



Replaces Reg. code

Registration code

Collection: APC FIL/ANC
 Tab: 15
 Sequence: 450

Oil Condensate Separator:

SIZE 12-2500

Apr-21
 4001 1680 10
 Ed. 00

AML:

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	°F	77	77	77	77	77	77	77	77	77
3. Effective working pressure	psi	100	100	100	100	100	100	100	100	100
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)	Gal/hr	0.16	0.31	0.62	1.06	2.12	3.74	7.79	15.59	31.17
2. Minimum allowable inlet temperature	°F	32	32	32	32	32	32	32	32	32
3. Minimum ambient temperature	°F	34	34	34	34	34	34	34	34	34
4. Maximum allowable condensate inlet temperature	°F	140	140	140	140	140	140	140	140	140

Performance data (2)

1. Max. Compressor FAD at reference conditions										
- without refrigeration dryer & filters	CFM	32	66	132	225	450	794	1655	3309	6619
- with refrigeration dryer & filters	CFM	25	53	106	180	360	635	1323	2647	5294
4. Max. Oil content at the outlet	ppm	10	10	10	10	10	10	10	10	10

Design data (1)

1. Dimension of connections										
- Condensate inlet		1/4"	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		3/8"	3/8"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
- Test outlet (ball valve)		3/8"	3/8"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
2. Net mass										
- Clay	lb	3.2	4.3	14.3	19.5	34.0	64.8	116.6	222.2	444.4
3. Working Mass										
- Clay	lb	7.3	8.5	31.7	44.5	84.2	147.3	265.9	488.0	975.9
4. Filling volume	Gal	0.50	0.50	2.09	3.00	6.02	9.88	17.90	31.85	63.69
5. Dimensions										
- Length	in	9.8	9.8	15.4	15.6	19.3	23.0	27.2	38.4	38.4
- Width	in	5.8	5.8	10.9	11.3	15.6	17.6	22.4	30.8	63.0
- Height	in	8.5	8.5	16.9	20.0	22.7	28.4	38.2	39.4	39.4

Correction factors

1. Running hours per day										
	hrs	12	14	16	18	20	22	24		
	Correction factor	1	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	0.5	0.3			
3. Relative humidity										
	%	0.5	0.6	0.7	0.8	0.9				
	Correction factor	1.1	1	0.85	0.74	0.66				

Example: Working condition: Ambient temperature 86°F Correction factor: 0.76
 Relative humidity 0.7 Correction factor: 0.85

SIZE 625 at reference conditions (with ID dryer): 1324 cfm
 SIZE 625 at working condition: 1324 x 0.76 x 0.85 = 856 cfm 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