

## 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 a year to ensure trouble free operation. Do not clean the unit with strong detergents or cleaning fluids. Use a damp (not wet) cloth only for cleaning.

## KRUGER GROUP

### SINGAPORE

#### **Kruger Ventilation Industries Pte Ltd**

No. 17 Tuas Avenue 10  
Singapore 639141  
Tel. +65 68611577 - Fax +65 68613577

### MALAYSIA

#### **Kruvent Industries (M) Sdn Bhd**

Lot 8, Jalan Perusahaan 2  
Batu Caves Industrial Area, 68100 Batu Caves  
Selangor  
Tel. +603 61888293 - Fax +603 61898843

### BEIJING

#### **Beijing Kruger M&E Equipment Co. Ltd**

No. 1A Fuyuan South Road, Beijing  
Economic and Technological Development  
Area, Beijing China 100176  
Tel. +8610-67881366 - Fax +8610-67880566

### HONG KONG

#### **Kruger Ventilation (Hong Kong) Limited**

Flat B, 9/F, Yeung Yiu Chung (No. 8) Industrial  
Building, 20 Wang Hoi Road, Kowloon, Hong Kong  
Tel. +852 22469182 - Fax +852 22469187

### WUHAN

#### **Wuhan Kruger M&E Industries Ltd**

108 Fangjicun, Yangyuan Street  
Wuchang, Wuhan, P.R China 430063  
Tel. +8627-86718165 - Fax +8627-86825719

### PHILIPPINES

#### **Kruger Ventilation Industries Phils. Inc**

FAPJ Compound, E. Rodriguez Ave.  
Tunasan, Muntinlupa City, Philippines 1773  
Tel. +63-2-862-2891 - Fax +63-2-862-1287

### INDONESIA

#### **P.T KrugerIndo Adhiteknik**

Ruko Mahkota Mas Blok C No. 20  
Jl. M.H. Thamrin - Cikokol Tangerang 15117  
Tel. +6221-5543107-8 - Fax +6221-5543016

### KOREA

#### **Neomate Technology&Consulting Co. Ltd**

#A-407-1, Ansung B/D, 410-13, Shindorim-Dong,  
Kuro-Gu, Seoul, Korea  
Tel. +82 02-2679-2052-3 - Fax +82 02-2679-2174

### SINGAPORE

#### **Kruger Engineering Pte Ltd**

No. 17 Tuas Avenue 10  
Singapore 639141  
Tel. +65 68631191 - Fax +65 68631115

### THAILAND

#### **Kruger Ventilation (Thailand) Co. Ltd**

1/19 Moo 2 Rama II Rd, Tasai Mueng  
Samuthsakorn 74000, Thailand  
Tel. +66 34-490164-9 - Fax +66 34-490170

### GUANGZHOU

#### **Guangzhou Kruger M&E Ind. Ltd**

No 1270 Maogang Road, Huangpu  
Guangzhou, P.R. China 510700  
Tel. +8620-82287634 - Fax +8620-82287624

### SHANGHAI

#### **Shanghai Kruger M&E Industries Ltd**

No. 500 Yuanguo Road, Anting, Jiading,  
Shanghai 201814, P.R. China  
Tel. +86 21-69573286 - Fax +86 21-69573266

### TAIPEI

#### **Kruger Ventilation (Twn) Co. Ltd**

No. 157, Ping-an Rd. Hengfeng Village,  
Dayuan Shiang Taoyuan Country 337, Taiwan  
Tel. +886 3-3859119 - Fax +886 3-3859118

### AUSTRALIA

#### **Kruger Ventilation (Australia) Pty Ltd**

4 Blackfriar Place, Wetherill Park  
NSW 2164, Australia  
Tel. +61-2-97562008 Fax +61-2-97560808

### INDIA

#### **Kruger M&E Ind. (India) Pvt Ltd**

Pardhy House 1<sup>st</sup> Floor  
Junction of Hanuman Road & MG Road  
Vile Parle (East) Mumbai 57  
Tel. +9122-56926095/6/7 - Fax +9122-56926098



## General Instructions TSK II Series



“KRUGER” domestic ventilator TSK II series are components to be installed in plants or machines to create ventilation systems, their purpose is to move gaseous liquids of the capacity and pressure as indicated. Correct installation is essential for health and safety of people during operation of the appliance, therefore the regulations indicated in these instructions must be observed and the mechanical protection must be prearranged.

If not properly installed the appliance may cause the risk of contact with the rotating fan, with consequent collision and abrasion. In addition, if it is not wired correctly, it may present risks related to electrical materials. Should the appliance be required to operate in isolation i.e. in laboratory test: it is necessary to block it appropriately and prearrange the protections to avoid contact with the rotating parts.

It is best to install the appliance as far as possible from areas usually occupied by people to avoid accessibility and to reduce exposure to noise.

**Installation and Wiring instructions**

The TSK II range of in-line duct extractor 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 you to check the following when you receive the product:

- Make sure is the correct size and model.
- Details such as voltage, frequency, performance on the rating labels are those you require.

**Installation**

- This unit must not be installed outside, unless covered by a suitable weatherproof enclosure.
- For installation, a robust mounting foot is available as an accessory.
- The fan should be installed to ensure minimum vibration and noise transmission to surrounding ductwork and building frames. Anti-vibration mountings and sound attenuating accessories are available. Please contact your local distributor.
- The fan should always be installed so that safe operation and maintenance can be ensured.

**Electrical connection**

- Before installation and Wiring, ensure the main electrical supply is disconnected!
- Ensure that the voltage and frequency of the electrical supply match the information stated on the name 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 diagram in Fig 1.
- Before operation, check all connections are correct and there are no obstructions to the airflow.
- On connecting the electrical supply, ensure the direction of rotation and airflow correspond with the direction of airflow/rotation arrows (sited on unit)

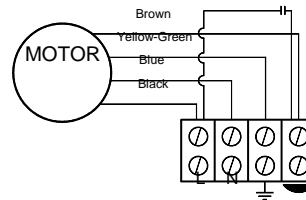
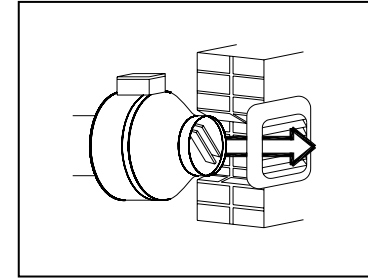


Fig. 1

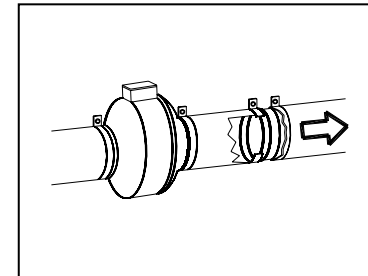
**Important Safety Information**

- 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.
- 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.

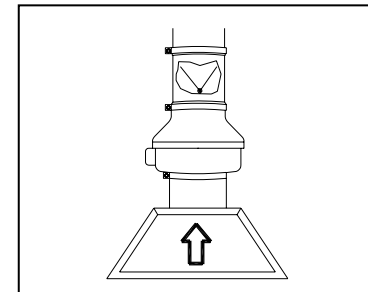
**Installation Methods**



1. At the end of the duct. (with a protective grille on the outside wall.)



2. In the middle of the duct. (with a pipe clamp and backdraft shutter install near the outlet end)



3. For intake above a hood. (with pipe clamp and backdraft shutter fitted at the outlet end of the unit)