

## DESCRIPTION

### ***Central vacuum installation in factory producing windmill blades***

#### **LOCATION**

Chennai, India

**DATE OF INSTALLATION** : July 2008

#### **APPLICATION**

Central vacuum system for extraction of sanding dust ( max. 12 sanders working at the same time).

#### **SYSTEM DESCRIPTION**

#### **SUCTION, FILTER AND COLLECTION UNIT**

- The system is served by two Delfin Suction / filter unit DG150 HD PN (12,5 kW) with inverter / speed controller, to adjust the speed of the motor depending on number of extraction points in use and actual requirement for suction performance at a given time.
- Filtration system: each DG150 PN has 4 filter cartridges, providing a total surface of 10.2 square meters, in filtration class M. The filter cleaning process is automatic and carried out by a jet of compressed air (reverse pulse cleaning) provided by a compressor installed on the vacuum unit.
- The central vacuum fixed piping runs on a total length of approximately 200 mt. , with an approximate max. distance of 80 mt. between the vacuum unit and the farthest point. The fixed piping has a diameter of 102 mm. in its main branch, reducing itself to 70 mm. and 60 mm. in correspondence with the branches, with connections to hoses of 50 mm. connecting to the sanders.
- A system of remote start / stop by means of proximity switches enables to start and stop the vacuum unit automatically, in correspondence with the first and last sander in service.



