

AIR CONDENSERS

VERSION WITH AXIAL FANS



CRS 13 + FV



CR 11

CR... - CRS... - CRU... Series

1 refrigerant circuit - capacities from 6 to 99 kW

Packaged air condensers with axial fans for external installation, especially designed for reducing the noise level in the environment

Standard version provided with axial fans at horizontal air flow

The following versions are available:

CR... standard (6-pole axial fans)

CRS... silenced (6/8-pole axial fans)

CRU... ultra silenced (6/8-pole axial fans)

CR...K standard suitable for R407C ecological gas (6-pole axial fans)

CRS...K silenced suitable for R407C ecological gas (6/8-pole axial fans)

CRU...K ultra silenced suitable for R407C ecological gas (6/8-pole axial fans)

Made up of:

Panels completely made off in embossed aluminium plate to allow maximum resistance to corrosion. They are supplied complete with moving protection on curves side and on connector block/collectors side.

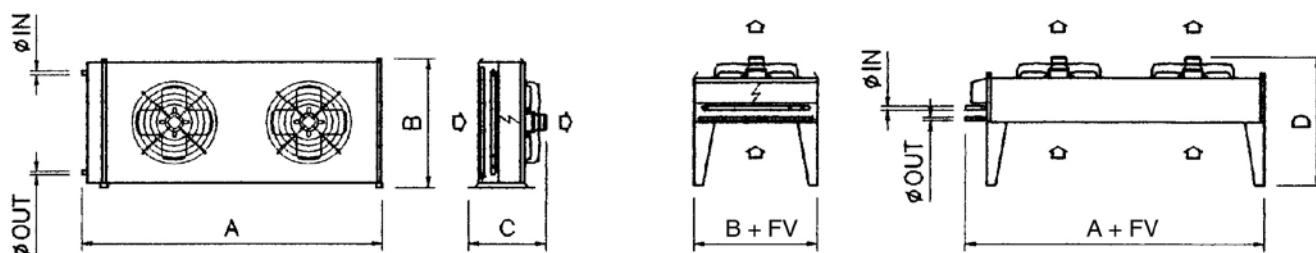
Fans of axial type with external rotor, low rpm, heating protection, low sound level blades with wing profile and protection grid.

Heat exchange coil manufactured with copper pipes and aluminium fins with possibility of special anti corrosive treatments (to be required when ordering).

Power supply 230V/1Ph/50Hz or 400V/3Ph/50Hz depending on the model.

Accessories

| | |
|----|---|
| BW | Low temperature operation down to -40 °C |
| C2 | 2 circuits coil |
| CV | Fans wiring |
| FV | Kit of supports for vertical air flow |
| IM | Seawood packing |
| RG | Electronic and modulating fan speed regulation |
| RM | Epoxy coating of condensing coil for sea environments |
| RR | Condensing coil with copper/copper fins |



STANDARD VERSION

| MODEL | CR... | 8 | 11 | 14 | 18 | 27 | 30 | 36 | 46 | 49 | 53 | 59 | 71 | 90 | 97 |
|---------------------------------|-------------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|--------|--------|--------|
| Capacity with R22 1) | kW | 7,6 | 10,7 | 14,0 | 17,4 | 25,9 | 28,8 | 35 | 44,3 | 47,9 | 51,6 | 57,8 | 70 | 88,6 | 95,6 |
| Capacity with R407C 1) | kW | 6,5 | 9,2 | 12 | 14,9 | 22,2 | 24,7 | 29,9 | 38 | 41,1 | 44,2 | 49,4 | 59,9 | 76 | 82 |
| Axial fans | | | | | | | | | | | | | | | |
| Quantity | n | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| Total air flow | l/s | 714 | 639 | 1.389 | 1.278 | 2.083 | 2.042 | 2.944 | 2.889 | 2.722 | 4.167 | 4.083 | 5.889 | 5.778 | 5.445 |
| Total air flow | m ³ /h | 2.570 | 2.300 | 5.000 | 4.600 | 7.500 | 7.350 | 10.600 | 10.400 | 9.800 | 15.000 | 14.700 | 21.200 | 20.800 | 19.600 |
| Diameter | mm | 350 | 350 | 350 | 350 | 500 | 500 | 630 | 630 | 630 | 500 | 500 | 630 | 630 | 630 |
| Rotation speed | rpm | 1.400 | 1.400 | 1.400 | 1.400 | 1.210 | 1.210 | 900 | 900 | 900 | 1.210 | 1.210 | 900 | 900 | 900 |
| Motors power | kW | 0,2 | 0,2 | 0,4 | 0,4 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 1,5 | 1,5 | 1,6 | 1,6 | 1,6 |
| Nominal absorbed current | A | 0,96 | 0,96 | 1,92 | 1,92 | 3,4 | 3,4 | 3,5 | 3,5 | 3,5 | 6,8 | 6,8 | 7 | 7 | 7 |
| Sound pressure level 2) | dB(A) | 45 | 45 | 48 | 48 | 44 | 44 | 46 | 46 | 46 | 47 | 47 | 49 | 49 | 49 |
| Dimensions | | | | | | | | | | | | | | | |
| A | mm | 764 | 764 | 1.220 | 1.220 | 1.175 | 1.175 | 1.325 | 1.325 | 1.325 | 2.125 | 2.125 | 2.425 | 2.425 | 2.425 |
| A + FV | mm | 808 | 808 | 1.258 | 1.258 | 1.175 | 1.175 | 1.325 | 1.325 | 1.325 | 2.125 | 2.125 | 2.425 | 2.425 | 2.425 |
| B | mm | 410 | 410 | 410 | 410 | 797 | 797 | 1.098 | 1.098 | 1.098 | 797 | 797 | 1.098 | 1.098 | 1.098 |
| B + FV | mm | 505 | 505 | 505 | 505 | 797 | 797 | 1.098 | 1.098 | 1.098 | 797 | 797 | 1.098 | 1.098 | 1.098 |
| C | mm | 314 | 314 | 314 | 314 | 510 | 510 | 630 | 630 | 630 | 510 | 510 | 630 | 630 | 630 |
| D | mm | 534 | 534 | 534 | 534 | 895 | 895 | 1.020 | 1.020 | 1.020 | 895 | 895 | 1.020 | 1.020 | 1.020 |
| Ø In / Ø Out | mm / mm | 16/16 | 16/16 | 18/16 | 18/16 | 22/16 | 28/16 | 28/22 | 28/22 | 35/28 | 35/28 | 35/28 | 35/28 | 42/28 | 42/28 |
| Weight | kg | 13 | 16 | 22 | 24 | 45 | 50 | 74 | 79 | 94 | 78 | 87 | 132 | 145 | 176 |
| Power supply | | | | | | | | | | | | | | | |
| 220 V / 1 Ph / 50 Hz + T | | | | | | | | | | | | | | | |

Operation limits: external air temperature from 15 to 42°C

- 1) Considering 16 °C of difference between inlet coil air temperature and condensing temperature
2) Measured at 10 m in open field (ISO 3746)

SILENCED VERSION

| MODEL | CRS... | 7 | 10 | 13 | 22 | 25 | 29 | 35 | 42 | 57 | 67 | 85 | 99 |
|---------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| Capacity with R22 1) | kW | 7,3 | 10,8 | 12,7 | 20,5 | 24,2 | 27,8 | 33,7 | 41 | 55,5 | 65,5 | 83,3 | 98,3 |
| Capacity with R407C 1) | kW | 6,2 | 9,2 | 10,9 | 17,5 | 20,7 | 23,9 | 29 | 35,1 | 47,6 | 56,3 | 71,7 | 84,7 |
| Axial fans | | | | | | | | | | | | | |
| Quantity | n | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 |
| Total air flow | l/s | 389 | 889 | 806 | 1583 | 1444 | 1861 | 1667 | 3167 | 3722 | 3611 | 5556 | 5417 |
| Total air flow | m ³ /h | 1.400 | 3.200 | 2.900 | 5.700 | 5.200 | 6.700 | 6.000 | 11.400 | 13.400 | 13.000 | 20.000 | 19.500 |
| Diameter | mm | 350 | 350 | 350 | 500 | 500 | 630 | 630 | 500 | 630 | 630 | 630 | 630 |
| Rotation speed | rpm | 945 | 945 | 945 | 890 | 890 | 650 | 650 | 890 | 650 | 650 | 650 | 650 |
| Motors power | kW | 0,1 | 0,2 | 0,2 | 0,3 | 0,3 | 0,4 | 0,4 | 0,6 | 0,8 | 0,8 | 1,2 | 1,2 |
| Nominal absorbed current | A | 0,37 | 0,74 | 0,74 | 1,3 | 1,3 | 1,8 | 1,8 | 2,6 | 3,6 | 3,6 | 5,4 | 5,4 |
| Sound pressure level 2) | dB(A) | 33 | 36 | 36 | 34 | 34 | 37 | 37 | 37 | 40 | 40 | 42 | 42 |
| Dimensions | | | | | | | | | | | | | |
| A | mm | 764 | 1.220 | 1.220 | 1.175 | 1.175 | 1.325 | 1.325 | 2.125 | 2.425 | 2.425 | 3.525 | 3.525 |
| A + FV | mm | 808 | 1.258 | 1.258 | 1.175 | 1.175 | 1.325 | 1.325 | 2.125 | 2.425 | 2.425 | 3.525 | 3.525 |
| B | mm | 410 | 410 | 410 | 797 | 797 | 1.098 | 1.098 | 797 | 1.098 | 1.098 | 1.098 | 1.098 |
| B + FV | mm | 505 | 505 | 505 | 797 | 797 | 1.098 | 1.098 | 797 | 1.098 | 1.098 | 1.098 | 1.098 |
| C | mm | 314 | 314 | 314 | 510 | 510 | 630 | 630 | 510 | 630 | 630 | 630 | 630 |
| D | mm | 534 | 534 | 534 | 895 | 895 | 1.020 | 1.020 | 895 | 1.020 | 1.020 | 1.020 | 1.020 |
| Ø In / Ø Out | mm / mm | 16/16 | 18/16 | 18/16 | 22/16 | 28/16 | 28/22 | 28/22 | 35/28 | 35/28 | 42/28 | 42/28 | 54/35 |
| Weight | kg | 13 | 22 | 24 | 45 | 50 | 74 | 79 | 78 | 132 | 145 | 191 | 205 |
| Power supply | | | | | | | | | | | | | |
| 220 V / 1 Ph / 50 Hz + T | | | | | | | | | | | | | |

Operation limits: external air temperature from 15 to 42°C

- 1) Considering 16 °C of difference between inlet coil air temperature and condensing temperature
2) Measured at 10 m in open field (ISO 3746)

ULTRASILENCED VERSION

| MODEL | CRU... | 18 | 20 | 23 | 28 | 32 | 43 | 51 | 68 | 74 | 87 | 98 | |
|---------------------------------|-------------------|-------|-------|---------------------------------|-------|-------|-------|---------------------------------|--------|---------------------------------|--------|--------|--|
| Capacity with R22 1) | kW | 16,3 | 18,7 | 21,8 | 24,6 | 32,6 | 43,6 | 49,2 | 65,3 | 73,9 | 87,1 | 98,5 | |
| Capacity with R407C 1) | kW | 13,9 | 16 | 18,6 | 21,2 | 27,9 | 37,5 | 42,3 | 56,3 | 63,7 | 75 | 85 | |
| Axial fans | | | | | | | | | | | | | |
| Quantity | n | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | |
| Total air flow | l/s | 1.111 | 1.444 | 1.319 | 1.222 | 2.222 | 2.639 | 2.445 | 3.958 | 3.667 | 5.278 | 4.889 | |
| Total air flow | m ³ /h | 4.000 | 5.200 | 4.750 | 4.400 | 8.000 | 9.500 | 8.800 | 14.250 | 13.200 | 19.000 | 17.600 | |
| Diameter | mm | 500 | 500 | 630 | 630 | 500 | 630 | 630 | 630 | 630 | 630 | 630 | |
| Rotation speed | rpm | 650 | 890 | 430 | 430 | 650 | 430 | 430 | 430 | 430 | 430 | 430 | |
| Motors power | kW | 0,1 | 0,3 | 0,1 | 0,1 | 0,3 | 0,3 | 0,3 | 0,4 | 0,4 | 0,5 | 0,5 | |
| Nominal absorbed current | A | 0,7 | 1,3 | 0,36 | 0,36 | 1,4 | 0,72 | 0,72 | 1,08 | 1,08 | 1,44 | 1,44 | |
| Sound pressure level 2) | dB(A) | 25 | 25 | 29 | 29 | 28 | 32 | 32 | 34 | 34 | 35 | 35 | |
| Dimensions | | | | | | | | | | | | | |
| A | mm | 1.175 | 1.175 | 1.325 | 1.325 | 2.125 | 2.425 | 2.425 | 3.525 | 3.525 | 4.625 | 4.625 | |
| A + FV | mm | 1.175 | 1.175 | 1.325 | 1.325 | 2.125 | 2.425 | 2.425 | 3.525 | 3.525 | 4.625 | 4.625 | |
| B | mm | 797 | 797 | 1.098 | 1.098 | 797 | 1.098 | 1.098 | 1.098 | 1.098 | 1.098 | 1.098 | |
| B + FV | mm | 797 | 797 | 1.098 | 1.098 | 797 | 1.098 | 1.098 | 1.098 | 1.098 | 1.098 | 1.098 | |
| C | mm | 510 | 510 | 630 | 630 | 510 | 630 | 630 | 630 | 630 | 630 | 630 | |
| D | mm | 895 | 895 | 1.020 | 1.020 | 895 | 1.020 | 1.020 | 1.020 | 1.020 | 1.020 | 1.020 | |
| Ø In / Ø Out | mm / mm | 22/16 | 28/16 | 28/22 | 28/22 | 35/28 | 35/28 | 42/28 | 42/28 | 54/35 | 54/42 | 54/42 | |
| Weight | kg | 45 | 50 | 74 | 79 | 78 | 132 | 145 | 191 | 205 | 256 | 273 | |
| Power supply | | | | | | | | | | | | | |
| 220 V / 1 Ph / 50 Hz + T | | | | 400 V / 3 Ph / 50 Hz + T | | | | 220 V / 1 Ph / 50 Hz + T | | 400 V / 3 Ph / 50 Hz + T | | | |

Operation limits: external air temperature from 15 to 42°C

- 1) Considering 16 °C of difference between inlet coil air temperature and condensing temperature
2) Measured at 10 m in open field (ISO 3746)