



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSD150-115V	KRSD150-125V	KRSD150-150V
GENERAL DATA			
ACFM	725	692	643
Full load pressure (psig)	115	125	150
Motor HP	150	150	150
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	14126	14126	14126
Approach temperature	15	15	15
Heat rejected (BTU/HR)	368410	368410	368410
COMPRESSOR CFM			
COMPRESSOR CFM AT 100%	725	692	643
COMPRESSOR CFM AT 70%	508	484	450
COMPRESSOR CFM AT 60%	435	415	386
COMPRESSOR CFM AT 50%	363	346	322
COMPRESSOR CFM AT 40%	290	277	257
COMPRESSOR PACKAGE KW			
COMPRESSOR PACKAGE KW AT 100%	137.1	137.4	138.9
COMPRESSOR PACKAGE KW AT 70%	100.6	100.8	101.9
COMPRESSOR PACKAGE KW AT 60%	87.0	87.2	88.2
COMPRESSOR PACKAGE KW AT 50%	74.1	74.3	75.1
COMPRESSOR PACKAGE KW AT 40%	64.1	64.2	64.9
COMPRESSOR SPECIFIC POWER			
COMPRESSOR SPECIFIC POWER AT 100%	18.9	19.9	21.6
COMPRESSOR SPECIFIC POWER AT 70%	19.8	20.8	22.6
COMPRESSOR SPECIFIC POWER AT 60%	20.0	21.0	22.8
COMPRESSOR SPECIFIC POWER AT 50%	20.5	21.5	23.4
COMPRESSOR SPECIFIC POWER AT 40%	22.1	23.2	25.2



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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	194	194	194
Full load package amps 575V/60HZ	162	162	162

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)	21.1	21.1	21.1
Fluid normal life expectancy (HR)	8000	8000	8000

SOUND LEVEL

Sound Level (A/C)	78	78	78
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PACKAGE INFORMATION

Discharge connections	NPS2.5	NPS2.5	NPS2.5
Condensate connections	N/A	N/A	N/A
Length (in)	107	107	107
Width (in)	55	55	55
Height (in)	67	67	67
Weight (lbs) (A/C)	6702	6702	6702
Estimated shipping weight (lbs)	6954	6954	6954

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