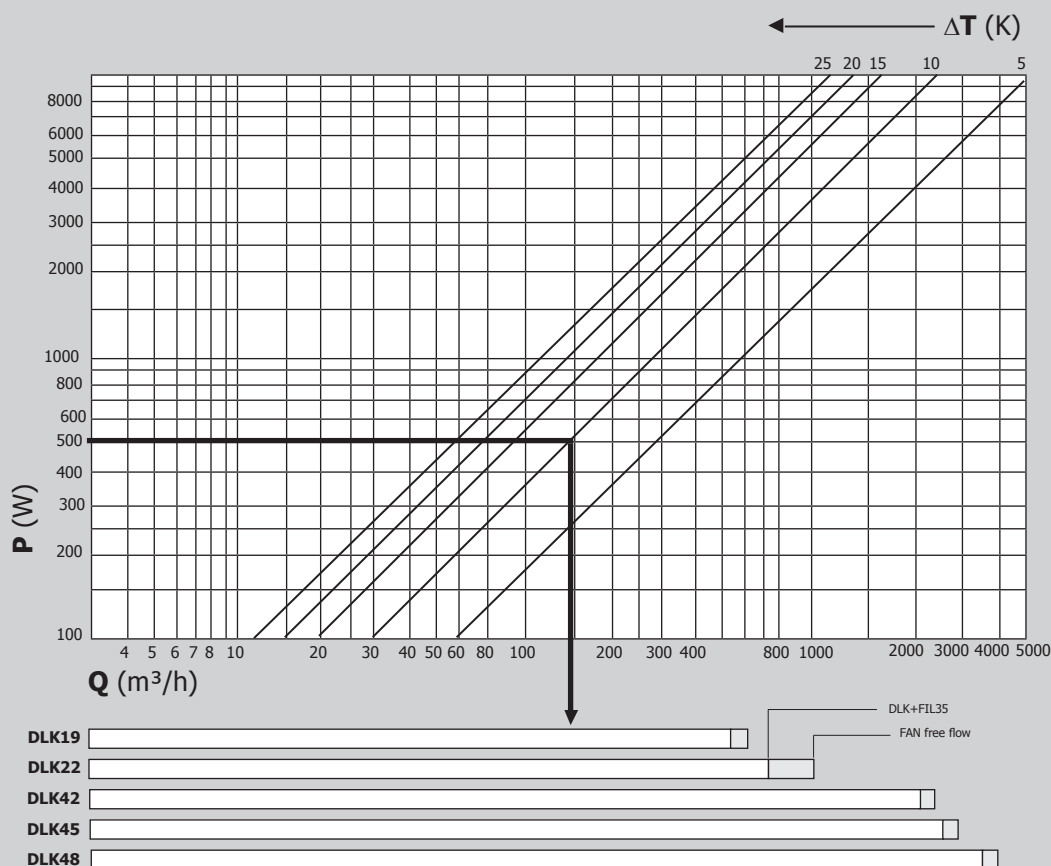
Low noise

A low noise level is one very important factor taken into account when designing the DLK units. They are in fact designed to minimise noise disturbance to provide quiet working environments.

Filter unit

The DLK ventilating towers are used together with the FIL35XN0B filtering grille for the suction of panel air.

Ventilating units with filter diagram selection



Q = Air flow rate
P = Power dissipates in the enclosure
ΔT = Temperature difference

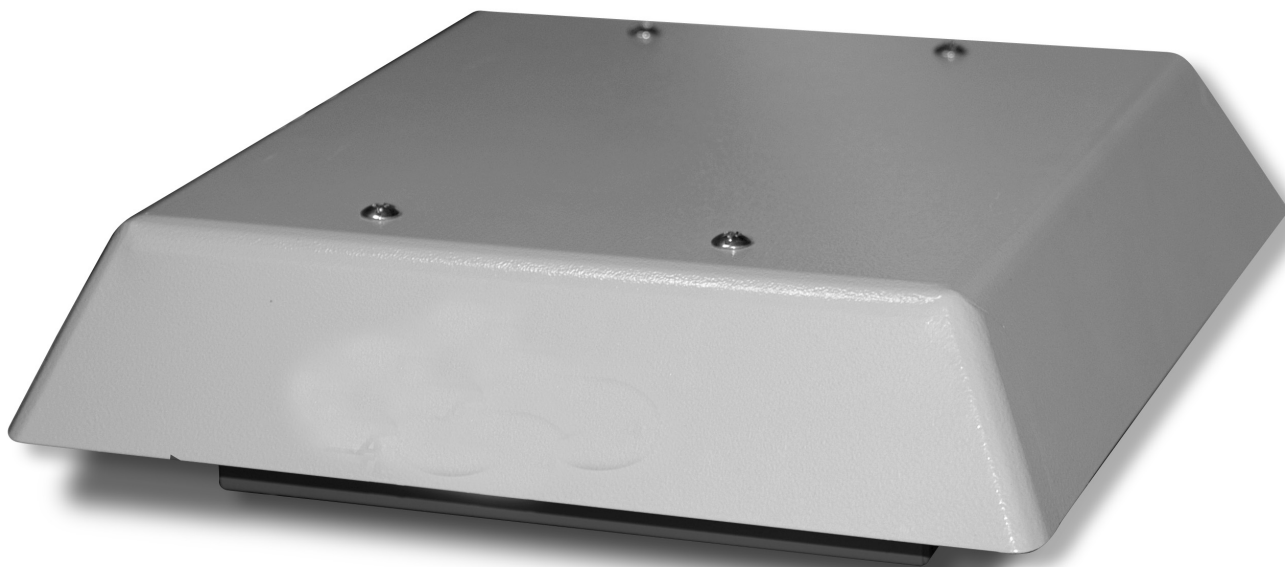
Example:

Dissipated power 500 W
Temperature difference 10 K
Necessary air flow rate 160 m³/h



Unit chosen
DLK19

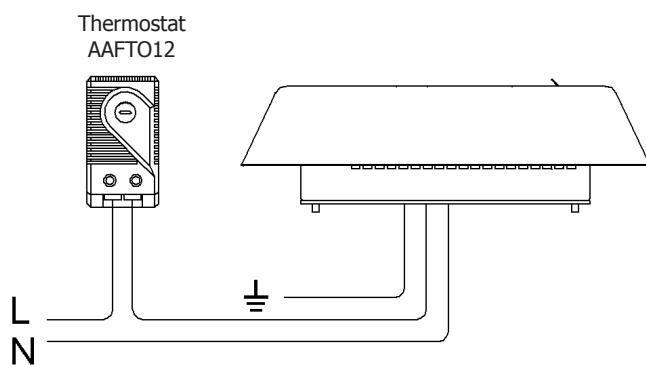
Air flow rate **600 - 4000 m³/h**



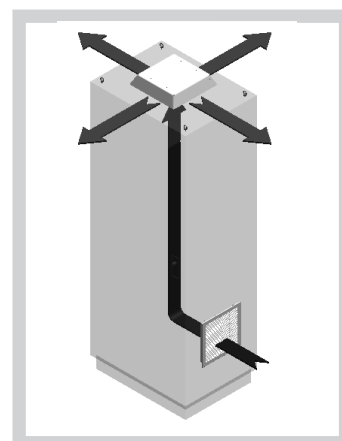
Application tips

- When choosing the DLK ventilating towers maintain a safety margin of at least 10% to compensate for any decrease in the rate of flow due to dirtying of the cloth filter.
- If you are using the high filtering capacity cloth filter/grille remember that the air flow rate will be less.
- The DLK ventilating tower can be switched on by a thermostat that powers it only when the temperature exceeds a set threshold (e.g. 35°C).

In this way, the fan works only when cooling is needed which saves energy, lengthens the life of the cloth filter and there is less maintenance.



Control diagram of a ventilating tower with a AAFTO12 thermostat



Characteristics	U.M.	DLK42BX0B	DLK45BX0B	DLK48BX0B
Fan air flow rate	m ³ /h	2300/2530	3000/3370	4000/4520
Fan+tower air flow rate	m ³ /h	2110/2390	2750/3180	3670/4270
Power supply	V ~ Hz	230 1~ 50-60	230 1~ 50-60	230 1~ 50-60
Dimensions HxWxD	mm	315x637x637	315x637x637	315x637x637
Absorbed electric power	W	117/160	330/480	420/615
Max. current	A	0,52/0,7	1,6/2,1	2,17/2,75
Over current protection	-	Inside motor	Inside motor	Inside motor
Electrical connection	-	Cable	Cable	Cable
Duty cycle	-	100%	100%	100%
Temperature limits	°C	-20 +60	-20 +60	-20 +60
Protection level EN60529	-	IP44	IP44	IP44
Noise level	dB (A)	62/64	72/74	71/74
DLK + 6 FIL35XN0B capacity	m ³ /h	1920/2200	2520/2930	3340/3930
Direction of the air flow	-	Inside towards outside	Inside towards outside	Inside towards outside
Motor support	-	Bearings	Bearings	Bearings
Conformity	-	CE	CE	CE
Colour	-	RAL 7035 orange peel effect		

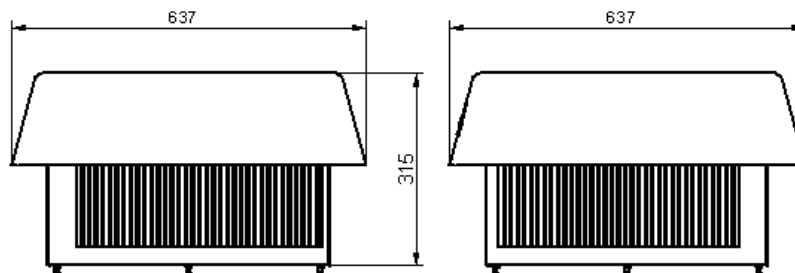
Accessories/Options	
Filter unit 325x325 mm	FIL35XN0B
Pack of 10 cloth filters for FAN35	AAFFN35
0-60°C thermostat, NO 10A	AAFTO12
5-60°C thermostat, change-over contact 10A	AAWTS10
Filter Kit for IP54 protection	C15X00000

REMARK : The drilling templates are merely indicative.

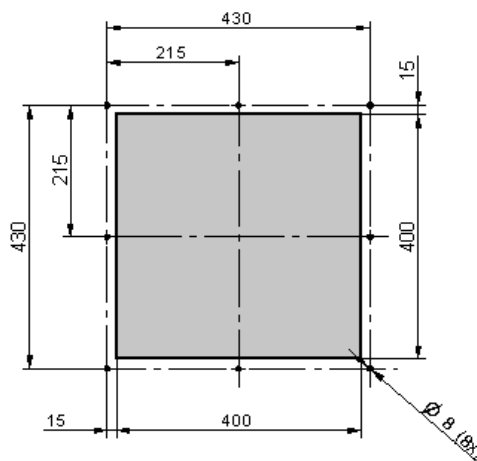
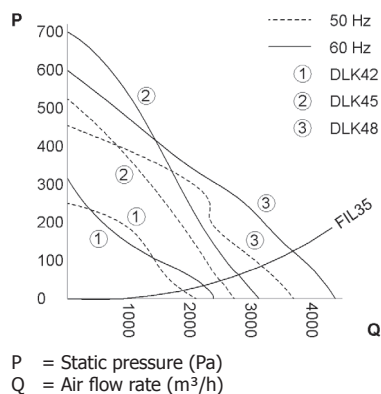
Always put in touch with our technical-sales department for further explanation you should need.



Dimensions



Performances



Drilling template

Characteristics	M.U.	DLR19XX0B	DLK19BX0B	DLK19CX0B	DLK22BX0B	DLK22CX0B
Fan air flow rate	m ³ /h	-	600/625	600/625	1050/1085	1050/1085
Fan+tower air flow rate	m ³ /h	-	550/590	550/590	800/950	800/950
Power supply	V ~ Hz	-	230 1~ 50-60	115 1~ 50-60	230 1~ 50-60	115 1~ 50-60
Dimensions HxWxD	mm	106x375x375	106x375x375	106x375x375	106x375x375	106x375x375
Absorbed electric power	W	-	70/90	65/80	120/155	110/135
Max. current	A	-	0,32/0,4	0,58/0,73	0,52/0,65	1,13/1,42
Over current protection	-	-	Inside motor	Inside motor	Inside motor	Inside motor
Electrical connection	-	-	Cable	Cable	Cable	Cable
Duty cycle	-	-	100%	100%	100%	100%
Temperature limits	°C	-	-20 +60	-20 +60	-20 +60	-20 +60
Protection level EN60529	-	IP44	IP44	IP44	IP44	IP44
Noise level	dB (A)	-	62/64	62/64	72/71	72/71
DLK + FIL35XN0B capacity	m ³ /h	-	500/540	500/540	700/730	700/730
Direction of the air flow	-	-	Inside towards outside	Inside towards outside	Inside towards outside	Inside towards outside
Motor support	-	-	Bearings	Bearings	Bearings	Bearings
Conformity	-	CE	CE	CE	CE	CE
Colour	-	-	RAL 7035 orange peel effect			

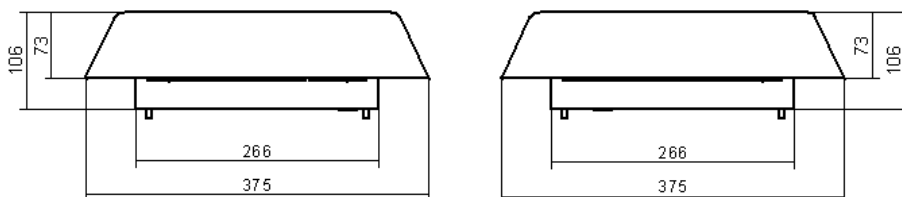
Accessories/Options

Filter unit 325x325 mm	
Pack of 10 cloth filters for FAN35	FIL35XN0B
Pack of 10 cloth filters for FAN35 high filtering capacity	AAFFN35
0-60°C thermostat, NO 10A	AAFTO12
5-60°C thermostat, change-over contact 10A	AAWTS10
Filter Kit for IP54 protection level	C15000376

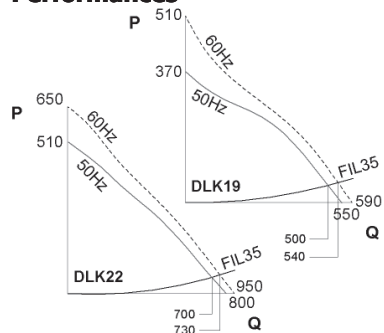
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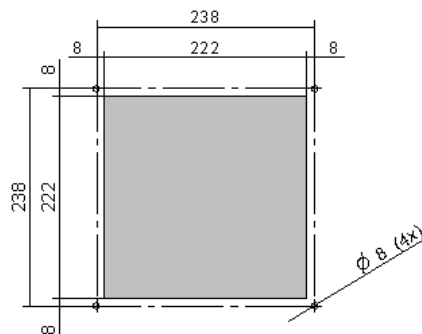
Dimensions



Performances



P = Static pressure (Pa)
Q = Air flow rate (m³/h)



Drilling template