



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA

KCA MODEL	KRSP500-100	KRSP500-125	KRSP500-150
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GENERAL DATA

ACFM	2475	2175	1808
Full load pressure (psig)	100	125	150
Maximum pressure (psig)	110	135	160
Package KW at rated pressure (A/C)	424.7	403.2	366.5
Specific power KW/100 cfm (A/C)	17.2	18.5	20.3
Package KW at rated pressure (W/C)	409.8	388.3	351.6
Specific power KW/100 cfm (W/C)	16.6	17.9	19.4
Unloaded power (KW)	85.4	85.4	85.4
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	81840	81840	81840
Heat rejected (BTU/HR)	1086620	1033879	939192
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)	1086620	1033879	939192
Maximum inlet temperature	≤90	≤90	≤90
Minimum cooling water flow 70 (F)	82	89	82
Minimum cooling water flow 90 (F)	141	149	141
Water pressure drop (psi)	16	16	16

SOUND LEVEL

Sound Level (A/C)	80	80	80
Sound Level (W/C)	80	80	80



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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	500	500	500
Drive motor nominal speed(rpm)	1790	1790	1790
Service Factor	1.20	1.20	1.20
Drive motor efficiency	96.2%	96.2%	196.2%
Fan motor HP #1	20.0	20.0	20.0
Fan motor HP #2	0	0	0
Full load package amps 460V/60HZ	624	616	581
Full load package amps 575V/60HZ	558	558	547

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)	35.2	35.2	35.2
Fluid capacity (W/C) (Gal)	35.2	35.2	35.2
Fluid normal life expectancy (HR)	8000	8000	8000

PACKAGE INFORMATION

Discharge connections	DN 125	DN 125	DN 125
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"
Cooling water connections	NPT 2"	NPT 2"	NPT 2"
Length (in)	168	168	168
Width (in)	89	89	89
Height (in)	89	89	89
Weight (lbs) (A/C)	18522	18522	18522
Weight (lbs) (W/C)	17199	17199	17199
Estimated shipping weight (lbs)	17625	17625	17625

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 four 5HP fans
Internal piping	Stainless steel