

Oil Condensate Separator:

SIZE 12-2500

4001 1680 10

Ed. 01

AML: Principal data

		SIZE12	SIZE25	SIZE50	SIZE85	SIZE170	SIZE300	SIZE625	SIZE1250	SIZE2500
Reference conditions										
1. Relative air humidity	%	60	60	60	60	60	60	60	60	60
2. Air inlet temperature	°C	25	25	25	25	25	25	25	25	25
3. Effective working pressure	bar	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0	7,0
4. Running hours per day	hrs	12	12	12	12	12	12	12	12	12
5. Oil type		Mineral oils - PAO oils - Di-ester oils - Tri-ester oils - Semi-synthetic oils								
6. Compressor types		All types of oil-lubricated screw compressors								

Limitations for operations

1. Maximum peak period condensate flow rate (1)	l/h	0,6	1,2	2,4	4,0	8,0	14,2	29,5	59,0	118,0
2. Minimum allowable inlet temperature	°C	0	0	0	0	0	0	0	0	0
3. Minimum ambient temperature	°C	1	1	1	2	1	1	1	1	1
4. Maximum allowable condensate inlet temperature	°C	60	60	60	60	60	60	60	60	60

Performance data (2)

1. Max. Compressor FAD at reference conditions										
- without refrigeration dryer & filters	l/s	15	31	63	106	213	375	781	1563	3125
- with refrigeration dryer & filters	l/s	12	25	50	85	170	300	625	1250	2500
2. Min. Compressor FAD at reference conditions										
- without refrigeration dryer & filters	l/s	9	17	34	57	114	201	420	839	1678
- with refrigeration dryer & filters	l/s	6	12	24	41	83	146	304	608	1216
3. Avg inlet oil content at reference conditions										
- without refrigeration dryer & filters	mg/l	360	360	360	360	360	360	360	360	360
- with refrigeration dryer & filters	mg/l	300	300	300	300	300	300	300	300	300
4. Max. Oil content at the outlet	mg/l	10	10	10	10	10	10	10	10	10
5. Approx.weight of saturated filter (indicative value)										
- polypropylene filter bag	kg/filter	0,07	0,14	0,30	0,46	1,01	1,79	3,72	7,44	14,88
- Carbon filter	kg/filter	0,45	0,75	1,44	2,33	4,67	8,24	15,60	29,64	59,28
- Clay filter	kg/filter	0,73	1,17	2,15	3,50	7,00	12,36	23,40	44,46	88,92
6. Approx.oil adsorption capacity of the unit	kg	0,69	1,44	2,88	4,90	9,79	17,28	36,00	72,00	144,00

Design data (1)

1. Dimension of connections										
- Condensate inlet		6mm (1/4")	6mm (1/4")	2 x 1/2"	2 x 1/2"	2 x 3/4"	2 x 3/4"	2 x 3/4"	2 x 3/4"	2 x 3/4"
- Water outlet		10mm (3/8")	10mm (3/8")	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
- Test outlet (ball valve)		10mm (3/8")	10mm (3/8")	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
2. Net mass										
- Carbon	kg	1,2	1,5	5,8	7,7	13,1	25,3	45,1	86,0	171,9
- Clay	kg	1,4	2,0	6,5	8,8	15,4	29,4	52,9	100,8	201,6
3. Working mass										
- Carbon	kg	3,0	3,4	13,7	19,0	35,9	62,7	112,8	206,5	413,0
- Clay	kg	3,3	3,8	14,4	20,2	38,2	66,8	120,6	221,3	442,7
4. Filling volume	l	1,9	1,9	7,9	11,4	22,8	37,4	67,7	120,5	241,1
5. Dimensions										
- Length	mm	250	250	390	397	490	583	692	975	975
- Width	mm	147	147	278	286	396	446	568	782	1600
- Height	mm	216	216	428	507	576	721	970	1000	1000
6. Shipping dimensions										
- Length	m	0,3	0,3	0,4	0,4	0,5	0,6	0,7	1,0	1,0
- Width	m	0,1	0,1	0,3	0,3	0,4	0,4	0,6	0,8	1,6
- Height	m	0,2	0,2	0,4	0,5	0,6	0,7	1,0	1,0	1,0
7. Shipping volume (approx.)	m³	0,01	0,01	0,05	0,06	0,11	0,19	0,38	0,76	1,56
8. Shipping mass (approx.)										
- Carbon	kg	2,2	2,5	6,8	9,7	15,1	28,3	48,1	89,0	174,9
- Clay	kg	2,4	3,0	7,5	10,8	17,4	32,4	55,9	103,8	204,6

Correction factors

1. Running hours per day	hrs	12	14	16	18	20	22	24		
Correction factor		1,00	0,86	0,75	0,67	0,6	0,55	0,5		
2. Ambient temperature	°C	15	20	25	30	35	40			
Correction factor		1,33	1,17	1,00	0,76	0,50	0,30			
3. Relative humidity	%	50%	60%	70%	80%	90%				
Correction factor		1,10	1,00	0,85	0,74	0,66				

Example: Working condition: Ambient temperature 30°C Correction factor: 0,76
Relative humidity 70% Correction factor: 0,85

SIZE 625 at reference contitions (with ID dryer): 625 l/s
SIZE 625 at working condition: 625 x 0.76 x 0.85 = 404 l/s Maximum Compressor FAD

- (1) Maximum condensate flow prevails in tropical conditions. This condition should not be met permanently. (e.g. Maximum 12 hrs/ day)
(2) At reference conditions. For other conditions, multiply the capacity by the corresponding correction factor