



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSP150-100V	KRSP150-115V	KRSP150-125V	KRSP150-150V
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GENERAL DATA

ACFM	770	740	721	648
Full load pressure (psig)	100	115	125	150
Motor HP	150	150	150	150

AIR END DATA

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

COOLING DATA (AIR)

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)	9335	9335	9335	9335
Approach temperature	16.2	16.2	16.2	16.2
Heat rejected (BTU/HR)	340361	340361	340361	340361

COMPRESSOR CFM

COMPRESSOR CFM AT 100%	770	740	721	648
COMPRESSOR CFM AT 70%	534	514	501	450
COMPRESSOR CFM AT 60%	453	442	424	357
COMPRESSOR CFM AT 50%	370	361	347	292
COMPRESSOR CFM AT 40%	286	278	267	225
COMPRESSOR CFM AT 25%	167	163	157	132

COMPRESSOR PACKAGE KW

COMPRESSOR PACKAGE KW AT 100%	143.9	144.7	145.5	142.7
COMPRESSOR PACKAGE KW AT 70%	95.5	96.1	96.6	91.8
COMPRESSOR PACKAGE KW AT 60%	81.5	81.9	82.4	78.8
COMPRESSOR PACKAGE KW AT 50%	68.4	68.8	69.2	66.2
COMPRESSOR PACKAGE KW AT 40%	55.7	56.0	56.3	53.0
COMPRESSOR PACKAGE KW AT 25%	35.8	36.0	36.2	33.4

COMPRESSOR SPECIFIC POWER

COMPRESSOR SPECIFIC POWER AT 100%	18.7	19.6	20.2	22.0
COMPRESSOR SPECIFIC POWER AT 70%	17.9	18.7	19.3	20.4
COMPRESSOR SPECIFIC POWER AT 60%	18.0	18.6	19.4	22.1
COMPRESSOR SPECIFIC POWER AT 50%	18.5	19.0	20.0	22.7
COMPRESSOR SPECIFIC POWER AT 40%	19.5	20.1	21.0	23.6
COMPRESSOR SPECIFIC POWER AT 25%	21.4	22.0	23.1	25.3



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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	95.8%	95.8%	95.8%	95.8%
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	210	210	210	210
Full load package amps 575V/60HZ	174	174	174	174

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)	18.5	18.5	18.5	18.5
Fluid normal life expectancy (HR)	8000	8000	8000	8000

SOUND LEVEL

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

Discharge connections	NPS3	NPS3	NPS3	NPS3
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"	NPT 1/4"
Length (in)	122	122	122	122
Width (in)	67	67	67	67
Height (in)	81	81	81	81
Weight (lbs) (A/C)	7938	7938	7938	7938
Estimated shipping weight (lbs)	8379	8379	8379	8379

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