



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSP100-100V	KRSP100-115V	KRSP100-125V	KRSP100-150V
GENERAL DATA				
ACFM	500	478	470	422
Full load pressure (psig)	100	115	125	150
Motor HP	100	100	100	100
AIR END DATA				
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
COOLING DATA (AIR)				
Ambient temperature rating (min/max)	32/104	32/104	32/104	32/104
Max. static back pressure	6mmH2O	6mmH2O	6mmH2O	6mmH2O
Cooling fan capacity (cfm)	8976	8976	8976	8976
Approach temperature	16.2	16.2	16.2	16.2
Heat rejected (BTU/HR)	246387	246387	246387	246387
COMPRESSOR CFM				
COMPRESSOR CFM AT 100%	500	478	470	422
COMPRESSOR CFM AT 70%	350	335	329	295
COMPRESSOR CFM AT 60%	300	287	282	253
COMPRESSOR CFM AT 50%	250	239	235	211
COMPRESSOR CFM AT 40%	200	191	188	169
COMPRESSOR CFM AT 25%	113	111	106	89
COMPRESSOR PACKAGE KW				
COMPRESSOR PACKAGE KW AT 100%	98.4	97.9	99.6	93.6
COMPRESSOR PACKAGE KW AT 70%	66.7	67.3	69.6	69.3
COMPRESSOR PACKAGE KW AT 60%	56.6	57.7	59.3	60.6
COMPRESSOR PACKAGE KW AT 50%	47.6	49.5	50.5	51.9
COMPRESSOR PACKAGE KW AT 40%	39.6	40.8	41.8	42.7
COMPRESSOR PACKAGE KW AT 25%	27.1	27.4	27.8	28.4
COMPRESSOR SPECIFIC POWER				
COMPRESSOR SPECIFIC POWER AT 100%	19.7	20.5	21.2	22.2
COMPRESSOR SPECIFIC POWER AT 70%	19.1	20.1	21.2	23.5
COMPRESSOR SPECIFIC POWER AT 60%	18.9	20.1	21.0	23.9
COMPRESSOR SPECIFIC POWER AT 50%	19.0	20.7	21.5	24.6
COMPRESSOR SPECIFIC POWER AT 40%	19.8	21.3	22.2	25.3
COMPRESSOR SPECIFIC POWER AT 25%	24.0	24.7	26.2	31.8



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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	95.4%	95.4%	95.4%	95.4%
Service Factor	1.20	1.20	1.20	1.20
Fan motor HP #1	5.5	5.5	5.5	5.5

FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	134	134	134	134
Full load package amps 575V/60HZ	112	112	112	112

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)	13.2	13.2	13.2	13.2
Fluid normal life expectancy (HR)	8000	8000	8000	8000

SOUND LEVEL

Sound Level (A/C)	74	74	74	74
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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)	98	98	98	98
Width (in)	60	60	60	60
Height (in)	72	72	72	72
Weight (lbs) (A/C)	5292	5292	5292	5292
Estimated shipping weight (lbs)	5623	5623	5623	5623

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 8-30-20