



KAISHAN COMPRESSOR USA, LLC

TECHNICAL DATA - VARIABLE SPEED COMPRESSORS

| KCA MODEL | KRSP350-100V | KRSP350-115V | KRSP350-125V | KRSP350-150V |
|---|--------------|--------------------------|--------------|--------------|
| GENERAL DATA | | | | |
| ACFM | 1875 | 1809 | 1681 | 1372 |
| Full load pressure (psig) | 100 | 115 | 125 | 150 |
| Motor HP | 350 | 350 | 350 | 350 |
| AIR END DATA | | | | |
| Air end model | | Patented SKY 5/6 profile | | |
| Number of thrust bearings (male/female) | 4/3 | 4/3 | 4/3 | 4/3 |
| Drive type | Direct | Direct | Direct | Direct |
| Bearing manufacturer | SKF only | SKF only | SKF only | SKF only |
| COOLING DATA (AIR) | | | | |
| Ambient temperature rating (min/max) | 32/104 | 32/104 | 32/104 | 32/104 |
| Max. static back pressure | 6mmH2O | 6mmH2O | 6mmH2O | 6mmH2O |
| Cooling fan capacity (cfm) | 33461 | 33461 | 33461 | 33461 |
| Approach temperature | 15.8 | 15.8 | 15.8 | 15.8 |
| Heat rejected (BTU/HR) | 806118 | 806118 | 806118 | 806118 |
| COMPRESSOR CFM | | | | |
| COMPRESSOR CFM AT 100% | 1875 | 1809 | 1632 | 1372 |
| COMPRESSOR CFM AT 70% | 1293 | 1248 | 1126 | 946 |
| COMPRESSOR CFM AT 60% | 1106 | 1067 | 963 | 809 |
| COMPRESSOR CFM AT 50% | 900 | 868 | 783 | 658 |
| COMPRESSOR CFM AT 40% | 712 | 687 | 620 | 521 |
| COMPRESSOR CFM AT 25% | 412 | 398 | 359 | 302 |
| COMPRESSOR PACKAGE KW | | | | |
| COMPRESSOR PACKAGE KW AT 100% | 314.5 | 315.4 | 317.9 | 276.9 |
| COMPRESSOR PACKAGE KW AT 70% | 207.6 | 208.2 | 209.8 | 182.8 |
| COMPRESSOR PACKAGE KW AT 60% | 182.4 | 182.9 | 184.4 | 160.6 |
| COMPRESSOR PACKAGE KW AT 50% | 151.0 | 151.4 | 152.6 | 132.9 |
| COMPRESSOR PACKAGE KW AT 40% | 122.7 | 123.0 | 124.0 | 108.0 |
| COMPRESSOR PACKAGE KW AT 25% | 78.6 | 78.9 | 79.5 | 69.2 |
| COMPRESSOR SPECIFIC POWER | | | | |
| COMPRESSOR SPECIFIC POWER AT 100% | 16.8 | 17.4 | 19.5 | 20.2 |
| COMPRESSOR SPECIFIC POWER AT 70% | 16.0 | 16.7 | 18.6 | 19.3 |
| COMPRESSOR SPECIFIC POWER AT 60% | 16.5 | 17.1 | 19.1 | 19.8 |
| COMPRESSOR SPECIFIC POWER AT 50% | 16.8 | 17.4 | 19.5 | 20.2 |
| COMPRESSOR SPECIFIC POWER AT 40% | 17.2 | 17.9 | 20.0 | 20.7 |
| COMPRESSOR SPECIFIC POWER AT 25% | 19.1 | 19.8 | 22.1 | 22.9 |



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ELECTRICAL DATA

| | | | | |
|----------------------------------|-------|-------|-------|-------|
| Electrical enclosure rating | NEMA1 | NEMA1 | NEMA1 | NEMA1 |
| Enclosure type (drive and fan) | TEFC | TEFC | TEFC | TEFC |
| Insulation class (drive and fan) | F | F | F | F |
| Drive motor efficiency | 96.2% | 96.2% | 96.2% | 96.2% |
| Service Factor | 1.20 | 1.20 | 1.20 | 1.20 |
| Fan motor HP #1 | 13.5 | 13.5 | 13.5 | 13.5 |

FULL LOAD PACKAGE AMPS

| | | | | |
|----------------------------------|-----|-----|-----|-----|
| Full load package amps 460V/60HZ | 445 | 445 | 445 | 445 |
| Full load package amps 575V/60HZ | 382 | 382 | 382 | 382 |

FILTRATION AND LUBRICATION DATA

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

COMPRESSOR COOLING FLUID DATA

| | | | | |
|-----------------------------------|------|------|------|------|
| Fluid capacity (A/C) (Gal) | 34.1 | 34.1 | 34.1 | 34.1 |
| Fluid normal life expectancy (HR) | 8000 | 8000 | 8000 | 8000 |

SOUND LEVEL

| | | | | |
|-------------------|----|----|----|----|
| Sound Level (A/C) | 78 | 78 | 78 | 78 |
|-------------------|----|----|----|----|

PACKAGE INFORMATION

| | | | | |
|---------------------------------|----------|----------|----------|----------|
| Discharge connections | DN100 | DN100 | DN100 | DN100 |
| Condensate connections | NPT 1/4" | NPT 1/4" | NPT 1/4" | NPT 1/4" |
| Length (in) | 148 | 148 | 148 | 148 |
| Width (in) | 88 | 88 | 88 | 88 |
| Height (in) | 94 | 94 | 94 | 94 |
| Weight (lbs) (A/C) | 14454 | 14454 | 14454 | 14454 |
| Estimated shipping weight (lbs) | 14698 | 14698 | 14698 | 14698 |

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) | Centrifugal |
| Internal piping | Stainless steel |

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