SYMBIOSIS

Backward Inclined Blower

The Single Thickness backward Inclined Impeller is highly efficent and suitable for it has good Aerodynamic characteristics with maximum design efficiency up to 81%. It can be used in reasonable Dust Laden Air or Gas Environment. Wear plates can be provided to counter abrasion. This fan range is suited for High Volume, Medium Pressure Applications and specially for high temperature requirements. 5 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

"Go with the Flow"

SYMBIOSIS MOST POPULAR MODELS FOR BACKWARD INCLINED BLOWER

Model UDBL 1 | **Model UDBL 2** | **Model UDBL 3** | **Model UDBL 4** | **Model UDBL 5**

With years of application oriented experience and latest Manufacturing facilities, we manufacture these Impellers within close tolerences 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.

MATERIAL OF CONSTRUCTION

Carbon Steel
High Tensile Steel
Stainless Steel
Alluminium

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.

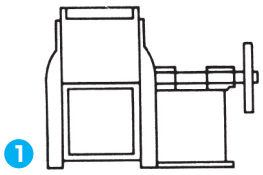
BACKWARD CURVED FAN PERFORMANCE & DESIGN

- Air volumes up to 9,50,000 CMH
- Static pressures up to 1750 mmWC
- Temperatures up to 550 DegC
- High Peak Total Efficiency up to 81%
- Dynamically Balanced as per ISO 1940 - 1 Gr 6.3/Gr 2.5
- Single Width, Single Inlet (SWSI) and Double Width, Double Inlet (DWDI).
- 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.

AEROFOIL FAN APPLICATIONS

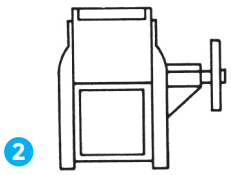
Biomass
Chemical Processing
Cooling Systems
Corrosive Gases
Dairy Processing
Dilution Air
Dryers
Food Processing
Forced Draft
Fume Control
General Ventilation
Incineration
Induced Draft
Odor Control
Oven Exhaust
Oven Recirculation
Oxidizers
Pharmaceutical Service
Pollution Control
Process Heating
Scrubbers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

ARRANGEMENT OF DRIVE



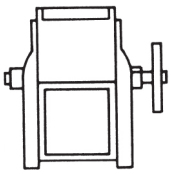
ARRANGEMENT NO. 1 SWSI

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



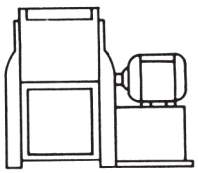
ARRANGEMENT NO. 2 SWSI

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



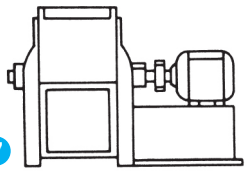
ARRANGEMENT NO.3 SWSI AND DWDI

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



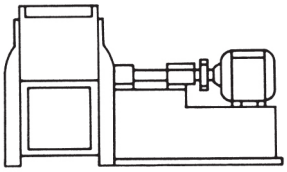
ARRANGEMENT NO. 4 SWSI

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



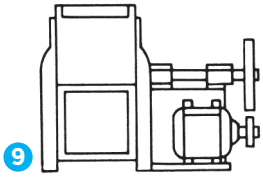
ARRANGEMENT NO.7 SWSI AND DWDI

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



ARRANGEMENT NO.8 SWSI

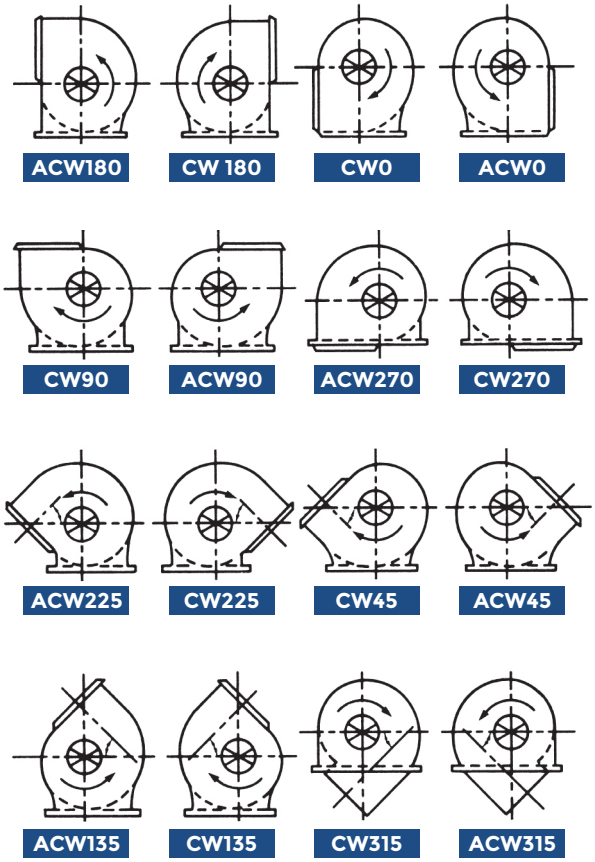
For belt drive or direct connection. Arrangment No.1 plus base for motor.



ARRANGMENT NO.9 SWSI

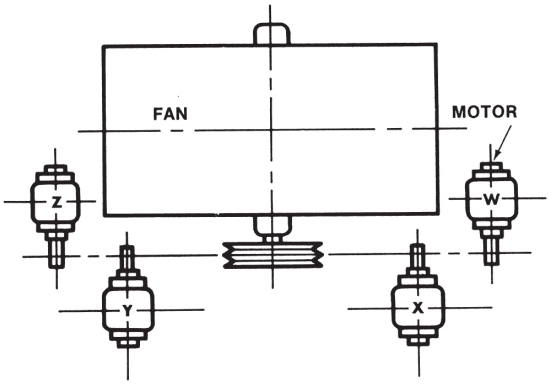
For belt drive Arrangement No.1 designed for mounting prime mover on side of base.

DIRECTION OF ROTATION AND DISCHARGE



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.

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USHA DIE CASTING INDUSTRIES

ISO 9001 : 2015 CERTIFIED

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