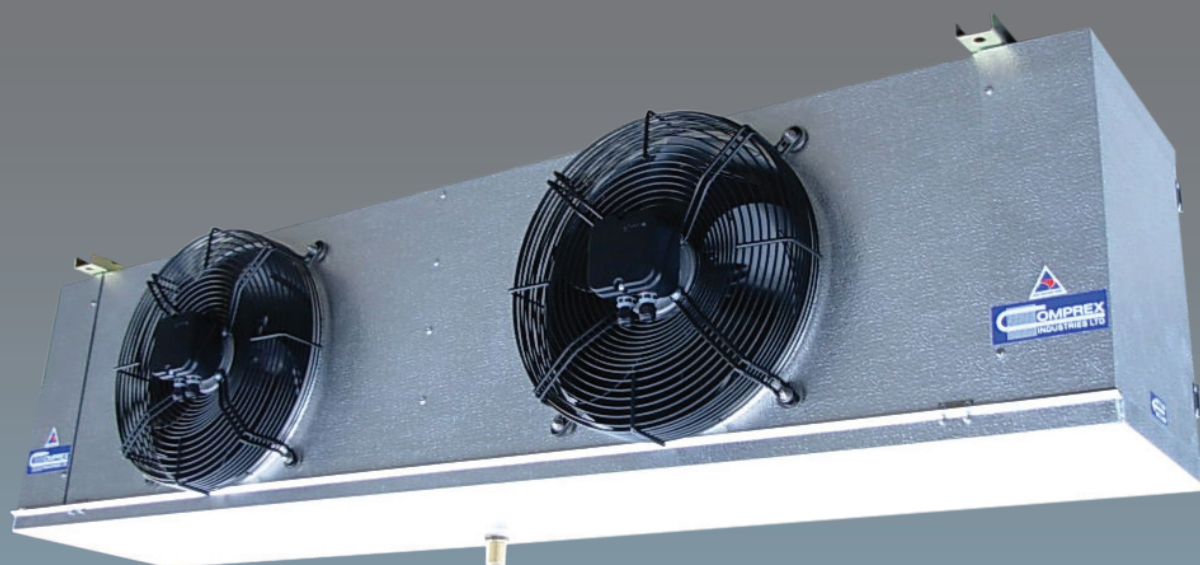




“SB” Series Induced Draught Unit Coolers 2 to 24 kw

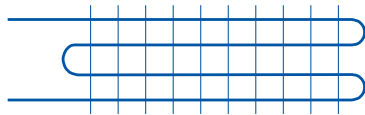


Traditional quality with new technology



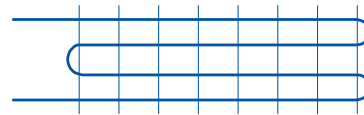
SELECTION DATA “SB” SERIES UNIT COOLERS

3.2mm Fin Series (8 fpi)



MODEL	CAPACITY Watts @ 6 KTD	SURFACE AREA m ²	AIR FLOW m ³ /s
SB1/3	2350	16.7	0.40
SB2/3	3200	22.3	0.63
SB3/3	3900	27.8	0.72
SB4/3	4700	33.4	0.78
SB5/3	5950	39	1.20
SB6/3	7160	50	1.32
SB7/3	7930	55.4	1.43
SB8/3	9780	67	1.88
SB9/3	10800	74.7	2.05
SB10/3	11850	83.5	2.15
SB11/3	13460	93	2.5
SB12/3	14800	103.4	2.74
SB13/3	16000	112	2.85
SB14/3	18100	125	3.34
SB15/3	19640	138.5	3.60
SB16/3	21770	150	4.04
SB17/3	24000	166	4.33

4.2mm Fin Series (6 fpi)



MODEL	CAPACITY Watts @ 6 KTD	SURFACE AREA m ²	AIR FLOW m ³ /s
SB1/4	2010	12.8	0.43
SB2/4	2750	17	0.69
SB3/4	3350	21.3	0.78
SB4/4	4020	25.6	0.85
SB5/4	5060	29.7	1.30
SB6/4	6120	38.3	1.45
SB7/4	6790	42.4	1.56
SB8/4	8360	51	2.06
SB9/4	9230	57.1	2.20
SB10/4	10130	64	2.34
SB11/4	11500	71.2	2.74
SB12/4	12650	79.2	2.98
SB13/4	13600	85.7	3.10
SB14/4	15350	95.7	3.69
SB15/4	16780	106	3.92
SB16/4	18450	114.8	4.40
SB17/4	20350	127	4.70

Capacity Based on R22 @ -4deg C. SST. Correction factors for various suction temperatures as follows

suction temp °C	-40	-35	-30	-25	-20	-15	-10	-4	0	+5	+10
capacity multiplier	0.82	0.84	0.87	0.90	0.92	0.95	0.98	1.00	1.03	1.06	1.09

The above capacity multipliers result from alteration in internal circuiting necessary to keep refrigerant pressure drop to acceptable operating levels.

Alternative refrigerants factor as follows, based on -4°C. SST

R12	R22	R502	R134A	R404A
0.92	1	0.95	0.95	1.02

Circuiting Coils are circuited/distributor fitted at time of manufacture. Circuiting/distributor selection designed for the operating refrigerant, capacity and suction condition.

Defrost Options as follows. Selection dependant on room operating temperatures/design.

Off-Cycle Full Electric “ED” Part Electric “PED” Part Core Electric “PCED” Water Hot Gas

With electric defrost, pump down is not recommended as the “latent” effect of the refrigerant provides a positive defrost of return bends and distributor, with pressure or temperature termination.

TECHNICAL DATA "SB" SERIES UNIT COOLERS

MODEL	FANS				AIR THROW	ELECTRIC DEFROST WATTS			WATER DEFROST	REFRIG. CHARGE
	QUANTITY	DIAMETER	AMPS	WATTS	M	ED	PED	PCED	L/S	KG
SB1	1	300	0.28	62	8	1740	1160	580	0.12	1.2
SB2	1	350	0.73	165	9	2475	1650	825	0.15	1.6
SB3	1	350	0.73	165	9	3000	2000	1000	0.19	2.0
SB4	2	300	0.56	124	10	3795	2530	1265	0.23	2.4
SB5	2	350	1.46	330	13	4500	3000	1500	0.27	2.8
SB6	2	350	1.46	330	14	5250	3500	1750	0.35	3.3
SB7	2	350	1.46	330	15	5865	3910	1955	0.40	3.9
SB8	3	350	2.1	495	16	6600	4260	2340	0.46	4.4
SB9	3	350	2.1	495	16.5	6600	4260	2340	0.46	4.9
SB10	3	350	2.1	495	17	8320	5300	3020	0.58	5.6
SB11	4	350	2.92	660	18	8320	5300	3020	0.6	6.3
SB12	4	350	2.92	660	18.5	11340	8320	6040	0.62	7.2
SB13	4	350	2.92	660	19	9690	6170	3520	0.70	7.7
SB14	5	350	3.65	825	20.5	11340	8320	6040	0.65	8.4
SB15	5	350	3.65	825	21	13450	9850	7200	0.80	9.4
SB16	6	350	4.38	990	22.5	13210	9690	7040	0.75	10.2
SB17	6	350	4.38	990	23	13450	9850	7200	0.85	11.3

Fan Motors Low energy, external rotor, sickle bladed fan motors with inbuilt thermal protection. Suitable for operation from -40°C to +60°C. 230 volt, 50 hertz, single phase supply.

Motor amps/watts are nominal only. Exact power usage varies due to operating room conditions and model selections.

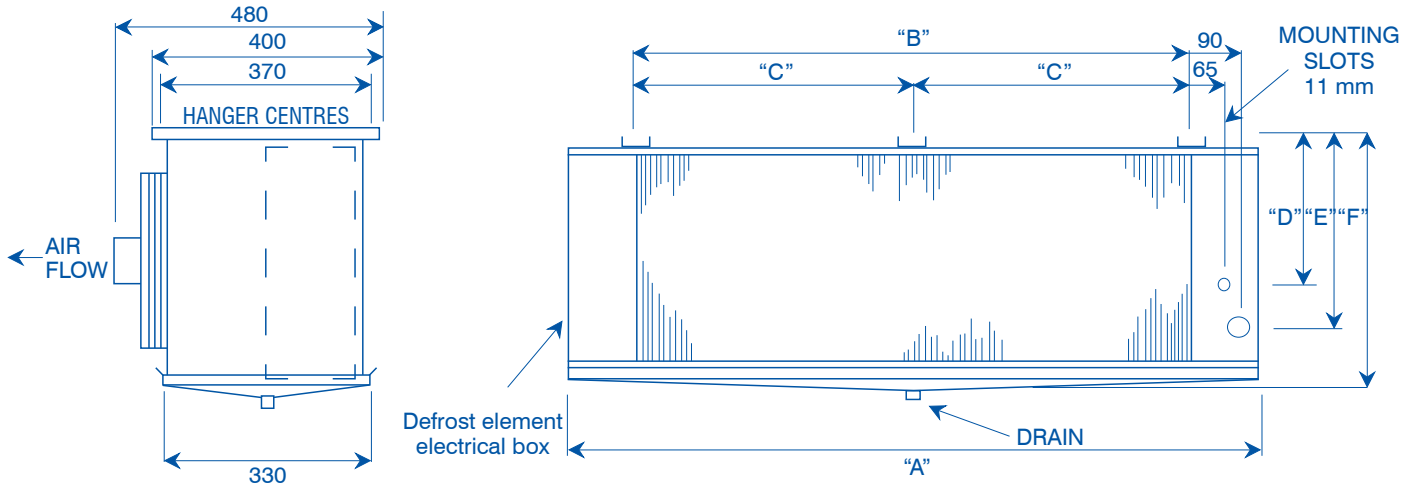
Electric Defrost Models SB1 to SB7, 230v, 1 phase supply
Models SB8 to SB17, 400v, 3 phase supply

Fin Spacing 3.2mm (8 fpi) and 4.2mm (6 fpi) as standard
High/medium temperature applications 3.2mm (8 fpi)
Medium/low temperature applications 4.2mm (6 fpi)

Alternative fin spacing of between 6.4mm to 2.1mm available (4 fpi - 12 fpi)

Options Alternative circuitry for brine/water solutions, copper fins, direction louvres, discharge grilles, easy flow joints, fan speed control, filters, high velocity fans, insulated drain trays, passivated or coated fins/case, re-heat elements, TEV fitted.

PHYSICAL DATA "SB" SERIES UNIT COOLERS



MODEL	CONNECTION SIZES (MM)				DIMENSIONS (MM)						WEIGHT KG
	SUCTION	LIQUID	DISTRIBUTOR	EXT. EQUALISER	A LENGTH	B HANGER CENTRES	C CENTRE HANGER	D LIQUID	E SUCTION	F HEIGHT	
SB1	15.9	6.4	12.7	6.35	710	470	-	275	355	470	15
SB2	15.9	6.4	12.7	6.35	860	620	-	275	355	470	22
SB3	22.2	9.5	12.7	6.35	1010	770	-	275	355	470	27
SB4	22.2	9.5	12.7	6.35	1160	920	-	275	355	470	30
SB5	22.2	9.5	12.7	6.35	1320	1080	-	275	355	470	38
SB6	22.2	9.5	12.7	6.35	1620	1380	-	275	355	470	45
SB7	28.6	9.5	12.7	6.35	1780	1540	-	275	355	470	54
SB8	28.6	12.7	12.7	6.35	2080	1840	920	275	355	470	60
SB9	28.6	12.7	12.7	6.35	2080	1840	920	326	406	520	66
SB10	28.6	12.7	12.7	6.35	2530	2290	1145	275	355	470	75
SB11	28.6	12.7	22.2	6.35	2530	2290	1145	326	406	520	85
SB12	28.6	12.7	22.2	6.35	2530	2290	1145	376	456	572	90
SB13	34.9	12.7	22.2	6.35	2990	2750	1375	326	406	520	96
SB14	34.9	15.9	22.2	6.35	2530	2290	1145	478	558	673	105
SB15	34.9	15.9	22.2	6.35	3300	3060	1530	376	456	572	112
SB16	34.9	15.9	22.2	6.35	2990	2750	1375	478	558	673	120
SB17	34.9	15.9	22.2	6.35	3300	3060	1530	478	558	673	132

Drain: 20mm as standard

Water defrost models: Dimensions D, E & F increase by 70mm
Drain 50mm

Due to product development, Complex reserves the right to change the specifications or design of the products contained in this brochure without prior notice.

