



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA

KCA MODEL	KRSP400-100	KRSP400-125	KRSP400-150
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GENERAL DATA

ACFM	1929	1913	1586
Full load pressure (psig)	100	125	150
Maximum pressure (psig)	110	135	160
Package KW at rated pressure (A/C)	315.0	350.0	333.0
Specific power KW/100 cfm (A/C)	16.3	18.3	21.0
Package KW at rated pressure (W/C)	300.8	335.8	318.8
Specific power KW/100 cfm (W/C)	15.6	17.6	20.1
Unloaded power (KW)	70.9	70.9	70.9
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	85250	85250	85250
Heat rejected (BTU/HR)	916287	908994	876238
Max. static back pressure		6mmH ₂ O	
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)	916287	908994	876238
Maximum inlet temperature	≤90	≤90	≤90
Minimum cooling water flow 70 (F)	68	77	68
Minimum cooling water flow 90 (F)	124	132	124
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	400	400	400
Drive motor nominal speed(rpm)	1790	1790	1790
Service Factor	1.20	1.20	1.20
Drive motor efficiency	96.2%	96.2%	96.2%
Fan motor HP #1	20.0	20.0	20.0
Fan motor HP #2	0	0	0
Full load package amps 460V/60HZ	505	498	487
Full load package amps 575V/60HZ	438	438	440

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)	17640	17640	17640
Weight (lbs) (W/C)	16317	16317	16317
Estimated shipping weight (lbs)	18522	18522	18522

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