

ENGINEERING DATA



Smith &
Loveless, Inc.®

14040 West Santa Fe Trail Drive
Lenexa, Kansas 66215-1284

PISTA® Grit Chamber
Chart 67A219
Outline Drawings 67B310,
67B315, 67B316, 67B317
November, 2007
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CONCRETE 360° PISTA® GRIT CHAMBER W/ FLOW CONTROL BAFFLES DIMENSIONS DRAWINGS 67B310, 67B315, 67B316, AND 67B317

MODELS 0.5B – 100.0B

CHART NUMBER 67A219

MODEL NUMBER	A		B		C		D		E	
	English	Metric (m)	English	Metric (m)	English	Metric (m)	English	Metric (m)	English	Metric (m)
0.5B	6'-0"	1.83	0'-6"	0.15	1'-6"	0.46	8'-8"	2.64	5'-0"	1.52
1.0B	6'-0"	1.83	1'-0"	0.30	1'-6"	0.46	8'-8"	2.64	5'-0"	1.52
2.5B	7'-0"	2.13	1'-6"	0.46	2'-4"	0.71	9'-6"	2.90	5'-0"	1.52
4.0B	8'-0"	2.44	2'-0"	0.61	2'-6"	0.76	9'-8"	2.95	5'-0"	1.52
7.0B	10'-0"	3.05	2'-6"	0.76	2'-10"	0.86	10'-6"	3.20	5'-6"	1.68
12.0B	12'-0"	3.66	3'-0"	0.91	4'-6"	1.37	13'-4"	4.06	6'-8"	2.03
20.0B	16'-0"	4.88	4'-0"	1.22	5'-4"	1.63	14'-4"	4.37	6'-10"	2.08
30.0B	18'-0"	5.49	4'-6"	1.37	7'-0"	2.13	16'-2"	4.93	7'-0"	2.13
50.0B	20'-0"	6.10	5'-0"	1.52	9'-4"	2.84	19'-6"	5.94	8'-0"	2.44
70.0B	24'-0"	7.32	6'-0"	1.83	10'-6"	3.20	20'-8"	6.30	8'-0"	2.44
100.0B	32'-0"	9.75	8'-0"	2.44	10'-6"	3.20	22'-8"	6.91	10'-0"	3.05

MODEL NUMBER	F		MIN. G		MIN. H		K		L	
	English	Metric (m)	English	Metric (m)	English	Metric (m)	English (hp)	Metric (kw)	English	Metric (m)
0.5B	0'-6"	0.15	3'-0"	0.91	5'-4 1/4"	1.63	3/4	0.56	3'-0"	0.91
1.0B	0'-6"	0.15	3'-0"	0.91	6'-0"	1.83	3/4	0.56	3'-0"	0.91
2.5B	0'-11"	0.28	3'-6"	1.07	8'-2"	2.49	3/4	0.56	3'-0"	0.91
4.0B	1'-0"	0.30	4'-0"	1.22	9'-1"	2.77	1	0.75	3'-0"	0.91
7.0B	1'-2"	0.36	5'-0"	1.52	10'-7"	3.23	1	0.75	3'-0"	0.91
12.0B	2'-0"	0.61	6'-0"	1.83	14'-7"	4.45	1 1/2	1.12	5'-0"	1.52
20.0B	2'-5"	0.74	8'-0"	2.44	17'-10"	5.44	1 1/2	1.12	5'-0"	1.52
30.0B	3'-3"	1.00	9'-0"	2.74	21'-10"	6.65	2	1.49	5'-0"	1.52
50.0B	4'-5"	1.35	10'-0"	3.05	27'-7"	8.41	2	1.49	5'-0"	1.52
70.0B	5'-0"	1.52	12'-0"	3.66	31'-6 7/8"	9.62	2	1.49	6'-0"	1.83
100.0B	5'-0"	1.52	16'-0"	4.88	35'-0 7/16"	10.68	2	1.49	8'-0"	2.44

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CONCRETE 360°PISTA® GRIT CHAMBER W/ FLOW CONTROL BAFFLES DIMENSIONS DRAWINGS 67B310, 67B315, 67B316 AND 67B317 MODELS 0.5B – 100.0B CHART NUMBER 67A219						
MODEL NUMBER	M		MAX. N SEE NOTE 1		MAX. P SEE NOTE 2	
	English	Metric (m)	English	Metric (m)	English	Metric (m)
0.5B	3'-6"	1.07	0'-2 1/2"	0.06	0'-5 1/4"	0.13
1.0B	3'-6"	1.07	0'-1 1/2"	0.04	0'-5 1/4"	0.13
2.5B	3'-6"	1.07	0'-2 3/4"	0.07	0'-7 1/4"	0.18
4.0B	3'-6"	1.07	0'-2 1/2"	0.06	0'-8"	0.20
7.0B	3'-6"	1.07	0'-5"	0.13	0'-10"	0.25
12.0B	5'-6"	1.68	0'-4 1/2"	0.11	0'-6 3/4"	0.17
20.0B	5'-6"	1.68	0'-11 3/4"	0.29	1'-2 3/4"	0.37
30.0B	5'-6"	1.68	1'-6"	0.45	1'-6"	0.45
50.0B	5'-6"	1.68	2'-6 1/2"	0.77	1'-11 1/2"	0.59
70.0B	6'-6"	1.83	3'-0"	0.91	2'-2"	0.66
100.0B	8'-6"	2.60	3'-5"	1.04	2'-3 1/4"	0.69

NOTES:

1. Dimension N is the maximum head loss created by the standard sized flow control baffles at the peak rated flow for the unit. This head loss is required to maintain the inlet channel velocity for proper operation. **The flow control baffle eliminates the need for a submerged weir. The maximum head loss shown is a transfer of head loss from outside the chamber, into the circular portion of the unit.**
2. Dimension P is the maximum effluent channel water depth at the peak rated flow of the unit. To meet this requirement, there must be a free-flowing flume in the effluent channel and no downstream items that back the flow up in the effluent channel. If this maximum water depth can not be maintained, consult the Factory for alternate arrangements that have less head loss and allow the unit to work properly.