



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSP200-100V	KRSP200-115V	KRSP200-125V	KRSP200-150V
GENERAL DATA				
ACFM	983	952	922	849
Full load pressure (psig)	100	115	125	150
Motor HP	200	200	200	200
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)	10900	10900	10900	10900
Approach temperature	16.0	16.0	16.0	16.0
Heat rejected (BTU/HR)	450403	450403	450403	450403
COMPRESSOR CFM				
COMPRESSOR CFM AT 100%	983	952	922	849
COMPRESSOR CFM AT 70%	688	666	645	594
COMPRESSOR CFM AT 60%	590	571	553	509
COMPRESSOR CFM AT 50%	492	476	461	425
COMPRESSOR CFM AT 40%	393	381	369	340
COMPRESSOR CFM AT 25%	246	238	231	212
COMPRESSOR PACKAGE KW				
COMPRESSOR PACKAGE KW AT 100%	180.0	180.5	181.3	182.2
COMPRESSOR PACKAGE KW AT 70%	124.2	124.5	125.1	125.7
COMPRESSOR PACKAGE KW AT 60%	104.4	104.7	105.2	105.7
COMPRESSOR PACKAGE KW AT 50%	95.4	95.7	96.1	96.6
COMPRESSOR PACKAGE KW AT 40%	77.4	77.6	78.0	78.4
COMPRESSOR PACKAGE KW AT 25%	54.0	54.1	54.4	54.7
COMPRESSOR SPECIFIC POWER				
COMPRESSOR SPECIFIC POWER AT 100%	18.3	19.0	19.7	21.5
COMPRESSOR SPECIFIC POWER AT 70%	18.0	18.7	19.4	21.2
COMPRESSOR SPECIFIC POWER AT 60%	17.7	18.3	19.0	20.7
COMPRESSOR SPECIFIC POWER AT 50%	19.4	20.1	20.8	22.7
COMPRESSOR SPECIFIC POWER AT 40%	19.7	20.4	21.1	23.1
COMPRESSOR SPECIFIC POWER AT 25%	22.0	22.8	23.6	25.8



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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	96.2%	96.2%	96.2%	96.2%
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	262	262	262	262
Full load package amps 575V/60HZ	198	198	198	198

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)	9083	9083	9083	9083
Estimated shipping weight (lbs)	9215	9215	9215	9215

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