



# KAISHAN COMPRESSOR USA, LLC

## TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSD50-115V	KRSD50-125V	KRSD50-150V
<b>GENERAL DATA</b>			
ACFM	237	228	204
Full load pressure (psig)	115	125	150
Motor HP	50	50	50
<b>AIR END DATA</b>			
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
<b>COOLING DATA (AIR)</b>			
Ambient temperature rating (min/max)	32/104	32/104	32/104
Max. static back pressure	6mmH2O	6mmH2O	6mmH2O
Cooling fan capacity	4473	4473	4473
Approach temperature	15	15.0	15.0
Heat rejected (BTU/HR)	128400	128400	128400
<b>COMPRESSOR CFM</b>			
COMPRESSOR CFM AT 100%	237	228	204
COMPRESSOR CFM AT 70%	166	160	143
COMPRESSOR CFM AT 60%	142	137	123
COMPRESSOR CFM AT 50%	119	114	103
COMPRESSOR CFM AT 40%	95	91	82
<b>COMPRESSOR PACKAGE KW</b>			
COMPRESSOR PACKAGE KW AT 100%	46.7	47.0	47.1
COMPRESSOR PACKAGE KW AT 70%	34.7	34.9	33.5
COMPRESSOR PACKAGE KW AT 60%	28.3	31.0	29.1
COMPRESSOR PACKAGE KW AT 50%	25.3	27.1	24.6
COMPRESSOR PACKAGE KW AT 40%	22.8	23.2	20.9
<b>COMPRESSOR SPECIFIC POWER</b>			
COMPRESSOR SPECIFIC POWER AT 100%	19.7	20.6	23.1
COMPRESSOR SPECIFIC POWER AT 70%	20.9	21.8	23.4
COMPRESSOR SPECIFIC POWER AT 60%	19.9	22.6	23.7
COMPRESSOR SPECIFIC POWER AT 50%	21.3	23.8	23.9
COMPRESSOR SPECIFIC POWER AT 40%	24.0	25.5	25.5



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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	93.0%	93.0%	93.0%
Service Factor	1.25	1.25	1.25
Fan motor HP #1	1.0	1.0	1.0

### FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	76	76	76
Full load package amps 575V/60HZ	65	65	65

### 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)	6.0	6.0	6.0
Fluid normal life expectancy (HR)	8000	8000	8000

### SOUND LEVEL

Sound Level (A/C)	74	74	74
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### PACKAGE INFORMATION

Discharge connections	NPT 2"	NPT 2"	NPT 2"
Condensate connections	N/A	N/A	N/A
Length (in)	80	80	80
Width (in)	40	40	40
Height (in)	52	52	52
Weight (lbs) (A/C)	2497	2497	2497
Estimated shipping weight (lbs)	2647	2647	2647

### 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

Effective 3-30-20