



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL KRSP50-100V KRSP50-115V KRSP50-125V KRSP50-150V

GENERAL DATA

ACFM	248	242	236	212
Full load pressure (psig)	100	115	125	150
Motor HP	50	50	50	50

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	4120	4120	4120	4120
Approach temperature	16.2	16.2	16.2	16.2
Heat rejected (BTU/HR)	123400	123400	123400	123400

COMPRESSOR CFM

COMPRESSOR CFM AT 100%	248	242	236.2	212
COMPRESSOR CFM AT 70%	178	173	162.5	152
COMPRESSOR CFM AT 60%	151	148	137.3	123
COMPRESSOR CFM AT 50%	123	120	111.8	100
COMPRESSOR CFM AT 40%	98	95	87.6	80
COMPRESSOR CFM AT 25%	60	58	53.4	49

COMPRESSOR PACKAGE KW

COMPRESSOR PACKAGE KW AT 100%	48.4	49.3	49.8	52.5
COMPRESSOR PACKAGE KW AT 70%	32.9	33.8	34.5	35.9
COMPRESSOR PACKAGE KW AT 60%	27.1	28.6	29.8	31.9
COMPRESSOR PACKAGE KW AT 50%	23.9	24.8	25.8	26.9
COMPRESSOR PACKAGE KW AT 40%	19.4	20.4	20.9	22.9
COMPRESSOR PACKAGE KW AT 25%	13.3	13.6	14.2	15.3

COMPRESSOR SPECIFIC POWER

COMPRESSOR SPECIFIC POWER AT 100%	19.5	20.4	21.1	24.7
COMPRESSOR SPECIFIC POWER AT 70%	18.5	19.5	21.2	23.6
COMPRESSOR SPECIFIC POWER AT 60%	17.9	19.4	21.7	25.9
COMPRESSOR SPECIFIC POWER AT 50%	19.4	20.7	23.1	26.9
COMPRESSOR SPECIFIC POWER AT 40%	19.9	21.4	23.9	28.8
COMPRESSOR SPECIFIC POWER AT 25%	22.2	23.3	26.6	31.4



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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	94.5%	94.5%	94.5%	94.5%
Service Factor	1.25	1.25	1.25	1.25
Fan motor HP #1	2.0	2.0	2.0	2.0

FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	67	67	67	67
Full load package amps 575V/60HZ	51	51	51	51

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)	7	7	7	7
Fluid normal life expectancy (HR)	8000	8000	8000	8000

SOUND LEVEL

Sound Level (A/C)	71	71	71	71
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PACKAGE INFORMATION

Discharge connections	NPT 2"	NPT 2"	NPT 2"	NPT 2"
Condensate connections	N/A	N/A	N/A	N/A
Length (in)	71	71	71	71
Width (in)	46	46	46	46
Height (in)	54	54	54	54
Weight (lbs) (A/C)	2711	2711	2711	2711
Estimated shipping weight (lbs)	2945	2945	2945	2945

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