



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA

KCA MODEL	KRSP300-100	KRSP300-125	KRSP300-150
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GENERAL DATA

ACFM	1502	1405	1186
Full load pressure (psig)	100	125	150
Maximum pressure (psig)	110	135	160
Package KW at rated pressure (A/C)	254.1	262.4	240.9
Specific power KW/100 cfm (A/C)	16.9	18.7	20.3
Package KW at rated pressure (W/C)	247.5	255.1	234.6
Specific power KW/100 cfm (W/C)	16.5	18.2	19.8
Unloaded power (KW)	52.9	52.8	52.8
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	27210	27210	27210
Heat rejected (BTU/HR)	652101	632098	616745
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)	652101	632098	616745
Maximum inlet temperature	≤90	≤90	≤90
Minimum cooling water flow 70 (F)	60	62	60
Minimum cooling water flow 90 (F)	104	108	104
Water pressure drop (psi)	16	16	16

SOUND LEVEL

Sound Level (A/C)	77	77	77
Sound Level (W/C)	77	77	77



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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	300	300	300
Drive motor nominal speed(rpm)	1780	1780	1780
Service Factor	1.20	1.20	1.20
Drive motor efficiency	96.2%	96.2%	96.2%
Fan motor HP #1	6.7	6.7	6.7
Fan motor HP #2	1.2	1.2	1.2
Full load package amps 460V/60HZ	357	357	336
Full load package amps 575V/60HZ	321	321	329

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)	27.5	27.5	27.5
Fluid capacity (W/C) (Gal)	27.5	27.5	27.5
Fluid normal life expectancy (HR)	8000	8000	8000

PACKAGE INFORMATION

Discharge connections	NPS3	NPS3	NPS3
Condensate connections	NPT 1/4"	NPT 1/4"	NPT 1/4"
Cooling water connections	NPT 2"	NPT 2"	NPT 2"
Length (in)	140	140	140
Width (in)	75	75	75
Height (in)	91	91	91
Weight (lbs) (A/C)	12645	12645	12645
Weight (lbs) (W/C)	11389	11389	11389
Estimated shipping weight (lbs)	13258	13258	13258

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