



# ST DUAL DISCHARGE SERIES



Sheet metal panels are fully powder coated for improved corrosion resistance.

Drain nipple material able to handle high temperatures.

Compact design to take up less space.

All fans are factory tested before dispatching.

All units are pressure tested to 30bar dry air.

Aluminum Side plates to reduce tube contact damage.

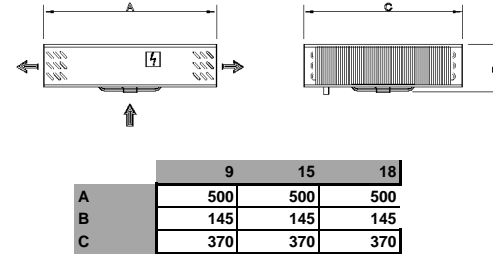
# ST SERIES

H: +10°C to +1°C  
L: +1°C to -30°C

		9 H/L	15 H/L	18 H/L
<b>FAN MOTOR TYPE</b>		230/1/50/60	230/1/50/60	230/1/50/60
<b>Fan Speed</b>	Rpm	1300	1300	1300
<b>Nominal Capacity at 0°C Evaporation Temperature 10K TD R22</b>	kW	0.45	0.67	0.90
	kcal/hr	387	576	774
	Btu/hr	1536	2287	3072
<b>Face Velocity</b>	M/sec*	2.3	2.3	2.2
<b>Air Volume</b>	M <sup>3</sup> /hr*	464	464	444
<b>Air Throw</b>	M*	3	3	3
<b>Fan Motor Power input</b>	Watt ea.	36	36	36
<b>Fan Motor Current draw</b>	Amp ea.	0.23	0.23	0.23
<b>No of Fans</b>	ø200mm	1	1	1
<b>Surface (HTA)</b>	M <sup>2</sup>	1.12	1.68	2.25
<b>Face Area</b>	M <sup>2</sup>	0.053	0.053	0.053
<b>Fin-Spacing</b>	mm	4.2	4.2	4.2
<b>Expansion Valve</b>		External	External	External
<b>Tube Volume</b>	Litre	0.3	0.45	0.6
<b>Electric Defrost 220/240 Volt</b>	kW	0.4	0.4	0.4
	L1 Amp	1.8	1.8	1.8
	L2 Amp	-	-	-
	L3 Amp	-	-	-
<b>Suction Connection</b>	ø	3/8"	3/8"	3/8"
<b>Liquid Connection</b>	ø	1/2"	1/2"	1/2"
<b>Drain Connection O.D.</b>	ø	5/8"	5/8"	5/8"
<b>Mass</b>	Kg	5	6	7

ST DUEL DISCHARGE

Do not install less than 500mm from wall  
Flush Ceiling Mount  
Dimensions E & F refer to the suction outlet of the coil



ST DUEL DISCHARGE

### MULTIPLY CORRECTION FACTOR - R22

Evaporating Temperature °C TD	-35°	-30°	-25°	-20°	-15°	-10°	-5°	0°	5°
<b>5K</b>	0.45	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.70
<b>6</b>	0.54	0.57	0.59	0.60	0.61	0.62	0.63	0.64	0.79
<b>7</b>	0.63	0.66	0.68	0.69	0.70	0.71	0.72	0.73	0.88
<b>8</b>	0.72	0.75	0.77	0.78	0.79	0.80	0.81	0.82	0.97
<b>9</b>	0.81	0.84	0.86	0.87	0.88	0.89	0.90	0.91	1.06
<b>10</b>	0.90	0.93	0.95	0.96	0.97	0.98	0.99	1.00	1.15

By using refrigerant other than R22 apply the following correction factor: (kW/CR)

Evaporation Temperature (°C)	-10°	-15°	-20°	-25°	-35°
R134a	1.00	0.95	0.92	0.90	-
R404a	1.00	0.96	0.94	0.91	0.90

REFRIGERANT MASS: Approx. 25% Volume of Tubes x Specific Mass of Liquid Refrigerant

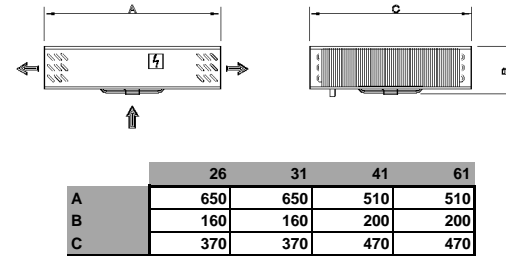
# ST SERIES

H: +10°C to +1°C  
L: +1°C to -30°C

		26 H/L	31 H/L	41 H/L	61 H/L
<b>FAN MOTOR TYPE</b>		230/1/50/60	230/1/50/60	230/1/50/60	230/1/50/60
<b>Fan Speed</b>	Rpm	1300	1300	1300	1300
<b>Nominal Capacity at 0°C Evaporation Temperature 10K TD R22</b>	kW	1.12	1.35	1.86	2.32
	kcal/hr	963	1161	1599	1995
	Btu/hr	3823	4608	6348	7918
<b>Face Velocity</b>	M/sec*	2.2	2.5	2.5	2.2
<b>Air Volume</b>	M <sup>3</sup> /hr*	444	504	1026	882
<b>Air Throw</b>	M*	3	2	3	3
<b>Fan Motor Power input</b>	Watt ea.	60	60	60	60
<b>Fan Motor Current draw</b>	Amp ea.	0.42	0.42	0.42	0.42
<b>No of Fans</b>	ø250mm	1	1	1	1
<b>Surface (HTA)</b>	M <sup>2</sup>	2.81	3.37	4.65	5.81
<b>Face Area</b>	M <sup>2</sup>	0.058	0.058	0.116	0.116
<b>Fin-Spacing</b>	mm	4.2	4.2	4.2	4.2
<b>Expansion Valve</b>		External	External	External	External
<b>Tube Volume</b>	Litre	0.75	0.9	1.1	1.4
<b>Electric Defrost 220/240 Volt</b>	kW	0.8	0.8	0.8	0.8
	L1 Amp	3.6	3.6	3.6	3.6
	L2 Amp	-	-	-	-
	L3 Amp	-	-	-	-
<b>Suction Connection</b>	ø	3/8"	3/8"	3/8"	3/8"
<b>Liquid Connection</b>	ø	1/2"	1/2"	1/2"	1/2"
<b>Drain Connection O.D.</b>	ø	5/8"	5/8"	5/8"	5/8"
<b>Mass</b>	Kg	10	11	12	15

ST DUEL DISCHARGE

Do not install less than 500mm from wall  
Flush Ceiling Mount  
Dimensions E & F refer to the suction outlet of the coil



ST DUEL DISCHARGE

### MULTIPLY CORRECTION FACTOR - R22

Evaporating Temperature °C	-35°	-30°	-25°	-20°	-15°	-10°	-5°	0°	5°
<b>TD</b>									
<b>5K</b>	0.45	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.70
<b>6</b>	0.54	0.57	0.59	0.60	0.61	0.62	0.63	0.64	0.79
<b>7</b>	0.63	0.66	0.68	0.69	0.70	0.71	0.72	0.73	0.88
<b>8</b>	0.72	0.75	0.77	0.78	0.79	0.80	0.81	0.82	0.97
<b>9</b>	0.81	0.84	0.86	0.87	0.88	0.89	0.90	0.91	1.06
<b>10</b>	0.90	0.93	0.95	0.96	0.97	0.98	0.99	1.00	1.15

By using refrigerant other than R22 apply the following correction factor: (kW/CR)

Evaporation Temperature (°C)	-10°	-15°	-20°	-25°	-35°
R134a	1.00	0.95	0.92	0.90	-
R404a	1.00	0.96	0.94	0.91	0.90

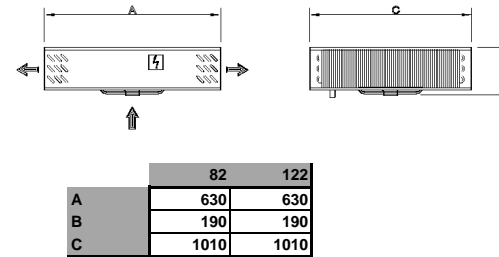
# ST SERIES

H: +10°C to +1°C  
L: +1°C to -30°C

		82 H/L	122 H/L
FAN MOTOR TYPE		230/1/50/60	230/1/50/60
Fan Speed	Rpm	1300	1300
Nominal Capacity at 0°C Evaporation Temperature 10K TD R22	kW	3.72	4.64
	kcal/hr	3198	3989
	Btu/hr	12696	15836
Face Velocity	M/sec*	2.5	2.2
Air Volume	M <sup>3</sup> /hr*	1696	1274
Air Throw	M*	3	3
Fan Motor Power input	Watt ea.	60	60
Fan Motor Current draw	Amp ea.	0.42	0.42
No of Fans	ø250mm	2	2
Surface (HTA)	M <sup>2</sup>	9.30	11.62
Face Area	M <sup>2</sup>	0.252	0.252
Fin-Spacing	mm	4.2	4.2
Expansion Valve		External	External
Tube Volume	Litre	2.2	2.8
Electric Defrost 220/240 Volt	kW	1.6	1.6
	L1 Amp	7.2	7.2
	L2 Amp	-	-
	L3 Amp	-	-
Suction Connection	ø	3/8"	3/8"
Liquid Connection	ø	1/2"	1/2"
Drain Connection O.D.	ø	5/8"	5/8"
Mass	Kg	24	30

ST DUEL DISCHARGE

Do not install less than 500mm from wall  
Flush Ceiling Mount  
Dimensions E & F refer to the suction outlet of the coil



ST DUEL DISCHARGE

### MULTIPLY CORRECTION FACTOR - R22

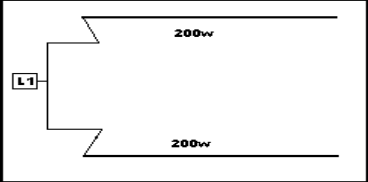
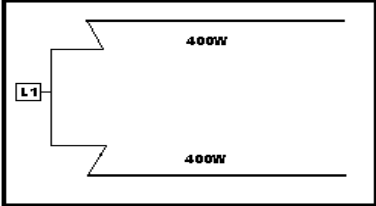
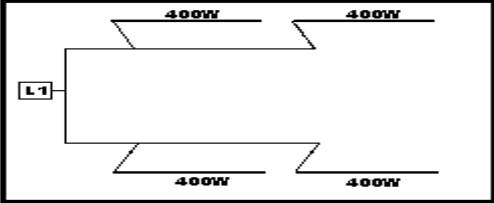
Evaporating Temperature °C TD	-35°	-30°	-25°	-20°	-15°	-10°	-5°	0°	5°
5K	0.45	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.70
6	0.54	0.57	0.59	0.60	0.61	0.62	0.63	0.64	0.79
7	0.63	0.66	0.68	0.69	0.70	0.71	0.72	0.73	0.88
8	0.72	0.75	0.77	0.78	0.79	0.80	0.81	0.82	0.97
9	0.81	0.84	0.86	0.87	0.88	0.89	0.90	0.91	1.06
10	0.90	0.93	0.95	0.96	0.97	0.98	0.99	1.00	1.15

By using refrigerant other than R22 apply the following correction factor: (kW/CR)

Evaporation Temperature (°C)	-10°	-15°	-20°	-25°	-35°
R134a	1.00	0.95	0.92	0.90	-
R404a	1.00	0.96	0.94	0.91	0.90

REFRIGERANT MASS: Approx. 25% Volume of Tubes x Specific Mass of Liquid Refrigerant

# ST SERIES - FAN AND ELEMENT DATA

ST Model	No of Fans	Fan Amperage 220V	Heater Configuration	Element Amperage		Element KW
9 15 18	1	0.23A		L1	1.8A	0.4kW
26 31 41 61	1	0.42A		L1	3.6A	0.8kW
82 122	2	0.84A		L1	7.2A	1.6kW



## CT SERIES



Sheet metal panels are fully powder coated for improved corrosion resistance.

Drain nipple material able to handle high temperatures.

Compact design to take up less space.

All fans are factory tested before dispatching.

All units are pressure tested to 30bar dry air.

Aluminum Side plates to reduce tube contact damage.

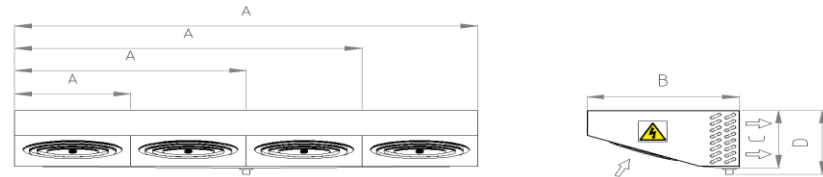
# CT SERIES

H: +10°C to +1°C  
L: +1°C to -30°C

		08 H/L	015 H/L	024 H/L	032 H/L
<b>FAN MOTOR TYPE</b>		230/1/50/60	230/1/50/60	230/1/50/60	230/1/50/60
<b>Fan Speed</b>	Rpm	1300	1300	1300	1300
<b>Nominal Capacity at 0°C Evaporation Temperature 10K TD R22</b>	kW	1.35	2.80	4.04	5.68
	kcal/hr	1161	2407	3474	4884
	Btu/hr	4608	9556	13789	19386
<b>Face Velocity</b>	M/sec*	3.3	3.3	3.3	3.3
<b>Air Volume</b>	M <sup>3</sup> /hr*	558	1129	1687	2245
<b>Air Throw</b>	M*	4	4	4	4
<b>Fan Motor Power input</b>	Watt ea.	70	70	70	70
<b>Fan Motor Current draw</b>	Amp ea.	0.42	0.42	0.42	0.42
<b>No of Fans</b>	ø250mm	1	2	3	4
<b>Surface (HTA)</b>	M <sup>2</sup>	1.98	3.97	5.95	7.93
<b>Face Area</b>	M <sup>2</sup>	0.047	0.095	0.142	0.189
<b>Fin-Spacing</b>	mm	4.2	4.2	4.2	4.2
<b>Expansion Valve</b>		Internal	Internal	Internal	External
<b>Tube Volume</b>	Litre	0.6	1.1	1.6	2.1
<b>Electric Defrost 220/240 Volt</b>	kW	0.47	0.94	1.4	1.9
	L1 Amp	2.1	4.3	6.3	8.6
	L2 Amp	-	-	-	-
	L3 Amp	-	-	-	-
<b>Suction Connection</b>	ø	3/8"	3/8"	3/8"	1/2"
<b>Liquid Connection</b>	ø	3/8"	3/8"	3/8"	3/8"
<b>Drain Connection O.D.</b>	ø	5/8"	5/8"	5/8"	5/8"
<b>Mass</b>	Kg	5	9	13	16

CT REAR DISCHARGE

Do not install less than 500mm from wall  
Flush Ceiling Mount  
Dimensions E & F refer to the suction outlet of the coil



	8	15	24	32
<b>A</b>	450	775	1100	1420
<b>B</b>	470	470	470	470
<b>C</b>	180	180	180	180
<b>D</b>	210	210	210	210

### MULTIPLY CORRECTION FACTOR - R22

Evaporating Temperature °C TD	-35°	-30°	-25°	-20°	-15°	-10°	-5°	0°	5°
5K	0.45	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.70
6	0.54	0.57	0.59	0.60	0.61	0.62	0.63	0.64	0.79
7	0.63	0.66	0.68	0.69	0.70	0.71	0.72	0.73	0.88
8	0.72	0.75	0.77	0.78	0.79	0.80	0.81	0.82	0.97
9	0.81	0.84	0.86	0.87	0.88	0.89	0.90	0.91	1.06
10	0.90	0.93	0.95	0.96	0.97	0.98	0.99	1.00	1.15

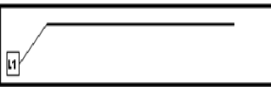
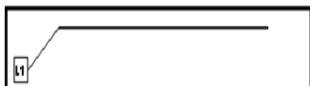
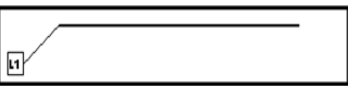
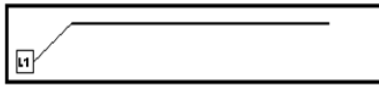
By using refrigerant other than R22 apply the following correction factor: (kW/CR)

Evaporation Temperature (°C)	-10°	-15°	-20°	-25°	-35°
R134a	1.00	0.95	0.92	0.90	-
R404a	1.00	0.96	0.94	0.91	0.90

CT REAR DISCHARGE

REFRIGERANT MASS: Approx. 25% Volume of Tubes x Specific Mass of Liquid Refrigerant

# CT SERIES - FAN AND ELEMENT DATA

CT Model	No of Fans	Fan Amperage 220V	Heater Configuration	Element Amperage		Element KW
				L1		
8	1	0.42A		L1	2.1A	0.47kW
15	2	0.84A		L1	4.2A	0.94kW
24	3	1.26A		L1	6.3A	1.4kW
32	4	1.68A		L1	8.6A	1.9kW





## MC SERIES



Sheet metal panels are fully powder coated for improved corrosion resistance.

Drain nipple material able to handle high temperatures.

Compact design to take up less space.

All fans are factory tested before dispatching.

All units are pressure tested to 30bar dry air.

Aluminum Side plates to reduce tube contact damage.

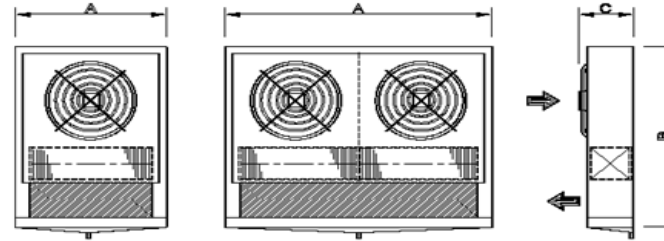
# MC SERIES

H: +10°C to +1°C  
L: +1°C to -30°C

		35 H/L	60 H/L
FAN MOTOR TYPE		230/1/50/60	230/1/50/60
Fan Speed	Rpm	1300	1300
Nominal Capacity at 0°C Evaporation Temperature 10K TD R22	kW	1.29	2.29
	kcal/hr	1109	1969
	Btu/hr	4403	7816
Face Velocity	M/sec*	2.0	2.0
Air Volume	M <sup>3</sup> /hr*	317	590
Air Throw	M*	4	4
Fan Motor Power input	Watt ea.	70	70
Fan Motor Current draw	Amp ea.	0.42	0.42
No of Fans	ø250mm	1	2
Surface (HTA)	M <sup>2</sup>	3.24	5.73
Face Area	M <sup>2</sup>	0.044	0.082
Fin-Spacing	mm	4.2	4.2
Expansion Valve		Internal	Internal
Tube Volume	Litre	0.9	1.5
Electric Defrost 220/240 Volt	kW	0.2	0.4
	L1 Amp	0.9	1.8
	L2 Amp	-	-
	L3 Amp	-	-
Suction Connection	ø	3/8"	3/8"
Liquid Connection	ø	3/8"	3/8"
Drain Connection O.D.	ø	5/8"	5/8"
Mass	Kg	9	14

MC MORTUARY COIL

Do not install less than 500mm from wall  
Flush Ceiling Mount  
Dimensions E & F refer to the suction outlet of the coil



	35	60
A	450	740
B	645	645
C	170	170

MC MORTUARY COIL

### MULTIPLY CORRECTION FACTOR - R22

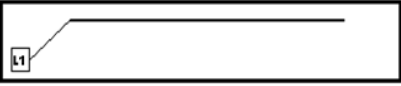
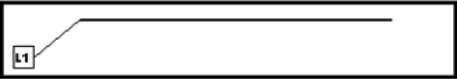
Evaporating Temperature °C TD	-35°	-30°	-25°	-20°	-15°	-10°	-5°	0°	5°
5K	0.45	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.70
6	0.54	0.57	0.59	0.60	0.61	0.62	0.63	0.64	0.79
7	0.63	0.66	0.68	0.69	0.70	0.71	0.72	0.73	0.88
8	0.72	0.75	0.77	0.78	0.79	0.80	0.81	0.82	0.97
9	0.81	0.84	0.86	0.87	0.88	0.89	0.90	0.91	1.06
10	0.90	0.93	0.95	0.96	0.97	0.98	0.99	1.00	1.15

By using refrigerant other than R22 apply the following correction factor: (kW/CR)

Evaporation Temperature (°C)	-10°	-15°	-20°	-25°	-35°
R134a	1.00	0.95	0.92	0.90	-
R404a	1.00	0.96	0.94	0.91	0.90

REFRIGERANT MASS: Approx. 25% Volume of Tubes x Specific Mass of Liquid Refrigerant

# MC SERIES - FAN AND ELEMENT DATA

MC Model	No of Fans	Fan Amperage 220V	Heater Configuration	Element Amperage		Element KW
				L1		
35	1	0.42A		L1	0.9A	0.2kW
60	2	0.84A		L1	1.8A	0.4kW