



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

KCA MODEL	KRSD30-115V	KRSD30-125V	KRSD30-150V
GENERAL DATA			
ACFM	149	142	121
Full load pressure (psig)	115	125	150
Motor HP	30	30	30
AIR END DATA			
Air end model	Patented SKY 5/6 profile		
Number of thrust bearings (male/female)	2/2	2/2	2/2
Drive type	Direct	Direct	Direct
Bearing manufacturer	SKF only	SKF only	SKF only
COOLING DATA (AIR)			
Ambient temperature rating (min/max)	32/104	32/104	32/104
Max. static back pressure	6mmH2O	6mmH2O	6mmH2O
Cooling fan capacity	2825	2825	2825
Approach temperature	15	15	15
Heat rejected (BTU/HR)	76400	76400	76400
COMPRESSOR CFM			
COMPRESSOR CFM AT 100%	149	142	121
COMPRESSOR CFM AT 80%	119	114	97
COMPRESSOR CFM AT 70%	104	99	85
COMPRESSOR CFM AT 50%	75	71	61
COMPRESSOR CFM AT 40%	60	57	N/A
COMPRESSOR PACKAGE KW			
COMPRESSOR PACKAGE KW AT 100%	30.5	31.3	31.9
COMPRESSOR PACKAGE KW AT 80%	25.6	26.1	26.6
COMPRESSOR PACKAGE KW AT 70%	23.3	23.5	24.0
COMPRESSOR PACKAGE KW AT 50%	18.5	18.1	18.5
COMPRESSOR PACKAGE KW AT 40%	16.5	15.9	N/A
COMPRESSOR SPECIFIC POWER			
COMPRESSOR SPECIFIC POWER AT 100%	20.5	22.0	26.4
COMPRESSOR SPECIFIC POWER AT 80%	21.5	22.9	27.5
COMPRESSOR SPECIFIC POWER AT 70%	22.4	23.7	28.3
COMPRESSOR SPECIFIC POWER AT 50%	24.7	25.5	30.5
COMPRESSOR SPECIFIC POWER AT 40%	27.5	27.9	N/A



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ELECTRICAL DATA

Electrical enclosure rating	NEMA1	NEMA1	NEMA1
Enclosure type (drive and fan)	TEFC	TEFC	TEFC
Insulation class (drive and fan)	F	F	F
Drive motor efficiency	92.0%	92.0%	92.0%
Service Factor	1.25	1.25	1.25
Fan motor HP #1	1.0	1.0	1.0

FULL LOAD PACKAGE AMPS

Full load package amps 460V/60HZ	44	44	44
Full load package amps 575V/60HZ	39	39	39

FILTRATION AND LUBRICATION DATA

Air filter micron rating	5µm	5µm	5µm
Fluid filter micron rating	23µm	23µm	23µm
Fluid carryover (PPM)	<3	<3	<3

COMPRESSOR COOLING FLUID DATA

Fluid capacity (A/C) (Gal)	3.4	3.4	3.4
Fluid normal life expectancy (HR)	8000	8000	8000

SOUND LEVEL

Sound Level (A/C)	73	73	73
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PACKAGE INFORMATION

Discharge connections	NPT 1 1/4"	NPT 1 1/4"	NPT 1 1/4"
Condensate connections	N/A	N/A	N/A
Length (in)	66	66	66
Width (in)	34	34	34
Height (in)	44	44	44
Weight (lbs) (A/C)	1523	1523	1523
Estimated shipping weight (lbs)	1664	1664	1664

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)	Axial
Internal piping	Stainless steel

Effective 8-30-20