



# KAISHAN COMPRESSOR USA, LLC

## TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSP40-100V	KRSP40-115V	KRSP40-125V	KRSP40-150V
<b>GENERAL DATA</b>				
ACFM	208	200	195.1	175
Full load pressure (psig)	100	115	125	150
Motor HP	40	40	40	40
<b>AIR END DATA</b>				
Air end model	Patented SKY 5/6 profile			
Number of thrust bearings (male/female)	4/3	4/3	4/3	4/3
Drive type	Direct	Direct	Direct	Direct
Bearing manufacturer	SKF only	SKF only	SKF only	SKF only
<b>COOLING DATA (AIR)</b>				
Ambient temperature rating (min/max)	32/104	32/104	32/104	32/104
Max. static back pressure	6mmH2O	6mmH2O	6mmH2O	6mmH2O
Cooling fan capacity	4120	4120	4120	4120
Approach temperature	16.2	16.2	16.2	16.2
Heat rejected (BTU/HR)	98262	98262	98262	98262
<b>COMPRESSOR CFM</b>				
COMPRESSOR CFM AT 100%	208	200	195.1	175
COMPRESSOR CFM AT 70%	142	136	133.4	119
COMPRESSOR CFM AT 60%	121	118	113.0	95
COMPRESSOR CFM AT 50%	99	97	93.3	78
COMPRESSOR CFM AT 40%	78	76	72.9	61
COMPRESSOR CFM AT 25%	47	46	43.9	37
<b>COMPRESSOR PACKAGE KW</b>				
COMPRESSOR PACKAGE KW AT 100%	39.6	39.9	41.0	41.4
COMPRESSOR PACKAGE KW AT 70%	28.5	28.7	28.8	29.0
COMPRESSOR PACKAGE KW AT 60%	24.9	25.0	25.1	25.3
COMPRESSOR PACKAGE KW AT 50%	21.7	21.8	21.8	22.0
COMPRESSOR PACKAGE KW AT 40%	17.7	17.9	17.9	18.2
COMPRESSOR PACKAGE KW AT 25%	12.2	12.4	12.4	12.5
<b>COMPRESSOR SPECIFIC POWER</b>				
COMPRESSOR SPECIFIC POWER AT 100%	19.0	19.9	21.0	23.6
COMPRESSOR SPECIFIC POWER AT 70%	20.1	21.0	21.6	24.3
COMPRESSOR SPECIFIC POWER AT 60%	20.6	21.2	22.2	26.6
COMPRESSOR SPECIFIC POWER AT 50%	21.8	22.5	23.4	28.1
COMPRESSOR SPECIFIC POWER AT 40%	22.7	23.5	24.5	29.6
COMPRESSOR SPECIFIC POWER AT 25%	26.0	27.0	28.2	33.8



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### ELECTRICAL DATA

Electrical enclosure rating	NEMA1	NEMA1	NEMA1	NEMA1
Enclosure type (drive and fan)	TEFC	TEFC	TEFC	TEFC
Insulation class (drive and fan)	F	F	F	F
Drive motor efficiency	94.1%	94.1%	94.1%	94.1%
Service Factor	1.25	1.25	1.25	1.25
Fan motor HP #1	2.0	2.0	2.0	2.0

### FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	55	55	55	55
Full load package amps 575V/60HZ	47	47	47	47

### FILTRATION AND LUBRICATION DATA

Air filter micron rating	5µm	5µm	5µm	5µm
Fluid filter micron rating	23µm	23µm	23µm	23µm
Fluid carryover (PPM)	<3	<3	<3	<3

### COMPRESSOR COOLING FLUID DATA

Fluid capacity (A/C) (Gal)	6.6	6.6	6.6	6.6
Fluid normal life expectancy (HR)	8000	8000	8000	8000

### SOUND LEVEL

Sound Level (A/C)	71	71	71	71
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### PACKAGE INFORMATION

Discharge connections	NPT 2"	NPT 2"	NPT 2"	NPT 2"
Condensate connections	N/A	N/A	N/A	N/A
Length (in)	71	71	71	71
Width (in)	46	46	46	46
Height (in)	54	54	54	54
Weight (lbs) (A/C)	2403	2403	2403	2403
Estimated shipping weight (lbs)	2645	2645	2645	2645

### PRODUCT FEATURES

Motor brand	Marathon or Weg
Starter and controls brand	Siemens or Schnieder
Variable speed drive	Yaskowa or Schnieder
Enclosure/Cabinet type	Low sound
Inlet filter type	Heavy duty
Cooling fan type (A/C)	Centrifugal
Internal piping	Stainless steel

Effective 7-2-18