

SYMBIOSIS

Radial Bladed Blower

The Radial Bladed Impeller is suitable for Dust Laden, High Pressure, High Temperature applications. This range of Impellers can achieve Design Efficiencies upto 75.4%. This fan range is suited for low to medium Volume, High Pressure Applications and specifically for high Temperature requirements. 6 different series for varying wheel designs allow flexibility in selection. This Design is suited for Harsh process requirements and is easily replaceable / maintainable due to its inherent blade geometry.



SYMBIOSIS MOST POPULAR MODELS FOR RADIAL BLADED BLOWER

Model UDRB 1

Model UDRB 2

Model UDRB 3

Model UDRB 4

Model UDRB 5

Model UDRB 6

These are generally very narrow Impeller and can be constructed in fully welded/partial welded/ riveted construction. With years of application oriented experience and latest Manufacturing facilities, we manufacture these Impeller within close tolerance matching exact blade profiles using mechanized welding procedures.

With welding distortion Management, maintaining minimal impeller run out before dynamic balancing and with special handling of Impeller, SYMBIOSIS delivers world class fans and blowers for your Critical applications.

**Our Blowers are truly SYMBIOTIC to your process.
Think of Air..... Think of SYMBIOSIS Blower.**

We offer the Backward Inclined Centrifugal fan in multiple sizes, arrangements, construction classes, impeller and housing widths. Whether standard or custom, each SYMBIOSIS Industrial Fan is designed and built with unmatched quality and backed by responsive service.

BACKWARD CURVED FAN PERFORMANCE & DESIGN

- Air volumes up to 1,00,000 CMH
- Static pressures up to 2000 mmWC
- Temperatures up to 550 DegC
- High Peak Total Efficiency up to 75.4%
- Dynamically Balanced as per ISO 1940 - 1 Gr 6.3/Gr 2.5
- Single Width, Single Inlet (SWSI)
- Very high Strength of Impeller with majority of Impellers fully welded for long life and reliability. Optimum thickness selection for low stress development and better running performance.

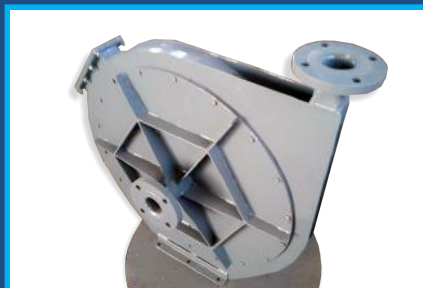


MATERIAL OF CONSTRUCTION

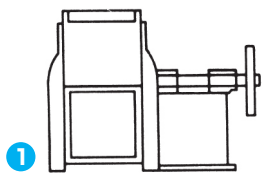
**Carbon Steel
High Tensile Steel
Stainless Steel
Alluminium**

AEROFOIL FAN APPLICATIONS

- Biomass
- Chemical Processing
- Cooling Systems
- Corrosive Gases
- Dairy Processing
- Dilution Air
- Dryers
- Food Processing
- Forced Draft
- Fume Control
- General Ventilation
- Incineration
- Induced Draft
- Odor Control
- Oven Exhaust
- Oven Recirculation
- Oxidizers
- Pharmaceutical Service
- Pollution Control
- Process Heating
- Scrubbers
- Selective Catalytic Reduction
- Spark Resistant Construction
- Tempering

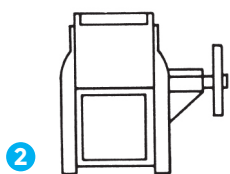


ARRANGEMENT OF DRIVE



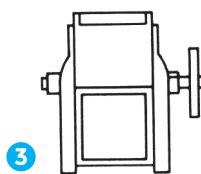
ARRANGEMENT NO. 1 SWSI

Wheel overhung. Bearing in bracket supported by fan housing. For belt drive or direct connection.



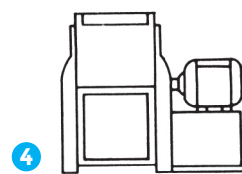
ARRANGEMENT NO. 2 SWSI

For belt drive or direct connection. Wheel overhung. Bearing in bracket supported by fan housing



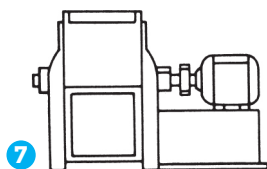
ARRANGEMENT NO.3 SWSI AND DWDI

For belt drive or direct connection. One bearing on each side and supported by fan housing.



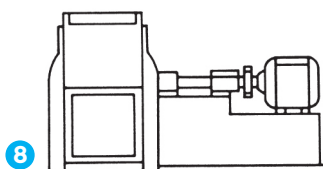
ARRANGEMENT NO. 4 SWSI

For direct drive. Wheel overhung on motor shaft. No bearing on fan. Base mounted or an integrally direct connected motor.



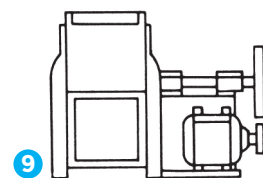
ARRANGEMENT NO.7 SWSI AND DWDI

For belt drive or direct connection. Arrangement No.3 plus base for motor.



ARRANGEMENT NO.8 SWSI

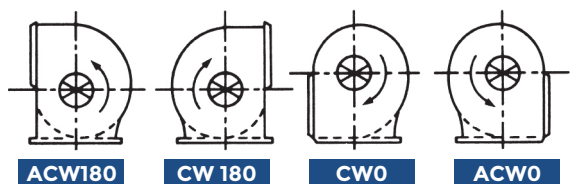
For belt drive or direct connection. Arrangement No.1 plus base for motor.



ARRANGEMENT NO.9 SWSI

For belt drive Arrangement No.1 designed for mounting prime mover on side of base.

DIRECTION OF ROTATION AND DISCHARGE

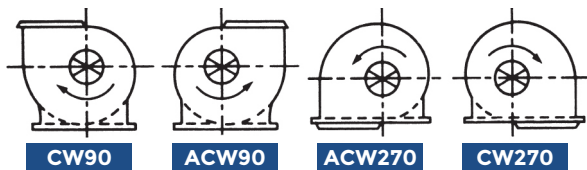


ACW180

CW 180

CW0

ACW0

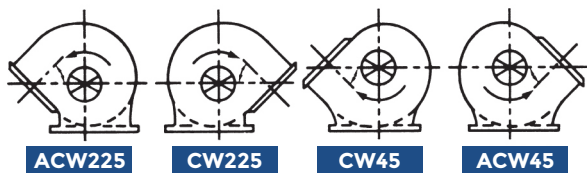


CW90

ACW90

ACW270

CW270

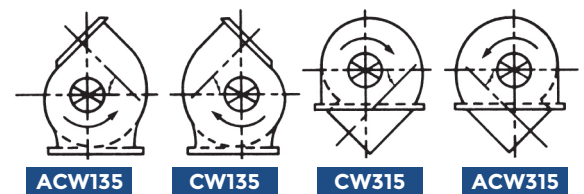


ACW225

CW225

CW45

ACW45



ACW135

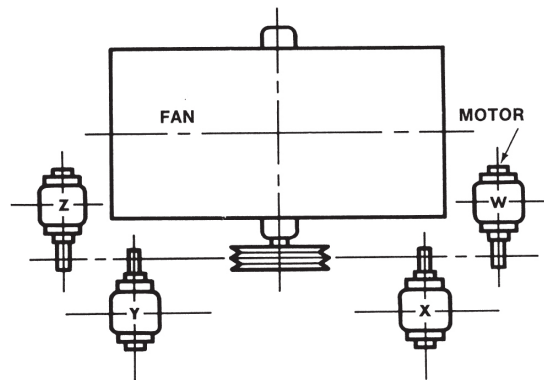
CW135

CW315

ACW315

The location of motor is determined from plan view of the blower, designing the motor position by letters W, X, Y and Z as the case may be.

STANDARD MOTOR POSITIONS



The Location of motor is determined from plan view of the blower, designing the motor position by letters W, X, Y and Z as the case may be.



USHA DIE CASTING INDUSTRIES

ISO 9001 : 2015 CERTIFIED

7405/1, Rd No.73/C, GIDC Sachin, Surat 394230, Gujarat, India.
 Contact No: +91 98251 96665 | +91 261 2399647
 e-mail : info@blowerfab.com | mgvasi@gmail.com
 www.blowerfab.com | www.udci.in