



**KÜLER**



**SCI**

❖ Air Cooled Unit Cooler



R404a

$Q_0$

1.7 ⇨ 43.8 kW

TD. = 8 K

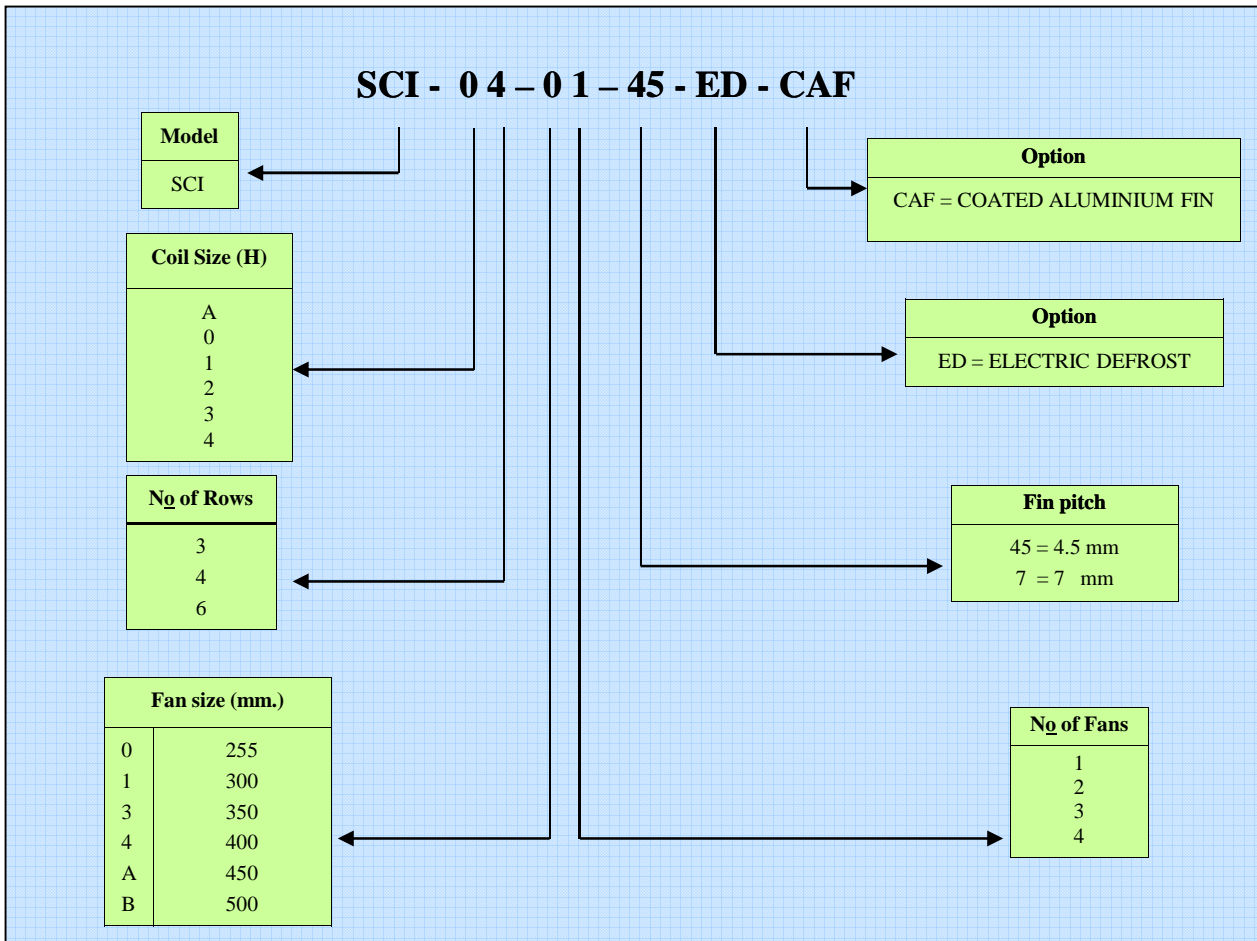
Subject to technical amendment without prior notice

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**KÜLER**

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**EXAMPLE SCI 04-11-7-ED-CAF**

Coil Size	=	No 0
No of Row	=	4
Fan size	=	300 mm.
No of Fans	=	1
Fin Pitch	=	4.5 mm.
Option		
-ED	=	Electric defrost
-CAF	=	Coated Aluminum Fin

**ตัวอย่าง SCI 04-11-7-ED-CAF**

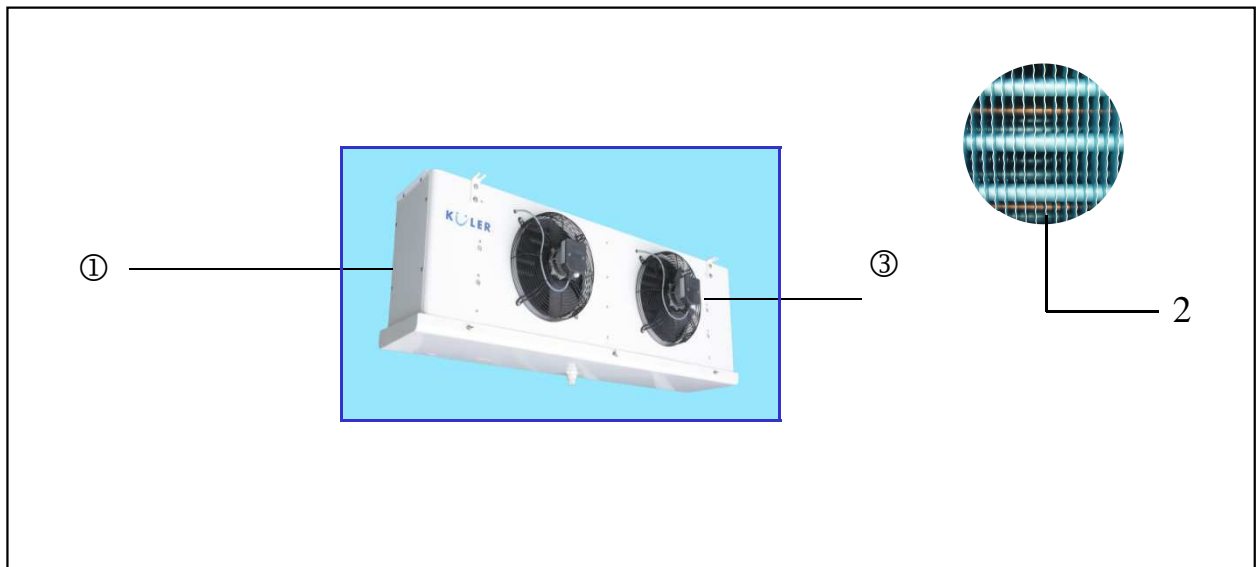
ขนาดคอยล์	=	หมายเลข 0
จำนวน	=	4 แถว
พัดลมขนาด	=	300 มม.
จำนวนพัดลม	=	1 พัดลม
ระยะฟิน	=	4.5 มม.
ทางเลือก		
-ED	=	ละลายน้ำแข็งด้วยไฟฟ้า
-CAF	=	ฟินอลูมิเนียมเคลือบ

**Application**

- ❖ PACKAGE PRODUCTS
- ❖ COMMERCIAL COOLING
- ❖ SUPERMARKET
- ❖ MINIMART
- ❖ FREEZING ROOM
- ❖ CAPACITY RANGE FROM 1.7 TO 43.8 kW
- ❖ FIN SPACING : 4.5 , 7 mm.
- ❖ ROOM TEMPERATURE BETWEEN Tr -30 °C TO +25°C

**การใช้งาน**

- ❖ ห้องเย็นทั่วไป
- ❖ บรรจสินค้ำ
- ❖ ซูเปอร์มาร์เก็ต
- ❖ มินิมาร์ท
- ❖ ห้องแช่แข็ง
- ❖ ขนาดตั้งแต่ 1.7 kW ถึง 43.8 kW
- ❖ ระยะห่างฟิน 4.5 , 7 มม.
- ❖ สำหรับอุณหภูมิห้องช่วงระหว่าง Tr -30°C ถึง +25°C


**1.Casing**

- ❖ AlMg
- ❖ POWDER COATING
- ❖ DOUBEL DRIP TRAY

**2.Cooler**

- ❖ INTERNALLY OILFREE
- ❖ FIN SPACING 4.5 mm.
- ❖ FIN SPACING 7 mm.
- ❖ TUBE COPPER
- ❖ FIN - ALUMINIUM  
- COATED ALUMINIUM (OPTION)

**1.ตัวถัง**

- ❖ อลูมิเนียมเกรดพิเศษ
- ❖ ฟันสีฝุ่น เพื่อความคงทนและสวยงาม
- ❖ สามารถเปลี่ยนถาดน้ำเป็นถาดน้ำ 2 ชั้นได้ (OPTION)

**2.คอยล์เย็น**

- ❖ ภายในท่อสะอาด ปราศจาก คราบน้ำมัน
- ❖ ระยะห่างฟิน 4.5 มม. หรือ 7 มม.
- ❖ ท่อทองแดงคุณภาพสูง
- ❖ ฟิน - อลูมิเนียม  
- อลูมิเนียมเคลือบ (OPTION)

**3.Fans**

- ❖ Ø 255 mm
- ❖ Ø 300 mm
- ❖ Ø 350 mm
- ❖ Ø 400 mm
- ❖ Ø 450 mm
- ❖ Ø 500 mm
- ❖ FAN APPLICATION RANGE  
RT : -30°C TO + 45 °C
- ❖ 230/400 v ± 10%
- ❖ 50/60 Hz
- ❖ OPTION  
MOTOR 1 PHASE  
MOTOR 3 PHASE  
MOTOR 2 SPEED

**3.พัดลม**

- ❖ Ø 255 ม.ม.
- ❖ Ø 300 ม.ม.
- ❖ Ø 350 ม.ม.
- ❖ Ø 400 ม.ม.
- ❖ Ø 450 ม.ม.
- ❖ Ø 500 ม.ม.
- ❖ พัดลมรองรับการใช้งานได้ที่ : -30 °C ถึง + 45°C
- ❖ 230/400 โวลต์ ± 10%
- ❖ 50/60 เฮิรตซ์
- ❖ ทางเลือก  
มอเตอร์ 1 เฟส  
มอเตอร์ 3 เฟส  
มอเตอร์ 2 ความเร็วรอบ

**4.Electric defrost**

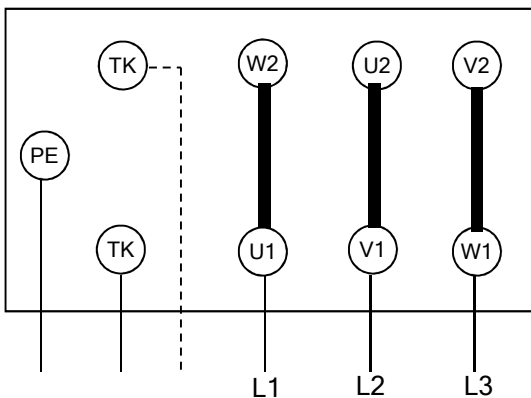
- ❖ Completely connected to junction box
- ❖ The heaters are fitted in copper sleeves for quick and equal defrost
- ❖ 230 V-1/50

**4.ละลายน้ำแข็งด้วย ฮีตเตอร์ไฟฟ้า**

- ❖ วงจรไฟฟ้า ต่อเสร็จสมบูรณ์ ภายในกล่องไฟ
- ❖ ฮีตเตอร์ถูกใส่ลงในปลอกที่ยึดอยู่ในตัวคอยล์ เพื่อการกระจายความร้อนที่ทั่วถึงและรวดเร็ว
- ❖ 230 V-1/50

**5.Wiring diagram of motors**

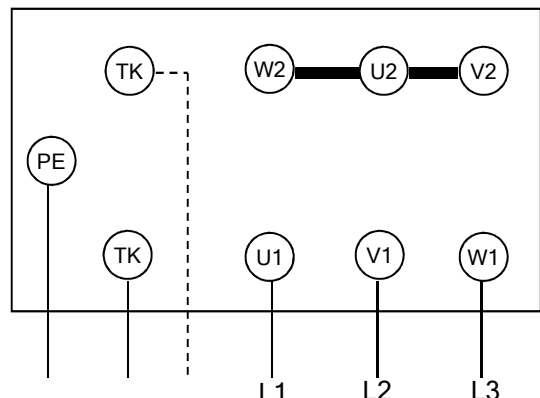
Motor, 230/400 ±10% V,50Hz



**230V**

**5. วงจรการต่อสายมอเตอร์**

มอเตอร์มี 230/400 ±10% โวลต์ 50 เฮิรตซ์



**400V**

F.P. = 4.5 mm.										
MODEL	Capacity (kW)		Surface Area m <sup>2</sup>	Tube Volume L	AIR FLOW m <sup>3</sup> /h	Header		Fan		
	T <sub>1</sub>	T <sub>0</sub>				Inlet Ø inch.	Outlet Ø inch.	Pcs	Ø Fan Blade (mm)	AIR THROW M
	TR = 0 °C, T.D.= 8 K	TR = 10°C, T.D.= 10 K								
SCI A3 - 01 - 45	1.795	2.433	7.16	1.47	1,012	3/8"	1/2"	1	255	4
SCI A4 - 01 - 45	2.142	2.936	9.54	1.96	999	3/8"	1/2"	1	255	4
SCI A3 - 02 - 45	3.619	4.904	14.32	2.94	2,024	1/2"	7/8"	2	255	7
SCI A4 - 02 - 45	4.316	5.924	19.09	3.93	1,999	1/2"	7/8"	2	255	7
SCI A3 - 03 - 45	5.456	7.341	21.47	4.41	3,036	1/2"	7/8"	3	255	9
SCI A4 - 03 - 45	6.503	8.947	28.63	5.88	2,999	1/2"	7/8"	3	255	9
SCI A3 - 04 - 45	7.293	9.775	28.63	5.88	4,049	1/2"	1 1/8"	4	255	10
SCI A4 - 04 - 45	8.665	11.909	38.17	7.85	3,999	1/2"	1 1/8"	4	255	10
SCI 03 - 11 - 45	2.672	3.633	10.74	2.21	1,553	3/8"	5/8"	1	300	6
SCI 04 - 11 - 45	3.017	3.99	14.31	2.94	1,505	1/2"	7/8"	1	300	6
SCI 03 - 12 - 45	5.423	7.406	21.47	4.42	3,107	1/2"	7/8"	2	300	8
SCI 04 - 12 - 45	6.051	8.054	28.63	5.87	3,011	1/2"	1 1/8"	2	300	8
SCI 03 - 13 - 45	8.197	11.167	32.21	6.63	4,660	1/2"	7/8"	3	300	10
SCI 04 - 13 - 45	9.061	12.11	42.95	8.84	4,516	5/8"	1 3/8"	3	300	10
SCI 03 - 14 - 45	11.025	14.976	42.95	8.84	6,214	1/2"	1 1/8"	4	300	12
SCI 04 - 14 - 45	12.152	16.232	57.26	11.74	6,022	5/8"	1 3/8"	4	300	12
SCI 04 - 31 - 45	3.948	5.184	14.32	2.95	2,408	3/8"	7/8"	1	350	10
SCI 06 - 31 - 45	5.027	6.662	21.47	4.42	2,170	3/8"	7/8"	1	350	8
SCI 04 - 32 - 45	7.92	10.395	28.63	5.89	4,816	3/8"	1 1/8"	2	350	11
SCI 06 - 32 - 45	10.101	13.38	42.95	8.84	4,340	3/8"	1 1/8"	2	350	9
SCI 04 - 33 - 45	11.839	15.568	42.95	8.84	7,225	3/8"	1 1/8"	3	350	12
SCI 06 - 33 - 45	15.08	20.02	64.42	13.25	6,510	5/8"	1 3/8"	3	350	10
SCI 04 - 34 - 45	15.937	20.866	57.26	11.78	9,633	5/8"	1 3/8"	4	350	13
SCI 06 - 34 - 45	20.294	26.915	85.89	17.67	8,680	7/8"	1 3/8"	4	350	11

F.P. = 4.5 mm.										
MODEL	Capacity (kW)		Surface Area m <sup>2</sup>	Tube Volume L	AIR FLOW m <sup>3</sup> /h	Header		Fan		
	T <sub>1</sub>	T <sub>0</sub>				Inlet Ø inch.	Outlet Ø inch.	Pcs	Ø Fan Blade (mm)	AIR THROW M.
	TR = 0 °C, TR = 8 K	TR = 10°C, T.D. = 10 K								
SCI 24 - 41 - 45	5.492	7.122	21.47	4.4	3,493	1/2"	1 1/8"	1	400	8
SCI 26 - 41 - 45	7.083	9.448	32.2	6.61	3,200	1/2"	1 1/8"	1	400	7
SCI 24 - 42 - 45	11.05	14.273	42.94	8.81	6,988	5/8"	1 1/8"	2	400	12
SCI 26 - 42 - 45	14.311	18.956	64.42	13.21	6,399	5/8"	1 1/8"	2	400	11
SCI 24 - 43 - 45	16.577	21.303	64.42	13.21	10,483	7/8"	1 5/8"	3	400	15
SCI 26 - 43 - 45	21.538	28.464	96.62	19.82	9,600	7/8"	1 5/8"	3	400	13
SCI 24 - 44 - 45	22.06	28.63	85.89	17.61	13,977	7/8"	1 5/8"	4	400	16
SCI 26 - 44 - 45	28.677	37.972	128.84	26.42	12,800	7/8"	1 5/8"	4	400	14
SCI 34 - A1 - 45	8.135	10.538	30.06	6.17	4,678	5/8"	1 1/8"	1	450	12.5
SCI 36 - A1 - 45	10.499	13.566	45.09	9.25	4,369	5/8"	1 1/8"	1	450	11.5
SCI 34 - A2 - 45	16.016	21.132	60.12	12.33	9,304	5/8"	1 5/8"	2	450	17
SCI 36 - A2 - 45	20.572	27.596	90.18	18.5	8,738	7/8"	1 5/8"	2	450	16
SCI 34 - A3 - 45	24.493	32.533	90.18	18.5	14,035	7/8"	2 5/8"	3	450	20.5
SCI 36 - A3 - 45	31.345	40.28	135.28	27.74	13,107	7/8"	2 5/8"	3	450	18.5
SCI 44 - B1 - 45	10.961	13.988	38.17	7.83	8,227	5/8"	1 1/8"	1	500	17
SCI 46 - B1 - 45	14.401	18.993	57.26	11.74	7,538	5/8"	1 1/8"	1	500	16
SCI 44 - B2 - 45	21.86	28.034	76.35	15.66	16,454	5/8"	1 5/8"	2	500	22
SCI 46 - B2 - 45	28.784	38.111	114.52	23.49	15,677	7/8"	1 5/8"	2	500	21
SCI 44 - B3 - 45	32.827	41.757	114.52	23.49	27,681	7/8"	2 5/8"	3	500	26
SCI 46 - B3 - 45	43.876	57.245	171.78	35.23	22,616	7/8"	2 5/8"	3	500	24

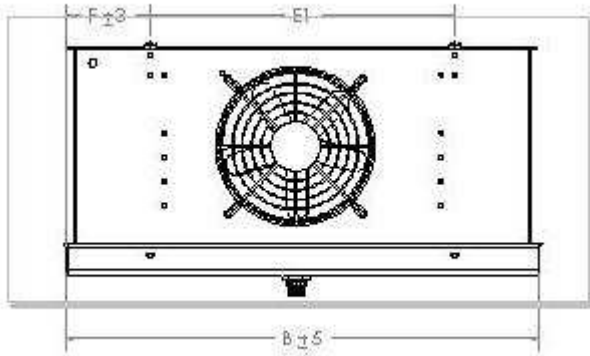
F.P. = 7 mm.										
MODEL	Capacity (kW)		Surface Area m <sup>2</sup>	Tube Volume L	AIR FLOW m <sup>3</sup> /h	Header		Fan		
	T <sub>1</sub>	T <sub>0</sub>				Inlet Ø inch.	Outlet Ø inch.	Pcs	Ø Fan Blade (mm)	AIR THROW M.
	TR = 0 °C, T.D. = 8 K	TR = 10°C, T.D. = 10 K								
SCI A3 - 01 - 7	1.447	0.986	4.78	1.47	1,046	3/8"	1/2"	1	250	4
SCI A4 - 01 - 7	1.765	1.188	6.37	1.96	1,034	3/8"	1/2"	1	250	4
SCI A3 - 02 - 7	2.92	1.993	9.56	2.94	2,093	3/8"	7/8"	2	250	7
SCI A4 - 02 - 7	3.559	2.398	12.74	3.93	2,068	3/8"	7/8"	2	250	7
SCI A3 - 03 - 7	4.393	3.001	14.34	4.41	3,140	1/2"	7/8"	3	250	9
SCI A4 - 03 - 7	5.362	3.624	19.12	5.88	3,102	1/2"	7/8"	3	250	9
SCI A3 - 04 - 7	5.866	4.008	19.12	5.88	4,187	1/2"	1 1/8"	4	250	10
SCI A4 - 04 - 7	7.145	4.824	25.49	7.85	4,136	1/2"	1 1/8"	4	250	10
SCI 03 - 11 - 7	2.132	1.447	7.17	2.21	1.583	3/8"	5/8"	1	300	7
SCI 04 - 11 - 7	2.513	1.795	9.56	2.94	1,505	3/8"	7/8"	1	300	7
SCI 03 - 12 - 7	4.329	2.936	14.34	4.42	3,166	3/8"	1 1/8"	2	300	9
SCI 04 - 12 - 7	5.041	3.618	19.12	5.87	3,100	1/2"	1 1/8"	2	300	9
SCI 03 - 13 - 7	6.528	4.424	21.50	6.63	4,750	1/2"	1 3/8"	3	300	11
SCI 04 - 13 - 7	7.616	5.444	28.67	8.84	4,650	5/8"	1 3/8"	3	300	11
SCI 03 - 14 - 7	8.774	5.936	28.67	8.84	6,333	5/8"	1 3/8"	4	300	13
SCI 04 - 14 - 7	10.122	7.312	38.23	11.74	6,200	5/8"	1 3/8"	4	300	13
SCI 04 - 31 - 7	3.232	1.986	9.56	2.95	2,553	3/8"	7/8"	1	350	11
SCI 06 - 31 - 7	4.241	2.629	14.34	4.42	2,317	3/8"	7/8"	1	350	9
SCI 04 - 32 - 7	6.484	4.05	19.12	5.89	5,106	3/8"	1 1/8"	2	350	12
SCI 06 - 32 - 7	8.521	5.355	28.67	8.84	4,634	3/8"	1 1/8"	2	350	10
SCI 04 - 33 - 7	9.690	6.004	28.67	8.84	7,659	3/8"	1 1/8"	3	350	13
SCI 06 - 33 - 7	12.728	7.945	43.01	13.25	6,950	5/8"	1 3/8"	3	350	11
SCI 04 - 34 - 7	13.048	8.055	38.23	11.78	10,212	5/8"	1 3/8"	4	350	14
SCI 06 - 34 - 7	17.179	10.695	57.35	17.67	9,267	7/8"	1 3/8"	4	350	12

F.P. = 7 mm.										
MODEL	Capacity (kW)		Surface Area m <sup>2</sup>	Tube Volume L	AIR FLOW m <sup>3</sup> /h	Header		Fan		
	T <sub>1</sub>	T <sub>0</sub>				Inlet Ø inch.	Outlet Ø inch.	Pcs	Ø Fan Blade (mm)	AIR THROW M
	TR = 0 °C, T.D. = 8 K	TR = 10°, T.D. = 10 K								
SCI 24 - 41 - 7	4.631	3.397	14.34	4.4	3,645	1/2"	1 1/8"	1	400	9
SCI 26 - 41 - 7	6.137	4.358	21.5	6.61	3,374	1/2"	1 1/8"	1	400	8
SCI 24 - 42 - 7	9.284	6.837	28.67	8.81	7,290	1/2"	1 1/8"	2	400	13
SCI 26 - 42 - 7	12.32	8.805	43.01	13.21	6,748	5/8"	1 3/8"	2	400	12
SCI 24 - 43 - 7	13.842	10.092	43.01	13.21	10,935	7/8"	1 5/8"	3	400	16
SCI 26 - 43 - 7	18.472	13.224	64.52	19.82	10,122	7/8"	1 5/8"	3	400	14
SCI 24 - 44 - 7	18.535	13.531	57.35	17.61	14,580	7/8"	1 5/8"	4	400	17
SCI 26 - 44 - 7	24.685	17.698	86.02	26.42	13,497	7/8"	1 5/8"	4	400	15
SCI 34 - A1 - 7	6.39	4.674	20.07	6.17	4,818	5/8"	1 3/8"	1	450	13.5
SCI 36 - A1 - 7	8.532	6.156	30.11	9.25	4,545	5/8"	1 3/8"	1	450	12.5
SCI 34 - A2 - 7	12.689	9.321	40.14	12.33	9,636	5/8"	1 5/8"	2	450	18
SCI 36 - A2 - 7	16.891	12.007	60.22	18.5	9,090	7/8"	1 5/8"	2	450	17
SCI 34 - A3 - 7	18.894	13.7	60.22	18.5	14,454	7/8"	1 5/8"	3	450	21.5
SCI 36 - A3 - 7	25.529	18.397	90.32	27.74	13,636	7/8"	1 5/8"	3	450	19.5
SCI 44 - B1 - 7	9.095	6.743	25.48	7.83	8,521	5/8"	1 3/8"	1	500	18
SCI 46 - B1 - 7	12.283	8.792	38.23	11.74	7,955	5/8"	1 3/8"	1	500	17
SCI 44 - B2 - 7	18.333	13.57	50.97	15.66	17,043	5/8"	1 5/8"	2	500	23
SCI 46 - B2 - 7	24.655	17.762	76.46	23.49	15,911	7/8"	1 5/8"	2	500	22
SCI 44 - B3 - 7	27.135	19.931	76.46	23.49	25,565	7/8"	1 5/8"	3	500	27
SCI 46 - B3 - 7	37.237	27.214	114.7	35.23	23,867	7/8"	1 5/8"	3	500	25

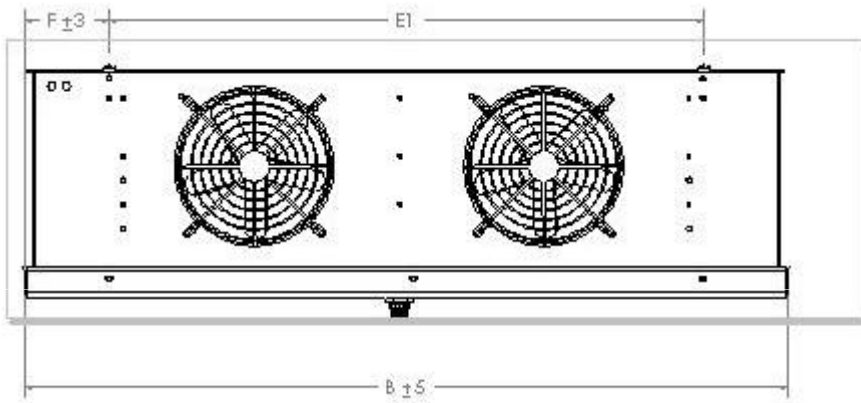


MODEL	DIMENSION (mm)							
	H	B	T	L	E1	E2	F	A
SCI 3 - 01 - X	405	880	430	310	530	–	174	120
SCI 4 - 01 - X	405	880	500	380	530	–	174	120
SCI 3 - 02 - X	405	1380	430	310	1030	–	174	120
SCI 4 - 02 - X	405	1380	500	380	1030	–	174	120
SCI 3 - 03 - X	405	1880	430	310	1530	500	174	120
SCI 4 - 03 - X	405	1880	500	380	1530	500	174	120
SCI 3 - 04 - X	405	2380	430	310	2030	1000	174	120
SCI 4 - 04 - X	405	2380	500	380	2030	1000	174	120
SCI 03-11 - X	485	980	505	355	630	–	174	150
SCI 04-11 - X	485	980	575	425	630	–	174	150
SCI 03-12 - X	485	1580	505	355	1230	–	174	150
SCI 04-12 - X	485	1580	575	425	1230	–	174	150
SCI 03-13 - X	485	2180	505	355	1830	600	174	150
SCI 04-13 - X	485	2180	575	425	1830	600	174	150
SCI 03-14 - X	485	2780	505	355	2430	1200	174	150
SCI 04-14 - X	485	2780	575	425	2430	1200	174	150
SCI 04-31 - X	485	980	505	355	630	–	174	150
SCI 06-31 - X	485	980	575	425	630	–	174	150
SCI 04-32 - X	485	1580	505	355	1230	–	174	150
SCI 06-32 - X	485	1580	575	425	1230	–	174	150
SCI 04-33 - X	485	2180	505	355	1830	600	174	150
SCI 06-33 - X	485	2180	575	425	1830	600	174	150
SCI 04-34 - X	485	2780	505	355	2430	1200	174	150
SCI 06-34 - X	485	2780	575	425	2430	1200	174	150

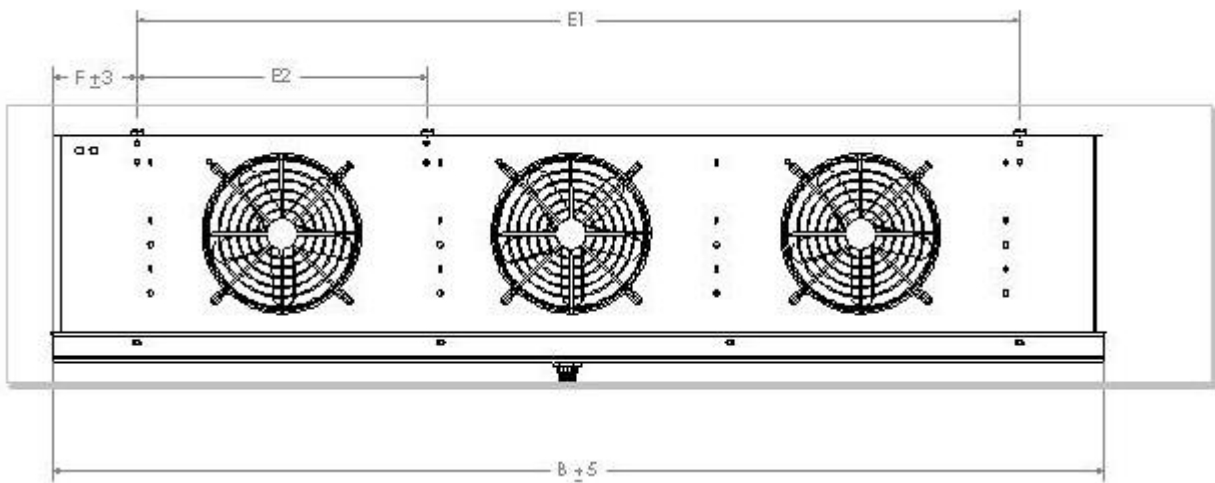
MODEL	DIMENSION (mm)							
	H	B	T	L	E1	E2	F	A
SCI 24-41-X	565	1130	600	425	780	–	182	175
SCI 26-41- X	565	1130	600	425	780	–	182	175
SCI 24-42- X	565	1880	600	425	1530	–	182	175
SCI 26-42- X	565	1880	600	425	1530	–	182	175
SCI 24-43 -X	565	2630	600	425	2280	750	182	175
SCI 26-43- X	565	2630	600	425	2280	750	182	175
SCI 24-44- X	565	3380	600	425	3030	1500	182	175
SCI 26-44- X	565	3380	600	425	3030	1500	182	175
SCI 34-A1- X	646	1280	530	460	900	–	182	70
SCI 36-A1- X	646	1280	530	460	930	–	182	70
SCI 34-A2- X	646	2180	530	460	1830	–	182	70
SCI 36-A2- X	646	2180	530	460	1830	–	182	70
SCI 34-A3- X	646	3080	530	460	2730	900	182	70
SCI 36-A3 X	646	3080	530	460	2730	900	182	70
SCI 44-B1- X	735	1380	585	505	1030	–	185	80
SCI 46-B1 -X	735	1380	585	505	1030	–	185	80
SCI 44-B2- X	735	2380	585	505	2030	–	185	80
SCI 46-B2- X	735	2380	585	505	2030	–	185	80
SCI 44-B3- X	735	3380	585	505	3030	1000	185	80
SCI 46-B3- X	735	3380	585	505	3030	1000	185	80



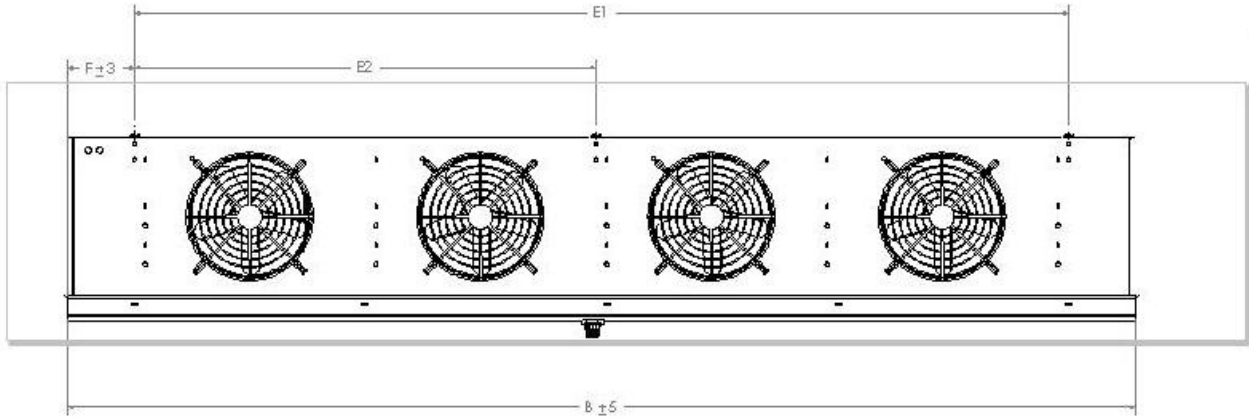
1 - FAN



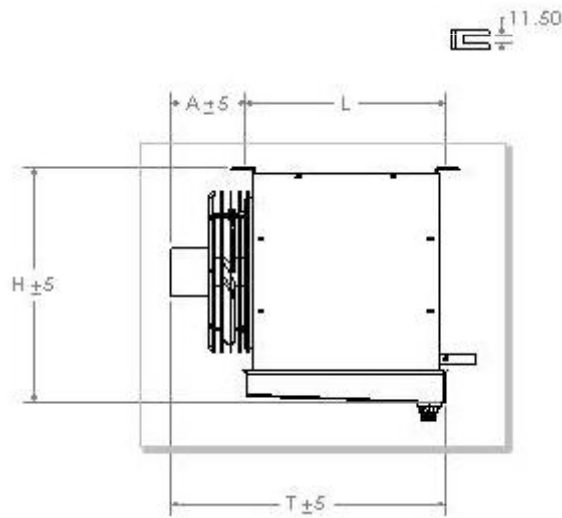
2 - FANS



3 - FANS



4 - FANS



Side