



HIGH VOLUME  
LOW SPEED FANS  
**POWERFUL. SILENT. EFFICIENT.**

## APPLICATION

The QHS range of high volume low speed fans are designed to be installed in high ceilings to redistribute air towards floor level.

They generate a gentle and slowly moving airstream which covers a large area and create a cooling effect in summer while they de-stratify the air in winter pushing the warm air down at floor level.

They are suitable for commercial, industrial and agricultural applications such as warehouses, manufacturing facilities, industry, shopping malls, airports, sports centres, greenhouses, dairy farms.

## CONSTRUCTION

- Upper frame made of painted iron welded structure to protect the motor.
- Safety cables and 800mm length downrod provided as standard.
- Specially designed airfoil made from aluminium EN AW 6063 T6. The surface is anodized to avoid corrosion.
- Aerodynamically shaped blade terminals made in plastic.
- Hub provided with safety ring.
- Hub cover made in plastic.
- High efficiency three-phase EC brushless motor specifically designed for HVLS application, 200-480Vac/3ph/50/60Hz, IP65, with integrated electronic system and EMC filters. Suitable for S1 continuous service. Speed controllable.

## FEATURES & BENEFITS

- Top silent operation thanks to the gearless motor and the special airfoil design.
- Ideal to integrate the HVAC system, for energy saving and CO<sub>2</sub> emission reduction.
- In winter months they are suitable to de-stratify the air pushing the warm air towards the floor level, so to even the temperature and to prevent the HVAC system to run as hard.
- In summer time the constant and gentle breeze eliminates hot and cool spots in the building by improving the internal environment and creating a natural cooling effect. The air movement also helps keeping the insects away.
- No ordinary maintenance.
- Robust steel structure for long life.
- Key safety features (main security wire, additional stabilising cables, hub safety ring).
- Blades terminals to optimise performances and acoustic comfort.
- Hub cover to protect the motor from dust and for a better aesthetics.
- Simplified electrical connection.
- Integrated EMC filters to prevent electromagnetic interference from other devices (i.e. podometer).
- Fan are suitable for operating temperatures -10°C +50°C.
- Unit performances are tested to the latest AMCA standard meaning accurate information that can be relied upon.
- Designed and manufactured in accordance with Machinery Directive (MD), Low Voltage Directive (LVD), Electromagnetic Compatibility Directive (EMC) and 327/2011 Regulation (ErP Directive).

## ACCESSORIES

- Different length downrod.
- Speed controller.
- I-Beam fixing kit.
- Glulam fixing kit.

## Performance @ 400Vac 50Hz

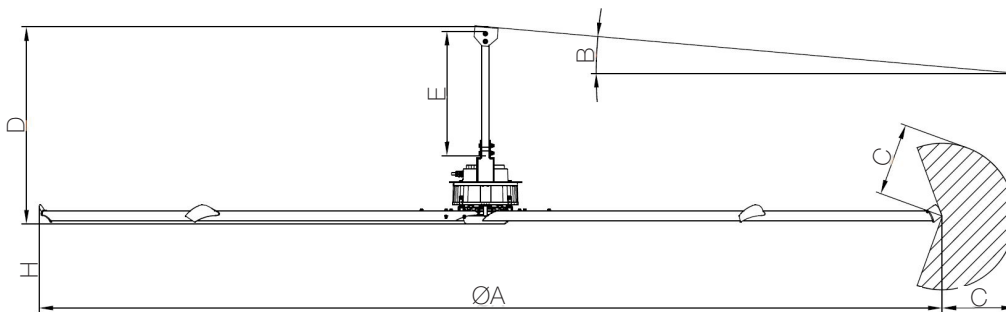
Description	No. Blades	Max Rotation Speed	Max Absorbed Power	Max Current	Max Thrust	Max Air Flow AMCA 230-99			Max Air Flow AMCA 230-15			Affected Diameter <sup>(2)</sup>	Sound pressure level 100% <sup>(3)</sup>	Sound pressure level 50% <sup>(3)</sup>
						cfm	m <sup>3</sup> /h	SPI <sup>(1)</sup> (W/m <sup>3</sup> /s)	cfm	m <sup>3</sup> /h	SPI <sup>(1)</sup> (W/m <sup>3</sup> /s)			
QHS300	5	135	0,97	2,6	114	78946	134130	26	55823	94844	36,8	14	56	41
QHS400	5	100	1,04	2,5	147	119039	202248	18,5	84173	143011	26,2	21	54	39
QHS500	5	68	0,90	2,3	121	134667	228800	14,2	95224	161786	20	24	50	35
QHS600	5	55	0,90	2,2	170	191230	324901	10	135220	229740	14,1	31	50	35
QHS660	5	46	0,80	2,2	175	213264	362337	7,9	150801	256211	11,2	38	49	34

(1) max. absorbed power / max. airflow (W/m<sup>3</sup>/s)

(2) min. average air speed 0,8 m/s with testing layout in conformity with AMCA 230

(3) Sound testing taken with the sensor 1,5m above the floor and 6m from the centre of the fan at 5m high, measured in a laboratory environment. Actual results in field conditions may vary due to sound reflecting surfaces and environmental conditions.

## Dimensions

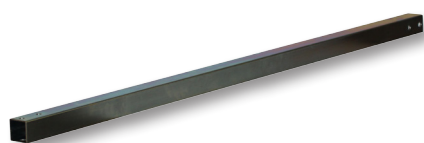


Description	ØA	B max ceiling slope	C min safety distance from side obstruction	D fan height with standard downrod	E standard downrod length	H min fan installation height	Weight
	mm	°	mm	mm	mm	mm	kg
QHS300	3050	15	350	1250	800	2700	80
QHS400	4050		450	1270			91
QHS500	5050		550	1270			101
QHS600	6050		550	1304			118
QHS660	6650		650	1304			123

## Accessories

Description	Downrod L=1500mm		Speed controller		I-Beam		Glulam	
	Description	Code	Description	Code	Description	Code	Description	Code
QHS300	TUB1500	000817	CTRL-A	002049	KT-I-BEAM	003357	KT-GLULAM	004009
QHS400								
QHS500								
QHS600								
QHS660								

## Downrod



- Downrod made from galvanised steel.
- Different length downrod on request.

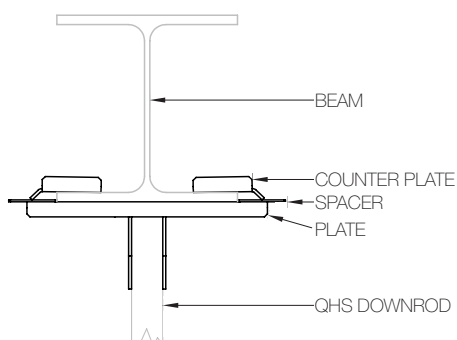
Description	Weight (kg)	Dimensions (mm)
TUB1500	6,6	50x50x3 - L=1500

## Speed controller



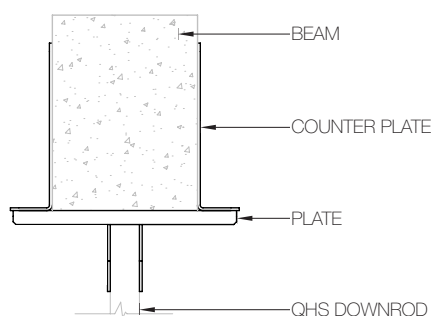
- Potentiometer with front knob to adjust the motor speed.
- Provided with two-pole switch (ON/OFF).
- Front yellow led to indicate that the load is active.
- Controls one fan only.
- 230V~ 50/60Hz.
- Supplied with IPX55 wall surface box.

## I-Beam



- I-Beam fixing kit suitable for standard IPE, HEA and HEB profiles.
- Fixing screws supplied.

## Glulam



- Fixing kit suitable for rectangular beams with base between 100mm and 260mm.
- Fixing screws supplied.