

**Refrigerant / Coolant**

- Can be used with all HFC refrigerants. Performance data can be found with Küba Select (Product Selection Software)
- For water / brine circulation choose your Air Cooler with Küba Select
- For CO₂ operation and for NH₃ applications immediate selection with Küba Select is possible – or ask our technical staff in sales



The performance data in the Q_v Charts refer to the combination of materials: tubes, Cu / fins, Al.

Küba **Blue Line**
Aircoolers

Fresh solutions.



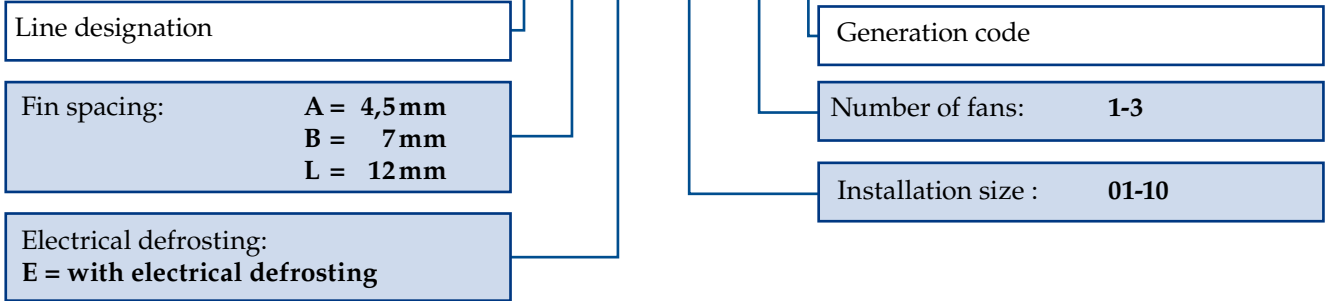
Technical Data (R404A)

SGA...C



Nomenclature

Standard



| Model | Rating Q _e at 50 Hz | | Surface m ² | Air flow m ³ /h | Air throw m | Tube volume dm ³ | Connections | | | Fans (operating values at 50 Hz) | | | | |
|----------|-----------------------------------|------------------------------------|---------------------------|-------------------------------|----------------|--------------------------------|---------------|----------------|---------------|-------------------------------------|---------------------------------|------|------|------|
| | t ₁₁ ±0 °C DT1 = 8K | t ₁₁ -18 °C DT1 = 7K | | | | | Inlet Ø mm | Outlet Ø mm | Blade Ø mm | Type of current | min ⁻¹ | W | A | |
| SGA 011C | ⊕ | 1,00 | 0,79 | 7,3 | 620 | 7 | 1,3 | 10 | 15 | 250 | 230±10% V-1~ 50/60 Hz | 1301 | 32 | 0,15 |
| SGA 021C | ⊕ | 1,23 | 0,97 | 9,7 | 520 | 7 | 1,3 | 10 | 15 | 250 | 1301 | 32 | 0,15 | |
| SGA 031C | ⊕ | 1,98 | 1,57 | 12,5 | 1060 | 10 | 2,1 | 10 | 15 | 300 | 1295 | 86 | 0,38 | |
| SGA 041C | ⊕ | 2,19 | 1,73 | 16,6 | 970 | 10 | 2,8 | 10 | 15 | 300 | 1295 | 86 | 0,38 | |
| SGA 051C | ⊕ | 3,45 | 2,74 | 23,1 | 1620 | 13 | 3,8 | 10 | 22 | 400 | 1307 | 105 | 0,46 | |
| SGA 061C | ⊕ | 3,81 | 3,03 | 28,7 | 1600 | 13 | 4,8 | 10 | 22 | 400 | 1307 | 105 | 0,46 | |
| SGA 071C | ⊕ | 5,69 | 4,52 | 34,5 | 2610 | 19 | 5,7 | 10* | 22 | 400 | 1362 | 205 | 0,90 | |
| SGA 081C | ⊕ | 6,73 | 5,34 | 51,5 | 2640 | 19 | 8,8 | 10* | 28 | 400 | 1362 | 205 | 0,90 | |
| SGA 091C | ⊕ | 9,42 | 7,49 | 61,8 | 4010 | 23 | 10,6 | 10* | 28 | 500 | 230/400 ±10%V-3~ 50/60 Hz | 1417 | 360 | 0,86 |
| SGA 101C | ⊕ | 10,80 | 8,57 | 82,3 | 4300 | 23 | 13,6 | 12* | 35 | 500 | 1417 | 360 | 0,86 | |
| SGA 012C | ⊕⊕ | 1,99 | 1,57 | 14,5 | 1240 | 11 | 2,3 | 10 | 15 | 250 | 1301 | 32 | 0,15 | |
| SGA 022C | ⊕⊕ | 2,45 | 1,94 | 19,2 | 1040 | 11 | 3,1 | 10 | 18 | 250 | 1301 | 32 | 0,15 | |
| SGA 032C | ⊕⊕ | 3,96 | 3,14 | 24,6 | 2120 | 14 | 3,9 | 10 | 18 | 300 | 1295 | 86 | 0,38 | |
| SGA 042C | ⊕⊕ | 4,38 | 3,47 | 33,0 | 1940 | 14 | 5,3 | 10 | 22 | 300 | 1295 | 86 | 0,38 | |
| SGA 052C | ⊕⊕ | 6,91 | 5,48 | 45,7 | 3240 | 18 | 7,6 | 10* | 28 | 400 | 1307 | 105 | 0,46 | |
| SGA 062C | ⊕⊕ | 7,62 | 6,05 | 57,1 | 3200 | 18 | 9,1 | 12* | 28 | 400 | 1307 | 105 | 0,46 | |
| SGA 072C | ⊕⊕ | 10,1 | 9,02 | 68,5 | 5220 | 26 | 10,8 | 12* | 35 | 400 | 1362 | 205 | 0,90 | |
| SGA 082C | ⊕⊕ | 12,5 | 10,68 | 103,0 | 5280 | 26 | 16,6 | 15* | 35 | 400 | 1362 | 205 | 0,90 | |
| SGA 092C | ⊕⊕ | 18,86 | 14,98 | 123,0 | 8020 | 33 | 19,8 | 15* | 35 | 500 | 230/400 ±10%V-3~ 50/60 Hz | 1417 | 360 | 0,86 |
| SGA 102C | ⊕⊕ | 21,60 | 17,16 | 164,0 | 8600 | 33 | 26,1 | 15* | 42 | 500 | 1417 | 360 | 0,86 | |
| SGA 013C | ⊕⊕⊕ | 2,99 | 2,36 | 21,5 | 1860 | 13 | 3,4 | 10 | 15 | 250 | 1301 | 32 | 0,15 | |
| SGA 023C | ⊕⊕⊕ | 3,68 | 2,92 | 28,7 | 1560 | 13 | 4,5 | 10 | 22 | 250 | 1301 | 32 | 0,15 | |
| SGA 033C | ⊕⊕⊕ | 5,94 | 4,70 | 37,0 | 3180 | 17 | 5,8 | 10 | 28 | 300 | 1295 | 86 | 0,38 | |
| SGA 043C | ⊕⊕⊕ | 6,57 | 5,20 | 49,2 | 2910 | 17 | 8,1 | 10* | 28 | 300 | 1295 | 86 | 0,38 | |
| SGA 053C | ⊕⊕⊕ | 10,35 | 8,21 | 68,3 | 4860 | 22 | 11,1 | 12* | 35 | 400 | 1307 | 105 | 0,46 | |
| SGA 063C | ⊕⊕⊕ | 11,42 | 9,07 | 85,5 | 4800 | 22 | 13,1 | 12* | 35 | 400 | 1307 | 105 | 0,46 | |
| SGA 073C | ⊕⊕⊕ | 15,2 | 12,1 | 103,0 | 7830 | 32 | 16,2 | 15* | 35 | 400 | 1362 | 205 | 0,90 | |
| SGA 083C | ⊕⊕⊕ | 18,9 | 14,9 | 154,0 | 7920 | 32 | 24,6 | 22* | 42 | 400 | 1362 | 205 | 0,90 | |
| SGA 093C | ⊕⊕⊕ | 28,29 | 22,47 | 184,0 | 12000 | 40 | 29,6 | 22* | 54 | 500 | 230/400 ±10%V-3~ 50/60 Hz | 1417 | 360 | 0,86 |
| SGA 103C | ⊕⊕⊕ | 32,41 | 25,75 | 246,0 | 12900 | 40 | 38,5 | 22* | 54 | 500 | 1417 | 360 | 0,86 | |

* Multiple injections with direct expansion using Küba CAL® distributors. The cooler rating at 60 Hz is 10% higher on average due to the higher speed and higher air flow.



Technical Data (R404A)

SGB...C



| Model | | Rating Q ₀ at 50 Hz | | Surface | Air flow | Air throw | Tube volume | Connections | | | Fans (operating values at 50 Hz) | | | |
|-----------------|-----------|-----------------------------------|------------|-------------|-------------|-----------|-------------|-------------|-----------|------------|-------------------------------------|-------------------|------------|-------------|
| | | t ₁₁ ±0 °C DT1 = 8K | | | | | | Inlet | Outlet | Blade | Type of current | min ⁻¹ | W | A |
| | | kW | kW | | | | | | | | | | | |
| SGB 011C | ⊕ | 0,91 | 0,72 | 4,9 | 700 | 8 | 1,3 | 10 | 15 | 250 | 230±10% V-1~ 50/60 Hz | 1301 | 32 | 0,15 |
| SGB 021C | ⊕ | 1,13 | 0,90 | 6,5 | 640 | 8 | 1,3 | 10 | 15 | 250 | | 1301 | 32 | 0,15 |
| SGB 031C | ⊕ | 1,74 | 1,37 | 8,2 | 1300 | 12 | 2,1 | 10 | 15 | 300 | 230±10% V-1~ 50/60 Hz | 1295 | 86 | 0,38 |
| SGB 041C | ⊕ | 2,00 | 1,59 | 11,1 | 1180 | 12 | 2,8 | 10 | 15 | 300 | | 1295 | 86 | 0,38 |
| SGB 051C | ⊕ | 2,91 | 2,31 | 15,2 | 1770 | 14 | 3,8 | 10 | 22 | 400 | 230±10% V-1~ 50/60 Hz | 1307 | 105 | 0,46 |
| SGB 061C | ⊕ | 3,34 | 2,65 | 19,1 | 1760 | 14 | 4,8 | 10 | 22 | 400 | | 1307 | 105 | 0,46 |
| SGB 071C | ⊕ | 4,3 | 3,4 | 22,8 | 2460 | 20 | 5,7 | 10* | 22 | 400 | 230/400 ±10%V-3~ 50/60 Hz | 1362 | 205 | 0,90 |
| SGB 081C | ⊕ | 5,3 | 4,3 | 34,1 | 2770 | 20 | 8,8 | 10* | 28 | 400 | | 1362 | 205 | 0,90 |
| SGB 091C | ⊕ | 8,42 | 6,69 | 41,0 | 4530 | 26 | 10,6 | 10* | 28 | 500 | 230/400 ±10%V-3~ 50/60 Hz | 1417 | 360 | 0,86 |
| SGB 101C | ⊕ | 9,50 | 7,54 | 54,5 | 4660 | 26 | 13,6 | 12* | 35 | 500 | | 1417 | 360 | 0,86 |
| SGB 012C | ⊕⊕ | 1,82 | 1,44 | 9,5 | 1400 | 12 | 2,3 | 10 | 15 | 250 | 230±10% V-1~ 50/60 Hz | 1301 | 32 | 0,15 |
| SGB 022C | ⊕⊕ | 2,27 | 1,79 | 12,7 | 1280 | 12 | 3,1 | 10 | 18 | 250 | | 1301 | 32 | 0,15 |
| SGB 032C | ⊕⊕ | 3,47 | 2,75 | 16,3 | 2600 | 17 | 3,9 | 10 | 18 | 300 | 230±10% V-1~ 50/60 Hz | 1295 | 86 | 0,38 |
| SGB 042C | ⊕⊕ | 4,00 | 3,17 | 21,7 | 2360 | 17 | 5,3 | 10 | 22 | 300 | | 1295 | 86 | 0,38 |
| SGB 052C | ⊕⊕ | 5,82 | 4,61 | 30,2 | 3540 | 19 | 7,6 | 10* | 28 | 400 | 230±10% V-1~ 50/60 Hz | 1307 | 105 | 0,46 |
| SGB 062C | ⊕⊕ | 6,68 | 5,30 | 37,7 | 3520 | 19 | 9,1 | 12* | 28 | 400 | | 1307 | 105 | 0,46 |
| SGB 072C | ⊕⊕ | 8,4 | 6,6 | 45,2 | 4920 | 28 | 10,6 | 12* | 35 | 400 | 230/400 ±10%V-3~ 50/60 Hz | 1362 | 205 | 0,90 |
| SGB 082C | ⊕⊕ | 10,6 | 8,5 | 67,7 | 5540 | 28 | 16,6 | 15* | 35 | 400 | | 1362 | 205 | 0,90 |
| SGB 092C | ⊕⊕ | 16,86 | 13,37 | 81,2 | 9060 | 37 | 19,8 | 15* | 35 | 500 | 230/400 ±10%V-3~ 50/60 Hz | 1417 | 360 | 0,86 |
| SGB 102C | ⊕⊕ | 19,01 | 15,07 | 108,0 | 9320 | 37 | 26,1 | 15* | 42 | 500 | | 1417 | 360 | 0,86 |
| SGB 013C | ⊕⊕⊕ | 2,73 | 2,16 | 14,2 | 2100 | 15 | 3,4 | 10 | 15 | 250 | 230±10% V-1~ 50/60 Hz | 1301 | 32 | 0,15 |
| SGB 023C | ⊕⊕⊕ | 3,40 | 2,69 | 19,1 | 1920 | 15 | 4,5 | 10 | 22 | 250 | | 1301 | 32 | 0,15 |
| SGB 033C | ⊕⊕⊕ | 5,21 | 4,12 | 24,3 | 3900 | 21 | 5,8 | 10 | 28 | 300 | 230±10% V-1~ 50/60 Hz | 1295 | 86 | 0,38 |
| SGB 043C | ⊕⊕⊕ | 6,00 | 4,76 | 32,5 | 3690 | 21 | 8,1 | 10* | 28 | 300 | | 1295 | 86 | 0,38 |
| SGB 053C | ⊕⊕⊕ | 8,73 | 6,92 | 45,1 | 5310 | 24 | 11,1 | 12* | 35 | 400 | 230±10% V-1~ 50/60 Hz | 1307 | 105 | 0,46 |
| SGB 063C | ⊕⊕⊕ | 10,02 | 7,95 | 56,5 | 5280 | 24 | 13,1 | 12* | 35 | 400 | | 1307 | 105 | 0,46 |
| SGB 073C | ⊕⊕⊕ | 12,6 | 10,1 | 67,6 | 7380 | 34 | 16,2 | 15* | 35 | 400 | 230/400 ±10%V-3~ 50/60 Hz | 1362 | 205 | 0,90 |
| SGB 083C | ⊕⊕⊕ | 16,1 | 12,7 | 101,0 | 8310 | 34 | 24,5 | 22* | 42 | 400 | | 1362 | 205 | 0,90 |
| SGB 093C | ⊕⊕⊕ | 25,29 | 20,07 | 122,0 | 13600 | 45 | 29,6 | 22* | 54 | 500 | 230/400 ±10%V-3~ 50/60 Hz | 1417 | 360 | 0,86 |
| SGB 103C | ⊕⊕⊕ | 28,50 | 22,61 | 162,0 | 14000 | 45 | 38,5 | 22* | 54 | 500 | | 1417 | 360 | 0,86 |

* Multiple injections with direct expansion using Küba CAL® distributors. The cooler rating at 60 Hz is 10% higher on average due to the higher speed and higher air flow.

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Dimensional Drawings, Electric Defrosting, Weights

| Size | Dimensions [mm] | | | | | | | | | | | | | | | | Electrical Defrosting | | | Net weight | | |
|------|-----------------|------|-----|-----|----------------|----------------|----------------|-----|-----|-----|--------|-----|-----|-----------------|-----------------|-----------------|-----------------------|------|-------|------------|-----|-----|
| | H | B | T | L | E ₁ | E ₂ | E ₃ | F | A | W | W Hood | ØG | GA | GE ₁ | GE ₂ | GE ₃ | Coil | Tray | Total | SGA | SGB | SGL |
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | kW | kW | kW | kg | kg | kg |
| 011C | 360 | 565 | 420 | 345 | 380 | - | - | 93 | 80 | 200 | 290 | 265 | 160 | 283 | - | - | 0,77 | 0,35 | 1,16 | 12 | 11 | - |
| 021C | 360 | 565 | 420 | 345 | 380 | - | - | 93 | 80 | 200 | 290 | 265 | 160 | 283 | - | - | 0,77 | 0,35 | 1,16 | 13 | 12 | - |
| 031C | 460 | 665 | 440 | 345 | 480 | - | - | 93 | 100 | 200 | 340 | 321 | 210 | 333 | - | - | 0,96 | 0,42 | 1,38 | 18 | 17 | - |
| 041C | 460 | 665 | 440 | 345 | 480 | - | - | 93 | 100 | 200 | 340 | 321 | 210 | 333 | - | - | 0,96 | 0,42 | 1,38 | 20 | 19 | - |
| 051C | 560 | 815 | 570 | 415 | 530 | - | - | 143 | 160 | 300 | 430 | 419 | 260 | 408 | - | - | 1,44 | 0,24 | 1,68 | 30 | 29 | 28 |
| 061C | 560 | 815 | 570 | 415 | 530 | - | - | 143 | 160 | 300 | 430 | 419 | 260 | 408 | - | - | 1,61 | 0,24 | 1,85 | 33 | 32 | 30 |
| 071C | 560 | 915 | 640 | 495 | 630 | - | - | 143 | 150 | 300 | 430 | 419 | 260 | 458 | - | - | 1,73 | 0,29 | 2,02 | 41 | 39 | 37 |
| 081C | 560 | 1065 | 640 | 495 | 780 | - | - | 143 | 150 | 300 | 430 | 419 | 260 | 533 | - | - | 2,18 | 0,35 | 2,53 | 53 | 51 | 49 |
| 091C | 660 | 1065 | 650 | 495 | 780 | - | - | 143 | 160 | 400 | 500 | 525 | 320 | 533 | - | - | 2,90 | 0,35 | 3,25 | 62 | 59 | 56 |
| 101C | 660 | 1315 | 650 | 495 | 1030 | - | - | 143 | 160 | 400 | 500 | 525 | 320 | 658 | - | - | 3,68 | 0,44 | 4,12 | 71 | 68 | 65 |
| 012C | 360 | 1015 | 420 | 345 | 730 | 365 | - | 143 | 80 | 200 | 290 | 265 | 160 | 690 | 325 | - | 1,38 | 0,69 | 2,07 | 23 | 21 | 19 |
| 022C | 360 | 1015 | 420 | 345 | 730 | 365 | - | 143 | 80 | 200 | 290 | 265 | 160 | 690 | 325 | - | 1,38 | 0,69 | 2,07 | 24 | 22 | 20 |
| 032C | 460 | 1215 | 440 | 345 | 930 | 465 | - | 143 | 100 | 200 | 340 | 321 | 210 | 840 | 375 | - | 1,72 | 0,77 | 2,49 | 35 | 33 | 31 |
| 042C | 460 | 1215 | 440 | 345 | 930 | 465 | - | 143 | 100 | 200 | 340 | 321 | 210 | 840 | 375 | - | 1,72 | 0,77 | 2,49 | 39 | 37 | 35 |
| 052C | 560 | 1375 | 570 | 415 | 1030 | 515 | - | 173 | 160 | 300 | 430 | 419 | 260 | 945 | 430 | - | 2,64 | 0,44 | 3,08 | 58 | 55 | 53 |
| 062C | 560 | 1375 | 570 | 415 | 1030 | 515 | - | 173 | 160 | 300 | 430 | 419 | 260 | 945 | 430 | - | 2,64 | 0,44 | 3,08 | 64 | 61 | 58 |
| 072C | 560 | 1575 | 640 | 495 | 1230 | 615 | - | 173 | 150 | 300 | 430 | 419 | 260 | 1095 | 480 | - | 3,11 | 0,52 | 3,63 | 80 | 76 | 72 |
| 082C | 560 | 1875 | 640 | 495 | 1530 | 765 | - | 173 | 150 | 300 | 430 | 419 | 260 | 1320 | 555 | - | 3,90 | 0,65 | 4,55 | 104 | 100 | 96 |
| 092C | 660 | 1875 | 650 | 495 | 1530 | 765 | - | 173 | 160 | 400 | 500 | 525 | 320 | 1320 | 555 | - | 6,50 | 0,65 | 7,15 | 120 | 114 | 108 |
| 102C | 660 | 2375 | 650 | 495 | 2030 | 1015 | - | 173 | 160 | 400 | 500 | 525 | 320 | 1695 | 680 | - | 8,42 | 0,84 | 9,27 | 137 | 130 | 123 |
| 013C | 360 | 1365 | 420 | 345 | 1080 | 365 | 715 | 143 | 80 | 200 | 290 | 265 | 160 | 1040 | 325 | 683 | 1,84 | 0,92 | 2,76 | 34 | 31 | 28 |
| 023C | 360 | 1365 | 420 | 345 | 1080 | 365 | 715 | 143 | 80 | 200 | 290 | 265 | 160 | 1040 | 325 | 683 | 1,84 | 0,92 | 2,76 | 37 | 34 | 31 |
| 033C | 460 | 1665 | 440 | 345 | 1380 | 465 | 915 | 143 | 100 | 200 | 340 | 321 | 210 | 1290 | 375 | 833 | 2,42 | 1,21 | 3,63 | 51 | 48 | 45 |
| 043C | 460 | 1665 | 440 | 345 | 1380 | 465 | 915 | 143 | 100 | 200 | 340 | 321 | 210 | 1290 | 375 | 833 | 2,42 | 1,21 | 3,63 | 57 | 54 | 51 |
| 053C | 560 | 1875 | 570 | 415 | 1530 | 515 | 1015 | 173 | 160 | 300 | 430 | 419 | 260 | 1445 | 430 | 938 | 3,90 | 0,65 | 4,55 | 86 | 81 | 76 |
| 063C | 560 | 1875 | 570 | 415 | 1530 | 515 | 1015 | 173 | 160 | 300 | 430 | 419 | 260 | 1445 | 430 | 938 | 3,90 | 0,65 | 4,55 | 95 | 90 | 85 |
| 073C | 560 | 2175 | 640 | 495 | 1830 | 615 | 1215 | 173 | 150 | 300 | 430 | 419 | 260 | 1695 | 480 | 1088 | 4,47 | 0,75 | 5,22 | 118 | 111 | 104 |
| 083C | 560 | 2625 | 640 | 495 | 2280 | 765 | 1515 | 173 | 150 | 300 | 430 | 419 | 260 | 2070 | 555 | 1313 | 5,63 | 0,94 | 6,57 | 154 | 147 | 140 |
| 093C | 660 | 2625 | 650 | 495 | 2280 | 765 | 1515 | 173 | 160 | 400 | 500 | 525 | 320 | 2070 | 555 | 1313 | 9,37 | 0,94 | 10,32 | 180 | 170 | 160 |
| 103C | 660 | 3375 | 650 | 495 | 3030 | 1015 | 2015 | 173 | 160 | 400 | 500 | 525 | 320 | 2695 | 680 | 1688 | 12,09 | 1,82 | 13,92 | 240 | 228 | 216 |



The dimensions are only valid for the standard model design!
 Note the differences in dimension among versions and accessories.



Accessories

Air Hoses (on site procurement, not available from Küba)

Ventilation can be optimised with textile / PVC air hoses.

Applications

- Applications in work rooms and production areas
- Cooled goods that are sensitive to drafts (i.e. flowers, ripening cheeses)

Advantages

The air hoses make uniform air distribution possible at very low air speeds.

- Working in a draft-free environment yields low illness rates
- Maximum protection for sensitive cooled goods
- No condensation water: temperatures do not fall below the dew point because air can penetrate the woven material

Calculation hints

Please take the respective pressure drop for the cooler design into consideration.

