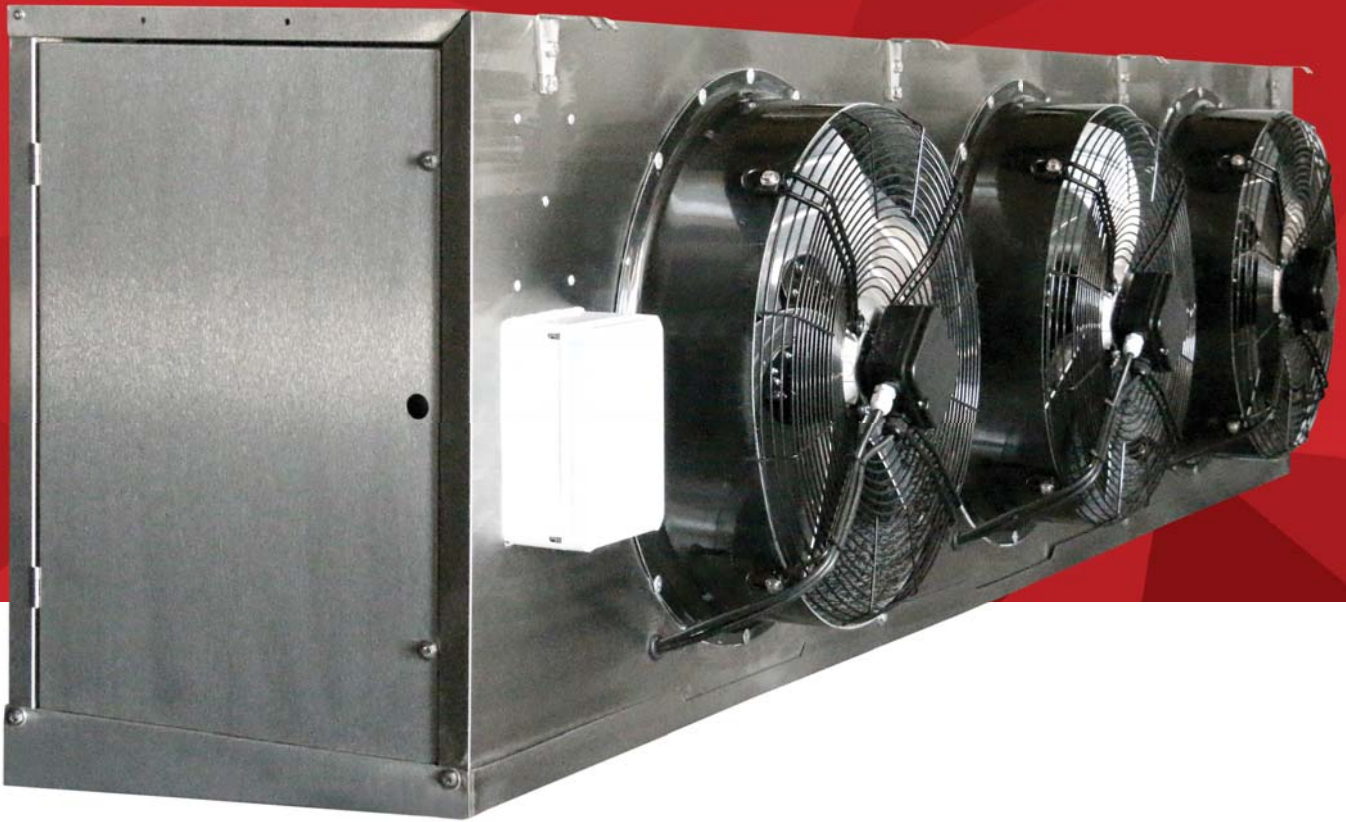




300mm fan version (medium temperature) shown

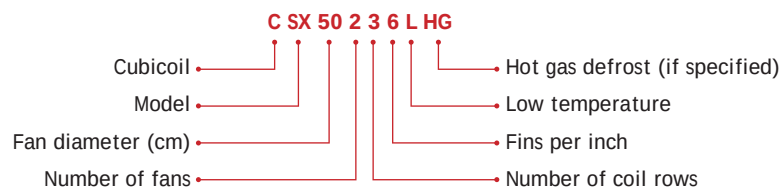


The Cubicoil range of units comprise of various models for both medium and low temperature applications with 300, 350, 500 and 630 diameter fans, in 1 - 5 fan setups. The range makes use of 6 fins per inch with fan spacing of 4.2mm as well as 4 fins per inch with a fin spacing of 6.35mm.

The units are available with electric defrost as well as hot gas defrost, and are compatible with all standard refrigerants and CO₂. The units have an attractive stainless steel finish.

STANDARD FEATURES:

- Standard Cu/Al evaporator
- 430 stainless steel cladding
- Morrill fan motors
- Intermediate drip tray
- Drain fitting
- Defrost heaters on all 'L' models
- Hot gas defrost on all 'HG' models
- Standard supplied dressed including:
 - Thermostatic expansion valve
 - Solenoid valve
 - P-trap
 - Electronic expansion valves (optional)



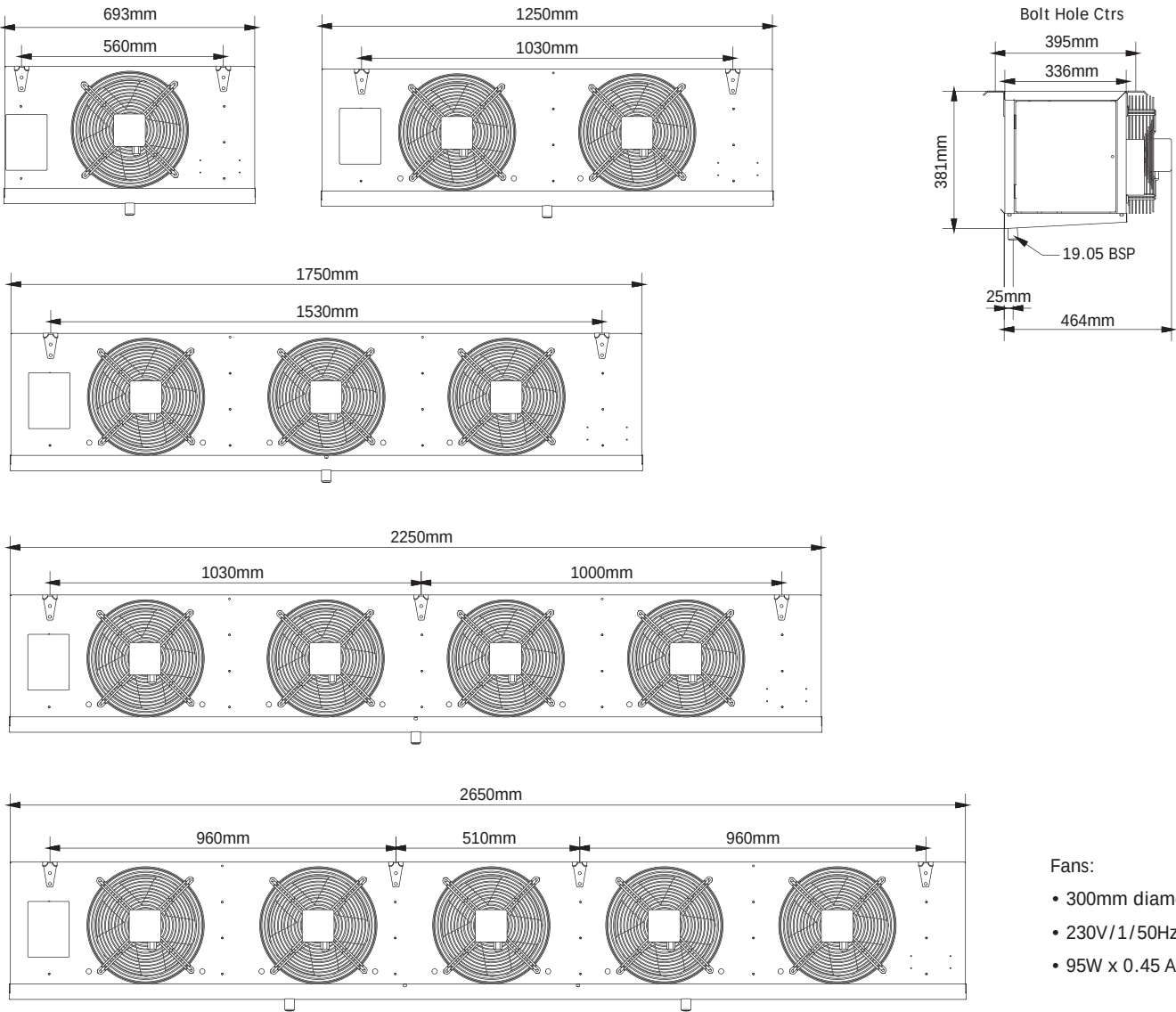
Standard Evaporator: 300mm

Technical Specifications

Model CSX		301-3-6	301-5-6	302-3-6	302-5-4	302-5-6	303-3-6	303-5-4	303-5-6	304-5-4	304-5-6	305-5-6
R404A capacity @ 6K TD [kW]	T _e : -5°C	1.50	2.30	2.90	4.30	4.70	4.60	6.60	7.20	8.80	9.50	11.50
	T _e : -25°C	1.20	2.10	2.40	3.50	3.80	3.80	5.50	5.90	7.20	7.70	9.60
No. of fans [300mm]		1	1	2	2	2	3	3	3	4	4	5
Air flow [m³/s]		0.54	0.51	0.99	1.27	1.13	1.78	1.91	1.70	2.54	2.27	2.71
Coil surface area [m²]		6.35	10.59	11.99	14.55	19.98	17.98	21.83	29.97	29.10	39.96	47.95
Dry weight [kg]		16	19	29	34	36	44	51	52	67	69	83
Tube internal volume [l]		2.11	3.47	3.69	6.09	6.09	5.34	8.87	8.87	11.70	11.70	13.1
Connections (Suction // Liquid) ["]	Med Temp	1/2 // 3/8	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	7/8 // 3/8	7/8 // 1/2	1 1/8 // 1/2	1 1/8 // 1/2
	Low Temp	1/2 // 3/8	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	7/8 // 3/8	7/8 // 3/8	1 1/8 // 1/2	1 1/8 // 1/2	1 1/8 // 1/2
Coil rows		3	5	3	5	5	3	5	5	5	5	5
Low temp models only	Electric defrost [kW]	1.00	1.50	2.00	3.00	3.00	3.00	4.50	4.50	6.00	6.00	7.50
	Phase - L1 [A]	4	6	8	12	12	12	18	18	12	12	12
	Phase - L2 [A]									12	12	18

Face Velocity: 3 - 3.5m/s

Physical Dimensions



- Fans:
- 300mm diameter
 - 230V/1/50Hz
 - 95W x 0.45 A

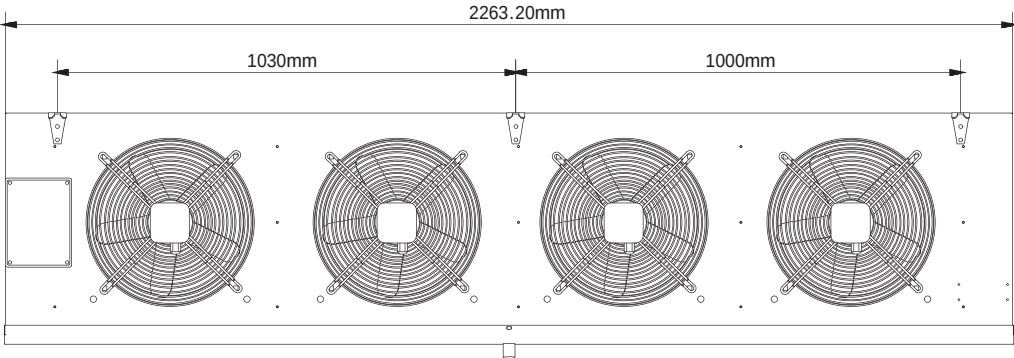
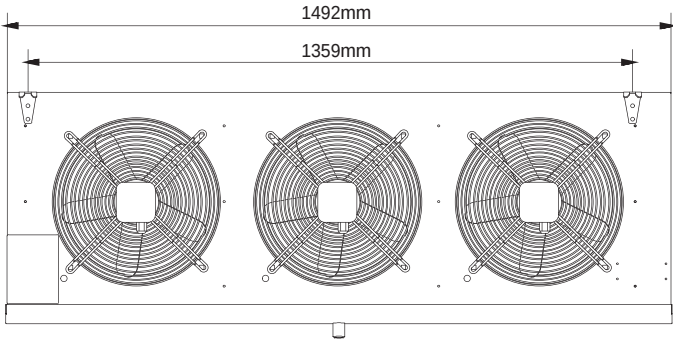
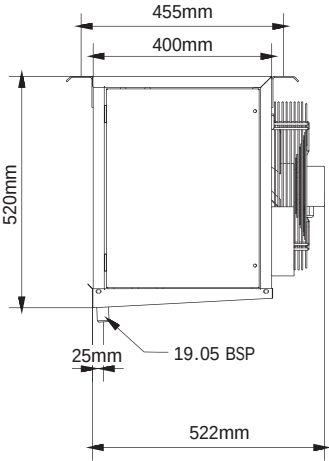
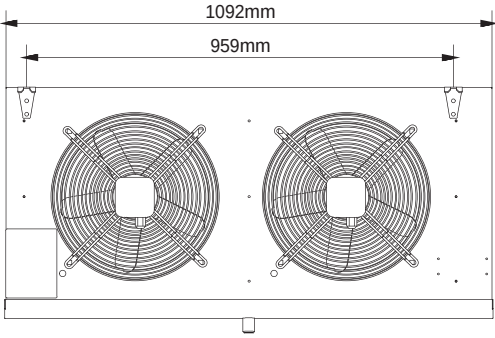
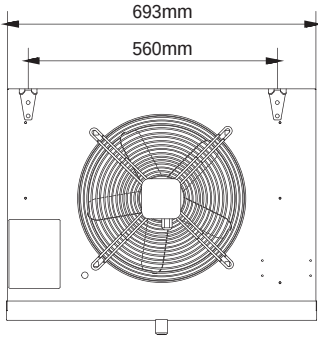
Standard Evaporator: 350mm

Technical Specifications

Model CSX		351-3-6	351-5-6	352-3-6	352-5-4	352-5-6	353-5-4	353-5-6	354-5-4	354-5-6
R404A capacity @ 6K TD [kW]	T _e : -5°C	2.40	3.50	4.20	6.00	6.60	8.80	10.00	13.50	14.60
	T _e : -25°C	2.10	2.50	3.80	4.80	5.10	7.90	8.80	10.90	11.50
No. of fans [350mm]		1	1	2	2	2	3	3	4	4
Air flow [m³/s]		0.98	0.93	1.60	1.89	1.72	2.87	2.61	4.32	3.93
Coil surface area [m²]		8.90	14.83	15.61	18.95	26.02	27.10	38.89	40.75	55.95
Dry weight [kg]		22	26	41	46	48	67	67	92	93
Tube internal volume [l]		2.95	4.90	4.83	8.02	8.02	11.20	11.20	16.38	16.38
Connections (Suction // Liquid) ["]	Med Temp	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	7/8 // 3/8	1 1/8 // 1/2	1 1/8 // 1/2	1 1/8 // 1/2	1 1/8 // 1/2
	Low Temp	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8	7/8 // 3/8	1 1/8 // 1/2	1 1/8 // 1/2	1 1/8 // 1/2	1 1/8 // 1/2
Coil rows		3	5	3	5	5	5	5	5	5
Low temp models only	Electric defrost [kW]	2.00	3.00	2.00	3.00	3.00	6.00	6.00	6.00	6.00
	Phase - L1 [A]	8	12	8	12	12	12	12	12	12
	Phase - L2 [A]						12	12	12	12

Face Velocity: 3 - 3.5m/s

Physical Dimensions



- Fans:
- 350mm diameter
 - 230V/1/50Hz
 - 130W x 0.65 A

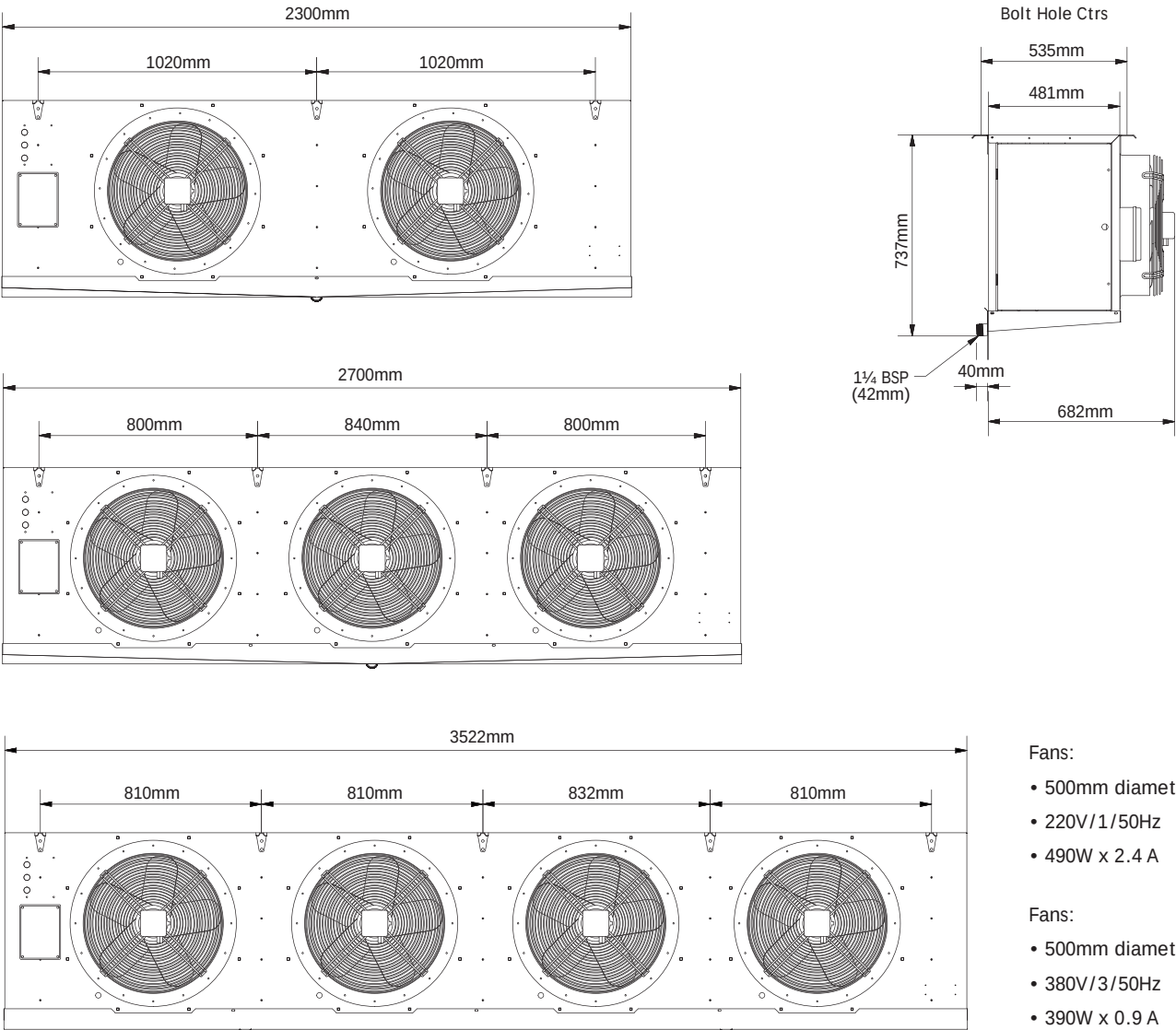
Standard Evaporator: 500mm

Technical Specifications

Model CSX		502-3-6	502-4-4	502-5-6	502-6-4	503-5-6	503-6-4	504-6-4
R404A capacity @ 6K TD [kW]	T _e : -5°C	11.70	14.60	18.90	20.50	22.40	26.10	35.00
	T _e : -25°C	10.60	12.90	16.10	18.00	18.00	21.80	29.40
No. of fans [500mm]		2	2	2	2	3	3	4
Air flow [m³/s]		4.92	5.37	4.92	5.22	5.90	7.19	9.64
Coil surface area [m²]		43.50	52.55	72.51	78.83	86.89	94.47	126.69
Dry weight [kg]		90	100	96	125	174	206	255
Tube internal volume [l]		12.85	23.47	21.40	34.93	25.37	41.69	55.09
Connections (Suction // Liquid) ["]	Med Temp	1 1/8 // 1/2	1 1/8 // 1/2	1 1/8 // 5/8	1 3/8 // 5/8	1 3/8 // 5/8	1 3/8 // 5/8	1 5/8 // 7/8
	Low Temp	1 1/8 // 1/2	1 1/8 // 1/2	1 1/8 // 5/8	1 1/8 // 5/8	1 3/8 // 5/8	1 3/8 // 5/8	1 5/8 // 7/8
Coil rows		3	4	5	6	5	6	6
Low temp models only	Electric defrost [kW]	6.00	9.00	9.00	8.00	9.00	12.00	16
	Phase - L1 [A]	12	12	12	16	12	16	18
	Phase - L2 [A]	12	12	12	16	12	16	24
	Phase - L3 [A]		12	12		12	16	24

Face Velocity: 4 - 4.5m/s

Physical Dimensions



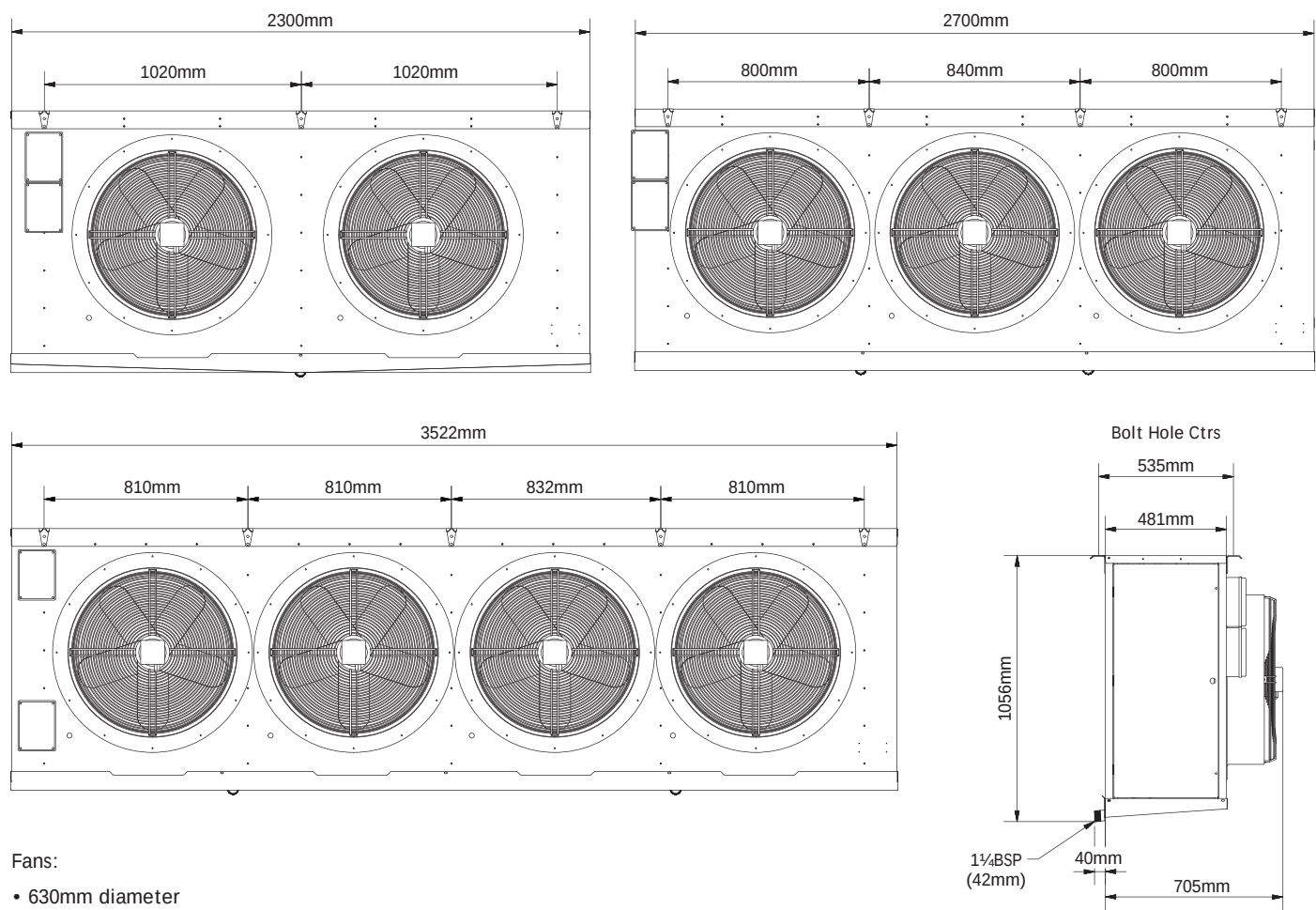
Standard Evaporator: 630mm

Technical Specifications

Model CSX		632-6-4	633-6-4	634-6-4
R404A capacity @ 6K TD [kW]	T _e : -5°C	30.70	41.40	51.10
	T _e : -25°C	23.80	34.30	42.90
No. of fans [630mm]		2	3	4
Air flow [m³/s]		8.32	12.33	13.48
Coil surface area [m²]		117.31	140.77	190.04
Dry weight [kg]		204	235	314
Tube internal volume [l]		52.42	62.15	83.44
Connections (Suction // Liquid) ["]	Med Temp	1 5/8 // 7/8	2 1/8 // 7/8	2 1/8 // 11/8
	Low Temp	1 5/8 // 7/8	1 5/8 // 7/8	2 1/8 // 11/8
Coil rows		6	6	6
Low temp models only	Electric defrost [kW]	12	18	24
	Phase - L1 [A]	18	27	36
	Phase - L2 [A]	18	27	36
	Phase - L3 [A]	18	27	36

Face Velocity: 4.5 - 5m/s

Physical Dimensions



- Fans:
- 630mm diameter
 - 380V/3/50Hz
 - 1100W x 2 A

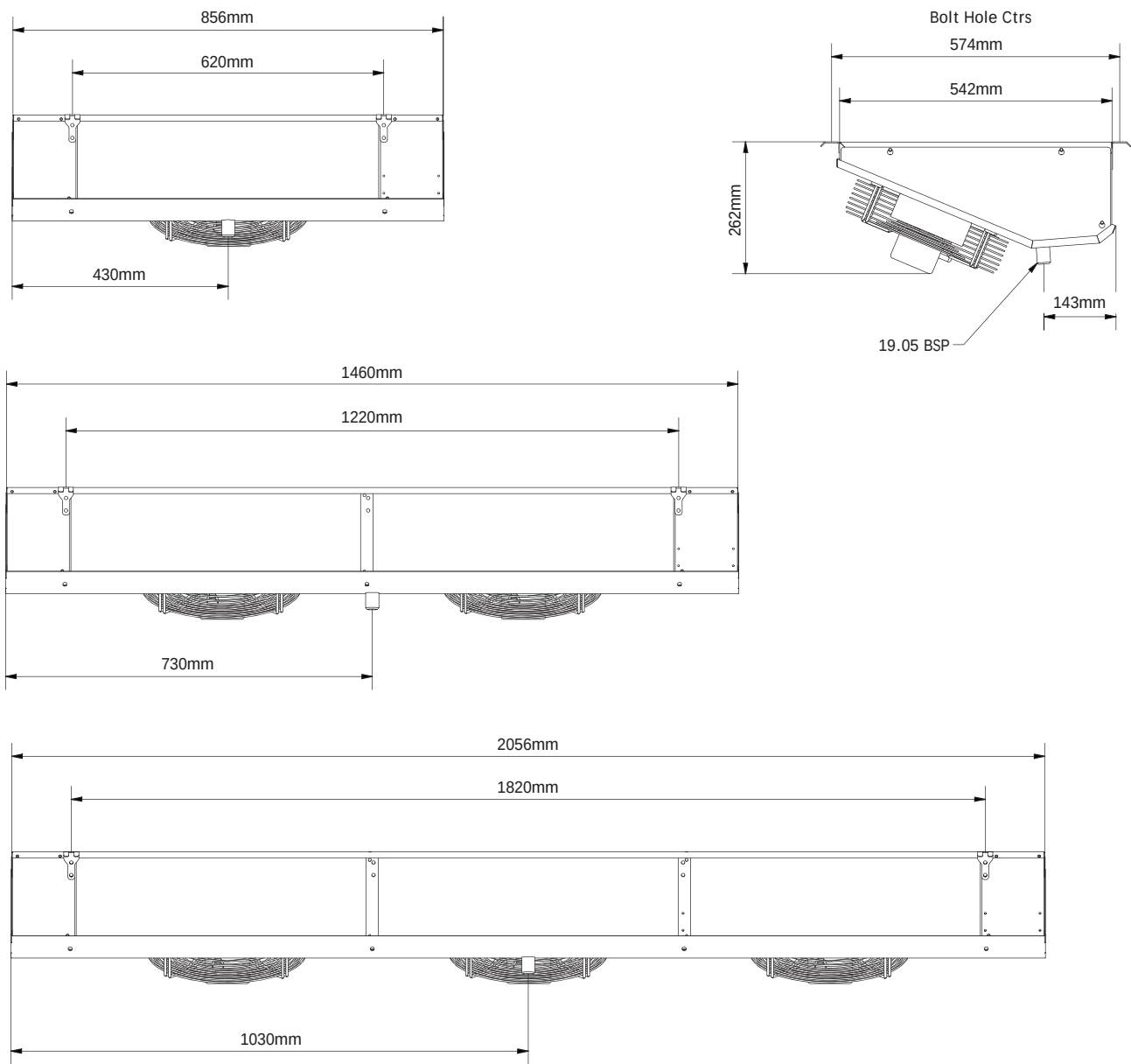
Angled Evaporator: 300mm

Technical Specifications

Model CCA		301-5-6	302-5-6	303-5-6
R404A capacity @ 6K TD [kW]	T _e : -5°C	1.84	3.76	5.76
	T _e : -25°C	1.68	3.04	4.75
No. of fans [300mm]		1	2	3
Air flow [m³/s]		0.4	0.91	1.36
Coil surface area [m²]		7.19	14.39	21.58
Dry weight [kg]		16	31	47
Tube internal volume [l]		2.3	4.31	6.3
Connections (Suction // Liquid) ["]	Med Temp	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8
	Low Temp	5/8 // 3/8	5/8 // 3/8	5/8 // 3/8
Coil rows		5	5	5
Low temp models only	Electric defrost [kW]	1.5	3	4.5
	Phase - L1 [A]	6	12	18

Face Velocity: 2.5 - 3m/s

Physical Dimensions



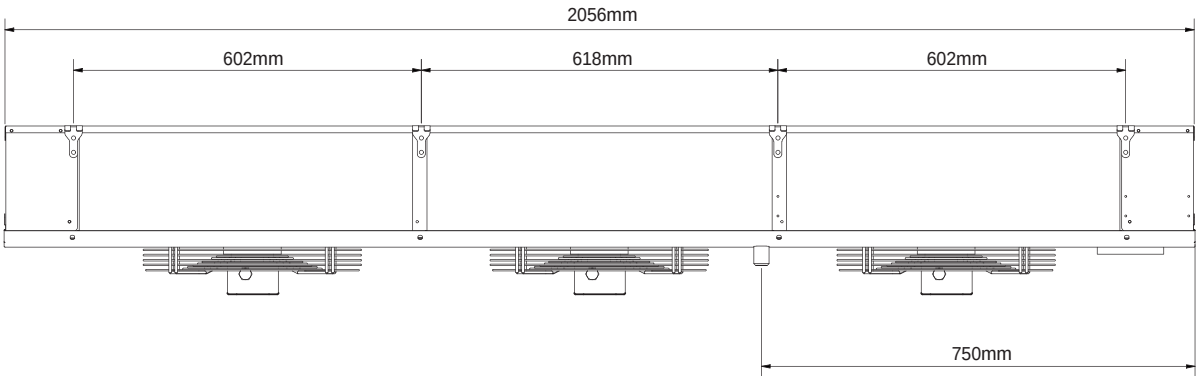
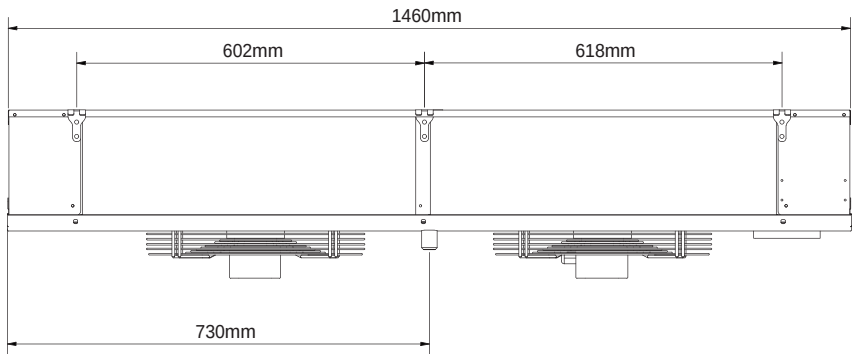
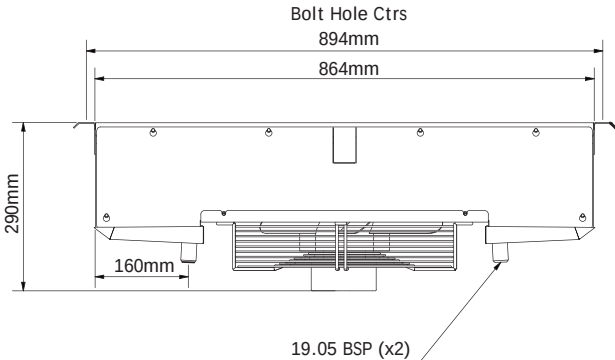
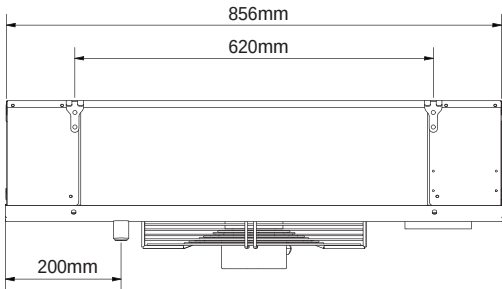
Dual-Discharge Evaporator: 350mm

Technical Specifications

Model CCD		351-5-6	352-5-6	353-5-6
R404A capacity @ 6K TD [kW]	T _e : -5°C	3.65	7.52	11.52
	T _e : -25°C	3.36	6.08	9.44
No. of fans [350mm]		1	2	3
Air flow [m³/s]		0.69	1.29	1.95
Coil surface area [m²]		14.38	28.78	43.16
Dry weight [kg]		27	51	73
Tube internal volume [l]		4.6	8.62	12.6
Connections (Suction // Liquid) ["]	Med Temp	5/8 // 3/8	7/8 // 1/2	7/8 // 1/2
	Low Temp	5/8 // 3/8	5/8 // 3/8	7/8 // 1/2
Coil rows		5	5	5
Low temp models only	Electric defrost [kW]	3	6	9
	Phase - L1 [A]	12	12	18
	Phase - L1 [A]		12	18

Face Velocity: 2.5 - 3m/s

Physical Dimensions



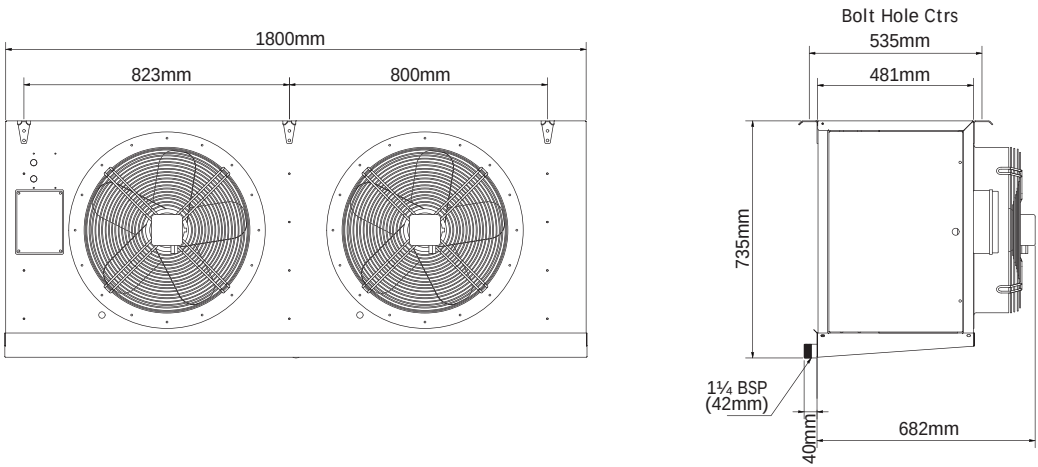
Container Coil: 500mm

Technical Specifications

Model CSX		402-5-6
R404A capacity @ 6K TD [kW]	T _e : -5°C	16.5
	T _e : -25°C	14.1
No. of fans [500mm]		2
Air flow [m³/s]		5.44
Coil surface area [m²]		63.94
Dry weight [kg]		90
Tube internal volume [l]		19.2
Connections (Suction // Liquid) ["]	Med Temp	1 1/8 // 1/2
	Low Temp	1 1/8 // 1/2
Coil rows		5
Low temp models only	Electric defrost [kW]	9
	Phase - L1 [A]	12
	Phase - L2 [A]	12
	Phase - L3 [A]	12

Face Velocity: 4 - 4.5m/s

Physical Dimensions



Correction Factor Table

Capacity Correction Factors

R404A Correction Factor								
TD	Evaporation Temp [°C]							
	-30	-25	-20	-15	-10	-5	0	5
5	0.66	0.70	0.73	0.75	0.78	0.81	0.80	0.81
6	0.79	0.84	0.88	0.91	0.96	1.00	1.00	1.03
7	0.90	0.96	1.02	1.07	1.13	1.18	1.20	1.24
8	1.01	1.09	1.16	1.23	1.30	1.36	1.39	1.45
9	1.11	1.20	1.29	1.38	1.47	1.54	1.58	1.66
10	1.20	1.31	1.42	1.52	1.63	1.72	1.77	1.87
R407C: Multiply the corrected capacity by an additional 1.4								
R134A: Multiply the corrected capacity by an additional 0.9								

eg: Evaporation temperature: -5°C Temperature difference: 8°C Model: CSX 352-5-6

At an evaporator temperature of -5°C and a temperature difference of 6°C using R404A the unit has a capacity of 6.60kW as specified in the technical data. Under the new conditions, using R404A, the unit would have a capacity of 8.98kW (6.60kW x 1.36 correction factor) where the correction factor was taken from the above table. If R407C is required, multiply the corrected capacity by 1.4. This yields a capacity of 12.57kW (8.98kW x 1.4). If R134A is to be used the corrected capacity is multiplied by 0.9. This would yield a capacity of 8.08kW (8.98kW x 0.9).

Notes

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Notes

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For all enquiries please contact us at info@cubicool.co.za

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