



TECHNICAL BULLETIN: IGC 325 TEST RESULTS FROM IAPMO

The following information is pulled directly from IAPMO's report from witness testing performed at Striem in Kansas City, MO from July 31, 2023 through August 4, 2023. Visit striemco.com to view detailed reports for each High Efficiency Oil/Water Separator model.

Sample Description: Oil / Water Separator

Model	Max Flow Rate (gpm)	Liquid Capacity (gal)	Oil Capacity (gal)	Solid Capacity (gal)	Size (in)
OS-25	25	21	5.25	6	27 x 21 x 15
OS-50	50	57	14.25	7	37 x 28 x 28.5
OS-75	50	110	27.5	11	46 x 32 x 38.5
OS-100	75	250	62.5	95	68 x 33 x 51.5

Scope of Testing: The purpose of testing was to determine whether the sample tested of the oil/water separator met the applicable requirements of IAPMO IGC 325-2023 entitled, "Industry Standard for High Efficiency Oil / Water Separators"

Conclusion: The sample tested of the oil / water separator, models listed above, from Striem, COMPLIED with the applicable requirements of IAPMO IGC 325- 2023.

5.3 Liquid Holding Capacity – COMPLIED

The liquid holding capacity is the volume of liquid that the High Efficiency Oil/Water Separator holds prior to flowing out the outlet. This can be determined experimentally by filling the High Efficiency Oil/Water Separator through a totalizer to the invert of the outlet, or by supporting engineering calculations.

Findings:

Model	OS-25	OS-50	OS-75	OS-100
Liquid Holding Capacity (gal)	21	57	110	250

5.4 Oil Holding Capacity – COMPLIED

The oil holding capacity is specified by the manufacturer. It is the maximum amount of oil the High Efficiency Oil/Water Separator can hold while continuing to operate within the performance requirements outlined in section 6.4. The minimum oil capacity is equal to 25% of the High Efficiency Oil/Water Separator's liquid holding capacity. For example, if the High Efficiency Oil/Water Separator's liquid holding capacity is calculated at 100 gal. (378.5L), the minimum oil capacity shall be 25 gal. (94.6L).

Findings:

Model	OS-25	OS-50	OS-75	OS-100
Oil Holding Capacity (gal)	5.25	14.25	27.5	62.5
Percentage of Liquid Capacity (%)	25	25	25	25

(Continued)



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5.6 Pre-filled Oil Capacity – FOLLOWED

The High Efficiency Oil/Water separator will be pre-filled with oil prior to running the test batches. The amount of oil is determined by the below system of equations, or simplified single equation, such that the twentieth test batch will test to the manufacturer's specified oil holding capacity.

Findings:

Model	OS-25	OS-50	OS-75	OS-100
Flow Rate (gpm)	25	50	50	75
Total Oil Introduced (gal)	2.5	5	5	7.5
Pre-filled Oil Capacity (gal)	2.75	9.25	22.5	55

6.4 Performance Requirements – COMPLIED

The maximum allowable content of residual oils in the effluent wastewater for compliance with this standard is 100 ppm (mg/L). If the average of any two successive batches is greater than the maximum allowable content of residual oils in the effluent wastewater, it constitutes a failure.

Findings:

Model	ALS Environmental report	Comment
OS-25	HS23080328	No result exceeded 100 mg/L
OS-50	HS230820322	No result exceeded 100 mg/L
OS-75	HS23080306	No result exceeded 100 mg/L
OS-100	HS23080175	No result exceeded 100 mg/L





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The passing criteria is for the separator to collect hydrocarbons from wastewater with a minimum **90% capture rate**.

Sample Description: Oil / Water Separator

Model	Max Flow Rate (gpm)	Liquid Capacity (gal)	Oil Capacity (gal)	Solid Capacity (gal)	Size (in)
OS-25	25	21	5.25	6	27 x 21 x 15
OS-50	50	57	14.25	7	37 x 28 x 28.5
OS-75	75	110	27.5	11	46 x 32 x 38.5
OS-100	100	250	62.5	95	68 x 33 x 51.5
OS-350	100	350	87.5	114	95 x 33 x 51

Effluent Quality Results (mg/L)

Batch No.	OS-25	OS-50	OS-75	OS-100	OS-350
1	6.2	20.0	0.0	0.0	0.0
2	6.5	35.9	0.0	0.0	0.0
3	7.1	22.3	0.0	3.4	0.0
4	5.9	11.7	2.2	4.3	3.0
5	7.3	22.8	2.2	5.7	0.0
6	7.4	27.3	2.2	5.5	3.4
7	7.3	25.2	0.0	3.8	4.0
8	7.3	27.9	2.7	0.0	0.0
9	5.9	16.2	2.7	5.7	0.0
10	6.4	32.3	3.6	6.0	0.0
11	9.8	22.9	2.2	4.7	0.0
12	6.4	19.5	3.1	4.4	0.0
13	14.2	17.3	2.7	3.6	3.8
14	12.7	38.6	0.0	3.5	4.7
15	20.0	36.8	4.0	2.0	6.0
16	8.0	22.3	5.3	3.7	5.1
17	9.1	37.7	3.1	3.1	5.5
18	13.6	21.4	3.6	0.0	5.2
19	15.1	19.5	2.2	3.4	3.0
20	13.9	16.4	0.0	0.0	2.6
Average	9.5	24.7	2.0	3.2	2.3
Average Efficiency	99%	98%	99%	99%	99%

