

■ Ceiling fans

- for cooling in summer
- for energy conservation in winter

For versatile use e.g. to move air for cooling or energy conservation in mid size to large rooms as well as reception and waiting halls, restaurants, disco's, boutiques, wholesale retail outlets, assembly plants, warehouses, tennis and sport halls as well as for industrial drying applications.

Traditionally ceiling fans are used during summer for cooling. Where there are rooms without windows and high heat emission of lamps, ceiling fans solve ventilation problems in many areas. Decorative replicas in "Casablanca" design make Helios ceiling fans an attractive addition to any room. During the heating period, ceiling fans can be used for energy conservation by returning the hot air at the top of the room to the occupied space. In high rooms like sport halls, tennis halls and other industrial halls, slow spinning ceiling fans provide a draft free equal distribution of warm air within the room. This achieves an increase in temperature at the floor level areas of approx. 25% without any additional heating. The energy consumption is negligible. Reference projects which have been running for many years achieved an average temperature increase of 4 °C in the floor level.

DVW 90



DVW 140



■ Ceiling fans DVW range

Classic 3 blade design, robust casing fan made from steel, finished in white.

- Totally enclosed motor in a white powder paint finish. Maintenance free and radio suppressed, suitable for continuous operation.
- Resilient mounting ensures low vibration
- Simple installation, pre-assembled motor and fixings. Only blades need to be fixed.
- Variable down rods using two length down rods.
- Speed controllable via 5 speed transformer TSW 0.3 (accessory).
- Reversible air flow direction. Air flow direction to floor or to ceiling by wiring connection or through reversing switch (accessory DSEL 2).
- TÜV GS approved.

■ Ceiling fans DVA range

in typical "Casablanca" design for installation in more decorative areas.

- Casing made from brass, finished in antique brown or white. Five wooden blades with a wicker finished in nut brown or white. Maintenance free, long life, slot-vented motor with ball bearings for permanent operation.
- Resilient mounting ensures low vibration.
- Simple installation with three different down rod lengths:
 - Direct on ceiling (no down rod).
 - Short or long down rod (supplied with fan).
- Pull cord for three speed on/of/off operation. Suitable for connection to remote speed controllers (accessory).
- TÜV GS approved.

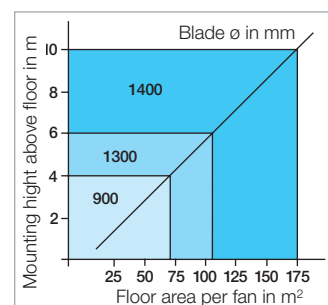
■ Selection of a fan

Impeller diameter, position and mounting height are important parameters during design to allow equally coverage of air flow within the room. The room height less the down rod equals the mounting height of the fan. In relation to height and impeller diameter the diagram below shows the area covered by each fan in m². The distance of the fan's centre to the wall should equal approximately 6 times the impeller diameter. We recommend operation at high speed during summer (cooling) and at low speed in winter (energy conservation).

■ Accessories for DVW and DVA

Difference temp. controller EDTW Ref. No. 1613
Varies fan speed automatically in accordance to the temperature difference between high level and low level sensor. Specially for operation in winter for energy saving.

Speed controller TSW 0.3 Ref. No. 3608
Five step transformer with on/off function for surface installation. On reversed operation (air flow direction to ceiling) a minimum start voltage of 100 V is required.



Order and technical information				
Type	DVW 90	DVW 140	DVAW 130	DVAM 130
Ref. No.	8648	8649	8650	8651
Impeller diameter in mm	900	1400	1300	1300
Number of blades	3	3	5	5
Voltage / Frequency	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz
Current Amps	0.26	0.30	0.28	0.28
Power Watts	50	65	65	65
Maximum R.P.M.	340	270	190	190
Down rods min./max. mm	440/565	460/585	220/360/510	220/360/510
Weight in kg	4.8	6.8	6.7	6.7

■ Important installation restriction

Safety regulations ask for a minimum distance of 2.3 m from the bottom of the blades to the floor. Fans should be installed so that they do not interfere with other equipment.