Collector size (minimum)	37.50 -mm	11.8 in.	31.25 -mm	9.8 in.	18.75 -mm	5.9 in.	12.50 -mm	3.9 in.	12.50 -mm	3.9 in.			0.00 -mm	0.0 in.		0.00						
Collectors required (minimum)	2-ea.	2-ea.	2-ea.	2-ea.	2-ea.	2-ea.	1-ea.	2-ea.	1-ea.	2-ea.			2-ea.	2-ea.		0.00						
Converter size (minimum)	39.37 -mm	12.4 -in.	31.25 -mm	9.8 -in.	20.00 -mm	6.3 -in.	9.37 -mm	3.0 -in.	9.37 -mm	3.0 -in.			0.00 -mm	0.0 -in.		0.00						
Convertors required (minimum)	2-ea.	2-ea.	2-ea.	2-ea.	1-ea.	1-ea.	1-ea.	1-ea.	1-ea.	1-ea.			1-ea.	1-ea.		0.00						
Flow per inlet	1.14 $-m^3/hr$	5.00 -gpm	1.14 $-m^3/hr$	5.00 -gpm	1.14 $-m^3/hr$	5.00 -gpm	1.14 $-m^3/hr$	5.00 -gpm	1.14 $-m^3/hr$	5.00 -gpm			1.14 $-m^3/hr$	5.00 -gpm		0.00						
Number of inlets	564	564	150	150	22	22	18	18	13	13			13	13		0						
Filtration (High rate Sand, Pressure or Vacuum)																						
Filter flow rate	35 $-m^3/hr/m$	14.3 $-gpm/ft^2$	35 $-m^3/hr/m^2$	14.3 $-gpm/ft^2$	35 $-m^3/hr/m$	14.3 $-gpm/ft^2$	35 $-m^3/hr/m^2$	14.3 $-gpm/ft^2$	35 $-m^3/hr/m^2$	14.3 $-gpm/ft^2$	35 $-m^3/hr/$	14.3 $-gpm/ft^2$	35 $-m^3/hr/m^2$	14.3 $-gpm/ft^2$	35 $-m^3/hr/$	14.3 $-gpm/ft^2$	35 $-m^3/hr/m$	14.3 $-gpm/ft^2$	35 $-m^3/hr/m$	14.3 $-gpm/ft^2$	35 $-m^3/hr/m$	14.3 $-gpm/ft^2$
Total filtration flow rate at design rate	640.00 $-m^3/hr$	2,817.8 -gpm	170.85 $-m^3/hr$	752.2 -gpm	25.26 $-m^3/hr$	111.2 -gpm	20.82 $-m^3/hr$	91.7 -gpm	14.81 $-m^3/hr$	65.2 -gpm	29.61 $-m^3/hr$	130.4 -gpm	14.81 $-m^3/hr$	65.2 -gpm	29.61 $-m^3/hr$	130.4 -gpm	640.00 $-m^3/hr$	2,817.84 -gpm	196.11 $-m^3/hr$	863.46 -gpm	80.04 $-m^3/hr$	352.42 -gpm
Required Filter Area	18.29 $-m^2$	196.83-ft^2	4.88 $-m^2$	52.55-ft^2	0.72 $-m^2$	7.77-ft^2	0.60 $-m^2$	6.40-ft^2	0.42 $-m^2$	4.55-ft^2	0.85 $-m^2$	9.11-ft^2	0.42 $-m^2$	4.55-ft^2	0.85 $-m^2$	9.11-ft^2	18.29 $-m^2$	196.83-ft^2	5.61 $-m^2$	57.56-ft^2	1.32 $-m^2$	23.49-ft^2
Number of Filters	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Filter Area per Filter	9.66 $-m^2$	104.00	see combined information		see combined information		see combined information		see combined information		see combined information		see combined information		see combined information		9.66 $-m^2$	104.00-ft^2	7.43 $-m^2$	80.00-ft^2	2.79 $-m^2$	30.00-ft^2
Total Filter Area (all filters)	19.32 $-m^2$	208.00-ft^2	see combined information		see combined information		see combined information		see combined information		see combined information		see combined information		see combined information		19.32 $-m^2$	208.00-ft^2	7.43 $-m^2$	80.00-ft^2	2.79 $-m^2$	30.00-ft^2
Filter flow rate (velocity/area-design/actual)	35.0 $-m^3/hr/m$	14 $-gpm/ft^2$	35.0 $-m^3/hr/m^2$	14 $-gpm/ft^2$	35.0 $-m^3/hr/m$	14 $-gpm/ft^2$	35.0 $-m^3/hr/m^2$	14 $-gpm/ft^2$	35.0 $-m^3/hr/m^2$	14 $-gpm/ft^2$	35.0 $-m^3/hr$			14 $-gpm/ft^2$	35.00 $-m^3/hr$	14 $-gpm/ft^2$	33.12 $-m^3/hr$	14 $-gpm/ft^2$	26.39 $-m^3/hr$	10.79 $-gpm/ft^2$	28.72 $-m^3/hr$	11.75 $-gpm/ft^2$
Filter flow per filter (at design - each)	320 $-m^3/hr$	1,409 -gpm	171 $-m^3/hr$	752 -gpm	25 $-m^3/hr$	111 -gpm	21 $-m^3/hr$	92 -gpm	15 $-m^3/hr$	65 -gpm	30 $-m^3/hr$	130 -gpm	15 $-m^3/hr$	65 -gpm	30 $-m^3/hr$	130 -gpm	320 $-m^3/hr$	1,409 -gpm	177 $-m^3/hr$	777 -gpm	30 $-m^3/hr$	132 -gpm
Filter flow rate (standard - combined)	640 $-m^3/hr$	2,818 -gpm	171 $-m^3/hr$	752 -gpm	25 $-m^3/hr$	111 -gpm	21 $-m^3/hr$	92 -gpm	15 $-m^3/hr$	65 -gpm	30 $-m^3/hr$	130 -gpm	15 $-m^3/hr$	65 -gpm	30 $-m^3/hr$	130 -gpm	640 $-m^3/hr$	3,170 -gpm	177 $-m^3/hr$	777 -gpm	30 $-m^3/hr$	132 -gpm
Filter flow rate (maximum)	49 $-m^3/hr/m$	20.0 $-gpm/ft^2$	49 $-m^3/hr/m^2$	20.0 $-gpm/ft^2$	49 $-m^3/hr/m$	20.0 $-gpm/ft^2$	49 $-m^3/hr/m^2$	20.0 $-gpm/ft^2$	49 $-m^3/hr/m^2$	20.0 $-gpm/ft^2$	49 $-m^3/hr/$	20.0 $-gpm/ft^2$	49 $-m^3/hr/m^2$	20.0 $-gpm/ft^2$	49 $-m^3/hr/$	20.0 $-gpm/ft^2$	49 $-m^3/hr/m$	20.0 $-gpm/ft^2$	49 $-m^3/hr/m$	20.0 $-gpm/ft^2$	49 $-m^3/hr/m$	20.0 $-gpm/ft^2$
Number of pumps per filter	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00
Recirculation capacity per pump (%)	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Pump flow rate (each pump)	240.0 $-m^3/hr$	1,057 -gpm	128 $-m^3/hr$	564.18 -gpm	18.9 $-m^3/hr$	83.42 -gpm	15.6 $-m^3/hr$	68.74 -gpm	165.6 $-m^3/hr$	48.89 -gpm	331.1 $-m^3/hr$	97.78 -gpm	165.6 $-m^3/hr$	48.89 -gpm	331.1 $-m^3/hr$	97.78 -gpm	320.0 $-m^3/hr$	1,408.92 -gpm	196.1 $-m^3/hr$	863.46 -gpm	80.0 $-m^3/hr$	352.42 -gpm
Maximum design head loss in filter (suction)	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg	44.02-kPa	13.00-in Hg
Maximum design head loss in filter (pressure)	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi	0.00-kPa	0.00-psi
Total piping head loss (suction side)	5.97-kPa	2.0-ft. head	5.97-kPa	2.0-ft. head	5.97-kPa	2.0-ft. head	5.97-kPa		5.97-kPa	2.0-ft. head	5.97-kPa	2.0-ft. head	5.97-kPa	2.0-ft. head	5.97-kPa	2.0-ft. head	5.97-kPa	2.0-ft. head	5.97-kPa	2.0-ft. head	5.97-kPa	2.0-ft. head
Total discharge piping head loss (pressure side)	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head	14.93-kPa	5.0-ft. head
Additional discharge side pressure loss	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi	103.42-kPa	15.00-psi
Total dynamic head at flow	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head	168.35-kPa	56.4-ft. head
Backwash flow rate (minimum)	32 $-m^3/hr/m$	12.9 $-gpm/ft^2$	32 $-m^3/hr/m^2$	12.9 $-gpm/ft^2$	32 $-m^3/hr/m$	12.9 $-gpm/ft^2$	32 $-m^3/hr/m^2$	12.9 $-gpm/ft^2$	32 $-m^3/hr/m^2$	12.9 $-gpm/ft^2$	32 $-m^3/hr/$	12.9 $-gpm/ft^2$	32 $-m^3/hr/m^2$	12.9 $-gpm/ft^2$	32 $-m^3/hr/$	12.9 $-gpm/ft^2$	30 $-m^3/hr/m$	12.2 $-gpm/ft^2$	24 $-m^3/hr/m$	9.7 $-gpm/ft^2$	26 $-m^3/hr/m$	10.6 $-gpm/ft^2$
Backwash Discharge Rate (standard)	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$	36.67 $-m^3/hr$	15.0 $-gpm/ft^2$
Estimated Time for Backwash	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.	10.00 min.
Backwash Discharge per filter (Minimum)	50.73 $-m^3$	13,400 -gal	see combined information		see combined information		see combined information		see combined information		see combined information		see combined information		see combined information		48.00 $-m^3$	15,600 -gal	29.42 $-m^3$	12,000 -gal	12.01 $-m^3$	4,500 -gal
Backwash Discharge per filter (Standard)	55.88 $-m^3$	14,762 -gal	29.84 $-m^3$	7,882 -gal	4.41 $-m^3$	1,165 -gal	3.64 $-m^3$	960 -gal	2.59 $-m^3$	683 -gal	5.17 $-m^3$	1,366 -gal	2.59 $-m^3$	683 -gal	5.17 $-m^3$	1,366 -gal	55.88 $-m^3$	14,762 -gal	32.69 $-m^3$	8,635 -gal	13.34 $-m^3$	3,524 -gal
Total Backwash Discharge Volume (standard)	111.76 $-m^3$	29,525 -gal	29.84 $-m^3$	7,882 -gal	4.41 $-m^3$	1,165 -gal	3.64 $-m^3$	960 -gal	2.59 $-m^3$	683 -gal	5.17 $-m^3$	1,366 -gal	2.59 $-m^3$	683 -gal	10.34 $-m^3$	2,732 -gal	111.76 $-m^3$	29,525 -gal	32.69 $-m^3$	8,635 -gal	13.34 $-m^3$	3,524 -gal
Backwash Retention Capacity (standard)	59.05 $-m^3$	15,601 -gal	see combined information		see combined information		see combined information		see combined information		see combined information		see combined information		see combined information		111.76 $-m^3$	1,974 $-ft^3$	32.69 $-m^3$	1,154 $-ft^3$	13.34 $-m^3$	471 $-ft^3$
Backwash Discharge Rate* (air assisted)	12.84 $-m^3/hr$	5.250 -gpm	12.84 $-m^3/hr$	5.250 -gpm	12.84 $-m^3/hr$	5.250 -gpm	12.84 $-m^3/hr$	5.250 -gpm	12.84 $-m^3/hr$	5.250 -gpm	12.84 $-m^3/hr$	5.250 -gpm	12.84 $-m^3/hr$	5.250 -gpm	12.84 $-m^3/hr$	5.250 -gpm	12.84 $-m^3/hr$	5.3 $-gpm/ft^2$	12.84 $-m^3/hr$	5.3 $-gpm/ft^2$	12.84 $-m^3/hr$	5.3 $-gpm/ft^2$
Estimated Time for Backwash* (air assisted)	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.	5.00 min.

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