



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

| KCA MODEL | KRSD40-115V | KRSD40-125V |
|---|--------------------------|-------------|
| GENERAL DATA | | |
| ACFM | 198 | 192 |
| Full load pressure (psig) | 115 | 125 |
| Motor HP | 40 | 40 |
| AIR END DATA | | |
| Air end model | Patented SKY 5/6 profile | |
| Number of thrust bearings (male/female) | 2/2 | 2/2 |
| Drive type | Direct | Direct |
| Bearing manufacturer | SKF only | SKF only |
| COOLING DATA (AIR) | | |
| Ambient temperature rating (min/max) | 32/104 | 32/104 |
| Max. static back pressure | 6mmH2O | 6mmH2O |
| Cooling fan capacity | 3578 | 3578 |
| Approach temperature | 15 | 15 |
| Heat rejected (BTU/HR) | 102720 | 102720 |
| COMPRESSOR CFM | | |
| COMPRESSOR CFM AT 100% | 198 | 192 |
| COMPRESSOR CFM AT 70% | 139 | 134 |
| COMPRESSOR CFM AT 60% | 119 | 115 |
| COMPRESSOR CFM AT 50% | 99 | 96 |
| COMPRESSOR CFM AT 40% | 79 | 77 |
| COMPRESSOR PACKAGE KW | | |
| COMPRESSOR PACKAGE KW AT 100% | 38.9 | 38.3 |
| COMPRESSOR PACKAGE KW AT 70% | 29.1 | 30.1 |
| COMPRESSOR PACKAGE KW AT 60% | 25.8 | 27.1 |
| COMPRESSOR PACKAGE KW AT 50% | 22.7 | 23.1 |
| COMPRESSOR PACKAGE KW AT 40% | 19.1 | 20.5 |
| COMPRESSOR SPECIFIC POWER | | |
| COMPRESSOR SPECIFIC POWER AT 100% | 19.6 | 19.9 |
| COMPRESSOR SPECIFIC POWER AT 70% | 20.9 | 22.5 |
| COMPRESSOR SPECIFIC POWER AT 60% | 21.7 | 23.6 |
| COMPRESSOR SPECIFIC POWER AT 50% | 22.9 | 24.1 |
| COMPRESSOR SPECIFIC POWER AT 40% | 24.2 | 26.6 |



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ELECTRICAL DATA

| | | |
|----------------------------------|-------|-------|
| Electrical enclosure rating | NEMA1 | NEMA1 |
| Enclosure type (drive and fan) | TEFC | TEFC |
| Insulation class (drive and fan) | F | F |
| Drive motor efficiency | 93.0% | 93.0% |
| Service Factor | 1.25 | 1.25 |
| Fan motor HP #1 | 1.5 | 1.5 |

FULL LOAD PACKAGE AMPS

| | | |
|----------------------------------|----|----|
| Full load package amps 460V/60HZ | 56 | 56 |
| Full load package amps 575V/60HZ | 41 | 41 |

FILTRATION AND LUBRICATION DATA

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

COMPRESSOR COOLING FLUID DATA

| | | |
|-----------------------------------|------|------|
| Fluid capacity (A/C) (Gal) | 6.0 | 6.0 |
| Fluid normal life expectancy (HR) | 8000 | 8000 |

SOUND LEVEL

| | | |
|-------------------|----|----|
| Sound Level (A/C) | 74 | 74 |
|-------------------|----|----|

PACKAGE INFORMATION

| | | |
|---------------------------------|------------|------------|
| Discharge connections | NPT 1 1/4" | NPT 1 1/4" |
| Condensate connections | N/A | N/A |
| Length (in) | 80 | 80 |
| Width (in) | 40 | 40 |
| Height (in) | 52 | 52 |
| Weight (lbs) (A/C) | 2161 | 2161 |
| Estimated shipping weight (lbs) | 2362 | 2361 |

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 |

