



Electric Drive KleenScreen™ Orbiter Range

KleenScreen Torque-Plus

Electrically Driven Self-Cleaning Intake Screens

From the outside they look exactly the same as the standard range of KleenScreen Orbiter Self Cleaning Intake Screens.

But it's what's on the inside that matters.....



KS65-10-T+



T+ DRIVE

The KleenScreen Torque Plus (KST+) Range features an electric drive which increases the cleaning efficiency by dramatically reducing the energy used to rotate the screen during its cleaning phase.

The system utilises a miniature variable speed drive in combination with a submersible gear-motor to increase the power of the drive, thereby increasing the reliability of the screen's self-cleaning operation.

The standard KSO Range rotate the screen cage by directing a water jet against a series of blades. Although this is effective, there are many cases where the screens are rotating continuously and so this drive jet can use a considerable amount of energy (up to 2 kW on the larger screens). The electric drive in the **KST+ Range** achieves the same result and uses just 10-20 watts. Pressurised water is still required to run the wash jets.

BENEFITS

Energy Saving

As well as the benefits of installing a self-cleaning intake screen, the Torque-Plus range of KleenScreens further build on the energy saving benefit by using less water and therefore comparatively less energy to run the screen. This means that the size of the pump contributing to the backwash can be smaller and cheaper.

Repairs and Maintenance

The small screen holes filter water entering system. This can significantly reduce the wear on the pump and other system components, while also dramatically reducing the incidence of nozzle blockages.

Serviceability

The screen can be easily serviced; no tools are required to remove the screen cage for internal maintenance.

Durable

Stainless steel and thermoplastic components ensure rugged construction and long operational life.

FEATURES OF THE KST+ RANGE

KleenScreens are designed and manufactured in New Zealand for local and overseas conditions.

No electrolysis

Materials are mainly stainless steel or plastic, which prevents a corrosive situation with dissimilar metals. A gasket and bolt bushes may be used to ensure that there is no contact with the intake pipe.

Durable and relatively light

The stainless steel construction provides a strong and durable screen, with a relatively light weight.

Filtering Options

The KleenScreen Torque-Plus range is available with 10, 20 or 30 mesh consisting of stainless steel woven wire. Additionally sizes up to the KS140-T+ are available with a Wedgewire Cage with slots of either 1.0mm, 1.5mm and 2.0mm. The KS180-T+ & KS215-T+ are available with the 1.5mm wedgewire cage.

Standard connection

The KST+ range has AS2129 Table 'E' Flanges. Backwash connections are standard BSP male connections.

Model	Connection Size	Maximum Flow		Backwash Pressure	Backwash flow	Backwash connection	Screen Diameter	Overall length
		with standard 20 mesh						
KS50-T+	200NB Tab 'E'	50 L/s	180 m ³ /hr	30m H ₂ O	0.5 L/s	3/4" fem BSP	470mm	690mm
KS65-T+	200NB Tab 'E'	65 L/s	234 m ³ /hr	30m H ₂ O	0.6 L/s	3/4" fem BSP	470mm	810mm
KS90-T+	250NB Tab 'E'	90 L/s	324 m ³ /hr	30m H ₂ O	0.8 L/s	1" fem BSP	470mm	1045mm
KS115-T+	250NB Tab 'E'	115 L/s	414 m ³ /hr	30m H ₂ O	1.0 L/s	1" fem BSP	470mm	1295mm
KS140-T+	250NB Tab 'E'	140 L/s	504 m ³ /hr	30m H ₂ O	1.3 L/s	1" fem BSP	470mm	1540mm
KS180-T+	300NB Tab 'E'	180 L/s	648 m ³ /hr	30m H ₂ O	1.3 L/s	1½" fem BSP	600mm	1570mm
KS215-T+	400NB Tab 'E'	215 L/s	774 m ³ /hr	30m H ₂ O	1.7 L/s	1½" fem BSP	600mm	1970mm



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