

## The right impeller for the job



### Free-flow impeller (F-impeller)

For liquids containing coarse solids and fibrous admixtures such as untreated sewage; also for sludges and liquids with a high gas or air content. Very large free passage up to the nominal diameter of the pump connection; non-clogging and resistant to deposits due to friction, excellent for handling entrained gas.



### Closed two or three vane non-clogging impeller (K-impeller)

For pumping solid-laden contaminated liquid not containing any fibrous admixtures liable to bunch or plait.

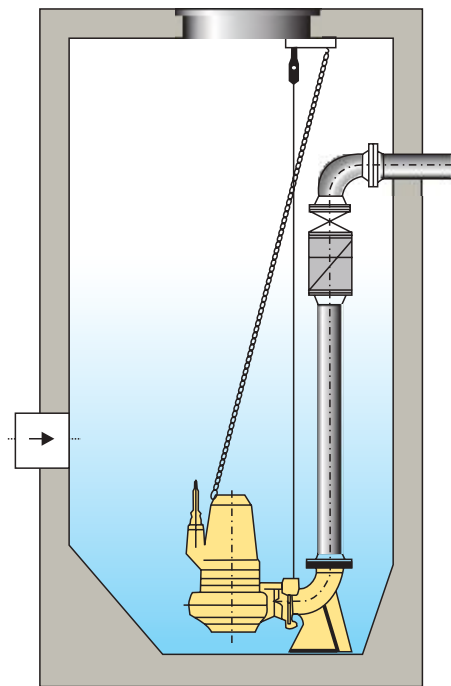
For dirty water, prescreened sewage, activated sludge, treated sewage; for handling fragile products suspended in water.



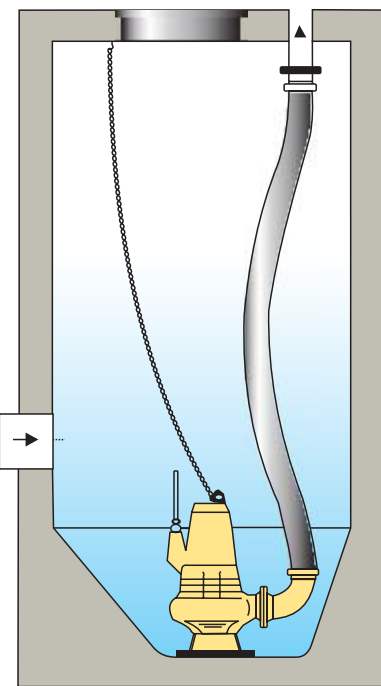
### Single-vane impeller (E-impeller)

For liquids containing coarse solids and admixtures, for untreated sewage and all types of sludge. Very large free passage; non-clogging and resistant to plaiting when handling textile waste and fibrous constituents; for handling fragile products suspended in water.

## Installation Options :

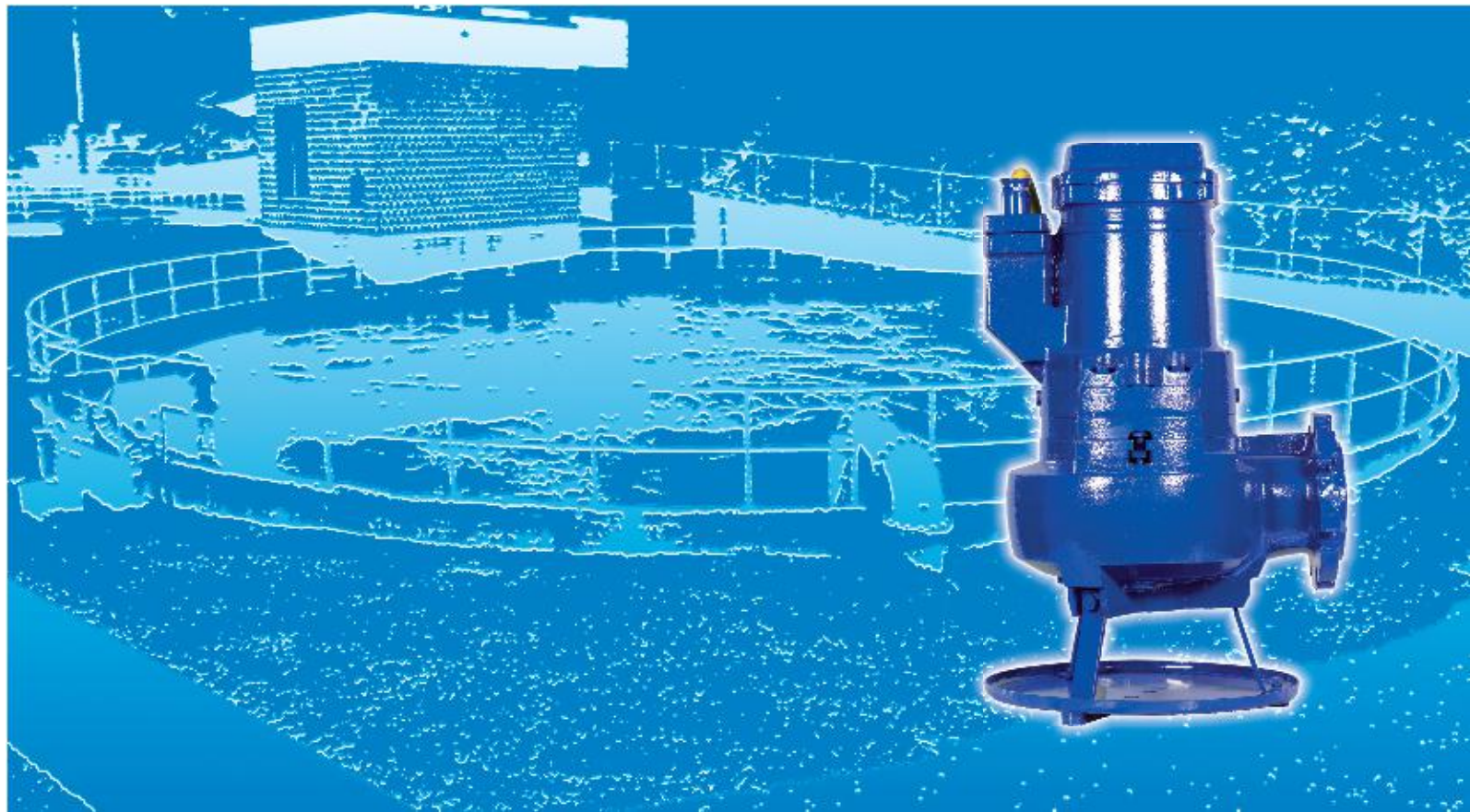


A permanent wet-well installation with KSB's own guide wire device (available for all KRTU Sizes)



A transportable wet-well installation with baseplate (available for all KRTU Sizes)

## Submersible Motor Pumps for Sewage - KRTU





Applications

KRTU pumpsets are used for handling all kinds of waste water in :

Municipal sector

- Pumping stations : Untreated domestic sewage
- Hotels, Subways & Airports : Faeces, mixed liquor, eatables etc.
- Lifting stations : Storm water
- Sewage works (Treatment plants) : Grit trap pumping, raw sludge, activated sludge, digested sludge

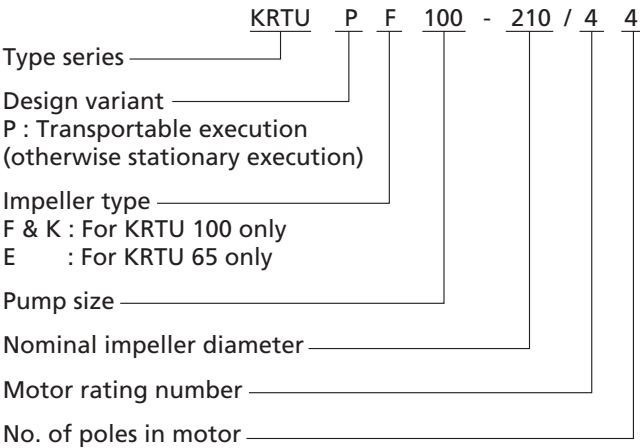
Industrial sector

- Iron & Steel : Raw water, sinter water, cooling water with solids, scrubber liquor
- Cellulose, Paper : Process water
- Manufacturer of insulation materials : Process water with glass wool, Asbestos fibre
- Mechanical engineering : Cutting oil
- Chemical : All kinds of effluents
- Sugar : Sugarcane tails, wash water etc.
- Food processing : Transportation of tomatoes etc.
- Sea water, Industrial water : Sandy water, Waste water
- Refinery : Hydrocarbons (Oil, Gasoline, Butane, Methane etc.)

Design

KRTU pumps are single stage, submersible centrifugal pumps of closed coupled (monobloc) construction. They are available with three types of impellers - E (single vane) K (non-clog two channel) and F (free flow) for two types of installations, namely transportable and stationary.

Designation



Operating data

- Pump sizes : DN 65 and DN 100
- Capacity : up to 200 m³/hr
- Head : up to 24 m
- Motor rating : up to 9.5 kW
- Temperature : up to 70°C

Drive

Three phase induction motor for operating voltage of 380 V and 415 V, insulation class F with built-in temperature protection.

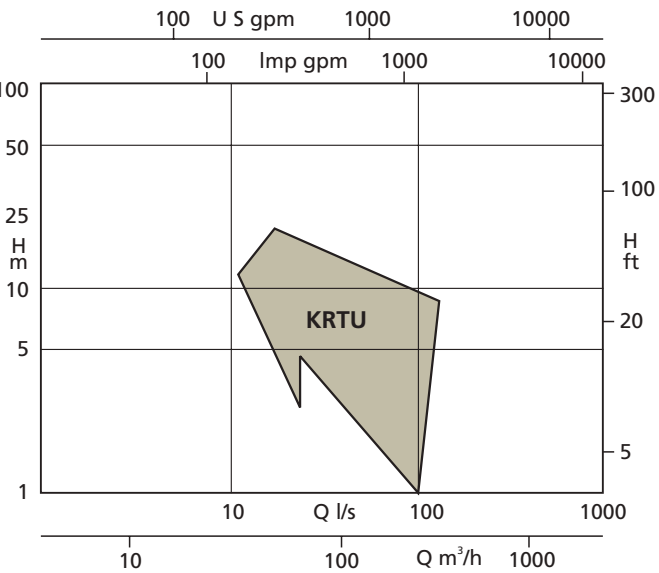
Shaft sealing

- KRTU 65 : Pump side : Mechanical seal, Motor side : Oil seals
- KRTU 100 : Pump side : Mechanical seal, Motor side : Mechanical seal

Bearings

Antifriction ball bearings as per DIN 625, packed with grease for life.

Family curve



Materials

Materials for standard C.I. execution are as under :

Part Name	KRTU 65	KRTU 100
Pump casing	C.I.	C.I.
Impeller	C.I.	C.I.
Shaft	Carbon steel	Carbon steel
Motor casing	C.I.	C.I.
Shaft protection sleeve	–	Stainless steel
Guide rope	Stainless steel	Stainless steel

