



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

| KCA MODEL | KRSD20-115V | KRSD20-125V | KRSD20-150V |
|---|-------------|-------------|-------------|
| GENERAL DATA | | | |
| ACFM | 72 | 68 | 59 |
| Full load pressure (psig) | 115 | 125 | 150 |
| Motor HP | 20 | 20 | 20 |
| AIR END DATA | | | |
| Air end model | | | |
| 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 | 1883 | 1883 | 1883 |
| Approach temperature | 15 | 15 | 15 |
| Heat rejected (BTU/HR) | 50933 | 50933 | 50933 |
| COMPRESSOR CFM | | | |
| COMPRESSOR CFM AT 100% | 72 | 68 | 59 |
| COMPRESSOR CFM AT 70% | 50 | 47 | 44 |
| COMPRESSOR CFM AT 60% | 42 | 40 | 39 |
| COMPRESSOR CFM AT 50% | 35 | 33 | 32 |
| COMPRESSOR CFM AT 40% | 27 | 26 | 27 |
| COMPRESSOR PACKAGE KW | | | |
| COMPRESSOR PACKAGE KW AT 100% | 16.2 | 16.4 | 16.4 |
| COMPRESSOR PACKAGE KW AT 70% | 11.6 | 11.8 | 11.8 |
| COMPRESSOR PACKAGE KW AT 60% | 10.0 | 10.2 | 10.2 |
| COMPRESSOR PACKAGE KW AT 50% | 8.4 | 8.5 | 8.5 |
| COMPRESSOR PACKAGE KW AT 40% | 7.9 | 8.0 | 8.0 |
| COMPRESSOR SPECIFIC POWER | | | |
| COMPRESSOR SPECIFIC POWER AT 100% | 22.5 | 24.1 | 27.8 |
| COMPRESSOR SPECIFIC POWER AT 70% | 23.2 | 24.9 | 26.8 |
| COMPRESSOR SPECIFIC POWER AT 60% | 23.6 | 25.3 | 26.1 |
| COMPRESSOR SPECIFIC POWER AT 50% | 24.1 | 25.9 | 26.7 |
| COMPRESSOR SPECIFIC POWER AT 40% | 29.1 | 31.2 | 29.6 |



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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 | 91.5% | 91.5% | 91.5% |
| Service Factor | 1.25 | 1.25 | 1.25 |
| Fan motor HP #1 | 0.75 | 0.75 | 0.75 |

FULL LOAD PACKAGE AMPS

| | | | |
|----------------------------------|----|----|----|
| Full load package amps 460V/60HZ | 26 | 26 | 26 |
| Full load package amps 575V/60HZ | 21 | 21 | 21 |

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) | 3.0 | 3.0 | 3.0 |
| Fluid normal life expectancy (HR) | 8000 | 8000 | 8000 |

SOUND LEVEL

| | | | |
|-------------------|----|----|----|
| Sound Level (A/C) | 73 | 73 | 73 |
|-------------------|----|----|----|

PACKAGE INFORMATION

| | | | |
|---------------------------------|--------|--------|--------|
| Discharge connections | NPT 1" | NPT 1" | NPT 1" |
| Condensate connections | N/A | N/A | N/A |
| Length (in) | 51 | 51 | 51 |
| Width (in) | 31 | 31 | 31 |
| Height (in) | 43 | 43 | 43 |
| Weight (lbs) (A/C) | 1198 | 1198 | 1198 |
| Estimated shipping weight (lbs) | 1301 | 1301 | 1301 |

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 |