

Semi-Continuous (Batch) Knelson Concentrator Specifications

Knelson Concentrator Model	Solids Feed Capacity	Fluidization Water Required	Maximum Volumetric Throughput	Active Capture Area	Feed Size	Concentrate Volume	Concentrate Weight	Concentrator Net Weight	Motor Power	ICS or ICS jr Available
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Extended Duty (XD) Series

KC-XD70	300-1000 tonnes/hr [330-1100 tons/hr]	45-80 m³/hr [200-350 USgpm]	1360 m³/hr [6000 USgpm]	32,044 cm² [4,967 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	52 L [3,200 in³]	100-140 kg [220-310 lbs]	18,455 kg [40,600 lbs]	150-375 kW [200-500 HP]	●
KC-XD48	200-400 tonnes/hr [220-440 tons/hr]	41-61 m³/hr [180-270 USgpm]	545 m³/hr [2400 USgpm]	13,941 cm² [2,161 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	20 L [1,220 in³]	45-50 kg [100-110 lbs]	5,680 kg [12,500 lbs]	30-75 kW [40-100 HP]	●
KC-XD48VG	200-400 tonnes/hr [220-440 tons/hr]	41-61 m³/hr [180-270 USgpm]	545 m³/hr [2400 USgpm]	13,941 cm² [2,161 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	20 L [1,220 in³]	45-50 kg [100-110 lbs]	5,900 kg [13,000 lbs]	45-75 kW [60-100 HP]	●
KC-XD40	125-250 tonnes/hr [138-275 tons/hr]	27-45 m³/hr [120-200 USgpm]	340 m³/hr [1500 USgpm]	11,130 cm² [1,725 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	17 L [1000 in³]	38-56 kg [85-125 lbs]	4100 kg [9000 lbs]	30kW [40 HP]	●
KC-XD40VG	125-250 tonnes/hr [138-275 tons/hr]	27-45 m³/hr [120-200 USgpm]	340 m³/hr [1500 USgpm]	11,130 cm² [1,725 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	17 L [1000 in³]	38-56 kg [85-125 lbs]	4270 kg [9400 lbs]	30-56kW [40-75 HP]	●
KC-XD30	75-150 tonnes/hr [83-165 tons/hr]	17-25 m³/hr [75-110 USgpm]	205 m³/hr [900 USgpm]	7,115 cm² [1,103 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	12 L [730 in³]	21-27 kg [47-59 lbs]	1,724 kg [3,800 lbs]	11kW [15HP]	●
KC-XD30VG	75-150 tonnes/hr [83-165 tons/hr]	17-25 m³/hr [75-110 USgpm]	205 m³/hr [900 USgpm]	7,115 cm² [1,103 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	12 L [730 in³]	20-27 kg [45-60 lbs]	1,860 kg [4,100 lbs]	11 - 22 kW [15 - 30 HP]	●
KC-XD20	15-80 tonnes/hr [17-88 tons/hr]	8-14 m³/hr [35-60 USgpm]	109 m³/hr [480 USgpm]	2,982 cm² [462 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	5 L [300 in³]	7-10 kg [15-22 lbs]	1,000 kg [2,200 lbs]	5.5 kW [7.5 - 10 HP]	●
KC-XD20VG	15-80 tonnes/hr [17-88 tons/hr]	8-14 m³/hr [35-60 USgpm]	109 m³/hr [480 USgpm]	2,982 cm² [462 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	5 L [305.4 in³]	7-10 kg [16-22 lbs]	1,090 kg [2,400 lbs]	5.5 kW [7.5 - 10 HP]	●

Centre Discharge (CD) Series

KC-CD30	50-100 tonnes/hr [55-110 tons/hr]	17-25 m³/hr [75-110 USgpm]	135 m³/hr [600 USgpm]	7,115 cm² [1,103 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	13 L [780 in³]	21-27 kg [47-59 lbs]	1,590 kg [3,500 lbs]	11 kW [15 HP]	●
KC-CD20	15-80 tonnes/hr [16-88 tons/hr]	8-14 m³/hr [35-60 USgpm]	110 m³/hr [485 USgpm]	2,982 cm² [462 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	5 L [300 in³]	7-10 kg [15-22 lbs]	900 kg [2,000 lbs]	7.5 kW [10 HP]	●
KC-CD12	6-20 tonnes/hr [6.6-22 tons/hr]	4.1-5.7m³/hr [18-25 USgpm]	27 m³/hr [120 USgpm]	1,044 cm² [162 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	1.6 L [95 in³]	2.5-4.5 kg [6-10 lbs]	260 kg [580 lbs]	2.3 kW [2-3 HP]	●
KC-CD12VG	6-20 tonnes/hr [6.6-22 tons/hr]	4.1-5.7m³/hr [18-25 USgpm]	27 m³/hr [120 USgpm]	1,044 cm² [162 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	1.6 L [95 in³]	2.5-4.5 kg [6-10 lbs]	332 kg [730 lbs]	2.3-3.8 kW [3-5 HP]	●
KC-CD10	0.9-8 tonnes/hr [1-8.8 tons/hr]	3.4-4.5 m³/hr [15-20 USgpm]	10 m³/hr [50 USgpm]	770 cm² [119 in²]	Max. 6mm [1/4"] Recommended 1.7mm [10 mesh]	1.2 L [72 in³]	2.0-3.8 kg [4.5-8.5 lbs]	201 kg [443 lbs]	1.1 kW [1.5 HP]	●

Manual Discharge (MD) Series (Laboratory / Testwork)

KC-MD7.5	0-680 kg/hr [0-1500 lbs/hr]	45-68 Lpm [12-18 USgpm]	95 Lpm [25 USgpm]	322 cm² [50 in²]	Max. 4.7mm [3/16"]	0.7 L [42 in³]	1.0-1.4 kg [2.2-3.0lbs]	113 kg [250 lbs]	3/4 HP	
KC-MD7.5VG	0-680 kg/hr [0-1500 lbs/hr]	45-68 Lpm [12-18 USgpm]	95 Lpm [25 USgpm]	322 cm² [50 in²]	Max. 4.7mm [3/16"]	0.7 L [42 in³]	1.0-1.4 kg [2.2-3.0lbs]	113 kg [250 lbs]	3/4 HP	
KC-MD4.5	0-275 kg/hr [0-605 lbs/hr]	11-19 Lpm [3-5 USgpm]	18 Lpm [5 USgpm]	157 cm² [24 in²]	Max. 1.7mm [10 Mesh]	0.18 L [11 in³]	200-350 g [0.5-0.8 lbs]	113 kg [250 lbs]	3/4 HP	
KC-MD3	0-45 kg/hr [0-100 lbs/hr]	0.7-4.5 Lpm [0.2-1.1 USgpm]	8 Lpm [2 USgpm]	48 cm² [7.4 in²]	Max. 1.7mm [10 Mesh]	58 ml [3.5 in³]	80-150 g [0.18-0.33 lbs]	28 kg [61 lbs]	1/6 HP	



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- Variable Gravity (VG) Package is available for all models
- Feed density: 0-75% Solids/Weight for all listed models