



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSP500-100V	KRSP500-115V	KRSP500-125V	KRSP500-150V
GENERAL DATA				
ACFM	2429	2318	2208	CF
Full load pressure (psig)	100	115	125	CF
Motor HP	500	500	500	CF
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)	81840	81840	81840	81840
Approach temperature	15.2	15.2	15.2	15.2
Heat rejected (BTU/HR)	1086620	1086620	1086620	1086620
COMPRESSOR CFM				
COMPRESSOR CFM AT 100%	2429	2318	2208	CF
COMPRESSOR CFM AT 70%	1676	1600	1523	CF
COMPRESSOR CFM AT 60%	1433	1368	1303	CF
COMPRESSOR CFM AT 50%	1166	1113	1060	CF
COMPRESSOR CFM AT 40%	923	881	839	CF
COMPRESSOR CFM AT 25%	534	510	486	CF
COMPRESSOR PACKAGE KW				
COMPRESSOR PACKAGE KW AT 100%	434.1	436.2	439.1	CF
COMPRESSOR PACKAGE KW AT 70%	286.5	287.9	289.8	CF
COMPRESSOR PACKAGE KW AT 60%	251.8	253.0	254.7	CF
COMPRESSOR PACKAGE KW AT 50%	208.4	209.4	210.8	CF
COMPRESSOR PACKAGE KW AT 40%	169.3	170.1	171.2	CF
COMPRESSOR PACKAGE KW AT 25%	108.5	109.1	109.8	CF
COMPRESSOR SPECIFIC POWER				
COMPRESSOR SPECIFIC POWER AT 100%	17.9	18.8	19.9	CF
COMPRESSOR SPECIFIC POWER AT 70%	17.1	18.0	19.0	CF
COMPRESSOR SPECIFIC POWER AT 60%	17.6	18.5	19.6	CF
COMPRESSOR SPECIFIC POWER AT 50%	17.9	18.8	19.9	CF
COMPRESSOR SPECIFIC POWER AT 40%	18.3	19.3	20.4	CF
COMPRESSOR SPECIFIC POWER AT 25%	20.3	21.4	22.6	CF



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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	20.0	20.0	20.0	20.0

FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	631	631	631	631
Full load package amps 575V/60HZ	560	560	560	560

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)	35.2	35.2	35.2	35.2
Fluid normal life expectancy (HR)	8000	8000	8000	8000

SOUND LEVEL

Sound Level (A/C)	80	80	80	80
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PACKAGE INFORMATION

Discharge connections	DN 125	DN 125	DN 125	DN 125
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"	NPT 1/4"
Length (in)	168	168	168	168
Width (in)	89	89	89	89
Height (in)	89	89	89	89
Weight (lbs) (A/C)	18522	18522	18522	18522
Estimated shipping weight (lbs)	17625	17625	17625	17625

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