



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSD100-115V	KRSD100-125V	KRSD100-150V
GENERAL DATA			
ACFM	490	470	402
Full load pressure (psig)	115	125	150
Motor HP	100	100	100
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)	252252	252252	252252
COMPRESSOR CFM			
COMPRESSOR CFM AT 100%	490	470	402
COMPRESSOR CFM AT 70%	343	329	281
COMPRESSOR CFM AT 60%	294	282	241
COMPRESSOR CFM AT 50%	245	235	201
COMPRESSOR CFM AT 40%	196	188	161
COMPRESSOR PACKAGE KW			
COMPRESSOR PACKAGE KW AT 100%	97.7	95.4	95.9
COMPRESSOR PACKAGE KW AT 70%	66.0	66.8	67.1
COMPRESSOR PACKAGE KW AT 60%	56.7	57.8	58.4
COMPRESSOR PACKAGE KW AT 50%	48.3	48.6	50.1
COMPRESSOR PACKAGE KW AT 40%	41.5	43.8	44.4
COMPRESSOR SPECIFIC POWER			
COMPRESSOR SPECIFIC POWER AT 100%	19.9	20.3	23.9
COMPRESSOR SPECIFIC POWER AT 70%	19.2	20.3	23.8
COMPRESSOR SPECIFIC POWER AT 60%	19.3	20.5	24.2
COMPRESSOR SPECIFIC POWER AT 50%	19.7	20.7	24.9
COMPRESSOR SPECIFIC POWER AT 40%	21.2	23.3	27.6



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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	94.1%	94.1%	94.1%
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	127	127	127
Full load package amps 575V/60HZ	109	109	109

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)	11.0	11.0	11.0
Fluid normal life expectancy (HR)	8000	8000	8000

SOUND LEVEL

Sound Level (A/C)	76	76	76
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PACKAGE INFORMATION

Discharge connections	NPS3	NPS3	NPS3
Condensate connections	N/A	N/A	N/A
Length (in)	89	89	89
Width (in)	48	48	48
Height (in)	62	62	62
Weight (lbs) (A/C)	4608	4608	4608
Estimated shipping weight (lbs)	4850	4850	4850

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