



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSP75-100V	KRSP75-115V	KRSP75-125V	KRSP75-150V
GENERAL DATA				
ACFM	371	362	356	318
Full load pressure (psig)	100	115	125	150
Motor HP	75	75	75	75
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	5886	5886	5886	5886
Approach temperature	21.6	21.6	21.6	21.6
Heat rejected (BTU/HR)	179668	179668	179668	179668
COMPRESSOR CFM				
COMPRESSOR CFM AT 100%	371	362	356	318
COMPRESSOR CFM AT 70%	260	254	245	222
COMPRESSOR CFM AT 60%	223	217	209	181
COMPRESSOR CFM AT 50%	186	181	172	151
COMPRESSOR CFM AT 40%	149	145	136	121
COMPRESSOR CFM AT 25%	93	91	81	76
COMPRESSOR PACKAGE KW				
COMPRESSOR PACKAGE KW AT 100%	72.8	73.4	74.7	75.3
COMPRESSOR PACKAGE KW AT 70%	49.8	50.3	51.1	52.1
COMPRESSOR PACKAGE KW AT 60%	42.9	43.7	44.1	44.4
COMPRESSOR PACKAGE KW AT 50%	37.2	38.1	38.1	39.9
COMPRESSOR PACKAGE KW AT 40%	30.0	30.7	31.4	32.4
COMPRESSOR PACKAGE KW AT 25%	20.6	21.1	21.7	22.4
COMPRESSOR SPECIFIC POWER				
COMPRESSOR SPECIFIC POWER AT 100%	19.6	20.2	21.0	23.7
COMPRESSOR SPECIFIC POWER AT 70%	19.2	19.8	20.8	23.4
COMPRESSOR SPECIFIC POWER AT 60%	19.2	20.1	21.1	24.5
COMPRESSOR SPECIFIC POWER AT 50%	20.0	21.0	22.1	26.4
COMPRESSOR SPECIFIC POWER AT 40%	20.2	21.2	23.1	26.8
COMPRESSOR SPECIFIC POWER AT 25%	22.2	23.3	26.8	29.7



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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	95.4%	95.4%	95.4%	95.4%
Service Factor	1.25	1.25	1.25	1.25
Fan motor HP #1	3.0	3.0	3.0	3.0

FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	99	99	99	99
Full load package amps 575V/60HZ	84	84	84	84

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)	7.5	7.5	7.5	7.5
Fluid normal life expectancy (HR)	8000	8000	8000	8000

SOUND LEVEL

Sound Level (A/C)	75	75	75	75
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PACKAGE INFORMATION

Discharge connections	NPS2	NPS2	NPS2	NPS2
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"	NPT 1/4"
Length (in)	89	89	89	89
Width (in)	56	56	56	56
Height (in)	68	68	68	68
Weight (lbs) (A/C)	3949	3949	3949	3949
Estimated shipping weight (lbs)	4300	4300	4300	4300

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