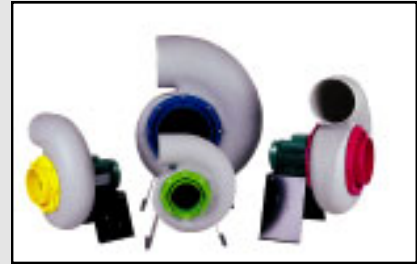


*INSTALLATION AND MAINTENANCE GUIDE
FOR STANDARD AND ATEX VERSION*

**DEDICATED FOR TOXIC AND CORROSIVE
ENVIRONEMENTS!**

WARNING:
*Please read this manual before installation
and follow the procedures extremely
carefully!*

SERIE CRCF



SERIE CRJF



The attached installation instructions are issued for guidance only. The installer assumes ultimate responsibility for ensuring that current installation regulations are fully observed and that the exhaust fan receives adequate protection from adverse electrical, mechanical, thermal or environmental conditions.

LIABILITY & WARRANTY:

SEAT VENTILATION warrants its equipment, products and parts, to be free from defects in workmanship and material under normal use and service for two years after delivery to the first user. Products must be stocked in a place protected against bad weather. Products must be returned to the point of purchase, with bill of sale, within two years of purchase. If factory return is required, as determined by the distributor.

1. INSTALLATION

Before installation, this manual must be readed carefully.

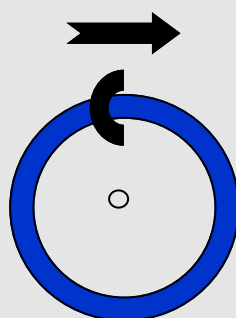
- ⇒ Before installation check that they are no foreign bodies in the coil or in the intake and pressure connections
- ⇒ Before installation check whether all the locking screws (including the motor screws) are tightened properly
- ⇒ Check the electrical connections and wiring (see page 9)
- ⇒ Fan should be connected to ductwork with PVC sleeves to reduce vibrations and noise
- ⇒ If exhaust stacks are mounted on CRCF Series fan outlet (ubplast discharge), the weight of the stack must not be supported by fan housing.
- ⇒ Avoid continous temperature use higher than 70°C
- ⇒ Please do the enclosed pedestal or kit roof installation as indicated on pages 4 to 6
- ⇒ If rain water can enter the fan housing then a drain plug with hose connector should be fitted at the lowest point of the housing
- ⇒ **Use ATEX version for the explosive atmospheres**

!!WARNING:

For the CRCF Series, for each model, the impeller turn in a one direction, LG or RD. Housing montage was planed in function of this direction of rotation: in case of housing inversion, the fan will not deliver anymore the real performances.

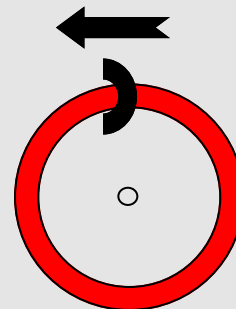
IMPELLER DIRECTION OF ROTATION

(viewed from inlet side)



LG

RD



CRCF SERIES

ATTACHEMENT OF CRCF FAN TO PEDESTAL



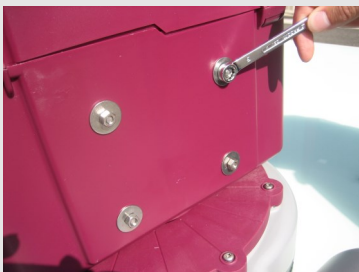
1



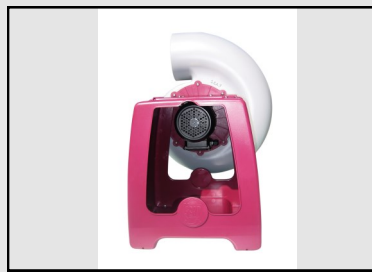
2



3



4



5



6

1/Installation composed by: one fan with wired motor, one disconnect switch (optionnal), one enclosed pedestal.

2, 3/ Insert the four bolts into the holes in the motor feet.

4/ Place the **wired** motor inside the pedestal; do not forget to lock the washers.

5, 6/ Fix the switch (optionnal)

CRJF

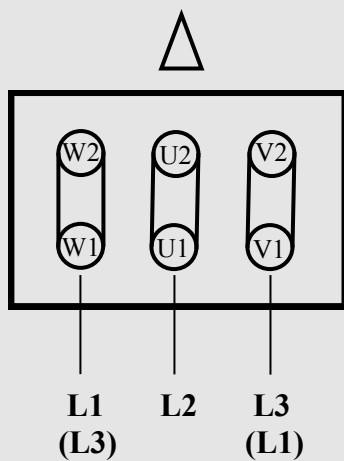


- ⇒ **Check wheel rotation prior to securing CRJF fan in position.**
- ⇒ Secure fan in place by means of screws drilled through square base (round for CRJF 30).
- ⇒ Attach fan inlet to ductwork with flexible connections.

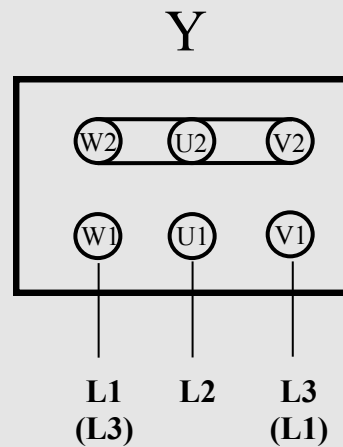
2. ELECTRICAL CONNECTION

The motor should be wired to the electrical supply in accordance with the connection diagram within the terminal box. It is essential that the motor should be protected from electrical overload by the fitting of a starter switch complete with current sensing relay.

Three phase wiring:

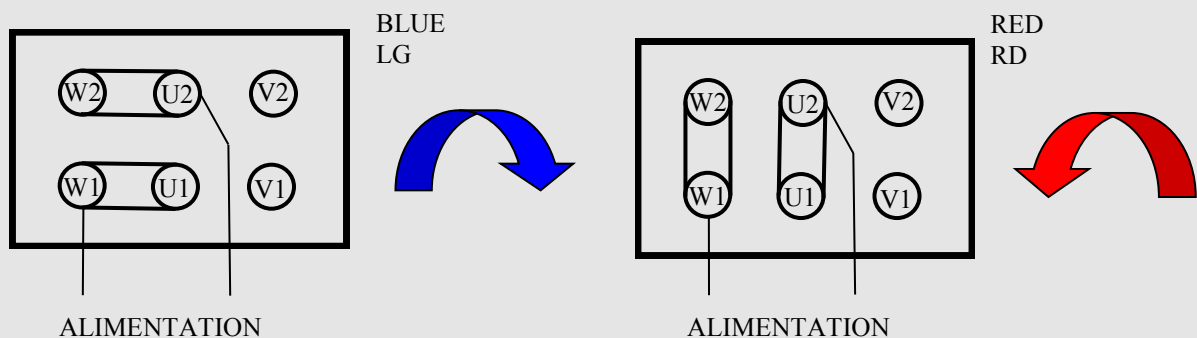


3 X 220 - 240 V



3 X 380 - 440 V

Single phase wiring:



The electrical installation may only be carried out by an authorised electrician in accordance with the regulations .

FINDING BREAKAGES

| Problem found | Cause | Solution |
|------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Lack of capacity | Impeller obstructed | Clean the impeller |
| | Direction of rotation inverted | Check connection of winding on motor terminal box |
| | Insufficient speed of rotation | Check transmission, check that the belts do not slide |
| Excessive air capacity | Speed of rotation | Check direction of rotation; check speed of motor rotation, voltage, defects in winding |
| Insufficient pressure | Speed of rotation too low | Clean tubes and hood, check position of the shutters |
| Start up difficult | Excessive power absorption | Check direction of rotation; check the conditions of turbulence at aspiration; check rotation speed of the motor |
| Excessive noise | Elevated number of rotations to obtain the required performance | Choose an appliance with a bigger size equal to the performance |
| | Break down of the bearings | Check bearing wear |
| Vibrations | Support structure not suitable | Add weights to the structure to make it more stable |

3. START UP

Prior to commissioning and initial start up, please compare the motor power with the system tension and frequency and check the electrical connections if wired at the factory. The motor must be equipped with a ON/OFF switch according to EEC Machinery Directive of 14th June 1989 (89/392 EEC). The electric cable must be protected against spoiling and conceived in accordance with the observed power.

4. FONCTIONING

- ⇒ The fan must be protected against **pumping**
- ⇒ The deposits on the impeller could cause impeller break; ensure their clearance;
- ⇒ Even in case of default of power supply, the functioning maxim temperature should not be exceeded
- ⇒ The plastic fans are not adapted for the solid particles exhaust
- ⇒ Please use ATEX version for potentially explosive atmospheres

5. MAINTENANCE

After first month functioning, the fan must be maintained as follows:

- ⇒ Check the smooth running of the fan
- ⇒ Check the motor temperature
- ⇒ Remove any dusts deposits on the impeller and the motor

The fan may only be maintained by trained personnel who are authorised to carry out such work.