

**RECTORSEAL**

**Proven Reliability & Performance**  
**The ORIGINAL 2-Wire Hard Start Device**

# Kickstart®



**KS-1 for 3.5 - 5.0 ton max. torque**

**TO-5 for 1.0 - 3.0 ton max. torque**

- The Original Patented Design
- Proven Performance and Reliability
- Mechanical Potential Relay & Start Capacitor
- Only 2 Models Needed
- 3-year Warranty
- KS-1 (Product #96506)
- TO-5 (Product #96503)

**DON'T BE FOOLED BY SUBSTITUTES**

**The Only OEM Tested & Approved Device**

Trusted & Approved by:



View approval letters on our website

**RECTORSEAL**

2601 Spenwick Drive - Houston, TX 77055  
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fax: 713.263.7577 / 800.441.0051  
[www.RectorSeal.com](http://www.RectorSeal.com)





# True Run Capacitor Test

- Start compressor with run capacitor connected.
- Measure and record the applied voltage.
- Measure and record the amp draw of the capacitor.

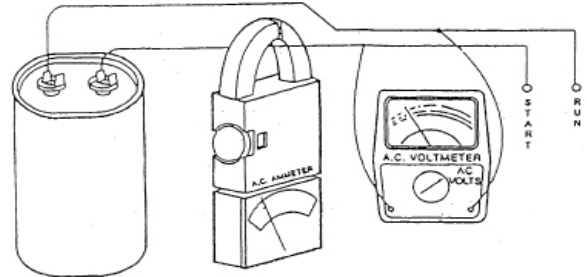
Example:

Capacitor draws 7 amps at 370 volts

$$\text{MFD} = \frac{7 \times 2654}{370} = 50.2$$

$$\text{MFD} = \frac{\text{AMP DRAW} \times 2654}{\text{APPLIED VOLTAGE}}$$

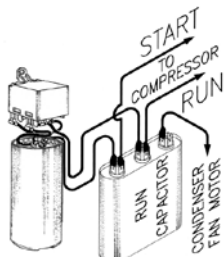
- Calculated value should be within 10% of value stamped on capacitor.



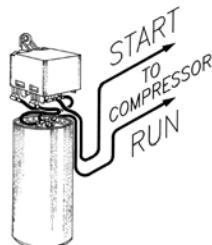
## Capacitor Amps

Capacitor Volts	Capacitor Amps											
	2	3	4	5	6	7	8	9	10	11	12	13
315	17	25	34	42	51	59	67	76	84	93	101	109
320	17	25	33	41	50	58	66	75	83	91	99	108
325	16	24	33	41	49	57	65	73	82	90	98	106
330	16	24	32	40	48	56	64	72	80	88	96	104
335	16	24	32	40	48	55	63	71	79	87	95	103
340	16	23	31	39	47	55	62	70	78	86	94	101
345	15	23	31	38	46	54	62	69	77	85	92	100
350	15	23	30	38	45	53	61	68	76	83	91	99
355	15	22	30	37	45	52	60	67	75	82	90	97
360	15	22	29	37	44	52	59	66	74	81	88	96
365	15	22	29	36	44	51	58	65	73	80	87	94
370	14	22	29	36	43	50	57	65	72	79	86	93
375	14	21	28	35	42	50	57	64	71	78	85	92
380	14	21	28	35	42	49	56	63	70	77	84	91
385	14	21	28	34	41	48	55	62	69	76	83	90
390	14	20	27	34	41	48	54	61	68	75	82	88
395	13	20	27	34	40	47	54	60	67	74	81	87
400	13	20	27	33	40	46	53	60	66	73	80	86
405	13	20	26	33	39	46	52	59	65	72	79	85
410	13	19	26	32	39	45	52	58	65	71	78	84
415	13	19	26	32	38	45	51	58	64	70	77	83
420	13	19	25	32	38	44	51	57	63	69	76	82
425	12	19	25	31	37	44	50	56	62	69	75	81
430	12	19	25	31	37	43	49	56	62	68	74	80
435	12	18	24	30	37	43	49	55	61	67	73	79
440	12	18	24	30	36	42	48	54	60	66	72	78
445	12	18	24	30	36	42	48	54	60	66	72	77

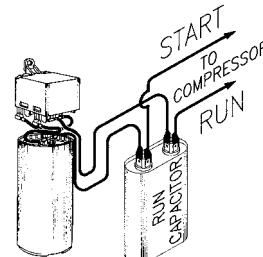
## Installation Instructions



DUAL CAPACITOR



CSIR COMPRESSOR



STANDARD CONNECTION



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