



# KAISHAN COMPRESSOR USA, LLC

## TECHNICAL DATA

KCA MODEL	KRSP100-115	KRSP100-125	KRSP100-150
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### GENERAL DATA

ACFM	501	494	424
Full load pressure (psig)	115	125	150
Maximum pressure (psig)	125	135	160
Package KW at rated pressure (A/C)	91.6	96.2	89.2
Specific power KW/100 cfm (A/C)	18.3	19.5	21.0
Package KW at rated pressure (W/C)	88.2	92.8	85.8
Specific power KW/100 cfm (W/C)	17.6	18.8	20.2
Unloaded power (KW)	17.2	17.2	17.2
Control type		Modulation	
Starter type		Wye Delta	

### AIR END DATA

Air end model		Patented SKY 5/6 profile	
Number of thrust bearings (male/female)	4-3	4-3	4-3
Drive type	Direct	Direct	Direct
Bearing manufacturer	SKF only	SKF only	SKF only

### COOLING DATA (AIR)

Ambient temperature rating (min/max)		32/122	
Cooling fan capacity	8976	8976	8976
Heat rejected (BTU/HR)	246387	248343	245231
Max. static back pressure		6mmH2O	
Approach temperature	15	15	15

### COOLING DATA (WATER)

Type of heat exchangers		Shell and tube	
Approach temperature	15	15	15
Heat rejected into cooling water (BTU/HR)	246387	248343	245231
Maximum inlet temperature	≤90	≤90	≤90
Minimum cooling water flow 70 (F)	24	29	24
Minimum cooling water flow 90 (F)	39	46	39
Water pressure drop (psi)	16	16	16

### SOUND LEVEL

Sound Level (A/C)	74	74	74
Sound Level (W/C)	74	74	74



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### ELECTRICAL DATA

Electrical enclosure rating		NEMA4	
Enclosure type (drive and fan)		TEFC	
Insulation class (drive and fan)		F	
Drive motor HP	100	100	100
Drive motor nominal speed(rpm)	1785	1785	1785
Service Factor	1.20	1.20	1.20
Drive motor efficiency	95.4%	95.4%	95.4%
Fan motor HP #1	5.5	5.5	5.5
Fan motor HP #2	0	0	0
Full load package amps 460V/60HZ	142	147	145
Full load package amps 575V/60HZ	112	118	117

### FILTRATION AND LUBRICATION DATA

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

### COMPRESSOR COOLING FLUID DATA

Fluid capacity (A/C) (Gal)	13.2	13.2	13.2
Fluid capacity (W/C) (Gal)	13.2	13.2	13.2
Fluid normal life expectancy (HR)	8000	8000	8000

### PACKAGE INFORMATION

Discharge connections	NPS2	NPS2	NPS2
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"
Cooling water connections	NPT 1 1/2"	NPT 1 1/2"	NPT 1 1/2"
Length (in)	98	98	98
Width (in)	60	60	60
Height (in)	72	72	72
Weight (lbs) (A/C)	5490	5490	5490
Weight (lbs) (W/C)	4961	4961	4961
Estimated shipping weight (lbs)	6195	6195	6195

### PRODUCT FEATURES

Motor brand	Marathon or Weg
Starter and controls brand	Siemens or Schnieder
Enclosure/Cabinet type	Low sound
Inlet filter type	Heavy Duty
Phase monitor	Standard
Cooling fan type (A/C)	Centrifugal
Internal piping	Stainless steel