## Submittal Sheet of Kepler Top Discharge Air Conditioner

| Model | | | KCOT-18CNR1-14 | KCOT-24CNR1-14 | KCOT-30CNR1-14 | KCOT-36CNR1-14 | KCOT-42CNR1-14 | KCOT-48CNR1-14 | KCOT-60CNR1-14 |
|---|---|---|---|---|---|---|---|---|---|
| Outdoor power supply | | V/Ph/Hz | 230V/1N/60HZ | 230V/1N/60HZ | 230V/1N/60HZ | 230V/1N/60HZ | 230V/1N/60HZ | 230V/1N/60HZ | 230V/1N/60HZ |
| Cooling | Capacity | Btu/h | 18000 | 24000 | 30000 | 34500 | 42000 | 46000 | 56500 |
| | Input | W | 1475 | 1960 | 2460 | 2830 | 3450 | 4088 | 4920 |
| | EER | Btu/h.W | 11.70 | 12.20 | 11.70 | 11.70 | 11.70 | 11.20 | 11.20 |
| | SEER ( AHRI Certified) | Btu/h.W | 13-14 | 13-14 | 13-14 | 13-14 | 13-14 | 13-14 | 13-14 |
| Max. input consumption | | W | 1843.75 | 2450.00 | 3075.00 | 3537.50 | 4312.50 | 5110.00 | 6150.00 |
| Max. current | | A | 8.44 | 11.21 | 14.07 | 16.19 | 19.74 | 23.39 | 28.15 |
| Compressor | Brand | | HIGHLY | HIGHLY | HIGHLY | HIGHLY | LG | LG | LG |
| | Model | | ASL145DG-C7EU | ASH201DG-C8LU1L | ASH239DG-C8DU | ASH280DG-C8DU | ABG036KAC | ABG042KAC | ABG051KAC |
| | Type | | rotary | rotary | rotary | rotary | scroll | scroll | scroll |
| | Capacity | W | 4240 | 5970 | 7055 | 8260 | 10551 | 12309 | 14974 |
| | Input | W | 1390 | 1950 | 2290 | 2700 | 3429 | 3962 | 4722 |
| | Rated current(RLA) | A | 6.10 | 8.70 | 10.20 | 11.90 | 15.2 | 17.3 | 21.0 |
| | Locked rotor Amp(LRA) | A | 33 | 44 | 56 | 60 | 112 | 108 | 128 |
| | Thermal protector | uf | 40 | 40 | 55.00 | 70 | 45 | 70 | 70 |
| | Refrigerant oil | ml | 480 | 570 | 570 | 570 | 1280 | 1280 | 1280 |
| Outdoor fan motor | Brand | | chigo | chigo | chigo | chigo | chigo | xinjun | xinjun |
| | Model | | S.TB-DQ-YDK-60-6P2-AL | S.TB-DQ-YDK-85-6P2-AL | S.TB-DQ-YDK-85-6P2-AL | S.TB-DQ-YDK-110-8P2-AL | S.TB-DQ-YDK-110-8P2-AL | S.TB-DQ-YDK-230-6P2 | S.TB-DQ-YDK-230-6P2 |
| | Input | W | 145 | 178 | 178 | 207 | 207 | 510 | 510 |
| | Output | W | 60 | 85 | 85 | 110 | 110 | 230 | 230 |
| | Capacitor | μF | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 12.00 | 12.00 |
| | Speed | rpm | 870 | 970 | 970 | 850 | 850 | 1095 | 1095 |
| Outdoor coil | Number of row | | 1 | 2 | 2 | 2 | 2 | 2 | 2.7 |
| | Fin spacing | in | 0.055 | 0.055 | 0.055 | 0.055 | 0.055 | 0.055 | 0.055 |
| | Fin material | | non-Hydrophilic Aluminium Fin | non-Hydrophilic Aluminium Fin | non-Hydrophilic Aluminium Fin | non-Hydrophilic Aluminium Fin | non-Hydrophilic Aluminium Fin | non-Hydrophilic Aluminium Fin | non-Hydrophilic Aluminium Fin |
| | Tube outside diameter | in | Φ 0.276 | Φ 0.276 | Φ 0.276 | Φ 0.276 | Φ 0.276 | Φ 0.276 | Φ 0.276 |
| | Tube material | | Inner Grooved | Inner Grooved | Inner Grooved | Inner Grooved | Inner Grooved | Inner Grooved | Inner Grooved |
| | Coil length x height x width | in | 56.22×23.15×0.53 | 56.22×23.15×1.05 | 56.22×23.15×1.05 | 84.65×23.15×1.05 | 84.65×31.48×1.05 | 84.65×31.48×1.05 | 84.65×31.48×1.05 |
| | Number of circuit | | 3 | 4 | 4 | 6 | 8 | 8 | 8 |
| Outdoor air flow | | CFM | 1500 | 1700 | 1900 | 2800 | 4000 | 4000 | 4000 |
| Outdoor noise level | | dB(A) | 57 | 60 | 60 | 60 | 60 | 63 | 63 |
| Outdoor dimension | Unit (WxHxD) | in | 21-4/5×25×21-4/5 | 21-4/5×25×21-4/5 | 21-4/5×25×21-4/5 | 29-1/7×25×29-1/7 | 29-1/7×32-7/8×29-1/7 | 29-1/7×32-7/8×29-1/7 | 29-1/7×32-7/8×29-1/7 |
| | | mm | 554×633×554 | 554×633×554 | 554×633×554 | 740×633×740 | 740×835×740 | 740×835×740 | 740×835×740 |
| | Packing (WxHxD) | in | 22-3/5×25-9/10×22-3/5 | 22-3/5×25-9/10×22-3/5 | 22-3/5×25-9/10×22-3/5 | 29-9/10×25-9/10×x29-9/10 | 29-9/10×34-2/5×29-9/10 | 29-9/10×34-2/5×29-9/10 | 29-9/10×34-2/5×29-9/10 |
| | | mm | 575×660×575 | 575×660×575 | 575×660×575 | 760×660×760 | 760×875×760 | 760×875×760 | 760×875×760 |
| | Net / Gross weight | kg | 46/48 | 52/54 | 58/61 | 71/74 | 83/87 | 84/89 | 94/98 |
| | | lbs | 101/106 | 115/119 | 128/134 | 157/163 | 183/192 | 185/196 | 207/216 |
| Refrigerant | Type | | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| | Charging | oz | 70.55 | 93.48 | 95.24 | 123.46 | 126.99 | 148.15 | 178.13 |
| Refrigerant pipe | Liquid side | in | Φ3/8 | Φ3/8 | Φ3/8 | Φ3/8 | Φ3/8 | Φ3/8 | Φ3/8 |
| | Gas side | in | Φ3/4 | Φ3/4 | Φ3/4 | Φ3/4 | Φ3/4 | Φ7/8 | Φ7/8 |
| | Max. refrigerant pipe length | ft | 50 | 50 | 50 | 50 | 66 | 66 | 66 |
| | Max. difference in level | ft | 26 | 26 | 26 | 26 | 33 | 33 | 33 |
| Design pressure | | MPa | 4.0/1.2 | 4.0/1.2 | 4.0/1.2 | 4.0/1.2 | 4.0/1.2 | 4.0/1.2 | 4.0/1.2 |
| Max pressure | | MPa | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 |
| Operation temp range | Cooling | ℉ | 64-109 | 64-109 | 64-109 | 64-109 | 64-109 | 64-109 | 64-109 |