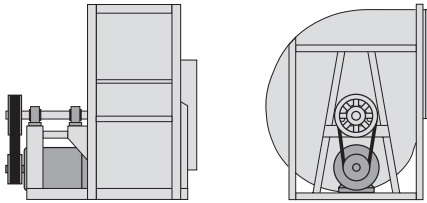


Arrangement 10 — Belt Drive

Single-Width, Backward Inclined or Airfoil Wheel

USF-200 / 300 / 400, CSW All Sizes

- Recommended as first choice configuration for belt drive applications.
- Bearings are mounted out of the airstream.
- Motor is mounted beneath the drive frame.
- Available with a weatherhood to cover motor, drives and bearings.
- Moderate dirt and heat tolerance.
- Compact design.
- Available with heat fan packages up to 500°F (260°C).



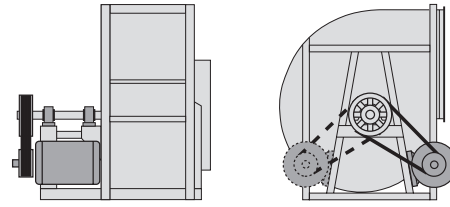
Class 0, I, II

Arrangement 9 — Belt Drive

Single-Width, Backward Inclined or Airfoil Wheel

(CSW Size 33 - 73)

- Bearings are mounted out of the airstream.
- Easy access to large motors mounted on drive frame.
- Standard motor position is on the right side of the drive frame.
- Optional motor position is on the left side of the drive frame.
- Available with motor cover, belt guard and shaft guard.
- Available heat fan packages to 500°F (260°C).



Class 0, I, II, III

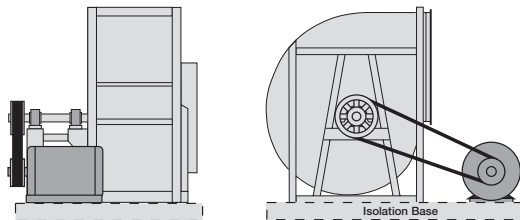
Arrangement 1 — Belt Drive

*Single-Width, Backward Inclined or *Airfoil Wheel*

(CSW Size 7 - 73)

- Bearings are mounted out of the airstream.
- Unlimited motor size.
- Requires an isolation base (by factory) or structural pad to mount the fan and motor.
- Choice of motor positions W, X/Y or Z (see page 11).
- Available with motor cover.
- Suitable for high temperatures or contaminated air.
- Available heat fan packages to 1000°F (538°C).

[*Airfoil wheel available to 500°F (260°C)].



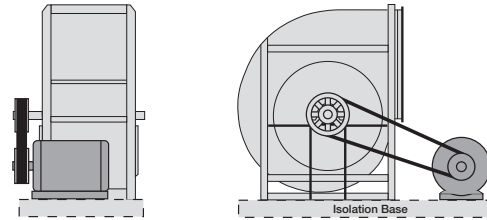
Class 0, I, II, III, IV

Arrangement 3 — Belt Drive

Single-Width, Backward Inclined or Airfoil Wheel

(CSW Size 33 - 73)

- Bearings are mounted in the airstream.
- Unlimited motor size.
- Requires an isolation base (by factory) or structural pad to mount the fan and motor.
- Choice of motor positions W, X/Y or Z (see page 11).
- Available with motor cover, belt guard.
- Recommended for clean air at ambient temperatures.



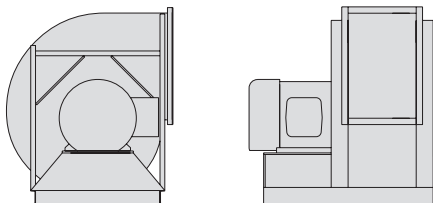
Class 0, I, II, III

Arrangement 4 — Direct Drive

Single-Width, Backward Inclined or Airfoil Wheel

(CSW Size 10 - 44)

- Available with partial width wheel and housing modifications for specific performance.
- Recommended for higher horsepower applications in lieu of belt drive.
- Limited to standard motor speeds, but are available with variable frequency drive compatible motors.
- Provides compact design with low maintenance.
- Available with motor cover.



Class 0, I, II, III, IV

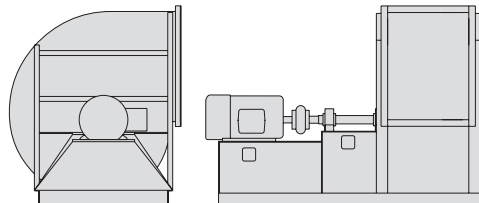
Arrangement 8 — Direct Drive

*Single-Width, Backward Inclined or *Airfoil Wheel*

(CSW Size 33 - 49)

- Available with partial width wheel and housing modifications for specific performance.
- Recommended for higher horsepower applications in lieu of belt drive.
- Limited to standard motor speeds, but are available with variable frequency drive compatible motors.
- Bearings located out of the airstream.
- Suitable for high temperatures or contaminated air.
- Available with motor cover, belt guard.
- Available heat fan packages to 750°F (400°C).

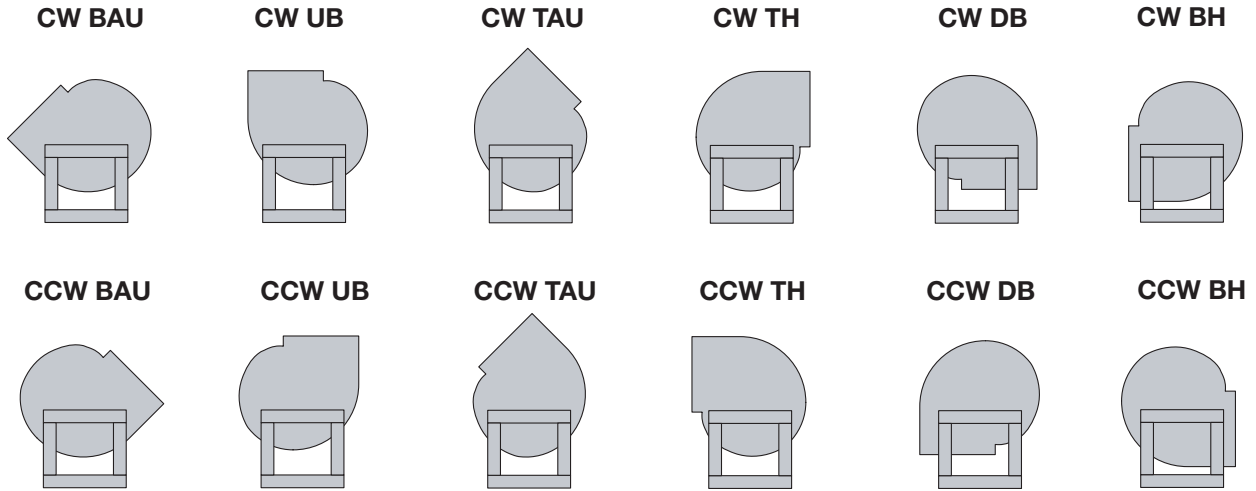
[*Airfoil wheel available to 500°F (260°C)].



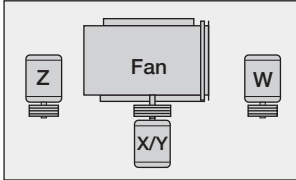
Class I, II, III, IV

Discharge Positions and Rotatable Housings

All centrifugal fans are available with clockwise (CW) or counterclockwise (CCW) rotation. See pages 6-7 for available discharge positions. **Rotation and discharge is always determined from the drive side of the fan.** Rotatable housings are standard on fan sizes 30 and less; arrangements 1, 4 and 10; and Class 0, I and II.



Motor Positions – Arrangements 1 and 3 Fans (CSW)



Motor position and fan rotation are determined from drive side

Fan arrangements 1 and 3 require a structural steel base or structural platform to support the fan and motor. The motor can be located in any of three positions around the fan shaft to ensure proper alignment. Motor positions W and Z tend to make a longer footprint from end to end. Positions X/Y tend to make a shorter but wider footprint.

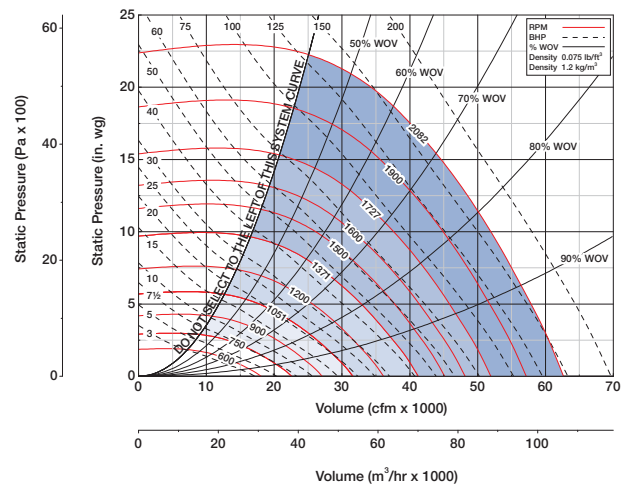
Class of Construction

Fan class refers to a construction level designed to handle a given fan outlet velocity and pressure. As the fan performance requirements increase, the fan construction (material gauge, shaft diameter, motor size) must also increase to physically handle the new work load.

Centrifugal products are available in Class 0, I, II, III, or IV, with Class 0 being the lightest construction and Class IV having the heaviest construction and performance capacity.

A typical fan curve is shown with shaded class limits. For specific certified fan data, please consult Greenheck’s Computer Aided Product Selection program, CAPS.

USF-400, CSW



Class 0	Class I	Class II	Class III	Class IV
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