



# KAISHAN COMPRESSOR USA, LLC

## TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSP125-100V	KRSP125-115V	KRSP125-125V	KRSP125-150V
<b>GENERAL DATA</b>				
ACFM	632	616	601	540
Full load pressure (psig)	100	115	125	150
Motor HP	125	125	125	125
<b>AIR END DATA</b>				
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
<b>COOLING DATA (AIR)</b>				
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)	293527	293527	293527	293527
<b>COMPRESSOR CFM</b>				
COMPRESSOR CFM AT 100%	632	616	601	540
COMPRESSOR CFM AT 70%	442	431	412	378
COMPRESSOR CFM AT 60%	379	370	351	308
COMPRESSOR CFM AT 50%	316	308	287	257
COMPRESSOR CFM AT 40%	253	246	224	206
COMPRESSOR CFM AT 25%	158	154	136	128
<b>COMPRESSOR PACKAGE KW</b>				
COMPRESSOR PACKAGE KW AT 100%	123.5	124.2	124.9	125.9
COMPRESSOR PACKAGE KW AT 70%	82.9	83.6	83.2	85.6
COMPRESSOR PACKAGE KW AT 60%	70.9	71.7	71.2	73.9
COMPRESSOR PACKAGE KW AT 50%	59.9	60.8	60.1	62.8
COMPRESSOR PACKAGE KW AT 40%	49.4	49.8	49.2	50.6
COMPRESSOR PACKAGE KW AT 25%	32.7	33.1	33.3	35.7
<b>COMPRESSOR SPECIFIC POWER</b>				
COMPRESSOR SPECIFIC POWER AT 100%	19.6	20.2	20.8	23.3
COMPRESSOR SPECIFIC POWER AT 70%	18.8	19.4	20.2	22.7
COMPRESSOR SPECIFIC POWER AT 60%	18.7	19.4	20.3	24.0
COMPRESSOR SPECIFIC POWER AT 50%	19.0	19.7	21.0	24.4
COMPRESSOR SPECIFIC POWER AT 40%	19.6	20.2	22.0	24.6
COMPRESSOR SPECIFIC POWER AT 25%	20.7	21.5	24.5	27.8



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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	166	166	166	166
Full load package amps 575V/60HZ	142	142	142	142

### 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)	75	75	75	75
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### PACKAGE INFORMATION

Discharge connections	NPT 2"	NPT 2"	NPT 2"	NPT 2"
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)	5733	5733	5733	5733
Estimated shipping weight (lbs)	6064	6064	6064	6064

### 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 7-2-18