



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSP250-100V	KRSP250-115V	KRSP250-125V	KRSP250-150V
GENERAL DATA				
ACFM	1243	1204	1164	1073
Full load pressure (psig)	100	115	125	150
Motor HP	250	250	250	250
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)	18690	18690	18690	18690
Approach temperature	16.0	16.0	16.0	16.0
Heat rejected (BTU/HR)	514380	514380	514380	514380
COMPRESSOR CFM				
COMPRESSOR CFM AT 100%	1243	1204	1164	1073
COMPRESSOR CFM AT 70%	870	843	815	751
COMPRESSOR CFM AT 60%	746	722	698	644
COMPRESSOR CFM AT 50%	622	602	582	537
COMPRESSOR CFM AT 40%	497	482	466	429
COMPRESSOR CFM AT 25%	311	301	291	268
COMPRESSOR PACKAGE KW				
COMPRESSOR PACKAGE KW AT 100%	217.8	218.9	220.1	221.4
COMPRESSOR PACKAGE KW AT 70%	150.3	151.0	151.9	152.8
COMPRESSOR PACKAGE KW AT 60%	130.7	131.3	132.1	132.9
COMPRESSOR PACKAGE KW AT 50%	108.9	109.4	110.1	110.7
COMPRESSOR PACKAGE KW AT 40%	87.1	87.5	88.0	88.6
COMPRESSOR PACKAGE KW AT 25%	65.3	65.7	66.0	66.4
COMPRESSOR SPECIFIC POWER				
COMPRESSOR SPECIFIC POWER AT 100%	17.5	18.2	18.9	20.6
COMPRESSOR SPECIFIC POWER AT 70%	17.3	17.9	18.6	20.3
COMPRESSOR SPECIFIC POWER AT 60%	17.5	18.2	18.9	20.6
COMPRESSOR SPECIFIC POWER AT 50%	17.5	18.2	18.9	20.6
COMPRESSOR SPECIFIC POWER AT 40%	17.5	18.2	18.9	20.6
COMPRESSOR SPECIFIC POWER AT 25%	21.0	21.8	22.7	24.8



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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	6.7	6.7	6.7	6.7

FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	336	336	336	336
Full load package amps 575V/60HZ	276	276	276	276

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)	27.5	27.5	27.5	27.5
Fluid normal life expectancy (HR)	8000	8000	8000	8000

SOUND LEVEL

Sound Level (A/C)	77	77	77	77
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PACKAGE INFORMATION

Discharge connections	DN80	DN80	DN80	DN80
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"	NPT 1/4"
Length (in)	140	140	140	140
Width (in)	75	75	75	75
Height (in)	91	91	91	91
Weight (lbs) (A/C)	12658	12658	12658	12658
Estimated shipping weight (lbs)	12985	12985	12985	12985

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