

## DESTRATIFICATION FANS

### APPLICATION

High volume axial destratification fans for ceiling installation suitable to create a uniform indoor climate in commercial, industrial, livestock and greenhouse buildings.

### CONSTRUCTION

- B version:  
Casing made from galvanised steel. High efficiency one-phase EC brushless motors, 220/277Vac/50-60Hz, IP55, with integrated electronic system and EMC filters, speed controllable and suitable for S1 continuous service.
- C version:  
Casing made from galvanised steel. Three-phase AC induction motors, TEFC, 230-400Vac/50Hz, IP55, suitable for S1 continuous service.
- Adjustable pitch aerofoil impellers are provided with blades made from high quality glass reinforced polypropylene.
- Hubs made of die-cast aluminium.
- Dynamically balanced impellers in accordance with ISO 14694 Grade G6.3.
- Conveyor made from technopolymer for ease of cleaning and not susceptible to corrosion.
- Motor-side stainless steel mesh.
- Multidirectional diffuser.

### FEATURES & BENEFITS

- Effective in preventing thermal stress: it helps to increase the heat loss by removing the warm air layer surrounding the occupants body and to increase evaporation, with benefits for latent heat loss.
- No ordinary maintenance.
- Robust galvanised steel motor support structure for long life.
- Impellers are factory set at an angle to provide maximum performance.
- Eyebolt hooks to simplify hanging and inclined installation.
- B version:  
Integrated EMC filters to prevent possible electromagnetic interference from other devices. Gearless and aerodynamic design for absolute silence. Fan suitable for operation at temperatures from -20°C to +50°C.
- C version:  
Fans are suitable for operating temperatures from -20°C to +50°C.
- Units are tested to the latest standards to ensure the highest reliability of electrical safety, performance and sound levels.
- Designed and manufactured in accordance with Machinery Directive (MD), Low Voltage Directive (LVD), Electromagnetic Compatibility Directive (EMC) and Regulation 327/2011 (ErP Directive).

### ACCESSORIES

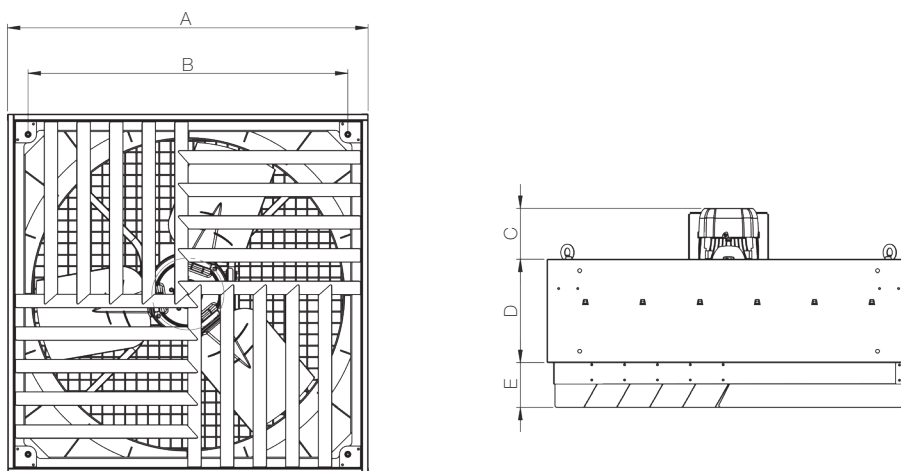
- Remote controllers.

## Performances @ 230Vac 50Hz

Description	Fan diameter	Max Rotation Speed	Max Electric power	Max Thrust	Max Air Flow AMCA 230-15			Max Air Flow AMCA 230-99		
					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)
DHS900B	800	1200	0,99	56	10300	17500	203,7	14567	24749	144,0
DHS900C	800	920	0,62	36	8240	14000	159,4	11653	19799	112,7

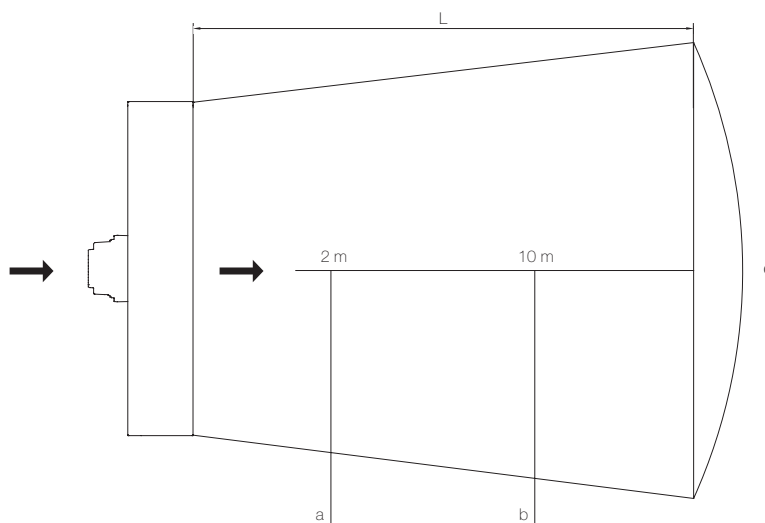
(1) Maximum power input / maximum flow rate

## Dimensions (mm) and Weight (kg)



Description	A	B	C	D	E	Weight
DHS900B	951	843	161	270	116	55
DHS900C	951	843	132	270	116	51

## Velocity pattern



Description	Q [m <sup>3</sup> /h]		L @ air velocity = 0,2 m/s [m]	Air velocity @ 2m [m/s]	Air velocity (10m) [m/s]
DHS900B	17500	67°	39	5,2	2,6
DHS900C	14000	67°	31	4,2	2,1

## CTRL-A

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- 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 IP55 wall surface box

## CTRL-XWS

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- To control the ventilation units according to temperature
- Operating mode:  
Mode C: control of ventilation according to room temperature by means of 2 temperature probes (additional temperature probe on request) to manage winter destratification and summer comfort ventilation
- Regulation 0-10V
- 230Vac - 50/60Hz
- Can control up to 10 units
- IP65 wall-mounted casing
- Dimensions: 160x110x81 mm
- 1 temperature probe included



SV-10K