

Water Management Solutions

# Klargester N Range Sewage Treatment Plant

2024 marks 50 years of the Klargester BioDisc and to celebrate we are introducing our new Klargester N Range with three different options for improving the effluent qualities, the standard N Range BioDisc, N Range BioDisc+P and N Range BioDisc with Tertiary Filter.



The new and improved N Range is engineered to treat wastewater to a very high standard delivering peace of mind with reliable treatment of wastewater, offering affordable lifetime costs compared to other treatment processes.

## Product Benefits:



Improved BOD, SS & NH4N effluent levels



New split cover, offering safer access for service



Affordable lifetime running costs



Odour free



Silent Operation



7 year warranty\* (T&C's apply)



Third party tested to EN 12566-3

[kingspan.com](http://kingspan.com)



# Technical Specification

Unit Reference	NA	NAx	NB	NC	ND	NE	NF
Population Equivalent (Std Flow)	6	9	12	18	25	35	50
Maximum Daily BOD (kg)	0.36	0.54	0.72	1.08	1.5	2.1	3
Maximum Daily Flow (m <sup>3</sup> )	0.9	1.35	1.8	2.7	3.75	5.25	7.5
Width (mm)	1995	1995	1995	2450	2450	2450	2450
Length (mm)	-	-	-	-	3340	3340	4345
Inlet Invert depth	450/750/1250	450/750/1250	450/750/1250	600/1100 450/750/ 1250/1100	600/1100	600/1100	600/1100
Depth Below Inlet Invert	1400	1400	1400	1820	1820	1820	1820
Outlet Invert Depth	1315	1315	1315	1735	1735	1735	1720
Overall height	2160/2460/2960	2160/2460/2960	2160/2460/2960	2825/3325	2825/3325	2825/3325	2825/3325
Height to Rim of Cover	1945/2245/2745	1945/2245/2745	1945/2245/2745	2485/2985	2485/2985	2485/2985	2485/2985
Empty Weight	310/325/380	310/325/380	335/350/405	650/750	1100/1200	1200/1300	1315/1465
Standard power Supply	1 phase	1 phase	1 phase	1 phase	1 phase	1 phase	1 phase
Motor Rating - 1 Phase (Watts)	50	50	50	75	75	75	120
Full Load Current 1 Phase (amps)	0.51	0.51	0.51	1.1	1.1	1.1	1.3
Optional Power Supply	3 phase	3 phase	3 phase	3 phase	3 phase	3 phase	3 phase
Motor Rating - 3 Phase (Watts)	N/A	N/A	N/A	90	90	90	120
Full Load Current 3 Phase (amps)	N/A	N/A	N/A	0.38	0.38	0.38	0.42
Sludge Return Pump Rating (Watts)	250	250	250	250	250	250	250

In addition to our new N Range we can offer new further options to help improve effluent qualities. Our BioDisc +P is designed to ensure excellent phosphate and nitrate removal and due to higher demands on wastewater effluent qualities, Klargester have designed a new tertiary module that works alongside our range of sewage treatment plants to achieve a higher BOD removal.

		N Range		N Range + BioTreat		N Range + P	
		% Removal	Effluent	% Removal	Effluent	% Removal	Effluent
BOD5	Biochemical Oxygen Demand	97.6%	8.2 mg/l	99.2%	2.5 mg/l	97.6%	8 mg/l
SS	Suspended Solids	97.4%	9.6 mg/l	99.3%	2.6 mg/l	96.1%	16 mg/l
NH4-N	Ammonia	98.3%	0.7 mg/l	98.4%	0.6 mg/l	92.3%	4.0 mg/l
TN <sub>b</sub>	Total Nitrogen	58.0%	24.8 mg/l	69.4%	17.9 mg/l	63.6%	24.3 mg/l
P <sub>tot</sub>	Total Phosphate	26.4%	5.4 mg/l	39.3%*	4.3 mg/l *	93.6%	0.5 mg/l

\* Media needs to be changed annually if fully loaded

For more information on our new Klargester Biodisc N range contact:

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