



# KAISHAN COMPRESSOR USA, LLC

## TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

**KCA MODEL** KRSD125-115V KRSD125-125V KRSD125-150V

### GENERAL DATA

ACFM	593	563	479
Full load pressure (psig)	115	125	150
Motor HP	125	125	125

### AIR END DATA

Air end model	Patented SKY 5/6 profile		
Number of thrust bearings (male/female)	2/2	2/2	2/2
Drive type	Direct	Direct	Direct
Bearing manufacturer	SKF only	SKF only	SKF only

### COOLING DATA (AIR)

Ambient temperature rating (min/max)	32/104	32/104	32/104
Max. static back pressure	6mmH2O	6mmH2O	6mmH2O
Cooling fan capacity	9889	9889	9889
Approach temperature	15	15	15
Heat rejected (BTU/HR)	303526	303526	303526

### COMPRESSOR CFM

COMPRESSOR CFM AT 100%	593	563	479
COMPRESSOR CFM AT 80%	474	450	383
COMPRESSOR CFM AT 70%	415	394	335
COMPRESSOR CFM AT 50%	297	282	240
COMPRESSOR CFM AT 40%	237	225	192

### COMPRESSOR PACKAGE KW

COMPRESSOR PACKAGE KW AT 100%	114.7	112.3	112.5
COMPRESSOR PACKAGE KW AT 80%	93.1	92.5	92.9
COMPRESSOR PACKAGE KW AT 70%	82.1	81.9	82.4
COMPRESSOR PACKAGE KW AT 50%	61.5	63.1	63.4
COMPRESSOR PACKAGE KW AT 40%	52.9	53.6	53.9

### COMPRESSOR SPECIFIC POWER

COMPRESSOR SPECIFIC POWER AT 100%	19.3	19.9	23.5
COMPRESSOR SPECIFIC POWER AT 80%	19.6	20.6	24.2
COMPRESSOR SPECIFIC POWER AT 70%	19.8	20.8	24.6
COMPRESSOR SPECIFIC POWER AT 50%	20.7	22.4	26.5
COMPRESSOR SPECIFIC POWER AT 40%	22.3	23.8	28.1



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### ELECTRICAL DATA

Electrical enclosure rating	NEMA1	NEMA1	NEMA1
Enclosure type (drive and fan)	TEFC	TEFC	TEFC
Insulation class (drive and fan)	F	F	F
Drive motor efficiency	95.0%	95.0%	95.0%
Service Factor	1.20	1.20	1.20
Fan motor HP #1	5.0	5.0	5.0

### FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	161	161	161
Full load package amps 575V/60HZ	139	139	139

### 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)	14.5	14.5	14.5
Fluid normal life expectancy (HR)	8000	8000	8000

### SOUND LEVEL

Sound Level (A/C)	77	77	77
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### PACKAGE INFORMATION

Discharge connections	NPS3	NPS3	NPS3
Condensate connections	N/A	N/A	N/A
Length (in)	93	93	93
Width (in)	52	52	52
Height (in)	65	65	65
Weight (lbs) (A/C)	4498	4498	4498
Estimated shipping weight (lbs)	4612	4612	4612

### 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)	Axial
Internal piping	Stainless steel