

Type HCO/HCG Single Phase AC Filter Capacitor

ASC™ HC (High Current) single phase capacitors are manufactured with very high quality metallized polypropylene film, designed for long life, low dielectric losses, higher RMS current ratings, and low ESR.

The capacitors are filled with ASC™ soft gel or biodegradable vegetable based oil designed to offer excellent thermal conductivity to help reduce internal heating and extend the life of the capacitor.

The capacitor is incorporated with internal UL recognized fusing mechanisms that interrupt when pressure reaches a tested level.



General Specifications

*Capacitance and KVAR ratings are dependent upon voltage levels, frequency and total current

** UL recognized product is limited to 620Vrms

Parameter	Value
Capacitance	17.5μF – 760μF*
Tolerance	±3%, ±5%, ±10%, +10-5% – Special Tolerance on Request
KVAR Ratings	Available on Request*
Rated Voltage	250 – 690 Vrms*
Temperature Range (operational)	-40/70C (custom ratings available)
Temperature Range (Storage)	-40/85C
RMS Current	Up to 80 Arms
Standards	IEC61071, IEC60831, UL810**
Can/ Cover	Aluminum
Terminals	Male (M6 or M8), Female (M5-M8) tin plated brass
Suggested Mounting Position	Oil – Upright, Gel – Any Position
AFC Rating (UL810)	10,000 A
Tan δ	2 x 10 ⁻⁴ Polypropylene
Terminal to Terminal Test	2.15 x Urms 10 seconds
Terminal to Case Test	U _{T-CASE} = 2 U _i +1000V or 2000V whichever is highest value
Reliability	100 FIT

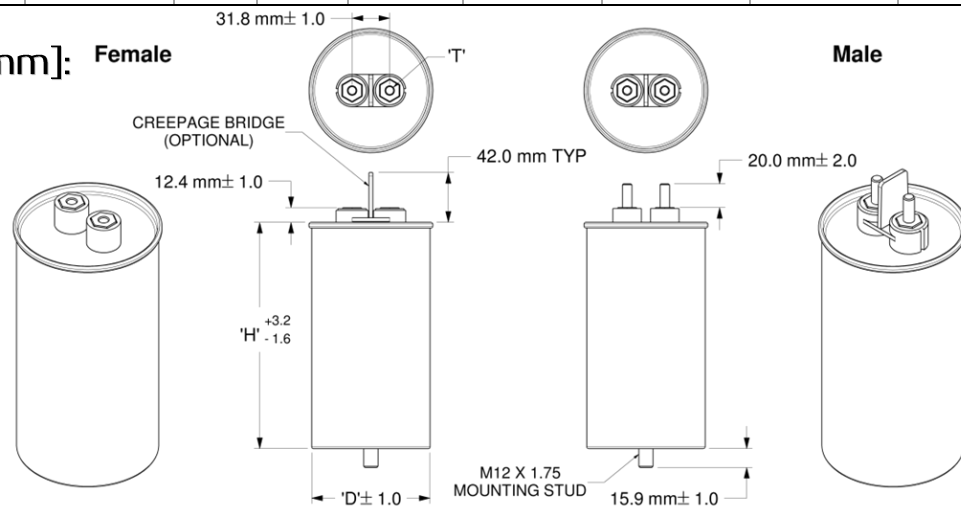
Applications

AC input and output filtering

HCO (High Current Oil Filled) Specifications

Cap (μF)	I_{RMS} [A _{RMS}]	I_{MAX} (10° ΔT) [A _{RMS}]	I_{PEAK} [KA]	I_{SURGE} [KA]	$R_{\text{th C-E}}$ [°C/W]	ESR (60Hz) [m Ω]	Diameter "D" [mm]	Height "H" [mm]	Pieces / Box	
250 Vrms			354 Vac Peak		538 Vsurge					
150	15.0	25.0	0.3	3.2	3.9	4.0	75	108	10	
325	31.0	60.0	0.6	5.0	3.6	2.9	85	152	9	
600	56.0	80.0	1.1	5.0	2.5	2.1	100	178	9	
760	72.0	80.0	1.4	5.0	2.2	2.1	116	203	5	
400 Vrms			566 Vac Peak		860 Vsurge					
65	10.0	18.0	0.2	2.0	3.9	7.6	75	108	10	
135	21.0	42.0	0.4	4.0	3.8	6.0	85	152	9	
260	40.0	65.0	0.8	5.0	2.6	3.8	100	178	9	
450	70.0	80.0	1.4	5.0	1.8	2.7	116	203	5	
480 Vrms			679 Vac Peak		1023 Vsurge					
50	9.0	16.0	0.2	1.8	3.9	9.3	75	108	10	
105	19.0	37.0	0.4	3.8	3.7	7.4	85	152	9	
200	37.0	58.0	0.8	5.0	2.5	4.7	100	178	9	
340	62.0	80.0	1.2	5.0	1.8	3.3	116	203	5	
525 Vrms			742 Vac Peak		1129 Vsurge					
38	7.6	14.0	0.2	1.6	4.0	12.0	75	108	10	
80	16.0	33.0	0.3	2.2	3.7	9.3	85	152	9	
155	31.0	52.0	0.6	3.3	2.6	5.7	100	178	9	
265	52.0	70.0	1.0	4.5	1.9	4.0	116	203	5	
340	68.0	80.0	1.4	4.5	1.6	4.1	136	245	4	
600 Vrms			849 Vac Peak		1290 Vsurge					
25	6.0	15.0	0.1	1.1	6.0	6.6	75	112	10	
60	14.0	26.0	0.3	3.1	3.9	3.8	85	152	9	
120	28.0	40.0	0.6	5.0	2.6	2.4	100	178	9	
210	48.0	56.0	1.0	5.0	1.8	1.8	116	203	5	
300	68.0	70.0	1.4	5.0	1.5	1.8	136	245	4	
690 Vrms			976 Vac Peak		1484 Vsurge			(Max UL Rating is 620 Vrms)		
17.5	4.6	14.0	0.1	1.2	5.9	9.1	75	112	10	
40	11.0	21.0	0.2	1.4	4.0	5.3	85	152	9	
85	22.0	35.0	0.5	2.5	2.5	3.1	100	178	9	
145	38.0	50.0	0.8	5.0	1.8	2.2	116	203	5	
260	68.0	70.0	1.4	5.0	1.3	1.8	136	245	4	

Dimensions [mm]:



HCG (High Current Gel Filled) Specifications

Cap (μ F)	I_{RMS} [A _{RMS}]	I_{MAX} (10 $^{\circ}$ Δ T) [A _{RMS}]	I_{PEAK} [KA]	I_{SURGE} [KA]	R_{th} C-E [$^{\circ}$ C/W]	ESR (60Hz) [m Ω]	Diameter "D" [mm]	Height "H" [mm]	Pieces / Box
250 Vrms			354 Vac Peak		538 Vsurge				
150	15.0	25.0	0.3	3.2	3.9	4.0	75	108	10
325	31.0	60.0	0.6	5.0	3.6	2.9	85	152	9
600	56.0	80.0	1.1	5.0	2.5	2.1	100	178	9
760	72.0	80.0	1.4	5.0	2.2	2.1	116	203	5
400 Vrms			566 Vac Peak		860 Vsurge				
65	10.0	18.0	0.2	2.0	3.9	7.6	75	108	10
135	21.0	42.0	0.4	4.0	3.8	6.0	85	152	9
260	40.0	65.0	0.8	5.0	2.6	3.8	100	178	9
450	70.0	80.0	1.4	5.0	1.8	2.7	116	203	5
480 Vrms			679 Vac Peak		1023 Vsurge				
41	8.0	19.0	0.2	1.4	4.0	6.8	75	108	10
85	16.0	40.0	0.3	3.2	3.8	6.5	85	152	9
165	30.0	65.0	0.6	5.0	2.6	3.5	100	178	9
290	53.0	80.0	1.1	5.0	1.9	2.0	116	203	5
375	68.0	80.0	1.4	5.0	1.7	1.6	136	245	4
525 Vrms			742 Vac Peak		1129 Vsurge				
32	7.0	15.0	0.1	1.3	4.1	10.6	75	108	10
65	13.0	32.0	0.3	2.6	3.9	9.5	85	152	9
130	26.0	55.0	0.5	5.0	2.6	5.2	100	178	9
235	47.0	80.0	0.9	5.0	1.8	2.4	116	203	5
340	68.0	80.0	1.4	5.0	1.5	1.7	136	245	4
600 Vrms			849 Vac Peak		1290 Vsurge				
25	6.0	15.0	0.1	1.1	6.0	6.6	75	112	10
60	14.0	26.0	0.3	3.1	3.9	3.8	85	152	9
120	28.0	40.0	0.6	5.0	2.6	2.4	100	178	9
210	48.0	56.0	1.0	5.0	1.8	1.8	116	203	5
300	68.0	70.0	1.4	5.0	1.5	1.8	136	245	4
690 Vrms			976 Vac Peak		1484 Vsurge		(Max UL Rating is 620 Vrms)		
17.5	4.6	14.0	0.1	1.2	5.9	9.1	75	112	10
40	11.0	21.0	0.2	1.4	4.0	5.3	85	152	9
85	22.0	35.0	0.5	2.5	2.5	3.1	100	178	9
145	38.0	50.0	0.8	5.0	1.8	2.2	116	203	5
260	68.0	80.0	1.4	5.0	1.3	1.8	136	245	4

Ordering Information:

Type	Fill Material	Capacitance	Tolerance	Voltage	Terminals "T"
HC	O = Oil	20	3 = \pm 3%	250	F5 = Female M5
	G = Gel	\updownarrow	5 = \pm 5%	\updownarrow	F6 = Female M6
		620	5-10 = +5/-10%	690	F8 = Female M8
			10-5 = +10/-5%		M6 = Male M6
			10 = \pm 10%		M8 = Male M8

Examples:	Order Code
Type HC, Oil Filled, 50uF \pm 5%, 480 Vrms, Male M8 Terminals	HCO 50-5-480 M8
Type HC, Gel Filled, 120uF +10/-5%, 600 Vrms, Female M6 Terminals	HCG 120-10-5-600 F6