

# CBT-N / CBB-N CST / CSB



Ventiladores centrífugos  
Centrifugal fans  
Centrifuge simple ouïe  
Einbau- und Betriebselektromotor Radiallüfter  
Ventilatori centrifughi  
Ventiladores centrífugos  
Centrifugális ventilátorok



## ENGLISH

Installation and wiring instructions for CBB/CBT centrifugal fans.

The CBB/CBT range of centrifugal fans has been manufactured to rigorous standards of production laid down by the International Quality Standards ISO 9001. All the components have been checked and tested at the end of the manufacturing process.

We recommend that you check the following when receiving this product:

- That is the correct size and model.
- That the details on the rating label are those you require; voltage, frequency, performance...

## IMPORTANT SAFETY INFORMATION

- The installation should always be carried out in accordance with all current applicable Standards to the country in which it is installed.
- The installation should always be carried out by a suitably qualified and competent person(s).
- These fans are not for stand-alone use. They are designed to be incorporated into ducted systems, machines or where safe operation has been ensured by providing

applicable protection to moving parts.

- Do not use this product in, or to extract from, potentially hazardous or explosive atmospheres.
- The air temperature through the fan must not exceed 120°C
- The air temperature around the motor must keep less than 40°C
- Avoid excessive accumulation of dust and dirt on the motor or the wheel to ensure trouble free operation

## INSTALLATION

- This unit must not be installed outside, unless covered by a suitable weatherproof enclosure.
- Before installing the unit ensure the impeller is running freely and there are no obstructions to the airflow.
- The fan should be installed to ensure minimum vibration and noise transmission to surrounding ductwork and building frames.
- The fan should always be installed so that safe operation and maintenance can be ensured.
- If the nature of the exhaust airstream is abrasive, then we would recommend that an appropriate filter is fitted to the inlet side of the fan to protect and preserve the life of the fan impeller.

## ELECTRICAL CONNECTION

- Before Installation and Wiring **ENSURE THE MAINS ELECTRICAL SUPPLY IS DISCONNECTED!!**
- Ensure that the voltage and frequency of the electrical supply match the information stated on the Data Plate of the unit (maximum recommended tolerance of Voltage (V) and Frequency (Hz)  $\pm 5\%$ ).
- Connect the electrical supply in accordance with the electrical wiring diagrams included within the motor connection box.
- Before operation, check all connections are correct and there are no obstructions to the airflow.
- In case of using a 2-speed motor (2/4), those motors are Dahlander connection types.
- On connecting the electrical supply ensure that the motor current absorbed is not higher than the value on the rating label.
- On connecting the electrical supply ensure the direction of rotation and airflow correspond with the direction of airflow / rotation arrows (sited on unit).

## ORIENTATION OF THE OUTLET / DISCHARGE

The CBB/CBT fans from S&P have been designed to offer seven different positions of air discharge when supplied with the motor on the left (LG) or right (RD) side of the fan.

As Standard, models are supplied in position LG270.

- To modify only the discharge position on the Standard fan. Simply disconnect the fan casing from the fan / motor support and rotate to the desired position (LG0, LG45, LG90, LG135, LG180 or LG315).
- To modify the Standard LG270 fan to a right hand side (RD) configuration, the product must be disassembled and the LG impeller changed to an RD type.

## MAINTENANCE

- Before inspection or repair, ensure that the unit is disconnected from the mains electrical supply.
- Avoid excessive accumulation of dust and dirt on the motor. The fan impeller should be cleaned at least once (1) a year to ensure trouble free operation.

(Soler & Palau, S.A. reserve the right to alter specifications without prior notice)