



# KAISHAN COMPRESSOR USA, LLC

## TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSP60-100V	KRSP60-115V	KRSP60-125V	KRSP60-150V
<b>GENERAL DATA</b>				
ACFM	300	288	282	252
Full load pressure (psig)	100	115	125	150
Motor HP	60	60	60	60
<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	5886	5886	5886	5886
Approach temperature	16.2	16.2	16.2	16.2
Heat rejected (BTU/HR)	148545	148545	148545	148545
<b>COMPRESSOR CFM</b>				
COMPRESSOR CFM AT 100%	300	288	282	252
COMPRESSOR CFM AT 70%	214	206	202	180
COMPRESSOR CFM AT 60%	183	176	172	154
COMPRESSOR CFM AT 50%	148	142	140	125
COMPRESSOR CFM AT 40%	117	113	111	99
COMPRESSOR CFM AT 25%	73	70	68	61
<b>COMPRESSOR PACKAGE KW</b>				
COMPRESSOR PACKAGE KW AT 100%	58.2	59.1	59.4	62.2
COMPRESSOR PACKAGE KW AT 70%	40.2	40.8	41.0	42.9
COMPRESSOR PACKAGE KW AT 60%	34.8	35.3	35.5	37.2
COMPRESSOR PACKAGE KW AT 50%	30.1	30.5	30.7	32.1
COMPRESSOR PACKAGE KW AT 40%	24.7	25.1	25.2	26.4
COMPRESSOR PACKAGE KW AT 25%	16.9	17.1	17.2	18.0
<b>COMPRESSOR SPECIFIC POWER</b>				
COMPRESSOR SPECIFIC POWER AT 100%	19.4	20.5	21.0	24.7
COMPRESSOR SPECIFIC POWER AT 70%	18.8	19.8	20.3	23.8
COMPRESSOR SPECIFIC POWER AT 60%	19.0	20.1	20.6	24.2
COMPRESSOR SPECIFIC POWER AT 50%	20.3	21.4	22.0	25.8
COMPRESSOR SPECIFIC POWER AT 40%	21.0	22.2	22.8	26.7
COMPRESSOR SPECIFIC POWER AT 25%	23.2	24.5	25.1	29.5



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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	94.5%	94.5%	94.5%	94.5%
Service Factor	1.25	1.25	1.25	1.25
Fan motor HP #1	3.0	3.0	3.0	3.0

### FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	80	80	80	80
Full load package amps 575V/60HZ	72	72	72	72

### 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)	7.5	7.5	7.5	7.5
Fluid normal life expectancy (HR)	8000	8000	8000	8000

### SOUND LEVEL

Sound Level (A/C)	72	72	72	72
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### PACKAGE INFORMATION

Discharge connections	NPS2	NPS2	NPS2	NPS2
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"	NPT 1/4"
Length (in)	89	89	89	89
Width (in)	56	56	56	56
Height (in)	68	68	68	68
Weight (lbs) (A/C)	3528	3528	3528	3528
Estimated shipping weight (lbs)	3793	3793	3793	3793

### 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