

GREASE INTERCEPTOR CALCULATIONS

Quote: 5C5318F8

Reference No. 67058

Project Name: HCS Flatwoods MS

Step 1: Flow rate to grease interceptor

Fixture flow rate: $(cu\ in / 231) = gal \times 0.75 / 2\ min = 2\ min\ flow\ rate$

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
3 Compartment Sink	3 Compartment Sink	24" x 24" x 14" (3)	1	24,192	39.27 GPM
Dishwasher	Dishwasher (Conveyor)	38 gal.	1	8,778	19 GPM
Floor Sink	Floor Sink	N/A	1	N/A	0 GPM
Floor Sink	Floor Sink	N/A	1	N/A	0 GPM
Pre-Rinse Sink One Bowl	Pre-Rinse Sink One Bowl	20" x 20" x 5"	1	2,000	3.25 GPM
Prep Sink One Bowl	Prep Sink One Bowl	20" x 20" x 12"	1	4,800	7.79 GPM
Prep Sink Two Bowls	Prep Sink Two Bowls	20" x 20" x 12" (2)	1	9,600	15.58 GPM
Total					84.9 GPM

Flow rate used to size interceptor (less of fixture or pipe size)

Pipe size (4 in):

Pipe Size flow rate per Manning's Formula

75 GPM

Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Servings per day: 300

Grease production value: 0.035 lbs per serving (Cafeteria - Full Serve: High / No flatware)

Days between pump-outs: 90 days

300 x 0.035 x 90 = 945 lbs of FOG

SCHIER MODEL	Description: GREASE INTERCEPTOR 100 GPM / 200 GPM, 4" PLAIN/FPT CONNECTIONS
GB-250	Dimensions: Length: 87", Width: 33", Height: 44" Flow Rate/Grease Capacity: 100 GPM / 1895 lbs Liquid Capacity: 277 gal

Specification Note: This Great Basin model has been sized to the flow rate and grease production requirements of the application and may not be substituted by liquid capacity alone. Any substitution requests must be approved by the specifying engineer and the authority having jurisdiction.

Please contact support@schierproducts.com for technical and procurement support for the specified Great Basin model.