

# Kirloskar 'KV' Series Vacuum Pumps

Single Suction, Single Delivery, High Speed, Horizontal, Centrifugal, Monobloc Pumps.

## Range

Vacuum : Up to 650 mm of Mercury.  
 Air Flow Rate : Up to 55 cubic metres per hour.  
 Power Rating : 0.75 kW and 2.2 kW  
 (1.0 HP and 3.0 HP)

## Material of Construction

### Standard Supply

Rotor (Impeller) : Bronze  
 Delivery casing : Cast Iron  
 Motor : Cast Iron  
 Shaft : Carbon Steel

### Optional Supply

Shaft : Stainless Steel

## Direction of Rotation

Anti-clockwise, when viewed from pump side.

## Approximate performance of 'KV' Series, 2 Pole Monobloc Vacuum Pumps, at rated speed, 50 Hz, AC Power Supply:

PUMP MODEL	POWER RATING		PIPE SIZE (mm)		VACUUM IN mm OF MERCURY								RATED SPEED (RPM)
	kW	HP	SUC.	DEL.	0	100	200	300	400	500	600	650	
					AIR FLOW RATE IN CUBIC METRES PUR HOUR								
KV 20	0.75	1.0	20	20	20.5	18.0	14.5	11.5	8.0	5.0	1.8	0.0	2700
KV 30	2.2	3.0	32	32	55.0	46.3	38.0	30.0	21.3	13.0	5.0	0.0	2840

Standard supply of KV 20 pumpset is in single phase & KV 30 in three phase A.C. power supply. However, KV 20 can also be supplied in three phase A.C. power supply against requirement.

Note : performance applicable for air at NTP based on employment of clear water at 30°C as working fluid.

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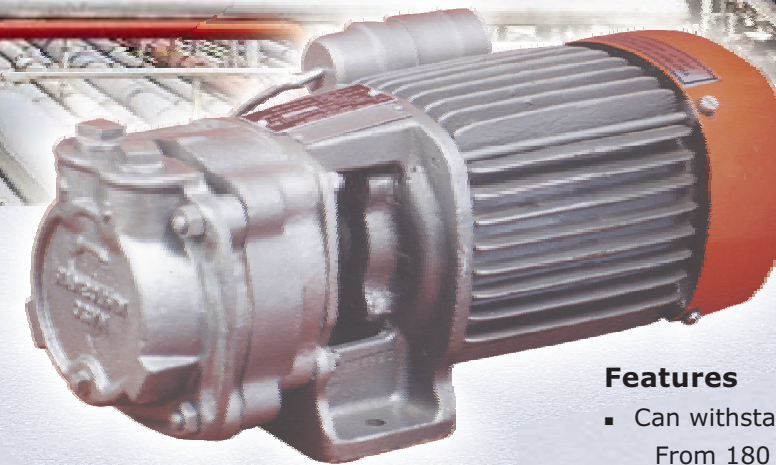
KV-080200

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**KV**  
**Vacuum Pumps**

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Enriching Lives



## Features

- Can withstand wide voltage fluctuations.  
 From 180 to 240 Volts for single phase  
 From 300 to 440 Volts for three phase
- Models are with 'B' class of insulation and IP 44 protection. Models in three phase A.C. power supply can be supplied with IP-55 protection on request.
- Designed to prevent overloading and motor burning.
- Long life - Due to replaceable wearing parts.
- Dynamically balanced rotating parts ensure minimum vibrations.
- Easy maintenance and spares availability.

## Applications

- Priming of large pumps.
- Evacuation of air from suction pipes and chambers.
- General Applications : Drying, Evaporation, Distillation, Filtration, Sterilisation, Condensation Degasification, Sucking gases.
- Specific applications : Twist Drilling Machine, Removing water from pulp layer, labeling, Bottle filling De-odorising.

