



# KAISHAN COMPRESSOR USA, LLC

## TECHNICAL DATA

KCA MODEL	KRSP250-100	KRSP250-125	KRSP250-150
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### GENERAL DATA

ACFM	1238	1172	973
Full load pressure (psig)	100	125	150
Maximum pressure (psig)	110	135	160
Package KW at rated pressure (A/C)	201.0	215.5	197.8
Specific power KW/100 cfm (A/C)	16.2	18.4	20.3
Package KW at rated pressure (W/C)	194.3	208.8	191.1
Specific power KW/100 cfm (W/C)	15.7	17.8	19.6
Unloaded power (KW)	38.2	38.2	38.2
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	18690	18690	18690
Heat rejected (BTU/HR)	514380	552767	506703
Max. static back pressure		6mmH2O	
Approach temperature	15	15	15

### COOLING DATA (WATER)

Type of heat exchangers		Tube and shell	
Approach temperature	15	15	15
Heat rejected into cooling water (BTU/HR)	514380	552767	506703
Maximum inlet temperature	≤90	≤90	≤90
Minimum cooling water flow 70 (F)	44	57	44
Minimum cooling water flow 90 (F)	86	97	86
Water pressure drop (psi)	16	16	16

### SOUND LEVEL

Sound Level (A/C)	77	77	77
Sound Level (W/C)	77	77	77



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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	250	250	250
Drive motor nominal speed(rpm)	1780	1780	1780
Service Factor	1.20	1.20	1.20
Drive motor efficiency	96.2%	96.2%	96.2%
Fan motor HP #1	6.7	6.7	6.7
Fan motor HP #2	1.2	1.2	1.2
Full load package amps 460V/60HZ	322	338	310
Full load package amps 575V/60HZ	267	280	277

### 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)	27.5	27.5	27.5
Fluid capacity (W/C) (Gal)	27.5	27.5	27.5
Fluid normal life expectancy (HR)	8000	8000	8000

### PACKAGE INFORMATION

Discharge connections	NPS3	NPS3	NPS3
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"
Cooling water connections	NPT 2"	NPT 2"	NPT 2"
Length (in)	140	140	140
Width (in)	75	75	75
Height (in)	91	91	91
Weight (lbs) (A/C)	11949	11949	11949
Weight (lbs) (W/C)	10450	10450	10450
Estimated shipping weight (lbs)	12569	12569	12569

### 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 fan with VSD drive
Internal piping	Stainless steel