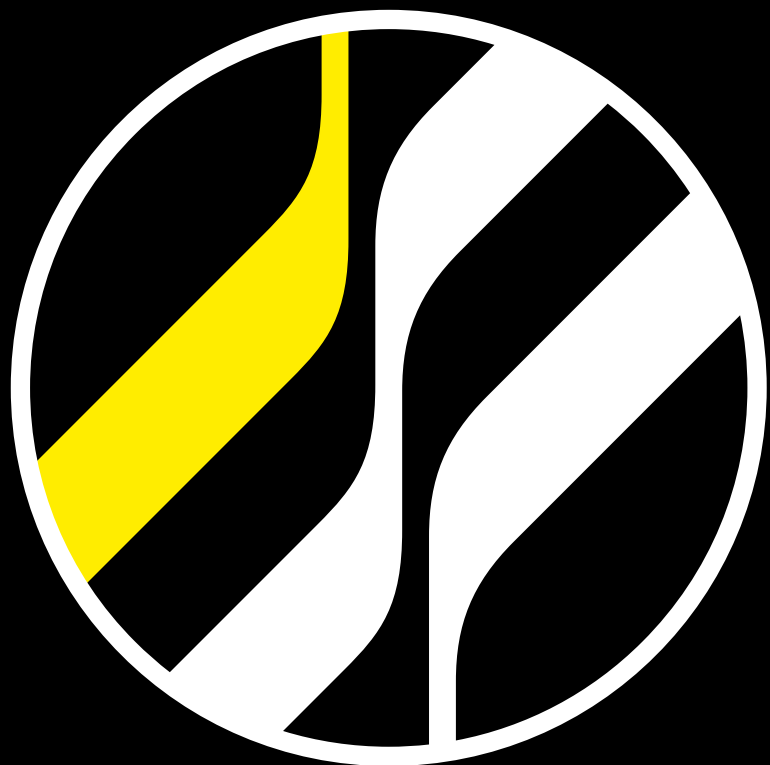


Küba market plus SP

# THE STANDARD FOR BASIC REFRIGERATION APPLICATIONS





# EXPERTS IN HEAT EXCHANGE – SINCE 1920

Welcome to Kelvion! Where Heat Exchange is our Business. We are one of the leading global manufacturers of heat exchangers and have been providing solutions for almost every industrial application imaginable since the 1920s, specializing in customized solutions suitable for extreme environmental conditions - as of 2015 under the name of Kelvion.

With one of the most extensive selections of heat exchangers in the world, we are a well-known partner in many industries, including transportation, energy, oil and gas, the heavy industry, chemical and marine as well as sugar, food and beverage and the HVAC and refrigeration technology sector. Our products include Compact Fin Heat Exchangers, Plate Heat Exchangers, Single Tube Heat Exchangers, Transformer Cooling Systems, Cooling Towers and Shell & Tube Heat Exchangers.

Our many years of experience and in-depth expertise have made us specialists in this field. Our heat exchangers are designed specifically to meet the needs of the respective machine or equipment system, ensuring outstanding energy efficiency and reliability in any market segment. This gives our customers a cutting-edge over their competitors while also reducing operating costs over the long term.

As your heat exchange partner, we understand that outstanding and reliable after-sales services are critical for you, our customer, and we work alongside with you in close partnership supporting you throughout the full life cycle of your plant and equipment to ensure lasting business success.

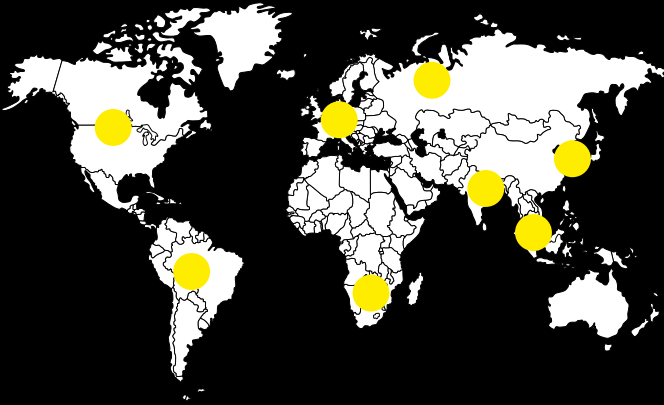
Kelvion – Experts in Heat Exchange.

## KELVION – A TRIBUTE TO LORD KELVIN (1824 - 1907)

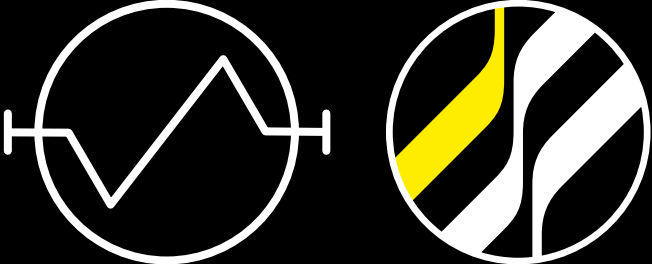


Lord Kelvin formulated the laws of thermodynamics and absolute units of temperature are stated in kelvin, in his honor.

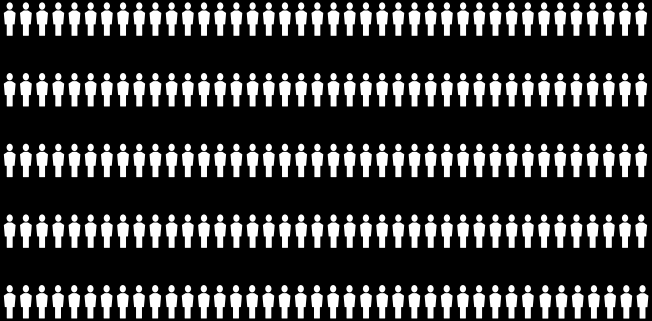
## 67 BRANCHES AND SALES PARTNERS WORLDWIDE



## OUR LOGO – INSPIRED FROM THE SCHEMATIC FOR HEAT EXCHANGER



## 5,000 EMPLOYEES WORLDWIDE



## YOUR MARKETS ARE OUR MARKETS

Chemicals

Food & Beverages

Heavy Industry

HVAC

Refrigeration

Marine

Oil & Gas

Power

Sugar

Transportation

## KELVION HAS A LONG HISTORY

**2015** With the new name, the former GEA Heat Exchangers is writing its own history as Kelvion.

**2014** GEA sells the Heat Exchangers Segment to Triton.

**2010** Reorganization of GEA's 9 Divisions into technologically distinct Segments. The largest segment is the Heat Exchangers Segment.

**1999** In April 1999, GEA was acquired by mg technologies AG

**1920** Foundation of GEA in Bochum by Otto Happel sen. (Born 1882)

Küba market plus SP

# THE STANDARD FOR BASIC REFRIGERATION APPLICATIONS



**Capacity range** (for SC2)

1.2 kW         52 kW

**Temperature range** (t<sub>L1</sub>)

-25°C         +10°C

**Type Designation Code**

| 1  | 2 | 3 | 4  | 5 | 6 |
|----|---|---|----|---|---|
| SP | A | E | 01 | 1 | D |

1 Model range designation

2 Fin spacing

3 Electric defrost

4 Size

5 Number of fans

6 Generation Code



Küba market plus SP

# BASIC VERSION

## CASING

- ▶ Aluminium, smooth
- ▶ High-quality powder coating
- ▶ papyrus white RAL 9010
- ▶ Food-safe
- ▶ Easy to clean
- ▶ Best corrosion protection
- ▶ Removable side pieces

## HEAT EXCHANGER

- ▶ Internal cleanliness acc. to DIN 8964
- ▶ Fin spacing: SPA.D: 4,5 mm, SPB.D: 7,0 mm
- ▶ Refrigerant distributor:  
SPA.D: Flow distributor / SPB.D: Küba-CAL®
- ▶ Tubing Cu-Special, Fins Al, End plates Al

## ELECTRIC DEFROST

- ▶ Wired-up, ready to connect in terminal box
- ▶ To prevent steam build-up and to accomplish heat exchange with almost no loss, the heaters are located in special expanded tube sleeves
- ▶ 230 V-1/400 V-3-Y
- ▶ With splash pan

## FAN UNIT

- ▶ Fans are wired to an internal terminal box:  
Ø 250 mm/Ø 300 mm/Ø 400 mm
- ▶ With built-in protector according to VDE provisions (Ø 500 mm: Led-out protector)
- ▶ Application range: RT: -30 °C to +50 °C
- ▶ Voltage:  
SP. 011 – 065D = 230 V ±10 %, V-1 50/60 Hz:  
Ø 250 mm, non-adjustable; Ø 300 mm, adjustable;  
Ø 400 mm, adjustable
- ▶ SP. 071 – 084D = 400 V ±10 %, V-3 50/60 Hz:  
Ø 500 mm, adjustable
- ▶ Index of protection  
SP. 011 – 024D = IP42  
SP. 031 – 065D = IP44  
SP. 071 – 084D = IP54
- ▶ Insulation class  
SP. 011 – 065D = Insulation class B  
SP. 071 – 084D = Insulation class F
- ▶ Operating values are the values of the built-in motor at +20 °C, with an unobstructed air flow and a dry surface, as required for the refrigeration load calculation

Please observe the manufacturer’s information!

## MOTOR LABEL DATA

| Type        |      | 50 Hz |     |      | 60 Hz |     |      |
|-------------|------|-------|-----|------|-------|-----|------|
|             | Ø mm | rpm   | W   | A    | rpm   | W   | A    |
| SP.01.-02.D | 250  | 1300  | 90  | 0,62 | 1550  | 80  | 0,55 |
| SP.03.-04.D | 300  | 1400  | 65  | 0,3  | 1500  | 90  | 0,4  |
| SP.05.-06.D | 400  | 1365  | 214 | 0,96 | 1630  | 270 | 1,2  |
| SP.07.-08.D | 500  | 1350  | 565 | 1,13 | 1450  | 830 | 1,5  |

Motor data per fanData provided by the manufacturer

TECHNICAL DATA SPA (E)

Küba market plus SP | Fin spacing 4.5 mm

| Type     | Rating Q <sub>o</sub> at<br>50 Hz, DT1, R404A |      | Cooling<br>surface | Air<br>flow | Air<br>throw<br>*** | Tube<br>volume | Connections |        | Sound<br><br>L <sub>WA</sub> | Fans (Operational values at 50 Hz) |                                |         |     |      |
|----------|-----------------------------------------------|------|--------------------|-------------|---------------------|----------------|-------------|--------|------------------------------|------------------------------------|--------------------------------|---------|-----|------|
|          | SC1                                           | SC2  |                    |             |                     |                | Inlet       | Outlet |                              | Blade                              | Current<br>230±10%<br>V-1 50Hz | Per fan |     |      |
|          | kW                                            | kW   | m²                 | m³/h        | m                   | dm³            | Ømm         | Ømm    | dB(A)                        | Ømm                                |                                | rpm     | W   | A    |
| SPA 011D | 2,4                                           | 1,7  | 6,9                | 820         | 4                   | 1,4            | 10          | 12     | 63                           | 1 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPA 021D | 2,7                                           | 1,8  | 9,1                | 760         | 4                   | 1,9            | 10          | 12     | 63                           | 1 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPA 031D | 3,9                                           | 2,7  | 10,3               | 1380        | 6                   | 2,1            | 10          | 18     | 70                           | 1 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPA 041D | 4,4                                           | 3,0  | 13,6               | 1300        | 5                   | 2,8            | 12*         | 22     | 70                           | 1 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPA 051D | 9,0                                           | 6,1  | 20,5               | 3020        | 8                   | 4,2            | 12*         | 28     | 77                           | 1 x 400                            | 230V -1                        | 1365    | 214 | 0,96 |
| SPA 061D | 10,1                                          | 6,8  | 30,6               | 2720        | 7                   | 6,3            | 12*         | 28     | 77                           | 1 x 400                            | 230V -1                        | 1365    | 214 | 0,96 |
| SPA 071D | 16,8                                          | 11,3 | 36,3               | 5800        | 17                  | 7,6            | 15*         | 35     | 83                           | 1 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPA 081D | 19,3                                          | 13,1 | 54,2               | 5270        | 16                  | 11,1           | 15*         | 35     | 83                           | 1 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPA 022D | 5,3                                           | 3,6  | 18,2               | 1520        | 6                   | 3,6            | 12*         | 22     | 66                           | 2 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPA 032D | 7,9                                           | 5,3  | 20,6               | 2760        | 8                   | 4,1            | 12*         | 28     | 73                           | 2 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPA 042D | 8,9                                           | 6,0  | 27,3               | 2600        | 7                   | 5,5            | 12*         | 28     | 73                           | 2 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPA 052D | 17,7                                          | 11,9 | 40,9               | 6040        | 12                  | 8,2            | 15*         | 35     | 80                           | 2 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPA 062D | 19,7                                          | 13,4 | 60,9               | 5440        | 11                  | 12,1           | 15*         | 35     | 80                           | 2 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPA 072D | 31,9                                          | 21,7 | 72,7               | 11600       | 22                  | 14,3           | 15*         | 42     | 86                           | 2 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPA 082D | 37,9                                          | 25,7 | 108,3              | 10540       | 21                  | 21,5           | 22*         | 42     | 86                           | 2 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPA 023D | 8,2                                           | 5,5  | 27,3               | 2280        | 8                   | 5,3            | 12*         | 28     | 68                           | 3 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPA 043D | 13,3                                          | 9,0  | 40,9               | 3900        | 10                  | 8              | 15*         | 35     | 75                           | 3 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPA 053D | 27,0                                          | 18,2 | 61,4               | 9060        | 15                  | 12             | 22*         | 42     | 82                           | 3 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPA 063D | 30,4                                          | 20,6 | 91,5               | 8160        | 13                  | 18             | 22*         | 42     | 82                           | 3 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPA 073D | 49,5                                          | 33,4 | 109,2              | 17400       | 26                  | 21,3           | 22*         | 54     | 88                           | 3 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPA 083D | 56,3                                          | 38,3 | 162,7              | 15810       | 24                  | 32,2           | 22*         | 54     | 88                           | 3 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPA 024D | 10,7                                          | 7,3  | 36,3               | 3040        | 9                   | 7,1            | 12*         | 28     | 69                           | 4 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPA 044D | 17,2                                          | 11,7 | 54,5               | 5200        | 12                  | 10,6           | 15*         | 35     | 76                           | 4 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPA 064D | 39,6                                          | 26,9 | 122                | 10880       | 16                  | 23,7           | 22*         | 42     | 83                           | 4 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPA 074D | 64,1                                          | 43,5 | 145,5              | 23200       | 28                  | 28,6           | 22*         | 54     | 89                           | 4 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPA 084D | 76,1                                          | 51,6 | 216,9              | 21080       | 26                  | 41             | 28**        | 54     | 89                           | 4 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPA 065D | 50,4                                          | 34,1 | 152,4              | 13600       | 18                  | 28,9           | 22*         | 54     | 84                           | 5 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |

Standard condition

t<sub>i</sub>    t<sub>o</sub>    DT1

NB1/SC1    +10°C    0°C    10K

NB2/SC2    0°C    -8°C    8K

\*

Single injection

\*\*

Multiple injection

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Throw limit at 0.5 m/s

Subject to modification.

TECHNICAL DATA SPB (E)

Küba market plus SP | Fin spacing 7 mm

| Type     | Rating Q <sub>o</sub> at<br>50 Hz, DT1, R404A |      | Cooling<br>surface | Air<br>flow | Air<br>throw<br>*** | Tube<br>volume | Connections |        | Sound<br><br>L <sub>WA</sub> | Fans (Operational values at 50 Hz) |                                |         |     |      |
|----------|-----------------------------------------------|------|--------------------|-------------|---------------------|----------------|-------------|--------|------------------------------|------------------------------------|--------------------------------|---------|-----|------|
|          | SC2                                           | SC3  |                    |             |                     |                | Inlet       | Outlet |                              | Blade                              | Current<br>230±10%<br>V-1 50Hz | Per fan |     |      |
|          | kW                                            | kW   | m²                 | m³/h        | m                   | dm³            | Ømm         | Ømm    | dB(A)                        | Ømm                                |                                | rpm     | W   | A    |
| SPB 011D | 1,3                                           | 1,0  | 4,6                | 880         | 4                   | 1,4            | 10          | 12     | 63                           | 1 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPB 021D | 1,5                                           | 1,2  | 6,0                | 850         | 4                   | 1,9            | 10          | 12     | 63                           | 1 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPB 031D | 2,0                                           | 1,6  | 6,9                | 1450        | 7                   | 2,1            | 10          | 18     | 70                           | 1 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPB 041D | 2,5                                           | 1,9  | 9,1                | 1420        | 6                   | 2,8            | 12*         | 22     | 70                           | 1 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPB 051D | 4,8                                           | 3,8  | 13,7               | 3320        | 9                   | 4,2            | 12*         | 28     | 77                           | 1 x 400                            | 230V -1                        | 1365    | 214 | 0,96 |
| SPB 061D | 5,9                                           | 4,7  | 20,4               | 3080        | 8                   | 6,3            | 12*         | 28     | 77                           | 1 x 400                            | 230V -1                        | 1365    | 214 | 0,96 |
| SPB 071D | 8,8                                           | 6,9  | 24,3               | 6250        | 18                  | 7,6            | 15*         | 35     | 83                           | 1 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPB 081D | 11,1                                          | 8,8  | 36,3               | 5880        | 17                  | 11,1           | 15*         | 35     | 83                           | 1 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPB 022D | 3,0                                           | 2,4  | 12,2               | 1700        | 6                   | 3,6            | 12*         | 22     | 66                           | 2 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPB 032D | 4,1                                           | 3,2  | 13,7               | 2900        | 9                   | 4,1            | 12*         | 28     | 73                           | 2 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPB 042D | 4,9                                           | 3,9  | 18,2               | 2840        | 8                   | 5,5            | 12*         | 28     | 73                           | 2 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPB 052D | 9,5                                           | 7,5  | 27,3               | 6640        | 13                  | 8,2            | 15*         | 35     | 80                           | 2 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPB 062D | 11,7                                          | 9,3  | 40,7               | 6160        | 12                  | 12,1           | 15*         | 35     | 80                           | 2 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPB 072D | 17,1                                          | 13,5 | 48,6               | 12500       | 23                  | 14,3           | 15*         | 42     | 86                           | 2 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPB 082D | 21,9                                          | 17,4 | 72,5               | 11760       | 22                  | 21,5           | 22*         | 42     | 86                           | 2 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPB 023D | 4,6                                           | 3,6  | 18,2               | 2550        | 8                   | 5,3            | 12*         | 28     | 68                           | 3 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPB 043D | 7,3                                           | 5,8  | 27,3               | 4260        | 11                  | 8,0            | 15*         | 35     | 75                           | 3 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPB 053D | 14,4                                          | 11,4 | 41,0               | 9960        | 16                  | 12,0           | 22*         | 42     | 82                           | 3 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPB 063D | 17,8                                          | 14,1 | 61,1               | 9240        | 14                  | 18,0           | 22*         | 42     | 82                           | 3 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPB 073D | 26,0                                          | 20,6 | 73,0               | 18750       | 27                  | 21,3           | 22*         | 54     | 88                           | 3 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPB 083D | 32,6                                          | 25,9 | 108,8              | 17640       | 25                  | 32,2           | 22*         | 54     | 88                           | 3 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPB 024D | 6,1                                           | 4,8  | 24,3               | 3400        | 9                   | 7,1            | 12*         | 28     | 69                           | 4 x 250                            | 230V -1                        | 1347    | 85  | 0,59 |
| SPB 044D | 9,6                                           | 7,7  | 36,5               | 5680        | 13                  | 10,6           | 15*         | 35     | 76                           | 4 x 300                            | 230V -1                        | 1340    | 80  | 0,36 |
| SPB 064D | 23,5                                          | 18,7 | 81,6               | 12320       | 17                  | 23,7           | 22*         | 42     | 83                           | 4 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |
| SPB 074D | 34,2                                          | 27,1 | 97,1               | 25000       | 30                  | 28,6           | 22*         | 54     | 89                           | 4 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPB 084D | 43,8                                          | 34,7 | 144,8              | 23520       | 28                  | 41,0           | 28*         | 54     | 89                           | 4 x 500                            | 400V -3                        | 1362    | 560 | 1,01 |
| SPB 065D | 29,7                                          | 23,5 | 101,9              | 15400       | 19                  | 28,9           | 22*         | 54     | 84                           | 5 x 400                            | 230V -1                        | 1420    | 188 | 0,83 |

Standard condition

t<sub>i</sub>    t<sub>o</sub>    DT1

NB2/SC2    0°C    -8°C    8K

NB3/SC3    -18°C    -25°C    7K

\*

Single injection

\*\*

Multiple injection

\*\*\*

Throw limit at 0.5 m/s

Subject to modification.

# DIMENSIONS, WEIGHTS, ELECTRIC DEFROST

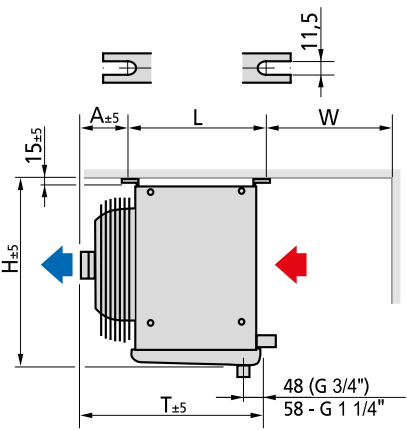
## Küba market plus SP

| Type     | Dimensions |      |     |     |                |                |                |     |     |                  | Electrical defrost<br>230 V-1 / 400 V-3-Y |      |       | Weight<br>(net) |         | Weight<br>(gross) |         | Drain |
|----------|------------|------|-----|-----|----------------|----------------|----------------|-----|-----|------------------|-------------------------------------------|------|-------|-----------------|---------|-------------------|---------|-------|
|          | H          | B    | T   | L   | E <sub>1</sub> | E <sub>2</sub> | E <sub>3</sub> | F   | A   | W <sub>min</sub> | Coil                                      | Tray | Total | SPA/B           | SPA/B E | SPA/B             | SPA/B E | D     |
|          | mm         | mm   | mm  | mm  | mm             | mm             | mm             | mm  | mm  | mm               | kW                                        | kW   | kW    | kg              | kg      | kg                | kg      | inch  |
| SP. 011D | 354        | 810  | 424 | 350 | 530            | -              | -              | 140 | 92  | 200              | 1,07                                      | 0,58 | 1,65  | 14              | 13,5    | 17                | 16,5    | G ¾   |
| SP. 021D | 354        | 810  | 424 | 350 | 530            | -              | -              | 140 | 92  | 200              | 1,07                                      | 0,58 | 1,65  | 15              | 14,5    | 18                | 17,5    | G ¾   |
| SP. 031D | 430        | 970  | 421 | 350 | 630            | -              | -              | 170 | 90  | 200              | 1,23                                      | 0,69 | 1,92  | 18,5            | 18      | 22,5              | 22      | G ¾   |
| SP. 041D | 430        | 970  | 421 | 350 | 630            | -              | -              | 170 | 90  | 200              | 1,23                                      | 0,69 | 1,92  | 21              | 20,5    | 25                | 24,5    | G ¾   |
| SP. 051D | 509        | 1180 | 501 | 420 | 780            | -              | -              | 200 | 100 | 300              | 2,07                                      | 0,88 | 2,95  | 31,5            | 30,5    | 37                | 36      | G ¾   |
| SP. 061D | 509        | 1180 | 501 | 420 | 780            | -              | -              | 200 | 100 | 300              | 2,90                                      | 0,88 | 3,78  | 36,5            | 35,5    | 42                | 41      | G ¾   |
| SP. 071D | 661        | 1430 | 592 | 500 | 1030           | -              | -              | 200 | 110 | 400              | 3,52                                      | 0,50 | 4,02  | 55              | 53      | 75                | 73      | G ¾   |
| SP. 081D | 661        | 1430 | 592 | 500 | 1030           | -              | -              | 200 | 110 | 400              | 5,52                                      | 0,50 | 6,02  | 65              | 63      | 85                | 83      | G ¾   |
| SP. 022D | 354        | 1310 | 424 | 350 | 1030           | -              | -              | 140 | 92  | 200              | 1,84                                      | 0,96 | 2,80  | 26,5            | 25,5    | 30,5              | 29,5    | G ¾   |
| SP. 032D | 430        | 1570 | 421 | 350 | 1230           | -              | -              | 170 | 90  | 200              | 2,14                                      | 1,15 | 3,29  | 33,5            | 32,5    | 51                | 50      | G ¾   |
| SP. 042D | 430        | 1570 | 421 | 350 | 1230           | -              | -              | 170 | 90  | 200              | 2,14                                      | 1,15 | 3,29  | 36,5            | 35,5    | 54                | 53      | G ¾   |
| SP. 052D | 509        | 1930 | 501 | 420 | 1530           | -              | -              | 200 | 100 | 300              | 3,90                                      | 1,44 | 5,34  | 56              | 54      | 76                | 74      | G 1¼  |
| SP. 062D | 509        | 1930 | 501 | 420 | 1530           | -              | -              | 200 | 100 | 300              | 5,20                                      | 1,44 | 6,64  | 65              | 63      | 85                | 83      | G 1¼  |
| SP. 072D | 661        | 2430 | 592 | 500 | 2030           | -              | -              | 200 | 110 | 400              | 6,74                                      | 0,86 | 7,60  | 96,5            | 93,5    | 180,5             | 177,5   | G 1¼  |
| SP. 082D | 661        | 2430 | 592 | 500 | 2030           | -              | -              | 200 | 110 | 400              | 10,11                                     | 0,86 | 10,97 | 117             | 114     | 201               | 198     | G 1¼  |
| SP. 023D | 354        | 1810 | 424 | 350 | 1530           | -              | -              | 140 | 92  | 200              | 2,60                                      | 1,30 | 3,90  | 37,5            | 36      | 56,5              | 55      | G ¾   |
| SP. 043D | 430        | 2170 | 421 | 350 | 1830           | -              | -              | 170 | 90  | 200              | 3,18                                      | 1,59 | 4,77  | 51,5            | 50      | 72                | 70,5    | G ¾   |
| SP. 053D | 509        | 2680 | 501 | 420 | 2280           | 750            | -              | 200 | 100 | 300              | 5,63                                      | 1,95 | 7,58  | 78,5            | 77      | 137,5             | 136     | G 1¼  |
| SP. 063D | 509        | 2680 | 501 | 420 | 2280           | 750            | -              | 200 | 100 | 300              | 7,50                                      | 1,95 | 9,45  | 96              | 93      | 155               | 152     | G 1¼  |
| SP. 073D | 661        | 3430 | 592 | 500 | 3030           | 1000           | -              | 200 | 110 | 400              | 9,20                                      | 1,82 | 11,02 | 139,5           | 135,5   | 244,5             | 240,5   | G 1¼  |
| SP. 083D | 661        | 3430 | 592 | 500 | 3030           | 1000           | -              | 200 | 110 | 400              | 13,80                                     | 1,82 | 15,62 | 168,5           | 164,5   | 273,5             | 269,5   | G 1¼  |
| SP. 024D | 354        | 2310 | 424 | 350 | 2030           | 1000           | -              | 140 | 92  | 200              | 3,37                                      | 1,72 | 5,09  | 48,5            | 46,5    | 73                | 71      | G ¾   |
| SP. 044D | 430        | 2770 | 421 | 350 | 2430           | 1200           | -              | 170 | 90  | 200              | 4,00                                      | 2,00 | 6,00  | 67              | 65      | 127               | 125     | G 1¼  |
| SP. 064D | 509        | 3430 | 501 | 420 | 3030           | 1500           | -              | 200 | 100 | 300              | 9,20                                      | 1,82 | 11,02 | 125             | 121     | 229               | 225     | G 1¼  |
| SP. 074D | 661        | 4430 | 592 | 500 | 4030           | 2000           | -              | 200 | 110 | 400              | 12,72                                     | 2,39 | 15,11 | 183             | 178     | 293               | 288     | G 1¼  |
| SP. 084D | 661        | 4430 | 592 | 500 | 4030           | 2000           | -              | 200 | 110 | 400              | 19,08                                     | 2,39 | 21,47 | 221             | 216     | 331               | 326     | G 1¼  |
| SP. 065D | 509        | 4180 | 501 | 420 | 3780           | 1500           | 2250           | 200 | 100 | 300              | 11,92                                     | 2,24 | 14,16 | 156,5           | 150,5   | 252,5             | 246,5   | G 1¼  |

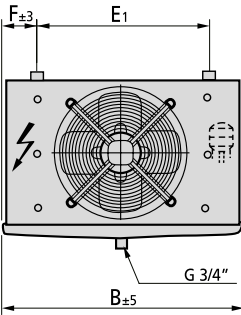
The dimensions are only valid for the standard model design!  
Note the differences in dimension among versions and accessories.

# DIMENSIONAL DRAWINGS

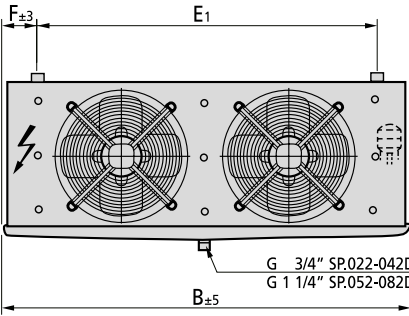
## Küba market plus SP



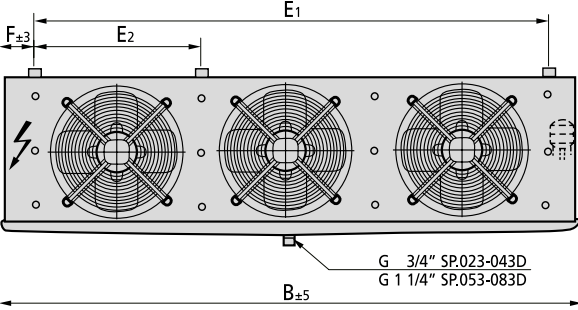
SP.(E) 011, 021, 031, 041, 051, 061, 071, 081 D



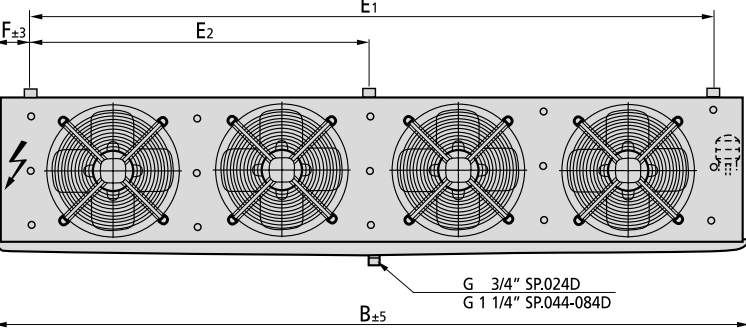
SP.(E) 022, 032, 042, 052, 062, 072, 082 D



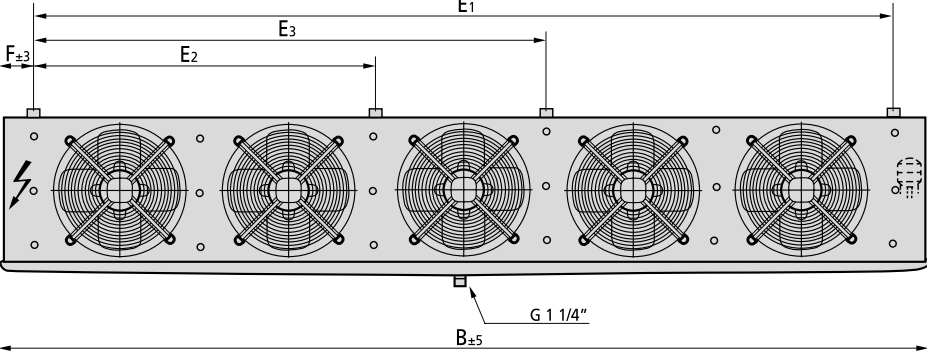
SP.(E) 023, 043, 053, 063, 073, 083 D



SP.(E) 024, 044, 064, 074, 084 D



SP.(E) 065 D





Küba market plus SP

# VARIANTS

## PROTECTION AGAINST CORROSION

- V 6.01 CORROSION PROTECTION 1**

Tubing: Copper

Fins: Aluminum, epoxy-resin-coated

End plates: Aluminum protective coating

Casing: Aluminum/zinc coated steel, protective coating on both sides
- V 6.04 CORROSION PROTECTION 4**

Tubing: Copper

Fins: Aluminum, epoxy-resin-coated

End plates: Aluminum

Casing: Aluminum/zinc coated steel, protective coating on on one side

## WATER/BRINE OPERATION

Please use our Küba selection software for configuring the brine Air Coolers. Do not hesitate to contact us if you have any further questions.

Configuration

- Soldered connections
- Ventilation and drainage

## Küba market plus SP

# ACCESSORIES

## KÜBA AIR JET

**Advantages**

- ▶ Longer air throw
- ▶ Even temperature distribution in the cold room

**Information:**  
Unassembled upon delivery  
(Cannot be used in conjunction with electrical radiator SPHR)

| For Model     | Air Jet |
|---------------|---------|
|               | Ø mm    |
| SP. 031D-044D | 300     |
| SP. 051D-065D | 400     |
| SP. 071D-084D | 500     |



## ADAPTER FOR TEXTILE HOSE CONN.

**Advantages of the textile hose operation**

- ▶ Even cooling without draughts
- ▶ Even temperature distribution
- ▶ Best possible comfort in workrooms of all kinds

**Information:**  
Unassembled upon delivery  
(Cannot be used in conjunction with electrical radiator SPHR)

| For Model     | Adapter |
|---------------|---------|
|               | Ø mm    |
| SP. 031D-044D | 320     |
| SP. 051D-065D | 420     |
| SP. 071D-084D | 520     |



**NOTE:**  
Using a textile hose reduces the air volume and performance.

## SHUT-UP® WITH KÜBA AIR JET

**Advantages of the textile hose operation**

- ▶ Reduces defrosting time by more than 40%
- ▶ With Shut-Up®, the defrosting heat is kept where it should be – in the Air Cooler
- ▶ For electrical defrosting and hot gas defrosting

**Information:**  
Unassembled upon delivery (Cannot be used in conjunction with electrical radiator SPHR)

| For Model     | Shut-Up |
|---------------|---------|
|               | Ø mm    |
| SP. 031D-044D | 320     |
| SP. 051D-065D | 420     |
| SP. 071D-084D | 520     |



**NOTE:**

1. Using a textile hose as well as a Shup-Up® reduces the air volume and performance.
2. Using a textile hose as well as a Shup-Up® requires the use of the Küba AIR JET and an adapter (see above). and performance.

# ACCESSORIES

## FINNED-TUBE HEATERS SPHR/SPHRZ

For air coolers with draw-through fans.  
– self installation required

**Note:**  
Do not operate unless Air Cooler fans are running, to prevent the fans and cold room ceiling from overheating!  
Only use in conjunction with a standard fan guard!

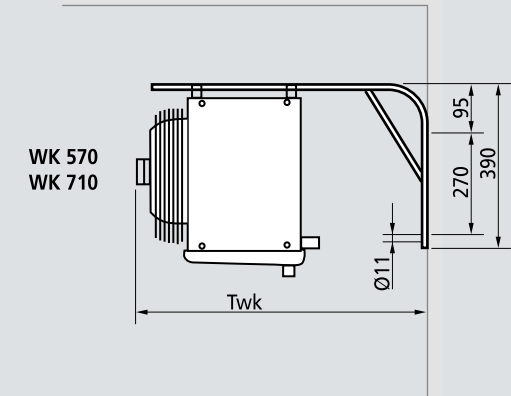
- Included in delivery:**
- Electrical finned tube radiator CrNi steel Ø 28 mm
  - Connection ends 1000 mm long
  - Al and Nirosta for fastening
  - Branching box acc. to VDE, ÖVE, SEV

| Model  | For Blade | Nominal power | Weight | Dimensions |
|--------|-----------|---------------|--------|------------|
|        | Ø mm      | at 230V<br>kW | kg     | mm         |
| SPHR25 | 250       | 1,4           | 0,7    | 245        |
| SPHR30 | 300       | 1,8           | 0,8    | 300        |
| SPHR40 | 400       | 2,5           | 0,9    | 400        |
| SPHR50 | 500       | 3,2           | 1,1    | 500        |

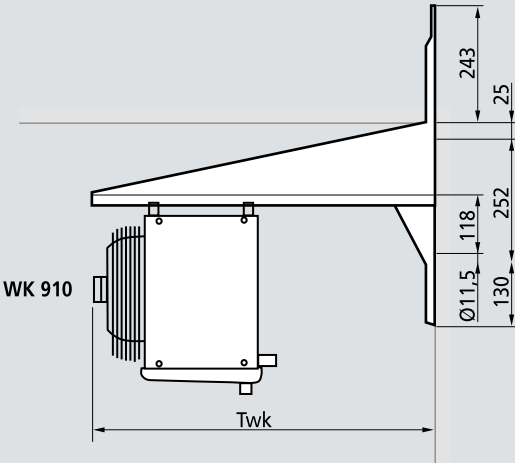
| Model    | Order quantity | Rated power   |
|----------|----------------|---------------|
|          | Ø mm           | at 230V<br>kW |
| SP. 011D | 1x SPHR25      | 1,36          |
| SP. 021D | 1x SPHR25      | 1,36          |
| SP. 031D | 1x SPHR30      | 1,75          |
| SP. 041D | 1x SPHR30      | 1,75          |
| SP. 051D | 1x SPHR40      | 2,47          |
| SP. 061D | 1x SPHR40      | 2,47          |
| SP. 071D | 1x SPHR50      | 3,19          |
| SP. 081D | 1x SPHR50      | 3,19          |
| SP. 022D | 2x SPHR25      | 2,72          |
| SP. 032D | 2x SPHR30      | 3,50          |
| SP. 042D | 2x SPHR30      | 3,50          |
| SP. 052D | 2x SPHR40      | 4,94          |
| SP. 062D | 2x SPHR40      | 4,94          |
| SP. 072D | 2x SPHR50      | 6,38          |
| SP. 082D | 2x SPHR50      | 6,38          |
| SP. 023D | 3x SPHR25      | 4,08          |
| SP. 043D | 3x SPHR30      | 5,25          |
| SP. 053D | 3x SPHR40      | 7,41          |
| SP. 063D | 3x SPHR40      | 7,41          |
| SP. 073D | 3x SPHR50      | 9,57          |
| SP. 083D | 3x SPHR50      | 9,57          |
| SP. 024D | 4x SPHR25      | 5,44          |
| SP. 044D | 4x SPHR30      | 7,00          |
| SP. 064D | 4x SPHR40      | 9,88          |
| SP. 074D | 4x SPHR50      | 12,76         |
| SP. 084D | 4x SPHR50      | 12,76         |
| SP. 065D | 5x SPHR40      | 12,35         |



## WALL BRACKET



| For Aircooler | Model  | Dimensions Twk | Weight/pc |
|---------------|--------|----------------|-----------|
|               |        | mm             | kg        |
| SP. 011-044D  | WK 570 | 570            | 1,8       |
| SP. 051-065D  | WK 710 | 700            | 2,1       |
| SP. 071-084D  | WK 910 | 910            | 4,6       |



| Model         | Order quantity |
|---------------|----------------|
| SP. 011D-041D | 2x WK 570      |
| SP. 051D-061D | 2x WK 710      |
| SP. 071D-081D | 2x WK 910      |
| SP. 022D-042D | 2x WK 570      |
| SP. 052D-062D | 2x WK 710      |
| SP. 072D-082D | 2x WK 910      |
| SP. 023D-043D | 2x WK 570      |
| SP. 053D-063D | 3x WK 710      |
| SP. 073D-083D | 3x WK 910      |
| SP. 024D-044D | 3x WK 570      |
| SP. 064D      | 3x WK 710      |
| SP. 074D-084D | 3x WK 910      |
| SP. 065D      | 4x WK 710      |

## MOUNTING SET FOR THE HINGE DOWN DRIP TRAY

The standard drip tray can be easily converted to a fold-down version using the mounting set.

| For Air Cooler | Order quantity |
|----------------|----------------|
| SP. 011-081D   | 2x Set         |
| SP. 022-082D   | 3x Set         |
| SP. 023-083D   | 4x Set         |
| SP. 024-084D   | 5x Set         |
| SP. 065D       | 6x Set         |

**[www.kelvion.com](http://www.kelvion.com)**