

GREASE INTERCEPTOR CALCULATIONS

Quote: 386X3FA7

Reference No. 79822

Project Name: Coffee Shop - Port St. Lucie, FL (81616)

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 Comp (13264)	3 Compartment Sink	16" x 19" x 14" (3)	1	12,768	20.73 GPM
Advansys (15186)	Dishwasher (Undercounter)	5 gal.	1	1,155	2.5 GPM
Countertop Rinser (22326)	Bar Sink One Bowl	26" x 9" x 12"	2	5,616	9.12 GPM
Floor Drain	Floor Drain	N/A	3	N/A	0 GPM
Floor Sink	Floor Sink	N/A	1	N/A	0 GPM
Hand Sink (14688)	Hand Sink	10" x 14" x 5"	1	700	1.14 GPM
Hand Sink (17809)	Hand Sink	10" x 6" x 5"	1	300	0.49 GPM
Ice Machine (10294)	Floor Sink	N/A	1	N/A	0 GPM
Mop Sink (10995)	Mop Basin	24" x 24" x 10"	1	5,760	9.35 GPM
Rinse Drop-In (10549)	Bar Sink One Bowl	12" x 20" x 14"	1	3,360	5.45 GPM
Rinse Drop-In (22630)	Pre-Rinse Sink One Bowl	27" x 26" x 14"	1	9,828	15.95 GPM
Water Filling Station (18743)	Floor Sink	N/A	1	N/A	0 GPM

Total **64.73 GPM**

Step 2: Grease Production

$Servings\ per\ day \times Grease\ production\ value \times Days\ between\ pump-outs = Grease\ output$

Servings per day: 1000

Grease production value: 0.005 lbs per serving (Coffee Shop: Low / No flatware)

Days between pump-outs: 90 days

1000 x 0.005 x 90 = 450 lbs of FOG

SCHIER MODEL	Description: GREASE INTERCEPTOR 75 GPM, 4" PLAIN/FPT CONNECTIONS, H-20 RATED PICKABLE CAST IRON COVER
GB-75	Dimensions: Length: 47", Width: 33", Height: 39.75" Flow Rate/Grease Capacity: 75 GPM / 861 lbs Liquid Capacity: 125 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.