



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA

KCA MODEL	KRSP350-100	KRSP350-125	KRSP350-150
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GENERAL DATA

ACFM	1923	1531	1401
Full load pressure (psig)	100	125	150
Maximum pressure (psig)	110	135	160
Package KW at rated pressure (A/C)	314.5	268.7	283.7
Specific power KW/100 cfm (A/C)	16.4	17.6	20.3
Package KW at rated pressure (W/C)	305.5	259.7	271.8
Specific power KW/100 cfm (W/C)	15.9	17.0	19.4
Unloaded power (KW)	65.4	65.4	65.4
Control type		Modulation	
Starter type		Wye Delta	

AIR END DATA

Air end model		Patented SKY 5/6 profile	
Number of thrust bearings (male/female)	4-3	4-3	4-3
Drive type	Direct	Direct	Direct
Bearing manufacturer	SKF only	SKF only	SKF only

COOLING DATA (AIR)

Ambient temperature rating (min/max)		32/122	
Cooling fan capacity	33461	33461	33461
Heat rejected (BTU/HR)	806118	688398	726786
Max. static back pressure		6mmH2O	
Approach temperature	15	15	15

COOLING DATA (WATER)

Type of heat exchangers		Tube and shell	
Approach temperature	15	15	15
Heat rejected into cooling water (BTU/HR)	806118	688398	726786
Maximum inlet temperature	≤90	≤90	≤90
Minimum cooling water flow 70 (F)	62	68	62
Minimum cooling water flow 90 (F)	108	112	108
Water pressure drop (psi)	16	16	16

SOUND LEVEL

Sound Level (A/C)	78	78	78
Sound Level (W/C)	78	78	78



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ELECTRICAL DATA

Electrical enclosure rating		NEMA4	
Enclosure type (drive and fan)		TEFC	
Insulation class (drive and fan)		F	
Drive motor HP	350	350	350
Drive motor nominal speed(rpm)	1790	1790	1790
Service Factor	1.20	1.20	1.25
Drive motor efficiency	96.2%	96.2%	96.2%
Fan motor HP #1	13.5	13.5	13.5
Fan motor HP #2	1.7	1.7	1.7
Full load package amps 460V/60HZ	439	413	428
Full load package amps 575V/60HZ	382	382	376

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)	34.1	34.1	34.1
Fluid capacity (W/C) (Gal)	34.1	34.1	34.1
Fluid normal life expectancy (HR)	8000	8000	8000

PACKAGE INFORMATION

Discharge connections	DN100	DN100	DN100
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"
Cooling water connections	NPT 2"	NPT 2"	NPT 2"
Length (in)	148	148	148
Width (in)	88	88	88
Height (in)	94	94	94
Weight (lbs) (A/C)	14222	14222	14222
Weight (lbs) (W/C)	13671	13671	13671
Estimated shipping weight (lbs)	15104	15104	15104

PRODUCT FEATURES

Motor brand	Marathon or Weg
Starter and controls brand	Siemens or Schnieder
Enclosure/Cabinet type	Low sound
Inlet filter type	Heavy Duty
Phase monitor	Standard
Cooling fan type (A/C)	Centrifugal fan with VSD drive
Internal piping	Stainless steel