AWC Series
Wall Type Axial Fans

Fan:
- Motor-rotor air flow direction.
- PL version rotors in fibreglass-reinforced polyamide-6 and AL version rotors in cast aluminium.
- Sheet metal support ring.

Motor:
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase. 2-speed and 8-pole.
- Class F motors with ball bearings. IP55 protection. except single-phase models from size 45 to size 56. IP54 protection. 1 or 2 speeds. depending on model.
- Single-phase 230V-50Hz and three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers greater than 4kW).
- Operating temperature: -25ºC +50ºC.

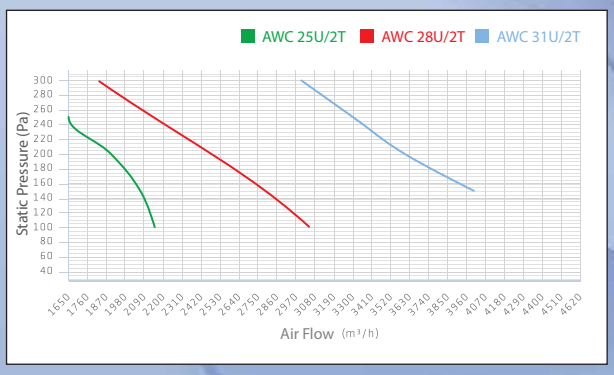
Finish:
- Anticorrosive finish of polyester resin polymerised at 190ºC. previously degreased with phosphate-free nanotechnological treatment.

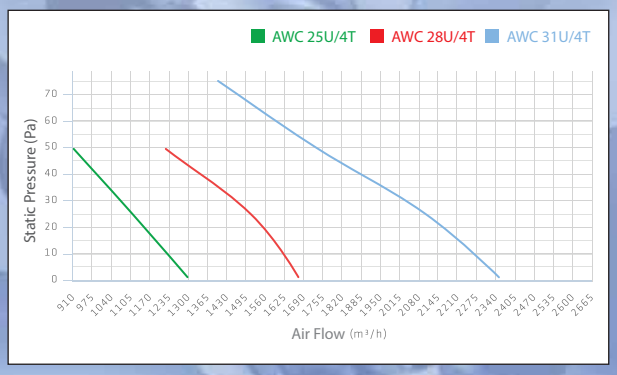
On request:
- Motor-rotor air flow direction.
- Rotors 100% reversible.
- Special windings for different voltages.

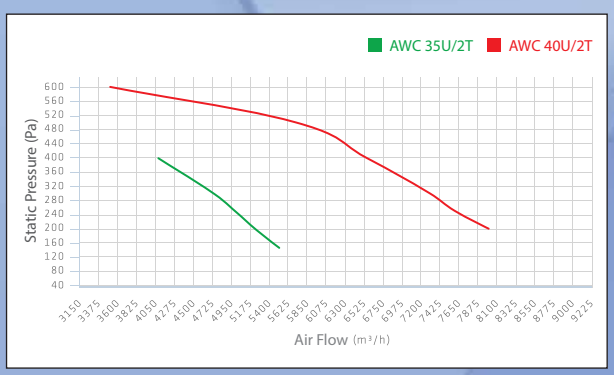
MODEL	MAX.AIR FLOW(m^3/h)	Watt	SOUND (dBA)	AMPER	RPM (dk)
25U/4.T	1300	0,18	68		1450
28U/4.T	1650	0,18	70		1450
31U/4.T	2350	0,18	71		1450
35U/4.T	3100	0,18	72		1450
40U/4.T	5000	0,25	76		1450
45U/4.T	5800	0,37	78		1450
50U/4.T	7000	0,55	79		1450
56U/4.T	9000	0,55	80		1450
63U/4.T	11500	0,75	81		1450
63U/4.T1	14000	1,50	85		1450
63U/4.T2	17000	2,20	88		1450
63U/4.T3	22000	3,00	92		1450
25U/2T	2150	0,25	81		2950
28U/2T	3000	0,37	83		2950
31U/2T	4000	0,55	85		2950
35U/2T	5500	1,10	89		2950
40U/2T	8000	1,50	92		2950
56U/6T	5800	0,18	72		1000
63U/6T	7400	0,25	73		1000
71U/6T	13000	0,75	80		1000
80U/6T	17500	1,10	82		1000
90U/6T	23000	1,50	83		1000
100U/6T	30000	2.20	85		1000

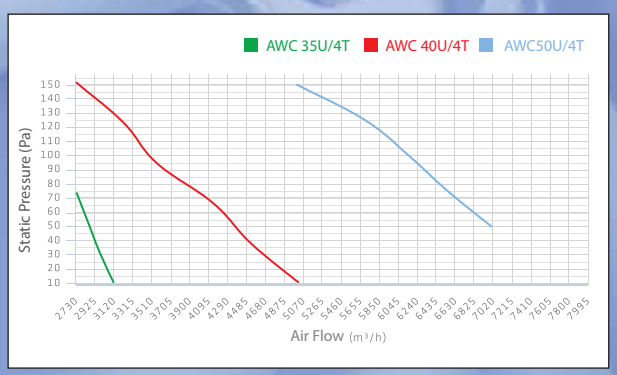
AIR FLOW PERFORMANCE DATA

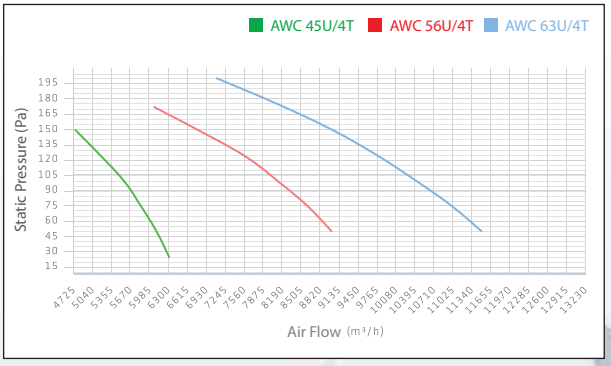
MODEL	AIR FLOW DATA / PA / (m^3/h)									
	0	25	50	75	100	125	150	175	200	250
25U/4.T	1300	1050	780	-	-	-	-	-	-	-
28U/4.T	1650	1500	1230	-	-	-	-	-	-	-
31U/4.T	2350	2100	1730	1400	-	-	-	-	-	-
35U/4.T	3100	2700	2350	2000	-	-	-	-	-	-
40U/4.T	5000	4500	4100	3500	3150	2650	-	-	-	-
45U/4.T	-	5800	5350	5000	4650	4100	3350	-	-	-
50U/4.T	-	-	7000	6550	6150	5700	5000	-	-	-
56U/4.T	-	-	9000	8600	8100	7550	6800	6000	-	-
63U/4.T	-	-	11500	11000	10400	9750	9000	8100	7100	-
63U/4.T1	-	-	-	14000	13500	13000	12500	12000	11500	9500
63U/4.T2	-	-	-	17000	16500	16000	15500	15000	14500	13000
63U/4.T3	-	-	-	22000	20500	20000	19500	18800	18000	16000
2950 d/d	100	150	200	250	300	400	500	600		
25U/2T	2150	2000	1700	1270	-	-	-	-		
28U/2T	3000	2820	2500	2250	1780	-	-	-		
31U/2T	-	4000	3600	3300	3000	-	-	-		
35U/2T	-	5500	5235	5000	4750	4100	-	-		
40U/2T	-	-	8000	7600	7300	6550	5710	3510		
1000 d/d	0	25	50	75	100	125	150	175	200	225
56U/6T	-	5800	5000	4000	2000	-	-	-	-	-
63U/6T	-	7400	6500	5400	3250	-	-	-	-	-
71U/6T	-	-	13000	12150	11000	9300	-	-	-	-
80U/6T	-	-	17500	16500	15300	13800	11450	8100	-	-
90U/6T	-	-	23000	22000	20500	18800	16200	13000	10350	-
100U/6T	-	-	30000	28700	27000	25200	23100	20500	17100	13500

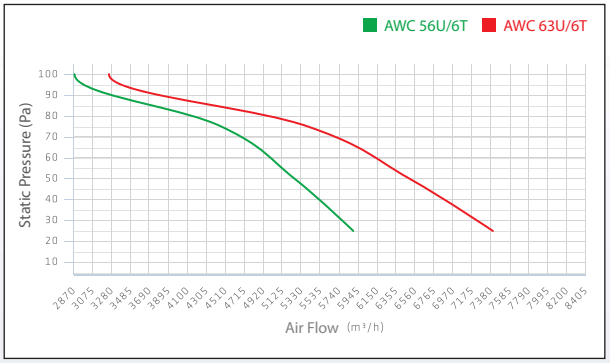


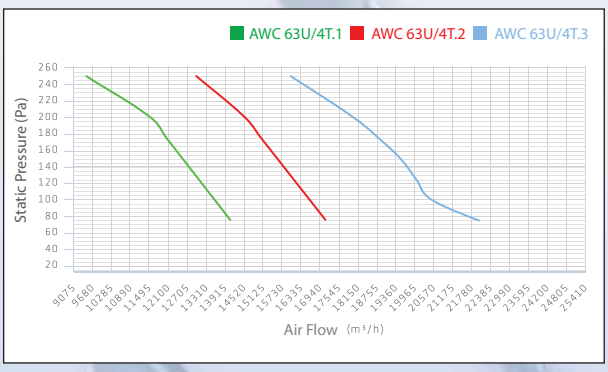


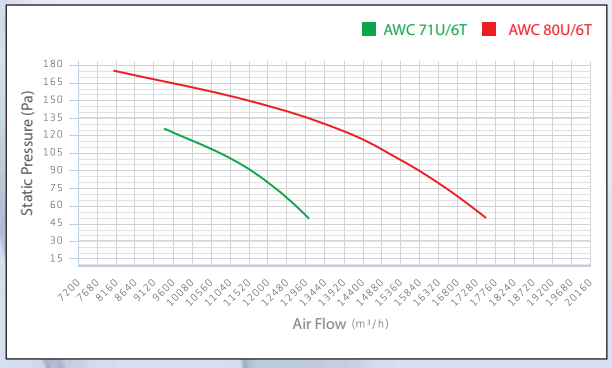


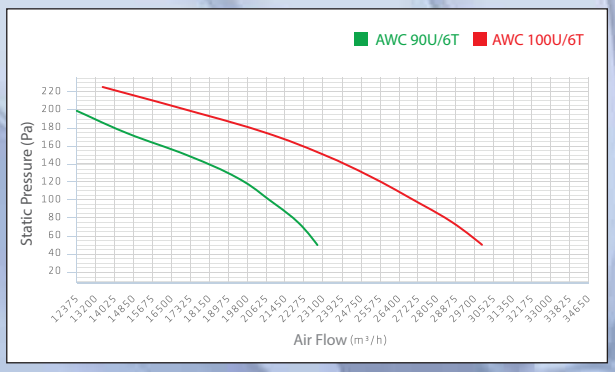






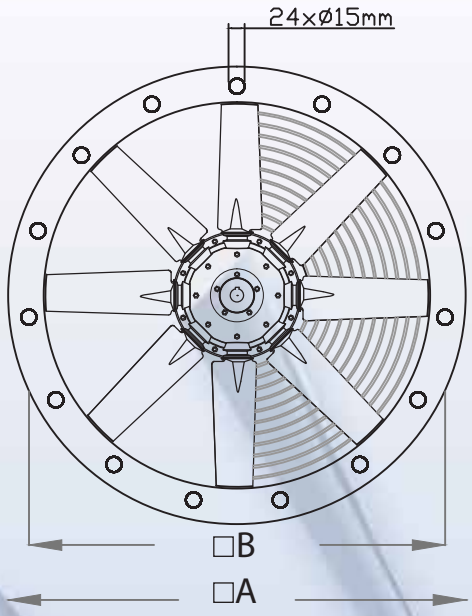


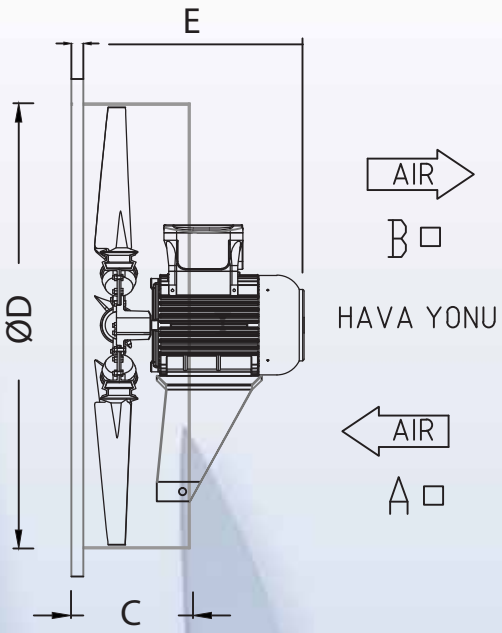




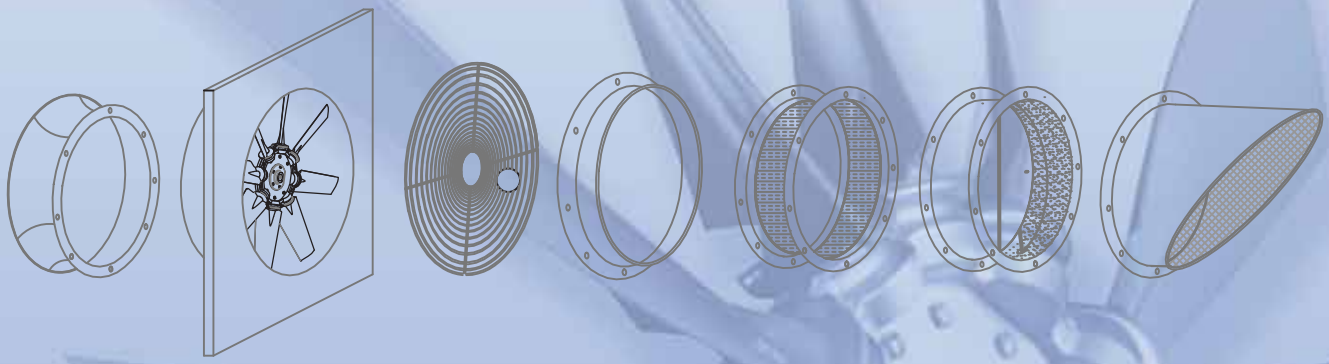
DIMENSIONS

MODEL	DIMENSIONS / mm					
	ØD	□A	□B	ØF AQD	E	C
25U2/4/6	250	430	370	330	250	160
28U2/4/6	280	430	370	360	250	160
31U2/4/6	315	565	505	395	330	200
35U/2/4/6	355	565	505	435	330	200
40U/2/4/6	400	720	620	480	360	200
45U/2/4/6	450	720	620	530	360	200
50U/2/4/6	500	720	620	590	360	200
56U/2/4/6	560	920	840	650	400	200
63U/2/4/6	630	920	840	720	400	200
71U/4/6	710	920	840	800	450	200
80U/4/6	800	1170	1070	905	450	200
90U/4/6	900	1170	1070	1110	500	200
100U/4/6	1000	1400	1400	1200	500	250





ACCESSORY CONNECTION DIAGRAM



CAR PARK JET FAN SYSTEM - 1

Description

For the purpose of estimating costs, the steps on the following pages may be bypassed. Allow 5N of thrust per 100m2 of car park floor area to approximate the number of fans required.

Estimating fan quantities

The following steps are sufficient to create an initial impulse ventilation system design. A Computational Fluid Dynamics (CFD) analysis is often required to prove and further refine the design. Fans may need to be re-orientated, or in some cases, added or removed. An impulse ventilation system can be tailored to suit virtually any car park. Before considering fan locations, the system layout will need to be identified. Refer to the previous section for information relating to system layouts and their suitability for particular car parks.

Step 1 - Assessing Car Park Geometry

First identify the supply and exhaust points in the car park. A system that complements the natural air path and is able to circulate or move air effectively within the car park should be chosen. Certain layout features may assist the effectiveness of a particular layout as shown below:

(a) 'Natural air path'

Figure 6(a). Preferred natural air path

Figure 6(b). Natural air path to be avoided

- For 'Linear Flow Systems', supply and exhaust points should be spaced across the length of a car park.
- 'Circular Mixing Systems' are more tolerant of closely placed supply and exhaust points, but it is advisable to have a good amount of separation.
- Supply air points should include access ramps to outside.
- The impulse ventilation system layout should complement the natural air path from supply to exhaust points.

(b) Ceiling features

To make the system more effective, position JetVent Fans in-line with supporting ceiling beams as illustrated in Figure 7(a). If this is not possible, the system becomes less effective and more fans may be needed.

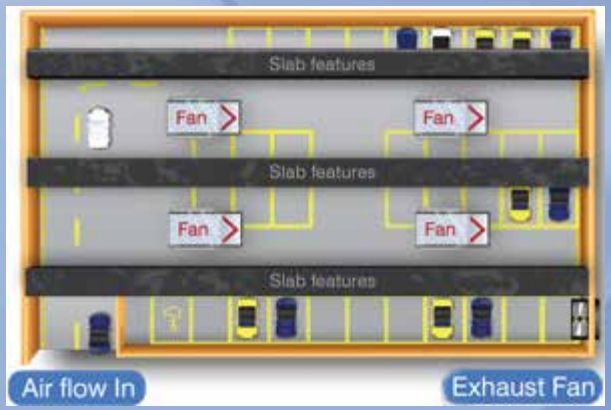


Figure 7(a). Fan's air movement parallel to beams is most effective

Figure 7(b). Fan's air movement perpendicular to beams is less effective