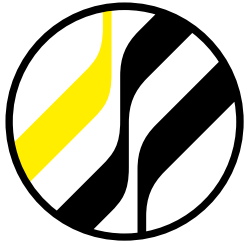


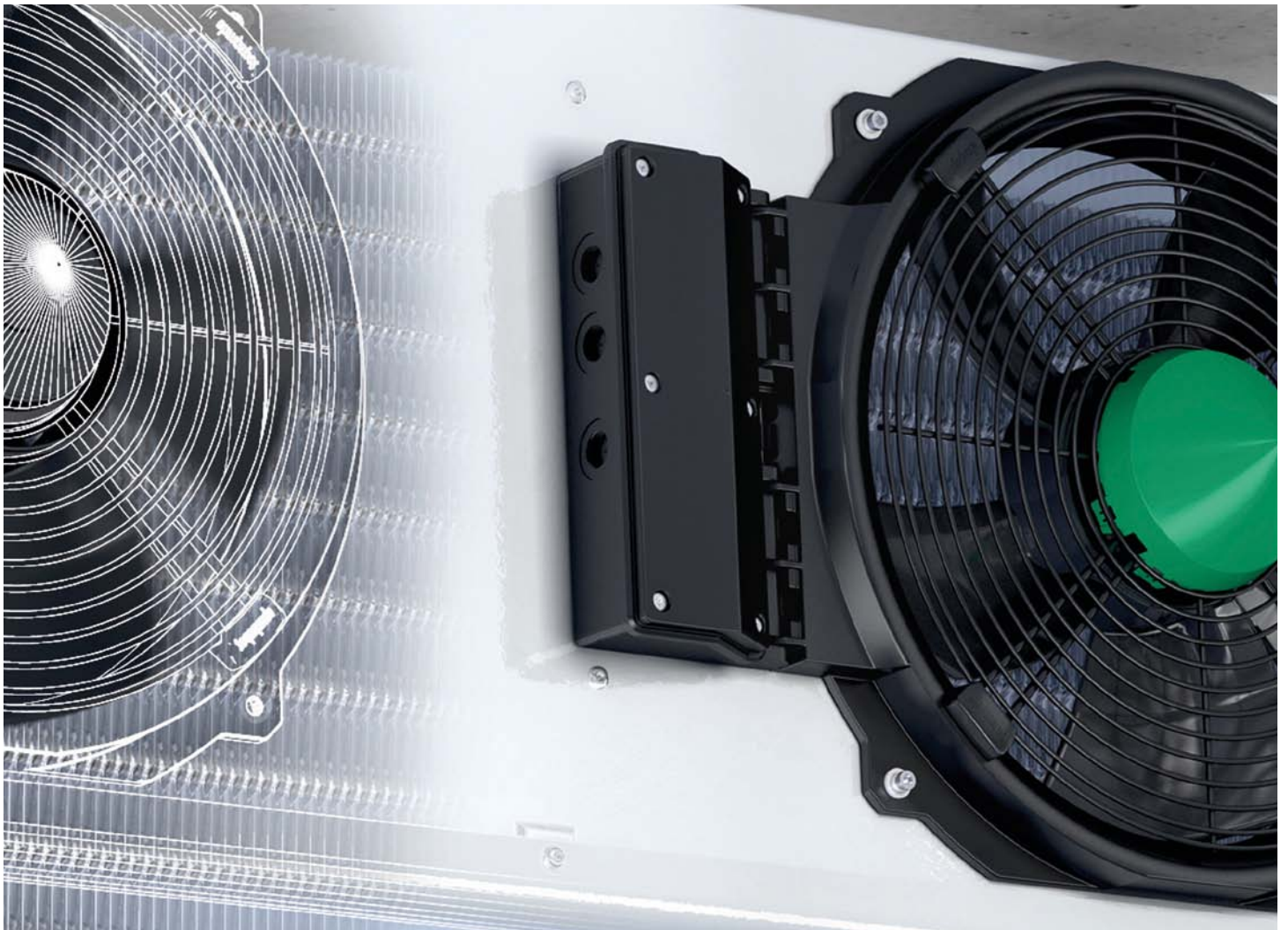
Kelvion

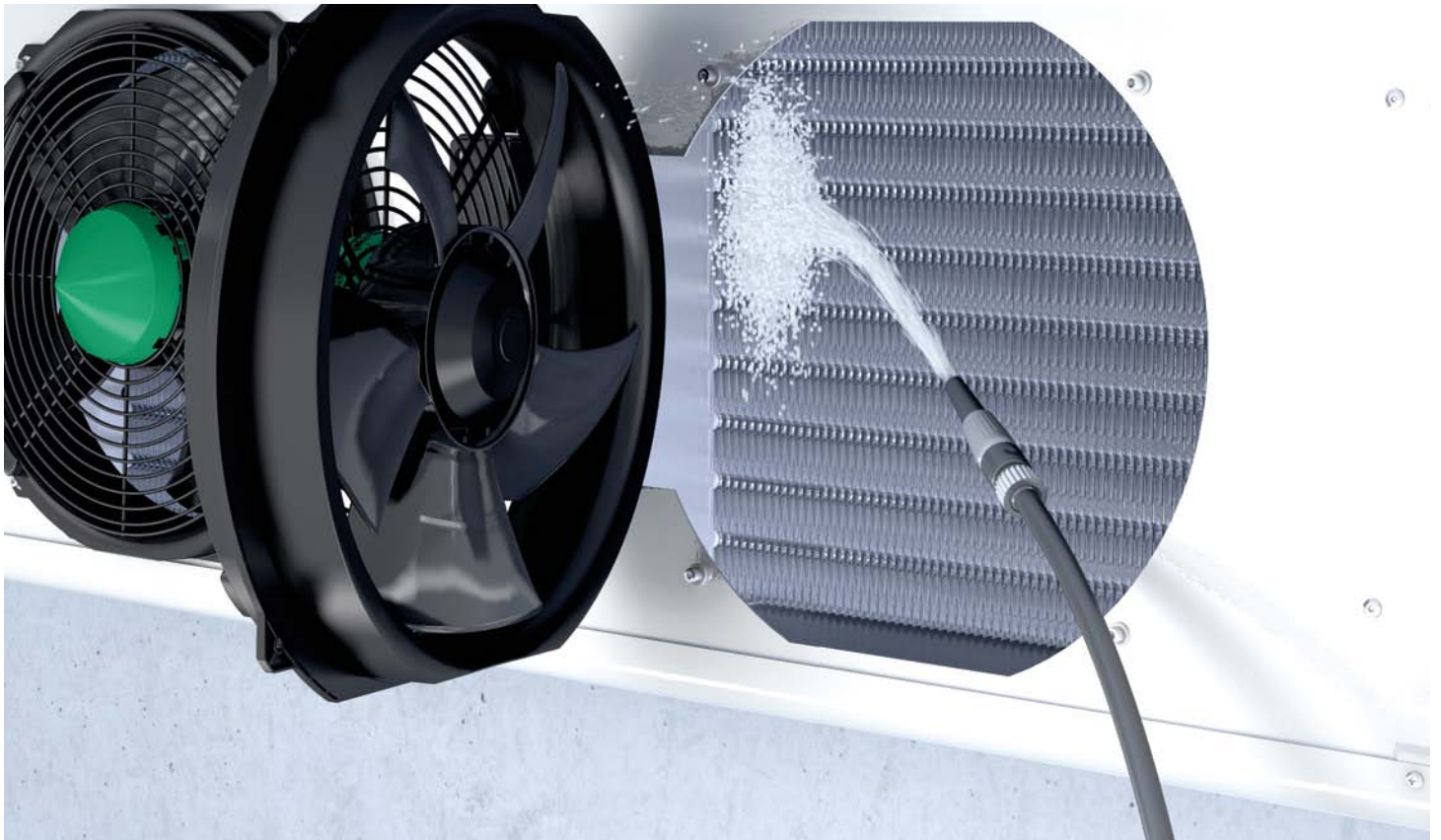


Küba Green Line Aircoolers

Küba market SP

# THE STANDARD FOR BASIC REFRIGERATION APPLICATIONS





## ENERGY EFFICIENCY

- ▶ The heart of the SP is the HFE fin-tube system. The thermodynamic and fluid-dynamic optimization of the air coolers – along with the effectively inter-coordinated operational modes in the refrigeration plant – enhances the energy efficiency of the refrigeration process.
- ▶ This system assures fast and energy-efficient defrosting after a long refrigeration cycle.
- ▶ The fan motors and propellers are optimally designed by means of a full bellmouth with aerodynamic design. All SP units utilize AC or EC technology fan systems.

## SIMPLE INSTALLATION

- ▶ The trusted and robust casework is ideal for easy mounting. The round corners and the smooth edges of the casing parts mean no danger of injury for installation and cleaning staff.
- ▶ The integrated terminal box for electrical wiring of the fans (except SP 23) together with spring-loaded terminals enable fast and sure connections.
- ▶ Generously dimensioned connection area to the side gives access for refrigerant tubing, or installation of the expansion valve.

## WITHOUT A DOUBT HYGIENIC

- ▶ The hinged fan system (except SP 23) makes thorough cleaning of the heat exchanger and the fan very easy.
- ▶ The casing has smooth, powder-coated surfaces that are easy to clean, food-safe, and environmentally friendly.
- ▶ The fan system offers an additional water-spray protection. This provides reliable protection for the fan assembly and enables intensive cleaning. Motor rating IP54 (EC). All standard AC fan units have an IP44 enclosure.

**Küba market SP**

# BASIC VERSION

## CASING

- ▶ Aluminum, Sendzimir zinc-plated steel
- ▶ Best quality powder coated edges thanks to high-grade powder coating, RAL 9010 pure white
- ▶ Food-safe
- ▶ Smooth surfaces: Easy to clean
- ▶ Removable drip tray (hinged via Mounting Kit)
- ▶ Removable side panels
- ▶ Drip tray: additional integrated splash pan
- ▶ 3° inclined fan plate

## ELECTRIC DEFROST

- ▶ Tubular heater: Stainless steel
- ▶ Connections: steam-proof
- ▶ Mains voltage: 1/N/PE 230V 50/60Hz
- ▶ Readily wired for connection box
- ▶ Optimized tubular heater configurations ensure fast and even defrosting
- ▶ Aluminum tube sleeves: Ensure excellent heat transfer to the fins and thus effective defrosting cycles with optimized service life

## HEAT EXCHANGER

- ▶ Tube: Copper, inner finned, Ø 12 mm
- ▶ Fins: Aluminum HFE® fins
- ▶ End plates: Aluminum
- ▶ Staggered tube system
- ▶ Fin spacing:  
A = 4.0 mm  
B = 7.0 mm
- ▶ Fins flared to form-fit the core tube
- ▶ Internal cleanliness according to DIN 14276
- ▶ Connection Inlet:  
SPA/B 23-21,31,32 / 30-21,31: Single injection via copper pipe for solder connection, sealed
- ▶ SPA/B: Venturi distributor with multiple injection
- ▶ Connection Outlet:  
Copper pipe for solder connection with schrader valve UNF 7/16", sealed



## FAN UNIT

- ▶ AC technology
- ▶ Draw-through axial fan
- ▶ Fan diameter: 230 (ESM Motor), 300, 350, 450 mm
- ▶ Permissible motor ambient temperatures (50 Hz)  
 SP23: -30°C up to +50°C | SP30: -40°C up to +50°C  
 SP35: -40°C up to +55°C | SP45: -40°C up to +50°C  
 SP45-51 to 74: -40°C up to +45°C
- ▶ Supply voltage: 1/N/PE 230V 50/60Hz
- ▶ Motor protection: Built-in thermal contact (inaccessible)
- ▶ SP45-51 bis 74: Built-in thermal contact (accessible)
- ▶ Protection class: SP23: IP 54 | SP30-45: IP 44
- ▶ Insulation class:
- ▶ SP23: B | SP30: B | SP35: F | SP45: F | SP45-51 to 74: F
- ▶ Fans hinged (except SP23)
- ▶ Fan blade, wallring and mounted parts are made of fiber-reinforced composite material
- ▶ Condensate drain grooves integrated in the wall ring
- ▶ Wall ring ready for an integrated wall ring heating (Accessory) from Ø 300mm
- ▶ Motor Control:
 

	<b>SP 23</b>	<b>SP 30,35,45</b>
Phase control	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Transformer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Delta/star	<input type="checkbox"/>	<input type="checkbox"/>
Frequency converter	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Please observe the manufacturer's information!**



SP 23 = ESM-Motor  
[EC Technology]



SP 30, 35, 45 = Fan system  
[AC-Technology]

## MOTOR LABEL DATA

Type	Ø mm	50 Hz		60 Hz			
		rpm	W	A	rpm	W	A
<b>SP 23 21-34</b>	230	1,000	14	0.11	1,000	14	0.11
<b>SP 30 21-34</b>	300	1,320	72	0.32	1,500	90	0.40
<b>SP 35 21-45</b>	350	1,400	180	0.81	1,600	250	1.10
<b>SP 45 31-44</b>	450	1,400	245	1.10	1,600	355	1.55
<b>SP 45 51-74</b>	450	1,390	510	2.75	1,600	710	3.11

Motor data per fan

Data provided by the manufacturer

# TECHNICAL DATA SPB (E)

## Küba market SP | Fin spacing 7 mm

Type	Rating Q <sub>o</sub> at 50 Hz, DT1, R404A		Cooling surface m <sup>2</sup>	Air flow m <sup>3</sup> /h	Air throw *** m	Tube volume dm <sup>3</sup>	Connections		Sound L <sub>WA</sub> dB(A)	Fans (Operational values at 50 Hz)				
	SC2	SC3					Inlet Ømm	Outlet Ømm		Blade Ømm	Current 230±10% V-1 50Hz	Per fan		
	kW	kW										rpm	W	A
SPB 23-F21	0.9	0.6	2.8	980	7	0.8	10 x1.0*	12 x1.0	67	230	230 V -1	1,580	30	0.25
SPB 23-F31	1.2	0.8	4.2	890	7	1.3	10 x1.0*	12 x1.0	67	230	230 V -1	1,580	30	0.25
SPB 30-F21	1.5	1.1	4.3	1,660	11	1.3	10 x1.0*	12 x1.0	65	300	230 V -1	1,360	65	0.30
SPB 30-F31	2.0	1.4	6.4	1,590	11	2.2	10 x1.0*	18 x1.0	65	300	230 V -1	1,360	65	0.30
SPB 35-F21	2.4	1.6	6.6	3,040	19	2.1	12 x1.0**	18 x1.0	72	350	230 V -1	1,430	145	0.68
SPB 35-F31	3.3	2.4	9.8	2,940	19	3.0	12 x1.0**	22 x1.0	72	350	230 V -1	1,430	145	0.68
SPB 35-F41	4.0	2.9	12.9	2,820	18	4.1	12 x1.0**	22 x1.0	72	350	230 V -1	1,430	145	0.68
SPB 45-F31	5.6	4.0	16.7	5,010	26	5.2	15 x1.0**	28 x1.5	81	450	230 V -1	1,360	270	1.20
SPB 45-F41	6.8	5.1	22.1	4,870	25	6.8	15 x1.0**	28 x1.5	81	450	230 V -1	1,360	270	1.20
SPB 45-F51	8.7	6.5	27.6	5,650	31	8.3	15 x1.0**	28 x1.5	81	450	230 V -1	1,400	490	2.71
SPB 45-F71	10.3	7.9	38.4	5,270	29	11.7	15 x1.0**	35 x1.5	81	450	230 V -1	1,400	490	2.71
SPB 23-F32	2.3	1.7	8.4	1,780	12	2.5	10 x1.0*	18 x1.0	70	230	230 V -1	1,580	30	0.25
SPB 30-F22	3.0	2.1	8.6	3,320	17	2.7	12 x1.0**	22 x1.0	68	300	230 V -1	1,360	65	0.30
SPB 30-F32	4.0	2.9	12.8	3,180	16	4.1	12 x1.0**	22 x1.0	68	300	230 V -1	1,360	65	0.30
SPB 35-F22	4.9	3.3	13.2	6,080	25	3.9	15 x1.0**	22 x1.0	75	350	230 V -1	1,430	145	0.68
SPB 35-F32	6.6	4.5	19.5	5,880	24	5.9	15 x1.0**	28 x1.5	75	350	230 V -1	1,430	145	0.68
SPB 35-F42	8.0	5.8	25.8	5,640	24	7.8	15 x1.0**	28 x1.5	75	350	230 V -1	1,430	145	0.68
SPB 45-F32	11.3	8.0	33.4	10,020	32	9.9	15 x1.0**	35 x1.5	84	450	230 V -1	1,360	270	1.20
SPB 45-F42	13.6	10.3	44.3	9,740	31	13.3	15 x1.0**	35 x1.5	84	450	230 V -1	1,360	270	1.20
SPB 45-F52	17.2	13.3	55.1	11,300	37	16.1	15 x1.0**	35 x1.5	84	450	230 V -1	1,400	490	2.71
SPB 45-F72	20.7	15.9	76.8	10,540	34	22.5	22 x1.0**	42 x1.5	84	450	230 V -1	1,400	490	2.71
SPB 23-F33	3.5	2.5	12.5	2,670	16	3.7	12 x1.0**	22 x1.0	72	230	230 V -1	1,580	30	0.25
SPB 30-F23	4.5	3.0	13.0	4,980	20	4.1	15 x1.0**	22 x1.0	70	300	230 V -1	1,360	65	0.30
SPB 30-F33	6.0	4.3	19.2	4,770	20	6.0	15 x1.0**	28 x1.5	70	300	230 V -1	1,360	65	0.30
SPB 35-F23	7.2	5.3	19.8	9,120	28	5.9	15 x1.0**	28 x1.5	77	350	230 V -1	1,430	145	0.68
SPB 35-F33	9.8	7.2	29.3	8,820	28	8.6	15 x1.0**	35 x1.5	77	350	230 V -1	1,430	145	0.68
SPB 35-F43	11.9	8.8	38.7	8,460	27	11.3	15 x1.0**	35 x1.5	77	350	230 V -1	1,430	145	0.68
<b>SPB 45-F33</b>	<b>16.9</b>	<b>12.1</b>	<b>50.2</b>	<b>15,030</b>	<b>35</b>	<b>14.7</b>	<b>22 x1.0**</b>	<b>42 x1.5</b>	<b>86</b>	<b>450</b>	<b>230 V -1</b>	<b>1,360</b>	<b>270</b>	<b>1.20</b>
SPB 45-F43	20.6	14.9	66.4	14,610	34	19.9	22 x1.0**	42 x1.5	86	450	230 V -1	1,360	270	1.20
SPB 45-F53	26.4	19.1	82.7	16,950	40	23.9	22 x1.0**	42 x1.5	86	450	230 V -1	1,400	490	2.71
SPB 45-F73	30.4	24.2	115.2	15,810	38	33.2	22 x1.0**	42 x1.5	86	450	230 V -1	1,400	490	2.71
SPB 23-F34	4.6	3.5	16.7	3,560	18	4.9	15 x1.0**	22 x1.0	73	230	230 V -1	1,580	30	0.25
SPB 30-F24	6.0	4.2	17.3	6,640	23	5.4	15 x1.0**	28 x1.5	71	300	230 V -1	1,360	65	0.30
SPB 30-F34	7.9	6.0	25.5	6,360	22	8.0	15 x1.0**	28 x1.5	71	300	230 V -1	1,360	65	0.30
SPB 35-F24	9.7	6.9	26.4	12,160	31	7.6	15 x1.0**	35 x1.5	78	350	230 V -1	1,430	145	0.68
SPB 35-F34	13.2	9.5	39.0	11,760	30	11.4	15 x1.0**	35 x1.5	78	350	230 V -1	1,430	145	0.68
SPB 35-F44	16.0	11.6	51.7	11,280	30	15.0	22 x1.0**	35 x1.5	78	350	230 V -1	1,430	145	0.68
SPB 45-F34	22.3	16.7	66.9	20,040	38	19.9	22 x1.0**	42 x1.5	87	450	230 V -1	1,360	270	1.20
SPB 45-F44	27.2	20.6	88.6	19,480	37	26.0	28 x1.5**	42 x1.5	87	450	230 V -1	1,360	270	1.20
SPB 45-F54	34.9	26.4	110.2	22,600	43	32.0	28 x1.5**	54 x2.0	87	450	230 V -1	1,400	490	2.71
SPB 45-F74	41.5	31.9	153.6	21,080	40	44.3	28 x1.5**	54 x2.0	87	450	230 V -1	1,400	490	2.71
SPB 35-F45	19.8	14.9	64.6	14,100	31	18.6	22 x1.0**	42 x1.5	79	350	230 V -1	1,430	145	0.68

Standard condition t<sub>1</sub> t<sub>0</sub> DT1  
 NB2/SC2 +10°C 0°C 10K  
 NB3/SC3 0°C -8°C 8K  
 \* Single injection  
 \*\* Multiple injection  
 \*\*\* Throw limit at 0.5 m/s

Subject to modification.

# DIMENSIONS, WEIGHTS, ELECTRIC DEFROST

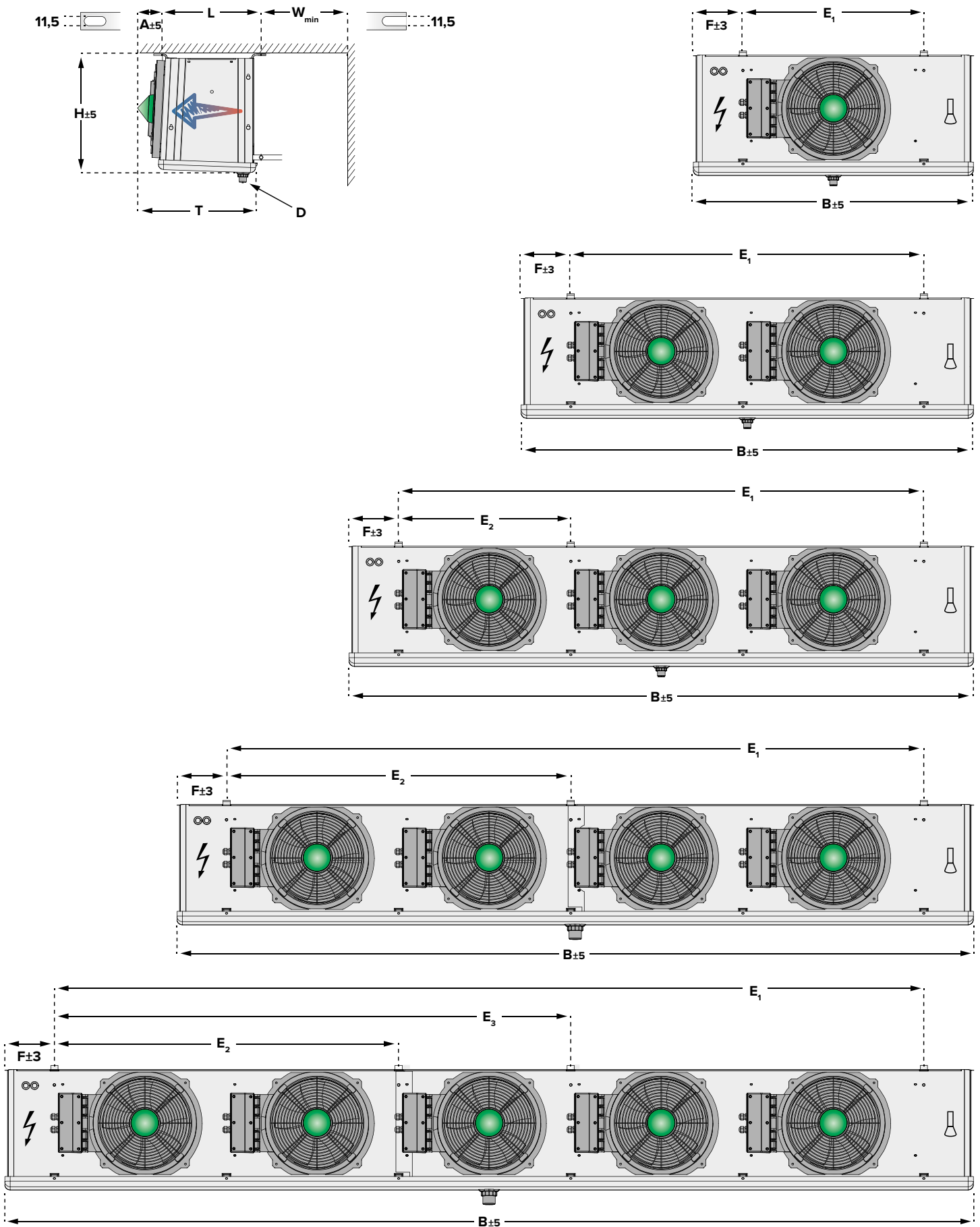
## Küba market SP

Type	Dimensions										Electrical defrost 230 V-1 / 400 V-3-Y			Weight (net)		Weight (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	DPA/B	DPA/B E	DPA/B	DPA/B E	D
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kW	kW	kW	kg	kg	kg	kg	inch
SP 23-21	351	760	400	335	480	-	-	140	79	200	0.5	0.4	0.9	11	12	15	16	G ¾
SP 23-31	351	760	400	335	480	-	-	140	79	200	0.5	0.4	0.9	12	13	16	17	G ¾
SP 30-21	427	960	425	360	620	-	-	170	78	200	0.6	0.6	1.2	18	19	23	24	G ¾
SP 30-31	427	960	425	360	620	-	-	170	78	200	0.6	0.6	1.2	20	21	25	26	G ¾
SP 35-21	505	1,130	607	515	730	-	-	200	105	300	0.7	0.8	1.5	28	29	35	36	G ¾
SP 35-31	505	1,130	607	515	730	-	-	200	105	300	1.4	0.8	2.2	31	32	38	39	G ¾
SP 35-41	505	1,130	607	515	730	-	-	200	105	300	1.4	0.8	2.2	34	35	41	42	G ¾
SP 45-31	657	1,330	613	510	930	-	-	200	120	400	1.7	0.9	2.6	45	47	79	81	G ¾
SP 45-41	657	1,330	613	510	930	-	-	200	120	400	2.6	0.9	3.5	50	52	83	86	G ¾
SP 45-51	662	1,330	573	470	930	-	-	200	120	400	3.5	0.9	4.4	57	62	90	95	G ¾
SP 45-71	662	1,330	573	470	930	-	-	200	120	400	4.4	0.9	5.3	66	68	100	101	G ¾
SP 23-32	351	1,210	400	335	930	-	-	140	79	200	0.9	0.8	1.7	20	21	25	26	G ¾
SP 30-22	427	1,550	425	360	1,210	-	-	170	78	200	1.0	1.0	2.0	30	32	57	58	G ¾
SP 30-32	427	1,550	425	360	1,210	-	-	170	78	200	1.0	1.0	2.0	33	35	60	61	G ¾
SP 35-22	505	1,830	607	515	1,430	-	-	200	105	300	1.3	1.3	2.6	48	50	85	87	G 1¼
SP 35-32	505	1,830	607	515	1,430	-	-	200	105	300	2.6	1.3	3.9	53	56	90	92	G 1¼
SP 35-42	505	1,830	607	515	1,430	-	-	200	105	300	2.4	1.3	3.7	58	61	95	97	G 1¼
SP 45-32	657	2,230	613	510	1,830	-	-	200	120	400	3.2	1.6	4.8	82	86	165	169	G 1¼
SP 45-42	657	2,230	613	510	1,830	-	-	200	120	400	4.5	1.6	6.1	88	93	171	175	G 1¼
SP 45-52	662	2,230	573	470	1,830	-	-	200	120	400	6.0	1.6	7.6	100	109	182	191	G 1¼
SP 45-72	662	2,230	573	470	1,830	-	-	200	120	400	7.9	1.6	9.5	119	121	201	204	G 1¼
SP 23-33	351	1,660	400	335	1,380	450	-	140	79	200	1.2	1.1	2.3	28	29	60	62	G ¾
SP 30-23	427	2,140	425	360	1,800	590	-	170	78	200	1.5	1.5	3.0	43	45	81	83	G ¾
SP 30-33	427	2,140	425	360	1,800	590	-	170	78	200	1.5	1.5	3.0	47	49	84	86	G ¾
SP 35-23	505	2,530	607	515	2,130	700	-	200	105	300	1.8	1.8	3.6	68	70	150	153	G 1¼
SP 35-33	505	2,530	607	515	2,130	700	-	200	105	300	3.6	1.8	5.4	74	78	157	161	G 1¼
SP 35-43	505	2,530	607	515	2,130	700	-	200	105	300	3.4	1.8	5.2	82	86	165	168	G 1¼
SP 45-33	657	3,130	613	510	2,730	900	-	200	120	400	4.4	2.2	6.6	123	128	258	263	G 1¼
SP 45-43	657	3,130	613	510	2,730	900	-	200	120	400	6.5	2.2	8.7	132	138	267	273	G 1¼
SP 45-53	662	3,130	573	470	2,730	900	-	200	120	400	8.0	2.2	10.2	150	163	285	298	G 1¼
SP 45-73	662	3,130	573	470	2,730	900	-	200	120	400	10.9	2.2	13.1	175	179	310	313	G 1¼
SP 23-34	351	2,110	400	335	1,830	900	-	140	79	200	1.5	1.5	3.0	35	38	103	105	G ¾
SP 30-24	427	2,730	425	360	2,390	1,180	-	170	78	200	2.0	2.0	4.0	57	59	147	150	G 1¼
SP 30-34	427	2,730	425	360	2,390	1,180	-	170	78	200	2.0	2.0	4.0	60	63	151	153	G 1¼
SP 35-24	505	3,230	607	515	2,830	1,400	-	200	105	300	2.3	2.3	4.6	90	93	217	220	G 1¼
SP 35-34	505	3,230	607	515	2,830	1,400	-	200	105	300	4.5	2.3	6.8	98	103	226	231	G 1¼
SP 35-44	505	3,230	607	515	2,830	1,400	-	200	105	300	4.4	2.2	6.6	109	114	237	241	G 1¼
SP 45-34	657	4,030	613	510	3,630	1,800	-	200	120	400	7.2	0.7	7.9	158	166	323	331	G 1¼
SP 45-44	657	4,030	613	510	3,630	1,800	-	200	120	400	8.6	0.7	9.3	171	179	336	345	G 1¼
SP 45-54	662	4,030	573	470	3,630	1,800	-	200	120	400	10.1	0.7	10.8	195	213	360	378	G 1¼
SP 45-74	662	4,030	573	470	3,630	1,800	-	200	120	400	14.4	0.7	15.1	231	235	396	400	G 1¼
SP 35-45	505	3,930	607	515	3,530	1,400	2,100	200	105	300	5.8	0.7	6.5	137	143	294	301	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 SP



# VARIANTS



## MOTOR - VARIANTS

### V 1.50 EC FANS WITH FIXED SPEEDS

SP 23: ESM motor with two speeds (standard)  
from SP 30: EC motor with fixed speed

### V 1.52 EC FAN WITH CONTROLLABLE SPEED

Controllable fan, 0 ... 10 V, for Ø 300, 350, and 450 mm

## CASING - VARIANTS

### V 3.09 DOUBLE-WALLED, INSULATED DRIP TRAY

Prevents condensed water from forming on the bottom side of the pan, and it reduces the transfer of defrost heat into the cold rooms.

The following dimensions are changed:

Width B: +60 mm

Height H: +30 mm

Depth T: +30 mm

## 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 one side





## DEFROST - VARIANTS

**V 4.01 HOT-GAS COIL IN THE DRIP TRAY (CU)**  
Hot-gas connection on both sides; copper

**V 6.05 HOT GAS IN HEAT EXCHANGER**  
Hot gas circuit for coil, without  
non-return valve

## CO<sub>2</sub> - VARIANTS

**V 7.45 CO<sub>2</sub> - DIRECT EXPANSION**  
up to 45 bar operating pressure

**V 7.60 CO<sub>2</sub> - DIRECT EXPANSION**  
up to 60 bar operating pressure

# ACCESSORIES

## SHUT-UP® (+ADAPTER)

The Shut-Up® optimises the defrosting procedure, especially in deep-freeze applications.

Shut-Up® is suspended over the fan unit, closing the Air Cooler.

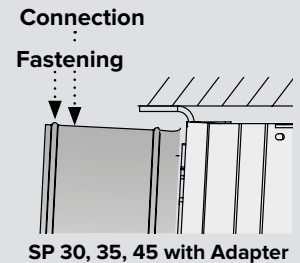
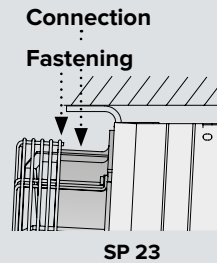
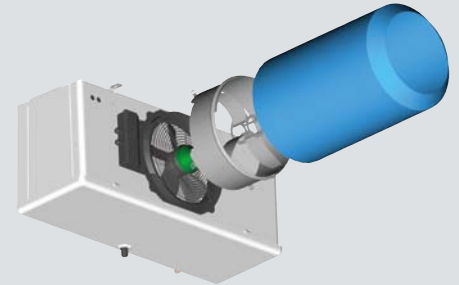
Hot air cannot escape.

### Construction:

High-tech microfiber, tearproof, UV-resistant, form- and temperature resistant, rot-proof, food-safe, washable at 30°C, chemical purification P

### Selection table & Dimensions:

Type	Küba market SP			Küba Shut-Up®	
	Fan blade Ø mm	Connections Ø mm	Fixture Ø mm	Air outlet Ø mm	Length mm
SP 23	230	253	258	149	390
SP 30	300	360	369	254	490
SP 35	350	427	436	344	610
SP 45	450	558	567	430	684



### NOTE:

Due to the additional external pressure, the air quantity and Air Cooler capacity change: With using Shut-Up®: Air volume reduces by 10% (-5% cooling capacity)  
1 Shut-Up® per fan unit required. Delivery not mounted. For SP 23, you do not need an additional to install a Shut-Up®.

## WALL RING HEATING WH

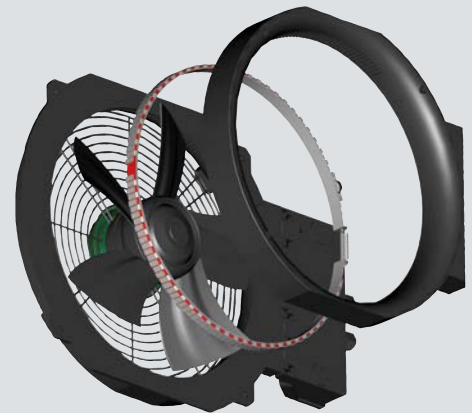
The wall ring heating prevents formation of ice between fan blade and the wall ring.

### Construction:

- ▶ Maximum energy efficiency, optimal control behavior, and reduced output (up to 87 % less).
- ▶ Heat retention in the wall ring, no steam formation, no overheating.
- ▶ Protection from contact by completely integrating the heating element.

### Selection table & Technical data:

Type	Description	Current	Capacity
		A	W
SP 23		not available	
SP 30	WH 30	0.5	118
SP 35	WH 35	0.9	209
SP 45	WH 45	1.2	266



### NOTE:

Küba wall ring heating WH is only available for SP 30, SP 35, SP 45. 1 wall ring heating WH per fan unit required.

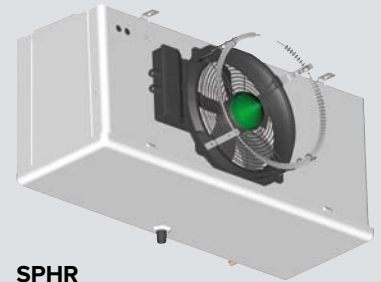
# FINNED-TUBE HEATERS SPHR/SPHRZ

For air coolers with draw-through fans.  
For conditioning of room air.

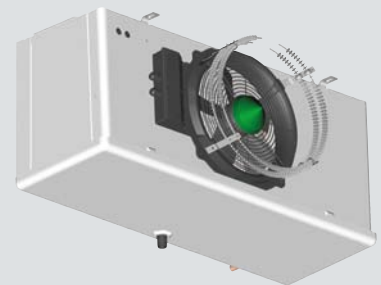
- ▶ SPHR = Standard design
- ▶ SPHRZ = Additional heater
- ▶ SPHR + SPHRZ = Greater heating capacity

## Selection table, Technical data & Dimensions:

Type	Description	Current				Capacity			
		L1 A	L2 A	L3 A	Total A	L1 kW	L2 kW	L3 kW	Total kW
SP 23	SPHR 23	4.3	-	-	4.3	1.0	-	-	1.0
SP 30	SPHR 30	5.9	-	-	5.9	1.3	-	-	1.3
SP 35	SPHR 35	7.6	-	-	7.6	1.7	-	-	1.7
SP 45	SPHR 45	10.7	-	-	10.7	2.5	-	-	2.5
SP 23	SPHR + SPHR 23 Z	4.3	4.3	-	8.6	1.0	1.0	-	2.0
SP 30	SPHR + SPHR 30 Z	5.9	5.9	-	11.8	1.3	1.3	-	2.6
SP 35	SPHR + SPHR 35 Z	7.6	7.6	-	15.2	1.7	1.7	-	3.4
SP 45	SPHR + SPHR 45 Z	10.7	10.7	-	21.4	2.5	2.5	-	5.0

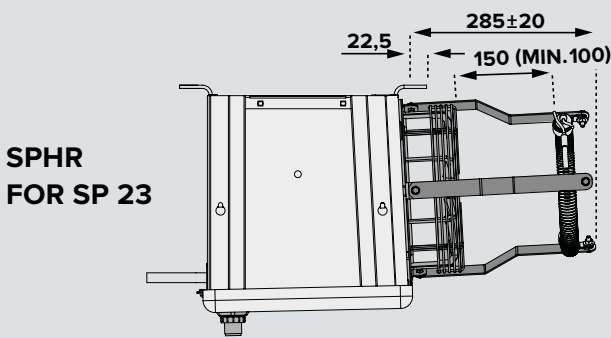


SPHR

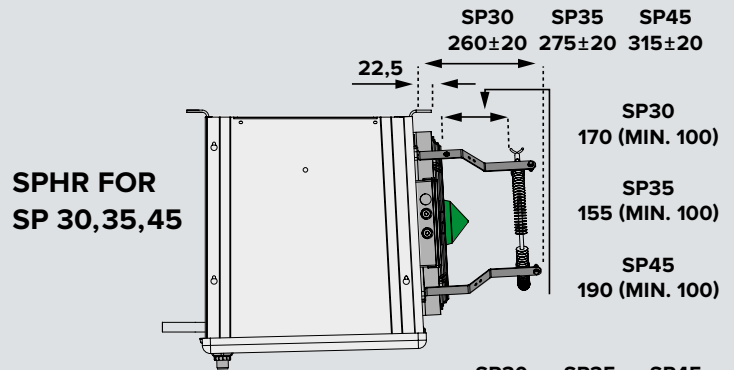


SPHR+SPHRZ

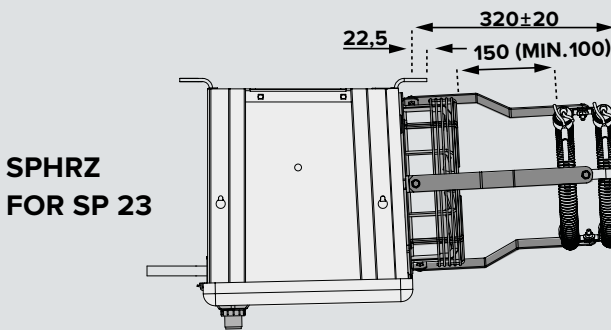
## Dimensions:



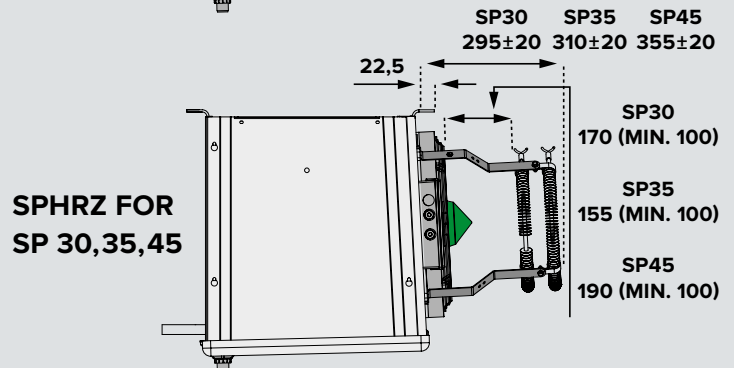
SPHR  
FOR SP 23



SPHR FOR  
SP 30,35,45



SPHRZ  
FOR SP 23



SPHRZ FOR  
SP 30,35,45

### NOTE:

This unit is operated only when the air-cooler fans are in use, to prevent overheating of the ceiling of the cold room.  
Be sure to observe the relevant safety instructions. 1 SPHR/Z per fan unit required.