

Exceptionally corrosion-resistant, high-performing and highly functional, **TEXEL sirocco fans** are the dependable choice for exhaust and ventilation Applications in various factories, labs universities, and sewage/raw sewage Treatment plants. Choose from our wide selection of corrosion resistant fans for any application.

FRPP SIROCCO FANS

CES Series

The conventional model was completely redesigned giving birth to the CES Series Compact Sirocco Fan made of an injected FRP mold with standardized central discharge. The central discharged feature is based on our unique 3-dimensional curved surface design. It has the same capabilities as the conventional models and its rotating discharge direction was reduced by half making selection simple.

Also, its impeller and casing are both made of an injected FRPP mold for enhanced recyclability.



CES-D TYPE



CES TYPE

Features



Standardized central discharge

Conventional models featured 6 rotational discharge directions, however, this fan's right rotation only central discharge cuts the number of rotational directions to 3 types. This significantly reduces the complexity of choosing a rotational direction and simplifies duct piping.



Enhanced maintainability

Conventional compact sirocco fans were made with a casing divided into 2 parts. This required the removal of the suction and discharge ducts before being able to remove the impeller. However, by incorporating an easy-to-remove suction cone in the design, only the suction duct needs removal before the impeller can be taken off. Inner-casing inspection is also made easy.



Excellent corrosion resistance

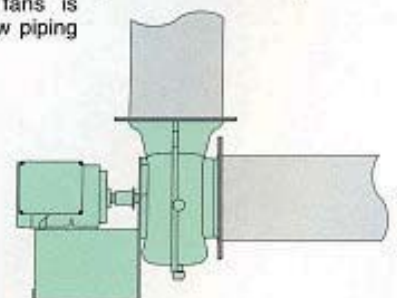
Its casing and impeller have excellent chemical resistance thanks to our standardized FRPP injection mold construction that boasts high dimensional accuracy. Also, its effective ribbed and hemmed design gives it superior strength while keeping it lightweight. We used materials that not only offer great corrosion resistance and maintainability, but also 100% recyclability.

A variety of drive systems

Choose either a belt drive or direct action electric motor drive depending on the application. You can also choose from two types of direct action electric motor drives: a universal electric motor (D-type) or an electric motor with built-in inverter (V-type). Because the only rotating parts in direct action electric motor drives are the motor itself and the impeller, there is no V-belt, shaft or any other mechanical part. This significantly reduces maintenance requirements and labor costs incurred during equipment inspections. In addition, the electric motor with built-in inverter is direct action, however, like a belt driven fan, the required airflow and static pressure can be universally set.

Identical round flange for the suction and discharge ducts

To simplify duct piping, both the suction and discharge flanges were made circular with identical dimensions corresponding to existing regulations. Also, the layout for the CES type fans is close to an elbow piping arrangement.



FRP SIROCCO FANS

NSF Series

NSF Series Sirocco Fan is made of thick FRP sheets offering great safe and Mechanical strength. The identical round shape of the suction and discharge opening facilitates connection of the fan to a duct. NSF models made of FRP that excel in safety and mechanical strength have been newly introduced.



NSF TYPE

Features

Round Suction and Discharge Flange of Identical Size

The adoption of round flanges of identical dimension on both the suction and discharge openings has greatly enhanced piping in comparison with the conventional square flanges.

Moreover, easy sleeve piping is now possible due to the fact that a duct flange can be employed as a companion flange on fans with a flange size of 500A or less.

Excellent Corrosion Resistance

● Casing

FRP material having outstanding chemical resistance has been employed. Besides being rigid against external impact, it has a higher working temperature range than PVC, and has the added advantage of being lighter than metal casings.

● Impeller

While, Integral models have been employed in the fabrication of the impellers of NSF302-402 models which have superb chemical resistance and enhanced mechanical strength.

Wider Capacity Range

In comparison with our conventional models, higher static pressure and extended gas volume range achieved with the new NSF series make them more economical.



NSF302-402 impeller (FRP)

Applications

The CES and NSF series can be used:

- To handle corrosive gases at chemical and pharmaceutical plants
- As a draft-chamber fan for chemical laboratories handling various types of gases
- As a ventilation fan in biotech research facilities or IC labs
- As a ventilation fan in cookery establishments
- As an exhaust fan for offensive odors in purifying facilities
- As a ventilation fan in areas exposed to the damaging effect of salt near the sea coasts.

Standard specifications

Model		CES	CES-D	NSF
Gas temperature		-10 to 50°C		
Structure	Impeller	Multi-blade type		
	Shaft seal	Free gland		
	Bearing	Pillow unit	—	Pillow unit
	Drain plug	Plug type PF1/2" screw		Plug type PF3/4" screw
Materials	Impeller	FRPP (fiberglass reinforced polypropylene resin)		FRP (fiberglass reinforced unsaturated polyester resin)
	Casing	FRPP (fiberglass reinforced polypropylene resin)		FRP (fiberglass reinforced unsaturated polyester resin)
	Main shaft	S45C		S35C
Discharge directions		Three directions		Six directions
Standard colors	Casing	Japan Paint Manufacturers Association Paint No.S31-513 (1993 edition) (fiberglass reinforced polypropylene resin)		
	Belt guard	Not attached		
	Base plate	Melted zinc plating color		

Standard accessories

Standard accessories	Materials	Quantity	CES	CES-D	NSF
V-pulley	FC200	1 set	○	—	○
V-belt	Rubber	1 set	○	—	○
Belt cover	FRP	1	○	—	○
Shaft guard	FRP	1	○	○	○
Foundation bolt	SS400	1 set	—	○	—

Special Options

The item given in that table below are included upon request.

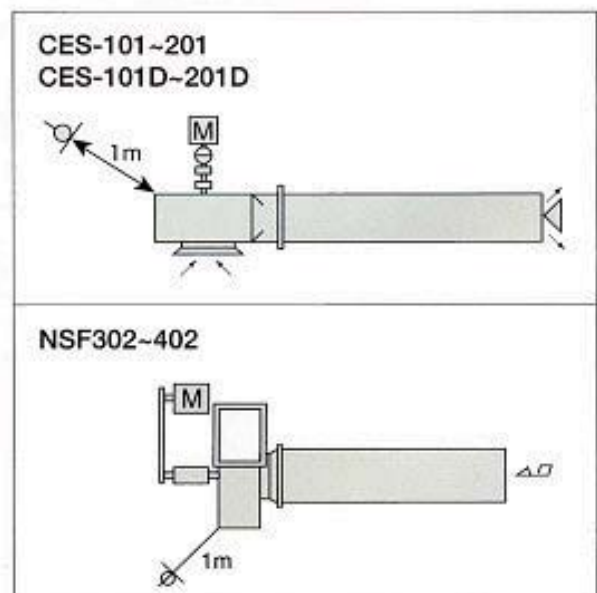
Vibration Rubber Isolator	Suction safety Net (material : PVC)
Vibration Spring Isolator	Discharge Gallery (material : PVC)
Ceiling suspension Base	Ventilator (material : PVC)
Vibration-proof Joints (material : PVC)	Damper (material : PVC)
Companion Flange (material : PVC)	Sound-proof Box

Motor weight

Pole	Output (kw)	(unit : kg)					
		0.2	0.4	0.75	1.5	2.2	3.7
2P		5.7	8.3	11	21.5	23.5	37
4P		5.5	8.5	12	22	31.5	39
6P		—	11.5	22	32	39	61
Weight base		—	2	2.2	2.4	3.7	4

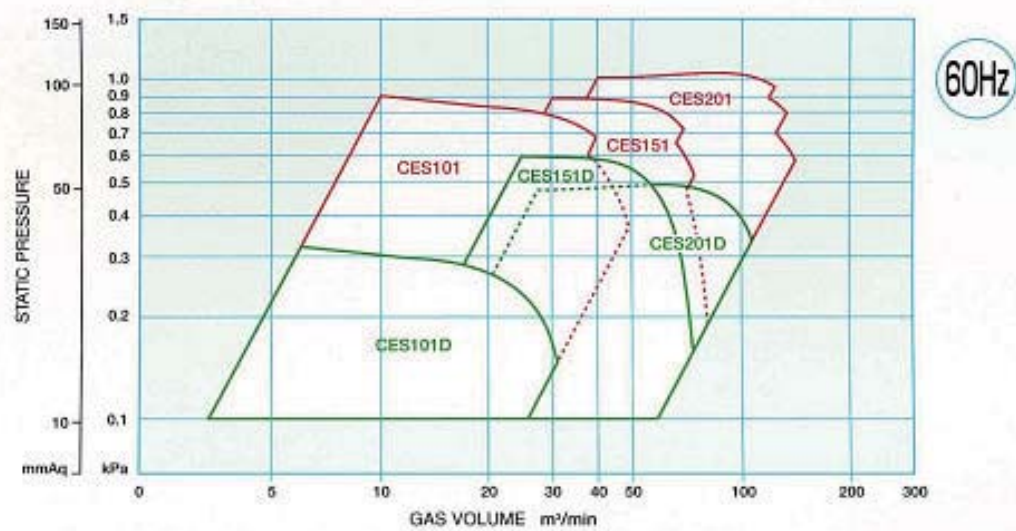
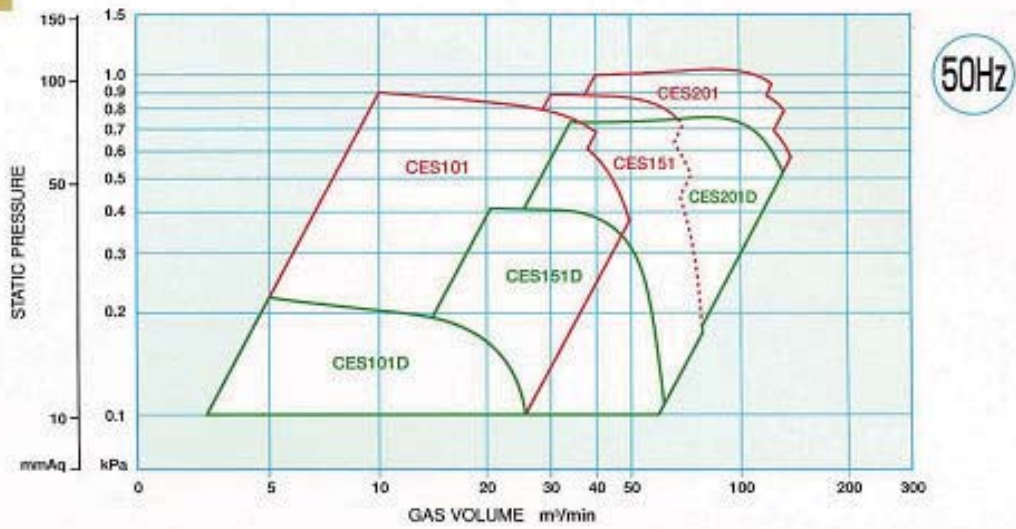
Position of measuring fan peripheral noise

Sound levels recorded at one meter away from fan casing.



CAPACITY RANGE CHART

CES TYPE



NSF TYPE

