COLDTECH

Reliability You Trust

Engineering Trust
DELIVERING COOL

www.coldtechgroup.com

COLDTECH GROUP

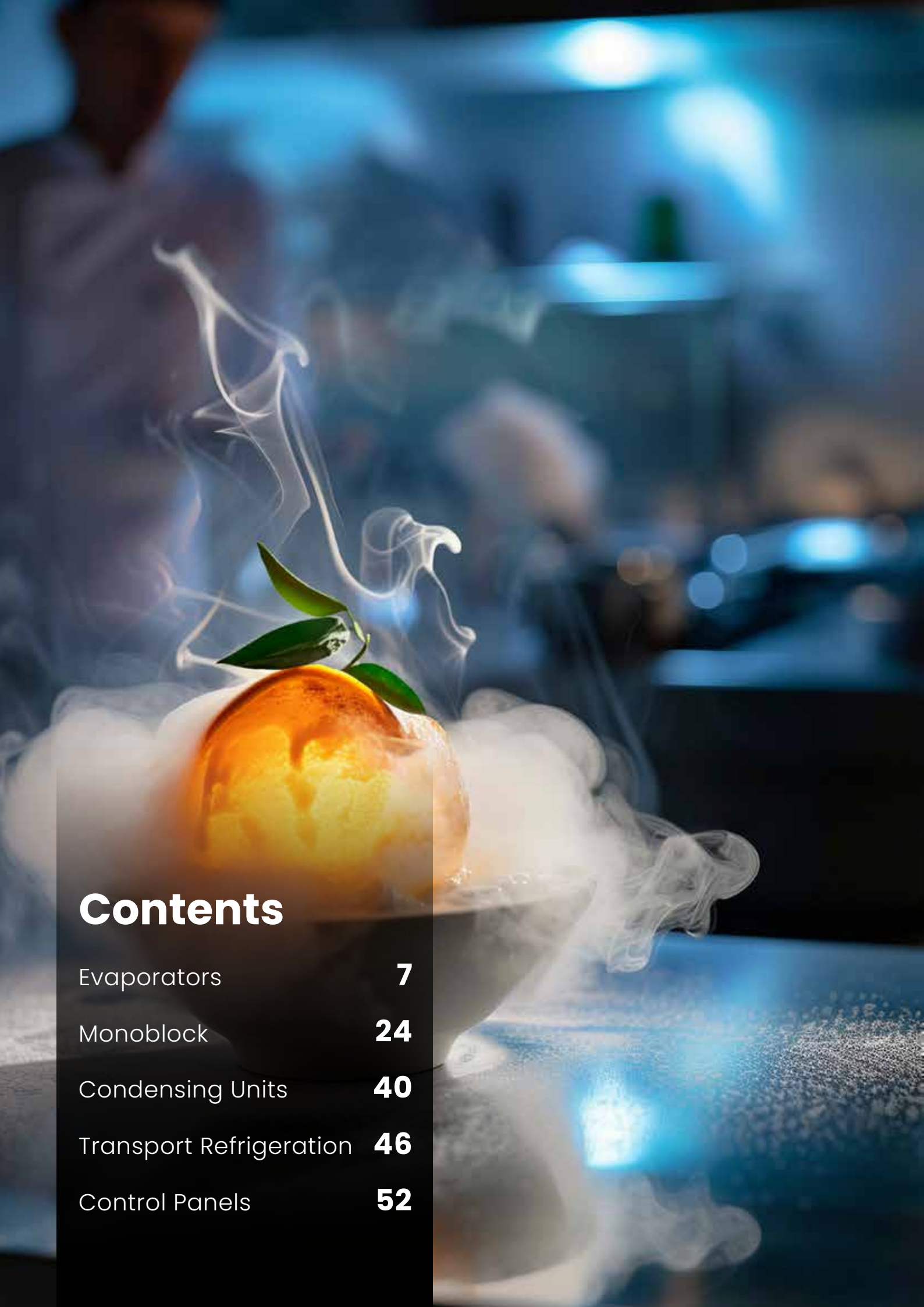
Engineering Cooling for Tomorrow

ColdTech Group is a global leader in advanced refrigeration systems, delivering innovative, energy-efficient, and environmentally responsible solutions across industries. Our engineering philosophy is grounded in precision and long-term performance: from condensing units and evaporators to temperature-control panels, monoblock refrigeration units, power rack systems and industrial ice makers. Each product is meticulously designed to deliver high performance under demanding conditions while ensuring seamless integration and low environmental impact.

We serve critical applications across the spectrum: for food-processing environments that demand hygiene and reliability; cold-chain logistics operations that require unbroken temperature integrity; supermarkets and hypermarkets in need of high-performance refrigeration for both storage and display; as well as healthcare, pharmaceutical, agro-dairy, hospitality, data-centre and HVAC sectors. In each case, ColdTech doesn't just supply equipment — we deliver complete engineered solutions that meet exacting sector demands.

Sustainability is a core driver of our design strategy. Our "Green Refrigeration Solutions" leverage eco-friendly refrigerants, sustainable manufacturing practices and systems optimized for minimal carbon footprint, helping clients reduce environmental impact without compromising performance.

From conceptual design through manufacturing, installation and support, ColdTech is committed to customer-centric service, customization and future-readiness. With a focus on innovation, our systems are scalable and built to evolve alongside industry change. In short: ColdTech enables organisations to keep their operations cool, reliable and efficient — in a warming world.



Contents

Key Values

PURPOSE & DIRECTION
To deliver advanced refrigeration solutions that enhance preservation, performance, and sustainability while empowering industries with reliable, energy-efficient cooling systems.

OUR DRIVING FORCE
To engineer next-generation cooling technologies that combine innovation, efficiency, and environmental responsibility for global food, healthcare, and logistics sectors.

FUTURE OUTLOOK
To be the world's most trusted brand in sustainable refrigeration, shaping a cooler, smarter, and greener future through continuous technological evolution.

OUR DEDICATION
We pledge to provide unmatched customer satisfaction, ensuring every ColdTech solution delivers reliability, longevity, and consistent value in every degree.

EXCELLENCE & STANDARDS
Quality defines our identity — from precise engineering and rigorous testing to flawless performance that meets global industry and environmental standards.

PERFORMANCE & PRODUCTIVITY
Our systems are designed for optimal energy use, maximizing productivity and minimizing operational costs without compromising reliability or cooling performance.

CREATIVITY & PROGRESS
Driven by research and creativity, we continuously develop smarter, hybrid, and sustainable refrigeration technologies that redefine industry benchmarks worldwide.

INTEGRITY & RELIABILITY
Built on transparency, consistency, and service excellence, ColdTech earns lasting trust by delivering solutions that perform beyond expectation, every time.

Evaporators

Slim-line Dual Discharge

The Slim-line Dual Discharge Evaporator from ColdTech is designed for enhanced cooling efficiency in commercial refrigeration systems. Its dual air discharge design ensures even air distribution throughout the cold room, maintaining uniform temperature and preserving stored goods more effectively. The slim profile allows for better space utilization, making it ideal for compact cold storage areas. Built with high-quality corrosion-resistant materials, it ensures durability and low maintenance.

Slim-line

The Slim-line Evaporator by ColdTech is a compact, high-efficiency cooling unit designed for cold rooms and walk-in freezers where space is limited. Its slim profile maximizes usable storage space while delivering uniform air distribution for consistent temperature control. Built with corrosion-resistant materials, it ensures long-term durability and energy-efficient performance, making it ideal for commercial and industrial refrigeration applications.

Compact Cubic

The Compact Cubic Evaporator by ColdTech is a space-saving cooling unit designed for small to medium-sized cold rooms and walk-in freezers. Its cubic structure allows for easy installation and optimal airflow distribution, ensuring consistent and efficient cooling. Made with durable, corrosion-resistant materials, it offers reliable performance and energy efficiency, making it ideal for commercial refrigeration needs.

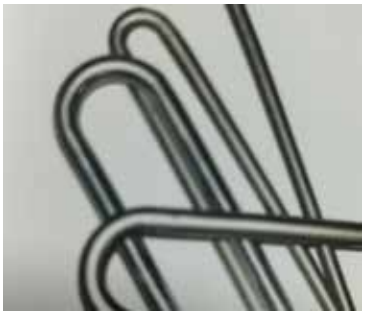
Commercial/Industrial Dual Discharge

The Compact Cubic Evaporator from ColdTech is designed for efficient cooling in small to medium-sized cold rooms and walk-in freezers. Its cubic, space-saving design allows for easy installation in areas with limited space, while ensuring uniform air distribution for consistent temperature control. Constructed with corrosion-resistant materials, it offers durability and energy-efficient performance, making it ideal for commercial refrigeration applications.

General Features

Tubes

Stainless steel tube AISI-316 or 304, specially manufactured for the coil's construction with the thickness between 0.5mm to 1.00mm.

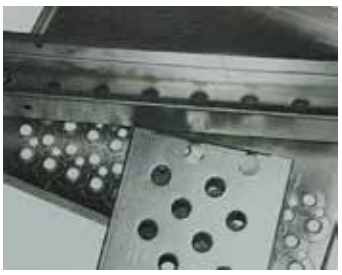


Fins

Corrugated fins with auto-separation collar, covering all the tube surface maximising the global inter change and adjusting the fin's spacing (from 1.8mm to 12mm). These can be manufactured in aluminium, pre-coated aluminium, copper or stainless steel. All these materials can be coated by the Bronz-Glow treatment for corrosive ambientv

Casing

This is built from galvanized steel, aluminium or stainless steel. The structure is totally riveted between the frames, top and bottom sides, this gives a rigid and compact coil. The perforations for the accommodation tubes are with protection collars for avoiding fractures.



Headers

The headers are manufactured totally in stainless steel. For direct expansion coils, the distributors and capillary are also in stainless steel.

Welding

Automatic TIG orbital system, without any material addition; this guarantee the circuit hold back and the perfect welding.

Test

The pressure testing is made to all coils, with dried air at 38Kg/cm2 and submerged in a water tank to verify the no presence of leakages. All coils evaporators and condensers are charged with pressure and provided with a shell for verifying in the reception. A quality stamp certify the test and hold back of each coil and allow the perfect draw up of the product assigned the reference and manufacturing number.

Key Features

High-Efficiency Coils:
COLDTECH evaporators typically utilize high-efficiency coil designs, maximizing heat transfer while minimizing energy consumption.

Compact Design:
Compactness is often a hallmark of COLDTECH evaporators, making them suitable for installations where space is limited while still maintaining high performance.

Robust Design:
Made with corrosion-resistant materials and a sturdy structure, they ensure long-lasting performance with minimal maintenance. Ideal for commercial and industrial cold rooms, these evaporators provide efficient cooling, uniform air distribution, and reliable operation even under tough conditions.

Modularity:
Some COLDTECH evaporators offer modular designs, allowing for scalability and flexibility to meet varying capacity requirements or adapt to different system configurations.

Low Noise Levels:
Advanced noise reduction techniques may be employed in COLDTECH evaporators, ensuring quiet operation, which can be essential in noise-sensitive environments.

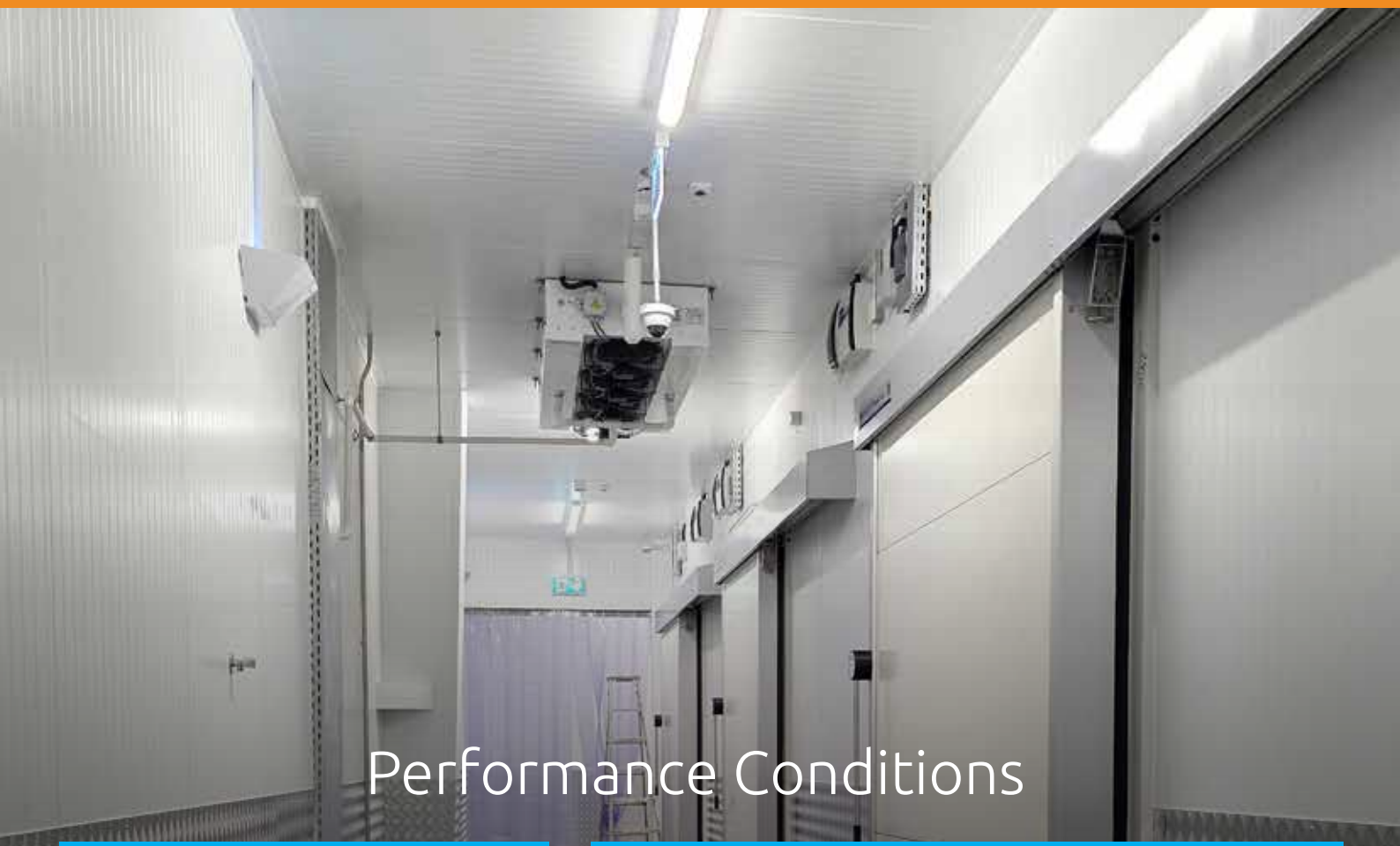
Energy Efficiency:
COLDTECH evaporators are engineered to provide optimal cooling with advanced features like high heat exchange surfaces and efficient airflow, which help reduce energy consumption. This efficiency leads to lower operating costs and improved performance in refrigeration systems, making COLDTECH evaporators a reliable choice for energy-conscious applications.

Easy Installation and Maintenance:
COLDTECH evaporators feature designs that facilitate easy installation and maintenance, saving time and effort for technicians.

Safety:
Safety is paramount, and COLDTECH evaporators may incorporate features such as heavy duty hinges made of SS304, temperature sensors, and automatic shutdown mechanisms to prevent accidents and equipment damage.

Compliance with Standards:
COLDTECH evaporators typically adhere to industry standards and regulations, ensuring reliability and compatibility with existing systems.

Tested for Performance:
Our evaporators are tested and verified for performance by a NABL certified lab.



Performance Conditions

CAPACITY CONDITIONS	
Capacity Standards	EN 328 & Eurovent 7/C/001
Refrigerant	R404A
Altitude	0 m
Sound Pressure Level	For 3 m distance (dBA, EN 13487)

EUROVENT 7/C/001 STANDARD CONDITIONS ACCORDING TO EN 328				
	Air Inlet Temperature (°C)	Evaporation Temperature (°C)	ΔT (K)	RH%
SC 1	10	0	10	85%
SC 2	0	-8	8	85%
SC 3	-18	-25	7	95%
SC 4	-25	-31	6	95%

Refrigerant Correction Factor (fSA)				
	R404A	R507A	R134A	R22
SC 1	1.0	0.97	0.93	0.97
SC 2	1.0	0.97	0.91	0.97
SC 3	1.0	0.97	0.85	0.97
SC 4	1.0	0.97	-	0.97

Correction factor For Fin Materials (fM) (Ref.: Eurovent 7/C/001)		
Aluminium	Coated Aluminium	Cooper
1.00	0.97	1.03

Correction Factor For Altitude (fR) (Ref.: Eurovent 7/C/001)						
0 m	500 m	1000 m	1500 m	2000 m	2500 m	3000 m
1.00	0.96	0.93	0.89	0.85	0.81	0.78
fR = 1 – (0.000075 • H)						

Standard Condition Factors (f SC)			
f SC1	f SC2	f SC3	f SC4
0.65	1.00	1.35	1.76

Capacity Calculation

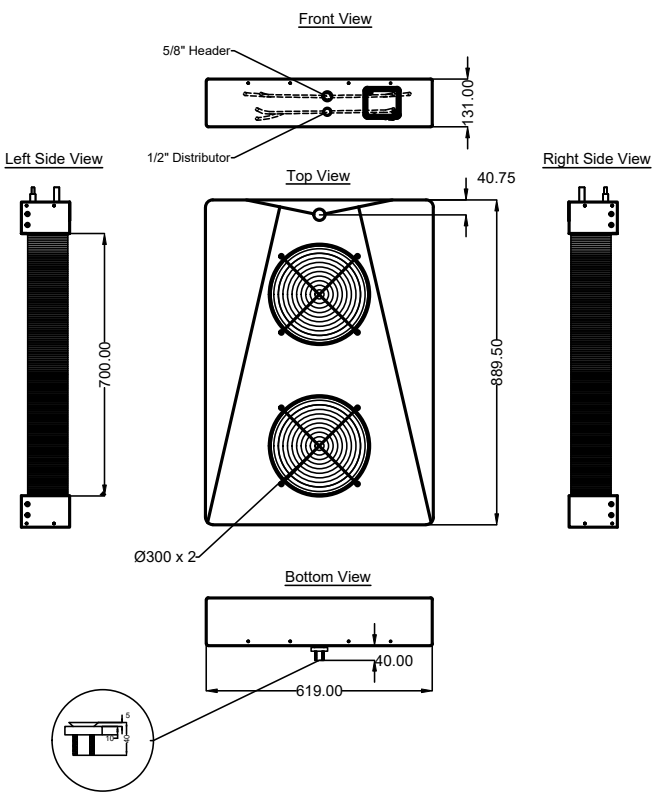
Evaporation Temperature (°C)	f ΔT Factor ΔT = Room Temperature - Evaporation Temperature(°C)				
	6	7	8	9	10
5	1.24	1	0.82	0.7	0.6
0	1.33	1.07	0.88	0.75	0.65 (f SCl)
-5	1.44	1.14	0.95	0.81	0.7
-8	1.48	1.2	1.00 (f SC2)	0.86	0.74
-10	1.5	1.24	1.03	0.89	0.77
-15	1.56	1.29	1.1	0.95	0.83
-20	1.66	1.31	1.12	0.97	0.86
-25	1.72	1.35 (f SC3)	1.15	1.99	0.87
-30	1.76	1.4	1.17	1.02	0.89
-31	1.76 (f SC4)	1.41	1.18	1.02	0.9
-35	1.79	1.43	1.21	1.04	0.94

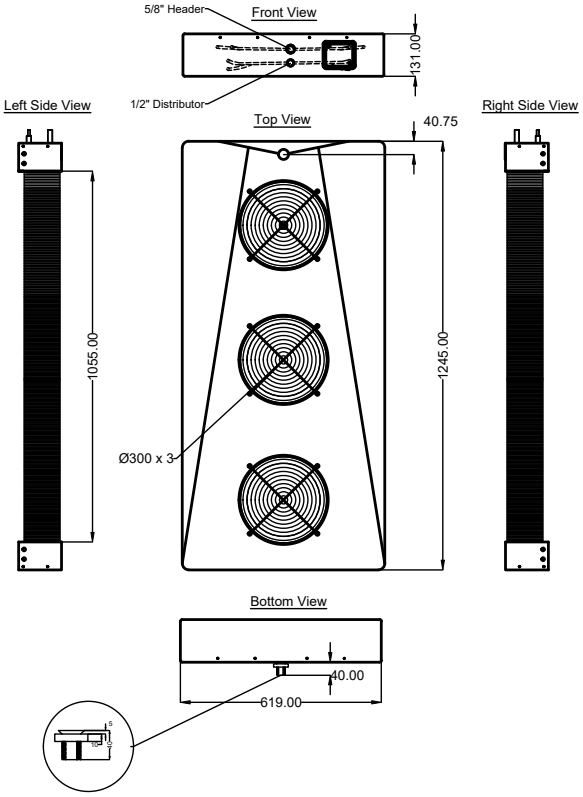
Performans Calculation Formula For Different Conditions and Materials

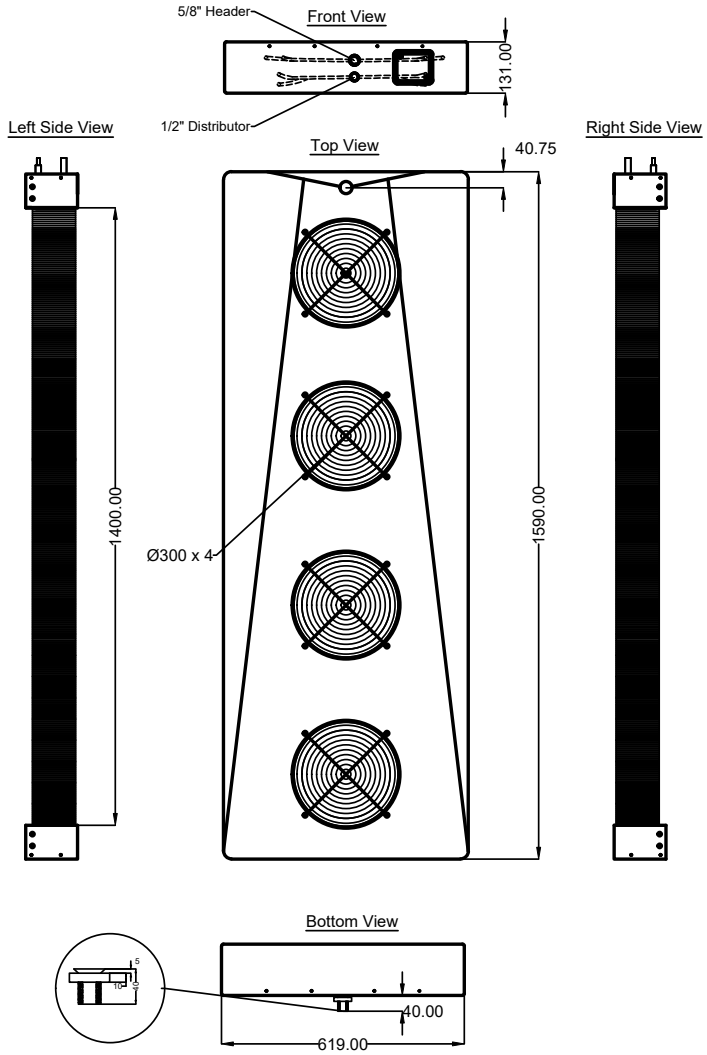
$$Qc = \frac{Qo \,.\, f\Delta T}{f\,SC \,.\, f\,SA \,.\, f\,M \,.\, f\,R}$$

Qc: Catalogue Capacity
Qo: Required Room Cooling Capacity

Number of Fans	Sound Pressure Levels (dBA) Fan Diameter					
	ø 250mm	ø 300 mm	ø 350mm	ø 400mm	ø 450 mm	ø 500 mm
1	39	44	49	54	56	53
2	42	47	52	57	59	56
3	44	49	54	59	61	58
4	45	50	55	60	62	59
Change in Sound Level According to Distance {Related Standard EN 1J487)						
Distance from center of the unit (m)	1	3	5	10	20	
Change in Sound Level (dBA)	+10	0	-4	-10	-16	

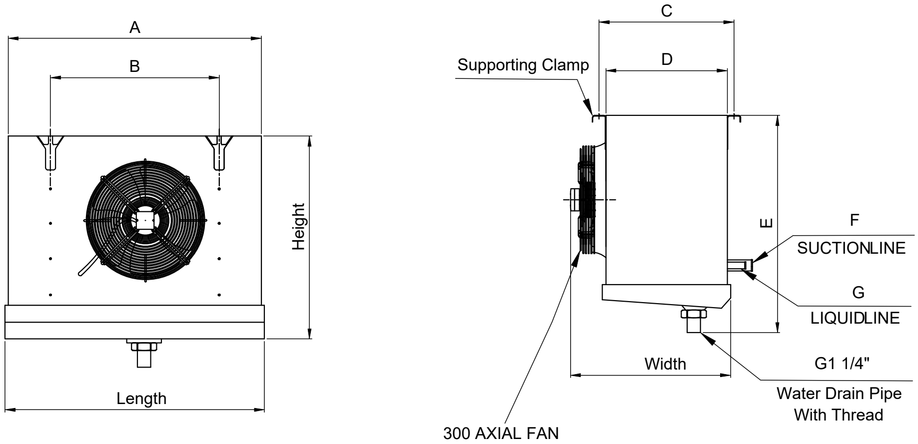

Front View
5/8" Header
131.00
1/2" Distributor
Left Side View
Top View
40.75
Right Side View
700.00
889.50
Ø300 x 2
Bottom View
40.00
619.00

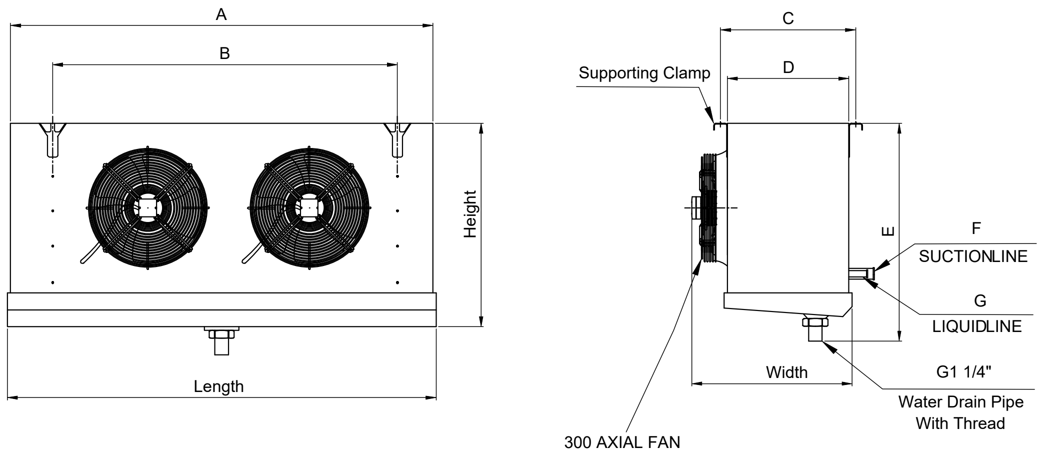

5/8" Header
Front View
131.00
1/2" Distributor
Left Side View
Top View
40.75
Right Side View
1055.00
1245.00
Ø300 x 3
Bottom View
40.00
619.00

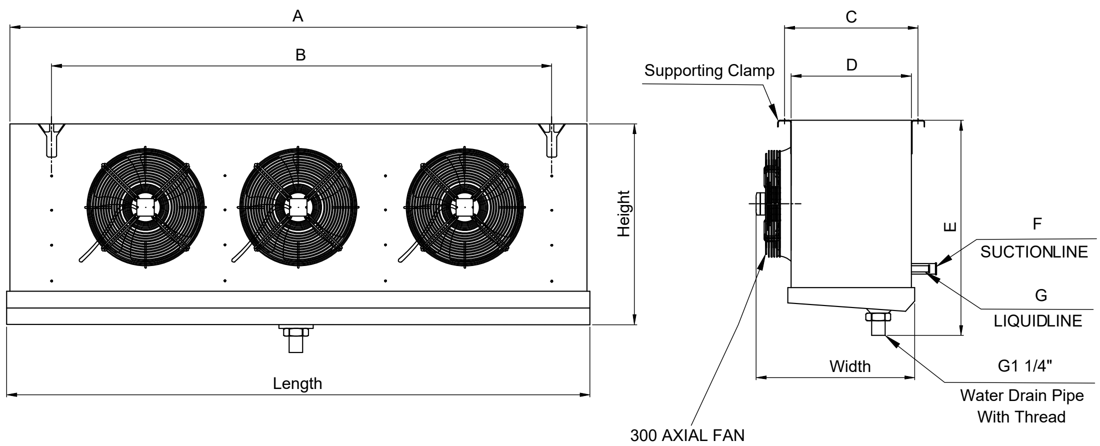

5/8" Header
Front View
131.00
1/2" Distributor
Left Side View
Top View
40.75
Right Side View
1400.00
1590.00
Ø300 x 4
Bottom View
40.00
619.00

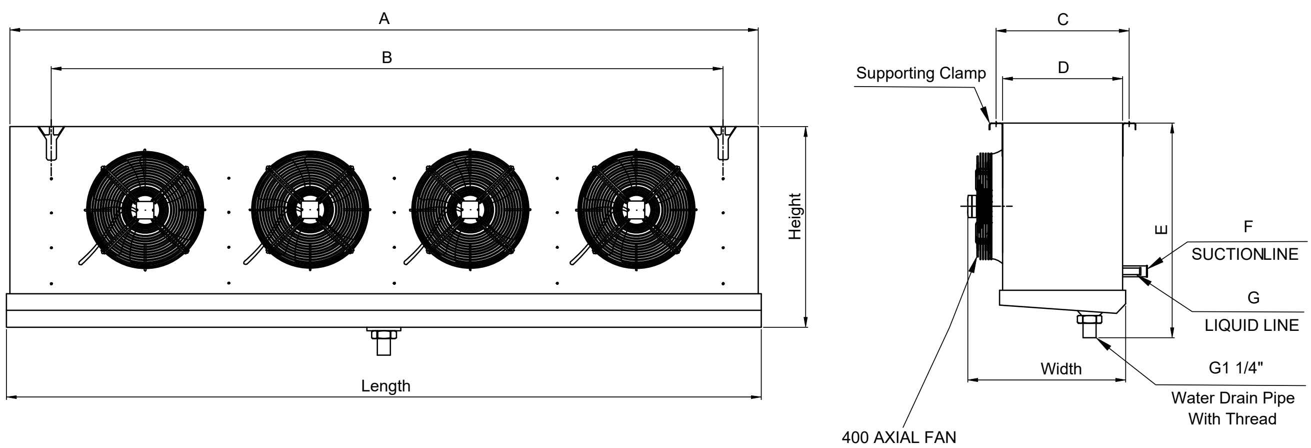
ColdTech Slim Line-Dual Discharge Series

Model Model	Fin Pitch "mm"	Capacity				Surface Area (m2)	Tube Vol. (l)	Evap Fan Dia (mm)	No. of Fans	Air Flow m3/h	Fan Power (W)	Defrosting Coil Capacity (W)	Defrosting Tray Capacity (W)	Dimensions			Hanging hole distance (mm)	Pipe Connection	
		SC1 Te = 0°C TR = 10°C "kW"	SC2 Te = - 8 °C TR = 0°C "kW"	SC3 Te = -25°C TR = -18°C "kW"	SC4 Te = -31°C TR = - 25°C "kW"									Height "mm"	Depth "mm"	Width "mm"		Distributor	Header
CTL2/302-TCD-Slim	4.5	4.26	2.82	-	-	7.2	2	300	2	1800	32	-	-	619	131	890	181	1/2"	5/8"
CTL3.5/303-TCD-Slim	4.5	6.23	4.08	-	-	10.89	3	300	3	2200	48	-	-	619	131	1245	181	1/2"	5/8"
CTL5.5/304-TCD-Slim	4.5	8.01	5.3	-	-	14.52	3.9	300	4	3000	64	-	-	131	619	1590	669	1/2"	3/4"
CTL6.2/305-TCD-Slim	4.5	8.79	5.8	-	-	14.8	4	300	5	4000	80	-	-	131	619	1974	669	1/2"	3/4"


A
B
Height
Length
C
D
Supporting Clamp
E
F
SUCTIONLINE
G
LIQUIDLINE
Width
G1 1/4"
Water Drain Pipe
With Thread
300 AXIAL FAN


A
B
Height
Length
C
D
Supporting Clamp
E
F
SUCTIONLINE
G
LIQUIDLINE
Width
G1 1/4"
Water Drain Pipe
With Thread
300 AXIAL FAN


A
B
Height
Length
C
D
Supporting Clamp
E
F
SUCTIONLINE
G
LIQUIDLINE
Width
G1 1/4"
Water Drain Pipe
With Thread
300 AXIAL FAN


A
B
Height
Length
C
D
Supporting Clamp
E
F
SUCTIONLINE
G
LIQUID LINE
Width
G1 1/4"
Water Drain Pipe
With Thread
400 AXIAL FAN

ColdTech Cubic Type Chiller Series

Model Model	Fin Pitch "mm"	Capacity				Surface Area (m2)	Tube Vol. (l)	Evap Fan Dia (mm)	No. of Fans	Air Flow m3/h	Fan Power (W)	Defrosting Coil Capacity (W)	Defrosting Tray Capacity (W)	Dimensions			Hanging hole distance (mm)	Pipe Connection	
		SC1 Te = 0°C TR = 10°C "kW"	SC2 Te = - 8 °C TR = 0°C "kW"	SC3 Te = -25°C TR = -18°C "kW"	SC4 Te = -31°C TR = - 25°C "kW"									Height "mm"	Depth "mm"	Width "mm"		Distributor	Header
CTL2.2/301-TCC	4.5	3.67	2.28	-	-	6.89	1.6	300	1	1400	85	1000	-	490	420	695	470	1/2"	1/2"
CTL2.8/301-TCC	4.5	4	2.61	-	-	8.5	2.3	300	1	1250	85	1000	-	490	420	695	470	1/2"	5/8"
CTL2.5/351-TCC	4.5	4.26	2.84			7.72	2.10	350	1	1800	129	1000	-	540	420	695	470	1/2"	5/8"
CTL3.5/351-TCC	4.5	4.86	3.17	-	-	9.64	2.6	350	1	1590	129	1000	-	540	420	695	470	1/2"	5/8"
CTL4.3/302 TCC	4.5	6.04	4.01	-	-	10.16	2.8	300	2	2900	170	1700	-	490	420	1090	470	1/2"	5/8"
CTL5/302-TCC	4.5	7.38	4.79	-	-	13.5	3.7	300	2	2800	170	1700	-	490	420	1090	470	1/2"	5/8"
CTL6.4/303-TCC	4.5	9.3	6.5	-	-	20.07	5.2	300	3	3750	255	2000	-	490	420	1495	470	1/2"	7/8"
CTL8.5/303-TCC	4.5	11.53	7.6	-	-	25.13	6.5	300	3	3600	255	2000	-	490	420	1495	470	1/2"	7/8"
CTL8.6/402-TCC	4.5	13.1	8.68	-	-	26.72	7	400	2	4600	360	3600	-	590	490	1295	540	1/2"	7/8"
CTL9.1/452-TCC	4.5	15.21	9.94	-	-	29.41	7.7	450	2	5000	500	3200	-	645	415	1320	465	5/8"	1 1/8"
CTL12/453-TCC	4.5	20.1	13.04	-	-	34.58	9	450	3	7900	750	3600	-	645	415	1810	465	5/8"	1 1/8"
CTL14/453-TCC	4.5	21.5	14.12	-	-	43.27	11.4	450	3	6900	750	3600	-	645	415	1810	465	5/8"	1 1/8"
CTL16/502-HCC	4.5	23.45	15.28	-	-	66.87	13.7	500	2	10500	828	4500	-	800	540	1675	590	5/8"	1 1/8"
CTL20/503-TCC	4.5	32.51	21.62	-	-	60.48	15.9	500	3	15000	1242	3300	-	800	540	2375	590	3/4"	1 5/8"
CTL24/503-TCC	4.5	37.18	24.76	-	-	75.66	20	500	3	14000	1242	3300	-	800	540	2375	590	3/4"	1 5/8"
CTL28/632-HCC	4.5	44.58	29.19	-	-	128.97	26.4	630	2	20000	1600	7500	-	1028	520	2375	570	7/8"	1 5/8"
CTL30/503-HCC	4.5	41.21	27.48	-	-	133.75	27.4	500	3	14000	1242	6000	-	800	540	2375	590	7/8"	1 5/8"
CTL36/504-HCC	4.5	49.79	32.58	-	-	147.13	30.1	500	4	20000	1656	9000	-	800	540	2915	590	7/8"	1 5/8"
CTL42/633-HCC	4.5	60.24	40.34	-	-	187.74	38.5	630	3	26000	2400	9000	-	1028	520	2895	570	7/8"	1 5/8"
CTL45/633-HCC	4.5	61.68	41.17	-	-	214.55	44	630	3	24600	2400	9000	-	1028	520	2895	570	7/8"	1 5/8"
CTL48.5/633-HCC	4.5	64.71	43.46	-	-	214.55	44	630	3	26000	2400	9000	-	1028	520	2895	570	7/8"	1 5/8"
CTL52.6/633-HCC	4.5	70.46	47.35	-	-	241.37	49.5	630	3	26000	2400	9000	-	1028	520	2895	570	7/8"	1 5/8"

ColdTech Cubic Type Freezer Series

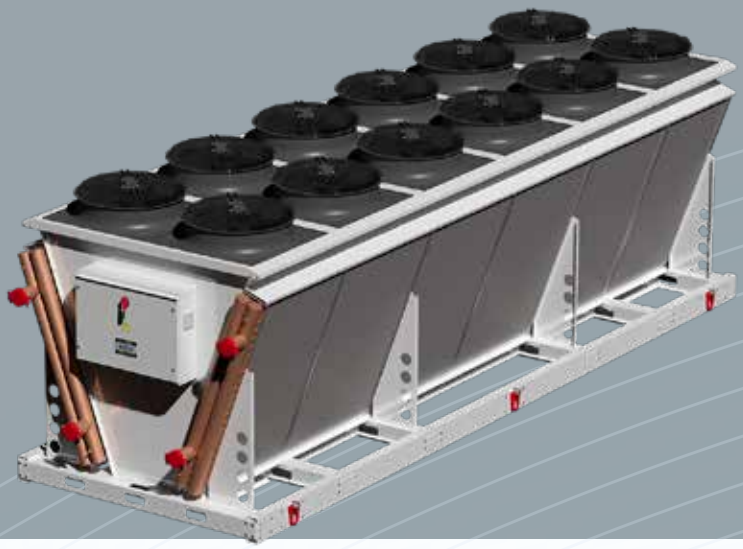
Model Model	Fin Pitch "mm"	Capacity				Surface Area (m2)	Tube Vol. (l)	Evap Fan Dia (mm)	No. of Fans	Air Flow m3/h	Fan Power (W)	Defrosting Coil Capacity (W)	Defrosting Tray Capacity (W)	Dimensions			Hanging hole distance (mm)	Pipe Connection	
		SC1 Te = 0°C TR = 10°C "kW"	SC2 Te = - 8 °C TR = 0°C "kW"	SC3 Te = -25°C TR = -18°C "kW"	SC4 Te = -31°C TR = - 25°C "kW"									Height "mm"	Depth "mm"	Width "mm"		Distributor	Header
CTD1.25/301H-TCC	7	2.78	1.78	1.22	1.01	4.33	1.3	300	1	1600	85	1000	600	490	420	695	470	1/2"	1/2"
CTD2.25/351H-TCC	7	4.6	3.01	2.01	1.66	8.18	2.5	350	1	1800	129	1000	600	540	420	695	470	1/2"	3/4"
CTD2.5/302H-TCC	7	5.87	3.8	2.53	2.03	8.57	2.8	300	2	3100	170	1700	1000	490	420	1090	470	1/2"	3/4"
CTD2.55/302H-TCC	7	7.3	4.82	2.84	2.29	11.46	3.4	300	2	2800	170	1700	1000	490	420	1090	470	1/2"	7/8"
CTD3.2/302H-HCC	7	6.91	4.48	3.29	2.72	18.03	5.4	300	2	3200	170	2000	1000	490	420	1090	470	1/2"	7/8"
CTD3.8/303H-TCC	7	8.1	5.26	3.84	3.3	17.12	5.2	300	3	5000	255	3200	1200	490	420	1495	470	1/2"	7/8"
CTD4.5/303H-TCC	7	11.07	7.36	4.56	4.02	21.43	6.5	300	3	4100	255	3200	1200	490	420	1495	470	1/2"	1 1/8"
CTD4.1/352H-HCC	7	8.59	5.57	4.17	3.21	23.05	6.9	350	2	3700	258	2000	860	540	420	1090	470	1/2"	7/8"
CTD6.5/4021H-HCC	7	14.18	9.08	6.56	5.44	36.05	10.69	400	2	7000	258	7200	1200	590	490	1295	540	1/2"	1 1/8"
CTD8/4021H-HCC	7	17.35	11.15	8.01	6.6	48.07	14.26	400	2	6800	258	7200	1200	590	490	1295	540	5/8"	1 3/8"
CTD10/502H-HCC	7	19.03	12.25	9.32	7.47	46.18	13.7	500	2	10600	828	7500	1100	800	540	1675	590	5/8"	1 3/8"
CTD12/502H-HCC	7	24.3	15.2	11.85	9.13	61.58	18.3	500	2	10000	828	7500	1100	800	540	1675	590	7/8"	1 5/8"
CTD14.5/503H-HCC	7	28.86	18.66	13.88	11.31	69.27	20.5	500	3	15800	1242	10000	2000	800	540	2375	590	7/8"	1 5/8"
CTD18/503H-HCC	7	35.5	23.12	16.6	13.5	92.37	27.4	500	3	15000	1242	10000	2000	800	540	2375	590	7/8"	1 5/8"
CTD20/632H-HCC	7	45.86	30.17	20.75	15.43	118.7	35.12	630	2	20000	1600	12500	2400	1028	520	2375	570	7/8"	2 1/8"
CTD20/504H-HCC	7	44.39	29.17	20.16	16.62	116.12	34.45	500	4	19000	1656	15000	2400	800	540	2915	590	7/8"	2 1/8"
CTD25/633H-HCC	7	50.66	33.44	24.04	18.18	129.65	38.46	630	3	26000	2400	15000	2000	1028	520	2895	570	7/8"	2 1/8"

ColdTech Angular Series

Model Model	Fin Pitch "mm"	Capacity				Surface Area (m2)	Tube Vol. (l)	Evap Fan Dia (mm)	No. of Fans	Air Flow m3/h	Fan Power (W)	Defrosting Coil Capacity (W)	Defrosting Tray Capacity (W)	Dimensions			Hanging hole distance (mm)	Pipe Connection	
		SC1 Te = 0°C TR = 10°C "kW"	SC2 Te = - 8 °C TR = 0°C "kW"	SC3 Te = -25°C TR = -18°C "kW"	SC4 Te = -31°C TR = - 25°C "kW"									Height "mm"	Depth "mm"	Width "mm"		Distributor	Header
CTL6.5/302-TCA	4.5	5.2	6.36	-	-	20.9	5.3	300	2	2800	170	2000	-	558	350	1635	400	1/2"	5/8"
CTL3.5/301-TCA	4.5	9.66	3.31	-	-	10.6	2.7	300	1	1800	85	2000	-	536	350	1635	400	1/2"	5/8"
CTD4.5/302H-TCA	7	-	6.55	4.3	3.75	21.42	6.5	300	2	2800	170	2000	1200	558	350	1635	400	1/2"	5/8"
CTD2/301H-TCA	7	-	3.27	2	1.62	10.86	3.3	300	1	1255	85	2000	1200	536	350	1635	400	1/2"	5/8"

ColdTech Industrial Dual Discharge

Model Model	Fin Pitch "mm"	Capacity	Surface Area (m2)	Tube Vol. (l)	Evap Fan Dia (mm)	No. of Fans	Air Flow m3/h	Fan Power (W)	Defrosting Coil Capacity (W)	Defrosting Tray Capacity (W)	Dimensions			Hanging hole distance (mm)	Pipe Connection	
		0 deg SST / 10 Deg Room Temp									Height "mm"	Depth "mm"	Width "mm"		Distributor	Header
CTH/4.5/302-TCD	4.5	4.31	7.29	2	300	2	2200	170	-	-	166	720	1034	770	3/8"	5/8"
CTH6.5/303-TCD	4.5	6.64	10.89	3	300	3	3400	255	-	-	166	720	1382	770	1/2"	3/4"
CTH8/352-TCD	4.5	7.86	18.1	4.9	350	2	3200	258	-	-	266	745	1206	795	1/2"	3/4"
CTH10/353-TCD	4.5	10	27.27	7.4	350	3	4800	387	-	-	266	745	1648	795	1/2"	7/8"
CTH12/402-TCD	4.5	11.86	19.84	5.4	400	2	6000	360	-	-	266	835	1288	885	1/2"	7/8"
CTH16/403-TCD	4.5	16.73	29.95	8.1	400	3	8050	540	-	-	266	835	1775	885	5/8"	1 1/8"
CTH16/502-TCD	4.5	15.59	32.23	8.8	500	2	8100	828	-	-	266	925	1888	975	5/8"	1 1/8"
CTH22/503-TCD	4.5	22.02	47.52	12.9	500	3	12000	1242	-	-	266	925	2625	975	5/8"	1 1/8"



Commercial/Industrial Coolers

ColdTech specializes in the design and manufacturing of high-performance commercial and industrial coolers, tailored to meet the diverse needs of businesses across sectors. With a focus on energy efficiency, durability, and advanced cooling technology, ColdTech delivers custom solutions that ensure optimal temperature control and product preservation. From walk-in coolers to large-scale refrigeration units, every product is engineered to meet international standards, making ColdTech a trusted partner in the cooling industry.

NOMENCLATURE

Specifications

- Copper Tube & Aluminum Fins for different HFC Refrigerants
- Fin Spacing available from 4FPI to 6 FPI for Chiller & Frozen Applications
- Casing Options available for SS, GI & Aluminum Powder Coated
- BTS (Built To Suit) Units with different Fan size and type according to application

CTL 2.2 / 30 1 H - T C C X

11th Place:
S-Stainless Steel Body, AL - Aluminium Body, G - GI Powder Coated Body

10th Place:
C-Cubical, A-Angular, D-Dual Discharge, S-Slim Line Dual Discharge

9th Place: C- Copper Tubes

8th Place:
T - 3/8" tube size, H - 1/2" tube size

7th Place:
H - Coil Heater, HH - Coil Heater & Tray Heater, HHH - Coil Heater, Tray Heater & Fan Ring Heater

6th Place: No. of Fans

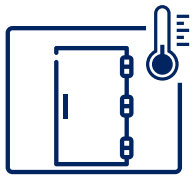
5th Place:
Dia of the Fan (30 - 300mm & 40 - 400mm etc.)

4th Place: Capacity in Kw @ standard Eurovent Conditions

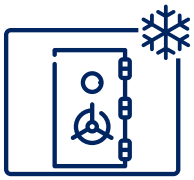
First 3 Digits: Product Series
CTL: Commercial Chiller Applications
CTD: Commercial Freezer Applications

APPLICATIONS

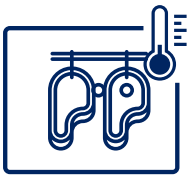
Coldtech evaporators are being used in all applications rooms.



Walk-in Cooler Rooms

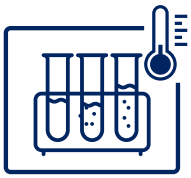


Walk-in Freezer Rooms

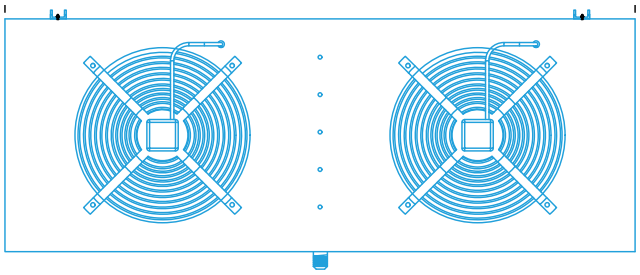


Food Processing Rooms

Preparation Rooms



Bio-medical Rooms



Capacity
High temp application 2.4 to 30kW
Low temp application 2.5 to 57.4kW

Casing
Made of Stainless steel (304) and
Power coated premium aluminium

Fan Diameter
Available fan sizes of 300mm, 350mm, 400mm, 450mm, 500mm & 630mm wired in an enclosed juction box

Fin Spacing
4mm or 6mm to minimize defrosting cycles

Side Panel
Easy removable type for ease of maintenance

Defrosting Heater
Electrical coils & drain pan heater wired in an enclosed juction box

Refrigerant
R-404a/R-134a
(Eco-friendly refrigerant)

Drain Plug
Made of PVC
(Light & durable material)

Drain Pan
Hinged type for easy cleaning

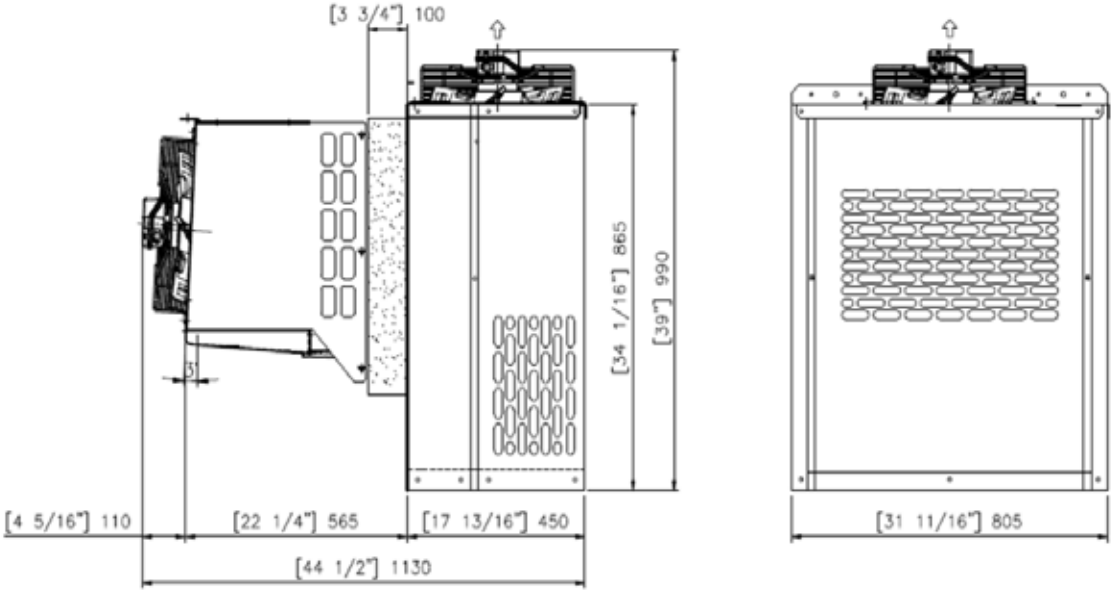
Monoblock

Product Technology

All galvanized steel plate and spray plastic for the production of full anti-rust body;

Defrosting water self-evaporation design, without considering the installation conditions;

High precision temperature control, can meet the needs of laboratory vaccine library.



Product Overview

Wall-mount Installation

Roof-mount Installation

Nomenclature

A W 1 B M A 010 3 3

Product Family Code
A;Integral Unit **S;**Split Unit **R;**Parallel Unit
T; Plate Unit **E;** Evaporator C;Condenser

Installation Form Code
C;Ceiling Type **F;**Floor Type **R;**Top Type
W;Wall Mounted **T;**Through The Wall
B;Embedded Type

Purpose Code
1;Household Light Business **2;**Coldd Chain Logistics **3;**Biopharmaceutical **4:**Supermarket Freezer **5;**Slaughter Processing **6:**Grain Storage **7;**Wine Cabinet Wine Cellar
8:Car Transport

Extended Model
Extended Model English
26 Letter Logo

The Current Version No.3

Motor Standard Code
1; 208-230V/1-/60HZ
2; 200-230V/3-/60HZ
3; 220-240V/1-/50HZ
4; 230V/3-/50HZ
5; 380-400V/3-/50H&440-460V/3-/60HZ
6; 380V/3-/60HZ

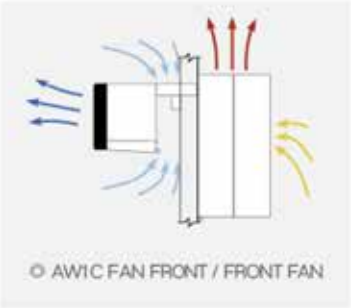
Compressor Power Code
007;0.7HP **010;**1HP **015;**1.5HP **100;**10HP

Thermal Form Code
A;Alr-Cooled W;Water-Cooled

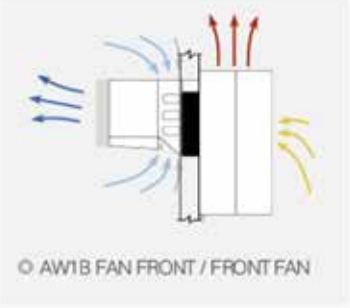
Application Condition Code
A; >+16°C **H;** -2-+10°C **M;** -2--20°C
L; -30--20°C **D;** <-40°C

AW1 Series

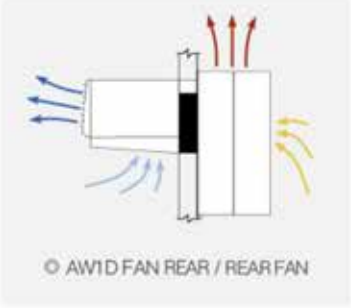
O AW1A FAN REAR / REAR FAN



O AW1C FAN FRONT / FRONT FAN



O AW1B FAN FRONT / FRONT FAN



O AW1D FAN REAR / REAR FAN

PRODUCT INFORMATION

Exhaust air

Air intake (room temperature)

Return air

Air discharge

Model	HA00832	HA01232	HA01532	HA01832	HA02532	HA03032	HA03532	HA04052
Power system	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	380/3/50	380/3/50
Refrigerating capacity (W)	1180	1550	2160	2740	3970	5560	5360	6135
Power (HP)	0.8	1.2	1.5	1.8	2.5	3	3	4
Rated curren (A)	3.6	4.7	6.1	8.1	11	15.5	5.3	7.5
Completely enclosed piston compressor	Embrace SECOP Tecumseh Cubigel HIGHLY							
Cooling form	Air cooling							
Defrosting method	Hot air defrosting							
Min storage capacity (m3)	4	8	12	21	30	39	39	52
Max storage capacity (m3)	7	11	21	34	48	65	65	94
Airframe type	W1	W2	W2	W3	W3	W4	W4	W4
Basic size LxDxH (mm)	825x450 x769	1045x530 x845	1045x530 x845	1045x530 x845	1045x620 x845	1200x800 x970	1200x800 x970	1200x800 x970
Net weight (KG)	89.6					96.4		

Constant temperature model - Library temperature +5°C~-5°C Ambient temperature +35°C / Library thickness 100mm/R404A

Model	MA01032	MA01532	MA02032	MA03532	MA03552	MA04052
Power system	220/1/50	220/1/50	220/1/50	220/1/50	380/3/50	380/3/50
Refrigerating capacity (W)	1240	1600	2330	3305	3215	3680
Power (HP)	1	1.5	2	3	3	4
Rated curren (A)	6.1	7.5	10.3	12.9	7.1	8.4
Completely enclosed piston compressor	Embrace SECOP Tecumseh Cubigel HIGHLY					
Cooling form	Air cooling					
Defrosting method	Hot air defrosting					
Min storage capacity (m3)	2	5	9	16	16	19
Max storage capacity (m3)	4	9	23	36	36	46
Airframe type	W1	W2	W3	W3	W3	W4
Basic size LxDxH (mm)	825x450x769	1045x530x845	1045x620x845	1045x620x845	1045x620x845	1200x800x970
Net weight (KG)	89.6				96.4	

Constant temperature model - Library temperature +5°C~-5°C Ambient temperature +35°C / Library thickness 100mm/R404A

Model	BA01532	BA02032	BA03032	BA03052
Power system	220/1/50	220/1/50	220/1/50	380/3/50
Refrigerating capacity (W)	1600~2740	2300~3970	3305~5560	3215~5360
Power (HP)	1.5	2	3	3
Rated curren (A)	8.1	11	15.85	7.1
Completely enclosed piston compressor	HIGHLY			
Cooling form	Air cooling			
Defrosting method	Hot air defrosting			
Min storage capacity (m3)				
Max storage capacity (m3)				
Airframe type	W2	W3	W4	W4
Basic size LxDxH (mm)	1045x530x845	1045x620x845	1200x800x970	1200x800x970
Net weight (KG)	89.6	96.4		

Constant temperature model - Library temperature +5°C~-5°C Ambient temperature +35°C / Library thickness 100mm/R404A

Cross wall RW series unit opening diagram

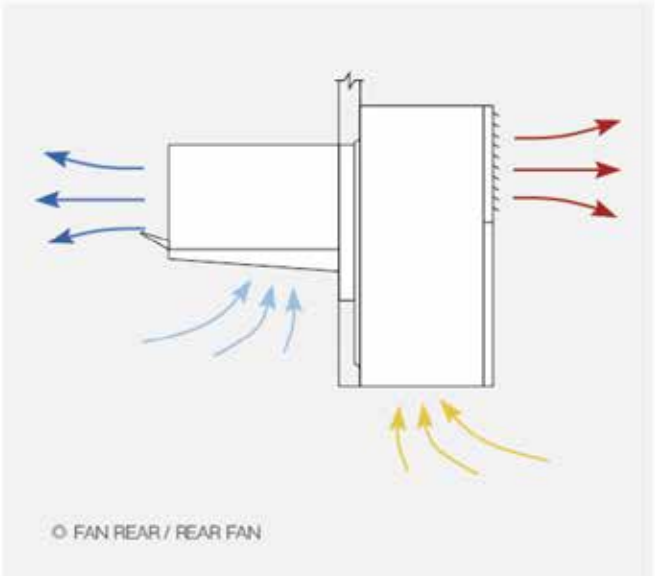
Through wall type TW series unit opening diagram

Deposition	Number	Details
Standard Version	1	Compressor
	2	Condenser
	3	Condenser screen
	4	Evaporator
	5	Fan motor
	6	Throttling device
	7	Filter dryer
	8	Solenoid valve
	9	Controller
	10	Electrical element
	11	Shell sheet metal
	12	Drainage system
	13	Hot fluorine defrosting system
	14	Freon
	15	Copper pipe

Deposition	Number	Part name	Application description
Optional accessories	1	Customize sheet metal patterns	Personalized application
	2	Outdoor accessory bag	Outdoor application
	3	Special machine	Foreign application
	4	Variable frequency compressor	Special needs
	5	Wireless light switch	Special needs
	6	Body sensing device	Fully automated operation
	7	WIFI network function	Remote monitoring
	8	4G network functions	Remote monitoring
	9	GPS positioning function	Leasing industry application
	10	Electric heater	Change the ripening library
	11	Evaporator fairing	Special for flower preservation unit
	12	Evaporator deepens the water tray	Special for flower preservation unit
	13	Cold storage lighting (with enhanced magnetic)	Convenience service
	14	Power plug	Convenience service

* Product configurations may be adjusted and changed for a variety of reasons.

AT2 Series



PRODUCT INFORMATION

Exhaust air

Air intake (room temperature)

Return air

Air discharge

Model	HA01831	HA02531	HA03031	HA03051	HA04051	HA06051
Power system	220/1/50	220/1/50	220/1/50	380/3/50	380/3/50	380/3/50
Refrigerating capacity (W)	2740	3970	5560	5360	6135	9160
Power (HP)	1.8	2	3	3	4	6
Rated curren (A)	8.7	11.6	16.1	5.9	8.1	10.96
Completely enclosed piston compressor	Tecumseh Maneurop HIGHLY					
Cooling form	Air cooling					
Defrosting method	Hot air defrosting					
Min storage capacity (m3)	21	30	39	39	52	92
Max storage capacity (m3)	34	48	65	65	94	135
Airframe type	T1	T1	T2	T2	T3	T3
Basic size LxDxH (mm)	832x800x1095	832x800x1095	1329x889x1145	1329x889x1145	1812x889x1145	1812x889x1145

Constant temperature model - Library temperature +5°C~-5°C Ambient temperature +35°C / Library thickness 100mm/R404A

Model	MA02031	MA03531	MA03551	MA04051	MA06051	MA07051
Power system	220/1/50	220/1/50	380/3/50	380/3/50	380/3/50	380/3/50
Refrigerating capacity (W)	2230	3970	3215	3680	6250	6520
Power (HP)	2	3.5	3	4	6	7.5
Rated curren (A)	10.8	15.6	7.6	9.5	11.2	12.6
Completely enclosed piston compressor	Tecumseh Maneurop HIGHLY					
Cooling form	Air cooling					
Defrosting method	Hot air defrosting					
Min storage capacity (m3)	9	16	16	19	43	74
Max storage capacity (m3)	23	36	36	46	87	127
Airframe type	T1	T2	T2	T2	T3	T3
Basic size LxDxH (mm)	832x800x1095	1329x889x1145	1329x889x1145	1329x889x1145	1812x889x1145	1812x889x1145

Constant temperature model - Library temperature +5°C~-5°C Ambient temperature +35°C / Library thickness 100mm/R404A

Model	MA02031	MA03531	MA03551	MA04051	MA06051
Power system	220/1/50	220/1/50	380/3/50	380/3/50	380/3/50
Refrigerating capacity (W)	2230~3970	3305~5560	3215~5360	3680~6135	6250~9160
Power (HP)	2	3	3	4	6
Rated curren (A)	9.9	13.75	4.9	6.73	8.4
Completely enclosed piston compressor	Tecumseh Maneurop HIGHLY				
Cooling form	Air cooling				
Defrosting method	Hot air defrosting				
Min storage capacity (m3)					
Max storage capacity (m3)					
Airframe type	T1	T2	T2	T3	T3
Basic size LxDxH (mm)	832x800x1095	1329x889x1145	1329x889x1145	1812x889x1145	1812x889x1145

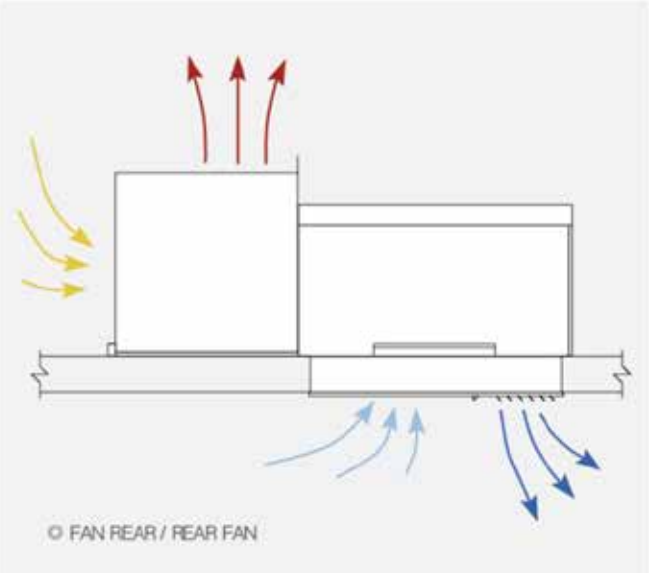
Constant temperature model - Library temperature +5°C~-5°C Ambient temperature +35°C / Library thickness 100mm/R404A

Deposition	Number	Details
Standard Version	1	Compressor
	2	Condenser
	3	Condenser screen
	4	Evaporator
	5	Fan motor
	6	Throttling device
	7	Filter dryer
	8	Solenoid valve
	9	Controller
	10	Electrical element
	11	Shell sheet metal
	12	Drainage system
	13	Hot fluorine defrosting system
	14	Freon
	15	Copper pipe

Deposition	Number	Part name	Application description
Optional accessories	1	Special machine	Foreign application
	2	Variable frequency compressor	Special needs
	3	Body sensing device	Fully automated operation
	4	WIFI network function	Remote monitoring
	5	4G network functions	Remote monitoring
	6	GPS positioning function	Leasing industry application
	7	Electric heater	Change the ripening library
	8	Humidifying tank	Humidity compensation in warehouse
	9	32A power plug	Reefer container application
	10	Unit folding support frame	Cold storage application
	14	Evaporator flange	Interior seam decoration

* Product configurations may be adjusted and changed for a variety of reasons.

AR1 Series



PRODUCT INFORMATION

Exhaust air

Air intake (room temperature)

Return air

Air discharge

Model	HA(W)00832	HA(W)01232	HA(W)01532	HA(W)01832	HA(W)02532	HA(W)03032	HA(W)03052	HA(W)04052
Power system	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	380/3/50	380/3/50
Refrigerating capacity (W)	1180	1550	2160	2740	3970	5560	5360	6135
Power (HP)	0.8	1.2	1.5	1.8	2.5	3	3	4
Rated curren (A)	3.5	4.6	6	8	10.9	15.4	5.6	7.5
Completely enclosed piston compressor	Embrace SECOP Tecumseh Maneurop Cubigel HIGHLY							
Cooling form	Air cooling							
Defrosting method	Hot air defrosting							
Min storage capacity (m3)	4	8	13	21	30	39	39	52
Max storage capacity (m3)	7	12	20	34	48	65	65	94
Airframe type	R1	R2	R2	R2	R2	R3	R3	R3
Basic size LxDxH (mm)	710x620x510		1320x720x560				1320x1070x600	

Constant temperature model - Library temperature +5°C~-5°C Ambient temperature +35°C / Library thickness 100mm/R404A

Model	MA(W)01032	MA(W)01532	MA(W)02032	MA(W)03532	MA(W)03552	MA(W)04052	MA(W)06052
Power system	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	380/3/50	380/3/50
Refrigerating capacity (W)	1240	1600	2230	3305	3215	3680	6250
Power (HP)	1	1.5	2	3.5	3.5	4	5
Rated curren (A)	6	7.4	10.2	13.6	6.2	8.1	9.8
Completely enclosed piston compressor	Embrace SECOP Tecumseh Maneurop Cubigel HIGHLY						
Cooling form	Air cooling						
Defrosting method	Hot air defrosting						
Min storage capacity (m3)	2	4	9	16	16	22	45
Max storage capacity (m3)	4	8	23	36	36	50	78
Airframe type	R1	R2	R2	R2	R2	R3	R3
Basic size LxDxH (mm)	710x620x510		1320x720x560			1320x1070x600	

Constant temperature model - Library temperature +5°C~-5°C Ambient temperature +35°C / Library thickness 100mm/R404A

Model	BA(W)01032	BA(W)01532	BA(W)02032	BA(W)03032	BA(W)03052	BA(W)04052
Power system	220/1/50	220/1/50	220/1/50	220/1/50	380/3/50	380/3/50
Refrigerating capacity (W)	1240~2160	1600~2740	2230~3970	3305~5560	3215~5360	3680~6135
Power (HP)	1	1.5	2	3	3	4
Rated curren (A)	6	8	10.9	15.4	6.2	8.1
Completely enclosed piston compressor	HIGHLY					
Cooling form	Air/water cooling					
Defrosting method	Hot air defrosting					
Min storage capacity (m3)						
Max storage capacity (m3)						
Airframe type	R2	R2	R2	R2	R3	R3
Basic size LxDxH (mm)	1320x720x560				1320x1070x600	

Constant temperature model - Library temperature +5°C~-5°C Ambient temperature +35°C / Library thickness 100mm/R404A

Deposition	Number	Details
Standard Version	1	Compressor
	2	Condenser
	3	Condenser screen
	4	Evaporator
	5	Fan motor
	6	Throttling device
	7	Filter dryer
	8	Solenoid valve
	9	Controller
	10	Electrical element
	11	Shell sheet metal
	12	Drainage system
	13	Hot fluorine defrosting system
	14	Freon
	15	Copper pipe

Deposition	Number	Part name	Application description
Optional accessories	1	Special machine	Foreign application
	2	Variable frequency compressor	Special needs
	3	WIFI network function	Remote monitoring
	4	4G network functions	Remote monitoring
	5	GPS positioning function	Leasing industry application
	6	Cold storage lighting (with enhanced magnetic)	Convenience service
	7	Power plug	Convenience service

* Product configurations may be adjusted and changed for a variety of reasons.

Product Benefits

1. Select the corresponding unit model according to the required cooling space size and temperature. The system is demonstrated and designed by all parts manufacturers. Through repeated laboratory testing finalize the mass production. It has been perfected and modified by countless application cases.

2. System pipeline 3D design. By numerical control pipe bending machine batch forming and cleaning and drying, to ensure that there is no dirt in the system pipe, no chips. The whole welding process is protected by nitrogen to prevent the appearance of oxide in the pipeline.

3. Electrical component assembly and cable connection in strict accordance with the national electrical standards. Plug the terminal head and close the heat shrink tube. The line color distribution is clear and beautiful, and the line number is clearly marked. Exactly consistent with the system circuit diagram.

4. Solid materials and rigorous production. The sheet metal material is all hot-dip galvanized steel plate, the basic thickness is 1 mm. Spray all areas that may erode. The system uses only golden dragon or Hailiang copper pipe. Other materials are also from international and domestic well-known manufacturers.

5. Defrosting using hot fluorine defrosting system. Low temperature unit drain pipe built-in electric tropical. RW, TW, TT series of small units are equipped with defrosting water automatic evaporation system, defrosting water does not need to be discharged outside under normal conditions.

6. In deep cooperation with universities, many professors and doctors participated in the design, development and upgrading of control modules and systems. Real-time remote monitoring of test run in the plant of the unit status and record operating data, put forward improvement and correction plan.

7. Strict inspection standards, advanced testing instruments, perfect leak detection process, super standard test pressure and standard refrigerant filling amount.

8. All factory products have been strictly tested and archived. It can be powered on for a short time before installation, and then installed on the cold storage after it is confirmed that there is no problem.

9. Installation is simple and fast , without welding and a large number of wiring. Plug in and run. Large unit s can be installed and powered on within 2 hours. Small units do not exceed 1 hour.

10. Without professional personnel, general workers can complete the cold storage installation according to the video training. Individual users with certain hands-on ability can also achieve cold storage DIY.

11. The installation tools are simple, the entry materials are less, and ordinary transportation can be done. Easy exit.

12. The warranty period is one year, if there are quality problems within the period of replacement is not repaired.

Accessories

MICROCHANNEL CONDENSER

Microchannel, also known as microchannel heat exchanger, is the equivalent diameter of the channel in 10-1000μm heat exchanger. This kind of heat exchanger has several small flow channels in the flat tube, which are connected with the circular collector at both ends of the flat tube. A separator is arranged in the collector to separate the heat exchanger runner into several flows.

TOUCH SCREEN

The new series of touch-based graphic displays are designed to make interaction between the human and computer extremely simple and intuitive, as well as easier navigation between different interfaces.

FREQUENCY CONVERTER

Frequency converters can effectively improve the reliability and performance of the motor, thus reducing maintenance costs. Can effectively adjust the speed of the motor, so as to save energy costs, improve the efficiency of the motor, according to the needs of users, to achieve different speed adjustment, so as to meet the different needs of users, reduce the noise of the motor, so as to provide a quieter working environment.

STAINLESS STEEL BODY

304 stainless steel is austenitic chromelinnickelmolybdenum stainless steel, has good corrosion resistance, machining properties and weldability, in the atmosphere and fresh water has good corrosion resistance. 304 steel is a kind of universal stainless steel material, rust resistance than 200 series of stainless steel material is stronger.

FREQUENCY CONVERTER

Built-in Wi-Fi, accessible to all mobile devices. Through the mobile device, from trial operation to routine vis its to system maintenance ca n be fu lly browsed; Built-in Wi-Fi creates a network that allows user devices to access the monitoring system. No other network architecture is required.

ELECTRONIC EXPANSION VALVE

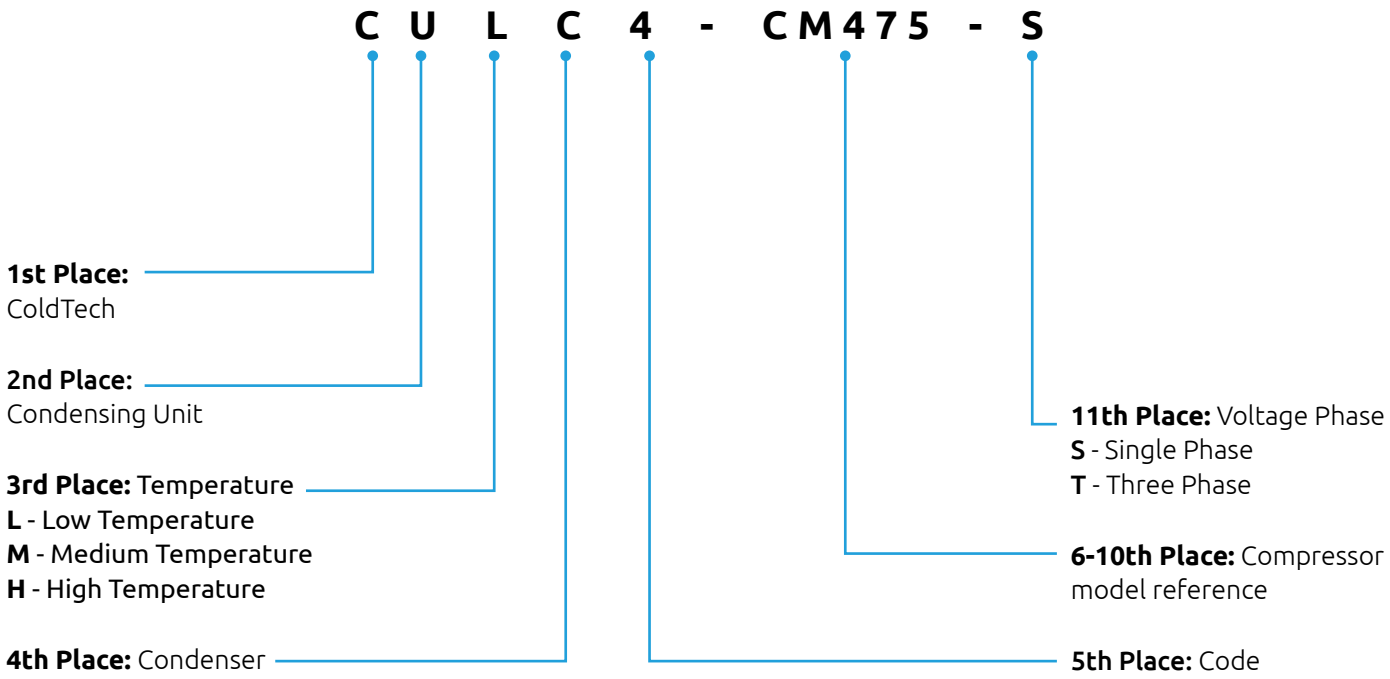
Electronic expansion valves and new EVD evolution overheating controllers provide a complete integrated solution for evaporative temperature control in air conditioning and refrigeration equipment.

CONDENSING UNITS

Key features

- Compact design
- High efficiency Copeland™ compressors
- Energy efficient silent fans
- Condenser coils designed for high ambient
- Liquid receiver as standard feature
- Optimal layout of components for easy serviceability

NOMENCLATURE



Scope of supply

- HP/LP Switch
- Crankcase heater

Performance Data

Medium Temperature

R407c

Condensing unit model Number of fans	Condensing Temperature (°C)	Capacity (kW)									Total power input (kW)								
		Evaporating temperature (°C)																	
		-23.3	-17.8	12.2	-6.7	-1.1	4.4	7.3	10.0	12.8	-23.3	-17.8	12.2	-6.7	-1.1	4.4	7.3	10.0	12.8
CUMC4-CJ513-S	60	-	-	1.3	1.6	2.1	2.9	3.4	3.9	4.5	-	-	1.1	1.2	1.3	1.4	1.4	1.5	1.6
	54.4	-	1.3	1.4	1.8	2.3	3.2	3.6	4.2	4.8	-	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.5
	48.9	-	1.4	1.6	2.0	2.6	3.4	3.9	4.6	5.3	-	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5
	43.3	-	1.5	1.8	2.2	2.9	3.7	4.3	5.0	5.7	-	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.4
	37.8	-	1.7	2.0	2.4	3.1	4.0	4.6	5.2	5.9	-	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.4
CUMC6-CR21-T	60	-	-	-	2.1	2.9	3.9	4.5	5.1	5.8	-	-	-	1.3	1.5	1.6	1.7	1.8	1.8
	54.4	-	-	1.6	2.4	3.3	4.4	5.1	5.7	6.5	-	-	1.1	1.3	1.4	1.6	1.6	1.6	1.7
	48.9	-	-	1.9	2.8	3.8	5.0	5.6	6.4	7.3	-	-	1.1	1.2	1.4	1.5	1.5	1.5	1.5
	43.3	-	1.4	2.3	3.5	4.2	5.5	6.3	7.1	8.0	-	-	1.1	1.2	1.3	1.4	1.4	1.4	1.4
	37.8	0.9	1.8	2.8	3.6	4.7	6.1	6.9	7.7	8.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.4
CUMC6-CR22-S	60	-	-	-	1.7	2.6	3.6	4.3	5.0	5.7	-	-	-	1.3	15.0	1.7	1.8	1.9	1.9
	54.4	-	-	1.3	2.1	3.0	4.2	4.9	5.7	6.6	-	-	1.2	1.3	1.5	1.6	1.7	1.8	1.8
	48.9	-	-	1.6	2.4	3.4	4.7	5.5	6.4	7.4	-	-	1.2	1.3	1.4	1.6	1.6	1.7	1.7
	43.3	-	1.1	1.8	2.7	3.8	5.2	6.0	7.0	8.2	-	1.0	1.1	1.3	1.4	1.5	1.5	1.7	1.6
	37.8	0.6	1.4	2.1	3.0	4.1	5.7	6.6	7.7	9.0	0.8	0.9	1.1	1.2	1.3	1.4	1.4	1.4	1.4
CUMC10-CR29-T	60	-	-	-	2.3	3.5	5.0	5.9	6.9	8.1	-	-	-	1.7	2.0	2.2	2.4	2.5	2.6
	54.4	-	-	1.8	2.9	4.2	5.8	6.9	8.0	9.3	-	-	1.4	1.6	1.9	2.1	2.3	2.3	2.4
	48.9	-	-	2.2	0.5	0.5	0.6	0.6	0.6	0.7	-	-	1.3	1.6	1.8	2.0	2.1	2.2	2.2
	43.3	-	1.6	2.6	3.9	5.4	7.4	8.6	9.9	11.5	-	1.1	1.3	1.5	1.7	1.9	1.9	2.0	2.0
	37.8	0.8	1.9	3.0	4.2	5.9	8.0	9.4	10.9	12.6	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.8	1.8
CUMC10-CR30-S	60	-	-		2.3	3.6	5.1	5.9	7.0	8.1	-	-	-	1.8	2.1	2.3	2.4	2.5	2.6
	54.4	-	-	1.8	2.9	4.2	5.9	6.9	8.0	9.3	-	-	1.4	1.7	2.0	2.2	2.3	2.4	2.4
	48.9	-	-	2.3	3.4	4.8	6.6	7.7	9.0	10.5	-	-	1.4	1.7	1.9	2.1	2.1	2.2	2.2
	43.3	-	1.6	2.7	3.9	5.4	7.4	8.6	10.0	11.6	-	1.1	1.4	1.6	1.8	1.9	2.0	2.0	2.0
	37.8	0.8	1.9	2.9	4.2	5.8	8.0	9.3	10.9	12.7	0.9	1.2	1.4	1.6	1.7	1.8	1.8	1.8	1.8
CUMC10-CR36-S	60	-	-	-	3.1	4.4	6.1	7.0	8.1	9.3	-	-	-	2.2	2.5	2.7	2.9	3.0	3.0
	54.4	-	-	2.4	3.6	5.1	7.0	8.0	9.2	10.5	-	-	1.8	2.1	2.4	2.6	2.7	2.8	2.9
	48.9	-	-	2.8	4.2	5.9	7.9	9.0	10.3	11.7	-	-	1.8	2.1	2.3	2.5	2.5	2.6	2.6
	43.3	-	2.1	3.3	4.8	6.6	8.8	10.0	11.3	12.8	-	1.5	1.7	2.0	2.1	2.3	2.3	2.3	2.4
	37.8	1.3	2.5	3.9	5.4	7.4	9.6	9.2	12.3	13.9	1.2	1.5	1.7	1.9	2.0	2.1	2.1	2.1	2.1
CUMC10-CR35-T	60	-	-	-	3.0	5.8	6.3	7.3	8.4	9.8	-	-	-	2.1	2.4	2.7	2.8	2.9	3.0
	54.4	-	-	2.4	3.9	5.5	7.5	8.6	9.9	11.2	-	-	1.7	2.1	2.3	2.6	2.7	2.7	2.8
	48.9	-	-	3.0	4.5	6.3	8.4	9.7	11.0	12.5	-	-	1.7	2.0	2.2	2.4	2.5	2.5	2.6
	43.3	-	2.2	3.6	5.2	7.1	9.4	10.7	12.1	13.7	-	1.4	1.7	1.9	2.1	2.2	2.3	2.3	2.3
	37.8	1.2	2.7	4.1	5.8	7.9	10.3	11.7	13.2	14.8	1.2	1.4	1.7	1.8	2.0	2.0	2.1	2.1	2.1
CUMC10-CR41-T	60	-	-	-	3.8	5.3	7.4	8.5	9.8	11.3	-	-	-	2.5	2.8	3.1	3.3	3.4	3.5
	54.4	-	-	2.9	4.4	6.2	8.4	9.7	11.2	12.7	-	-	2.1	2.4	2.7	3.0	3.1	3.2	3.2
	48.9	-	-	3.4	5.1	7.1	9.5	10.9	12.5	14.2	-	-	2.0	2.3	2.6	2.8	2.9	2.9	3.0
	43.3	-	2.5	4.0	5.9	8.0	10.6	12.1	13.7	15.5	-	1.7	2.0	2.2	2.4	2.6	2.6	2.7	2.7
	37.8	1.5	3.0	4.7	6.6	8.9	11.6	13.2	14.9	16.8	1.4	1.7	2.0	2.2	2.3	2.4	2.4	2.4	2.4
CUMC12-CR53-T	60	-	-	-	4.6	6.7	9.3	10.8	12.5	14.2	-	-	-	3.0	3.5	4.0	4.2	4.5	4.7
	54.4	-	-	3.5	5.5	7.9	10.7	12.4	14.1	16.1	-	-	2.5	3.0	3.5	3.9	4.1	4.3	4.5
	48.9	-	-	4.4	6.5	9.1	12.1	13.9	15.8	17.9	-	-	2.6	3.0	3.4	3.8	3.9	4.1	4.3
	43.3	-	3.1	5.2	7.5	10.2	13.5	15.4	17.4	19.6	-	2.2	2.6	2.9	3.3	3.6	3.7	3.9	4.0
	37.8	1.8	3.7	5.9	8.4	11.3	14.8	16.8	19.0	21.3	1.8	2.2	2.6	2.9	3.1	3.4	3.5	3.6	3.7
CUMC14-CR62-T	60	-	-	-	5.5	8.1	11.2	13.0	15.0	17.1	-	-	-	3.6	4.2	4.8	5.0	5.3	5.6
	54.4	-	-	4.2	6.7	9.5	12.9	14.9	17.0	19.3	-	-	3.0	3.6	4.1	4.6	4.9	5.1	5.4
	48.9	-	-	5.2	7.9	10.9	14.6	16.7	19.0	21.5	-	-	3.1	3.6	4.0	4.5	4.7	4.9	5.1
	43.3	-	3.8	6.2	9.0	12.3	16.3	18.5	20.9	23.6	-	2.6	3.1	3.5	4.0	4.3	4.4	4.6	4.8
	37.8	2.2	4.5	7.1	10.1	13.6	17.8	20.2	22.8	25.7	2.2	2.6	3.0	3.4	3.7	4.0	4.2	4.3	4.4

Capacity data at 35°C return gas temperature, 15°F subcooling

Performance Data

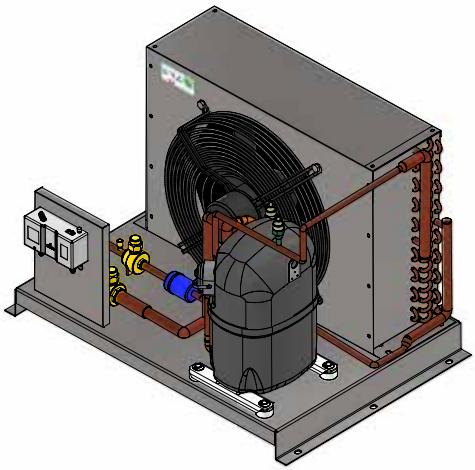
Low Temperature

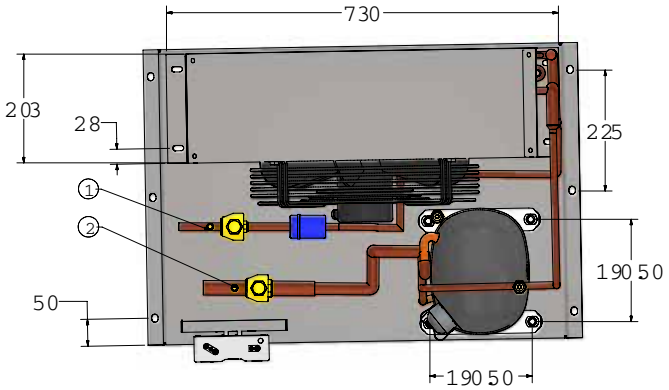
R404a

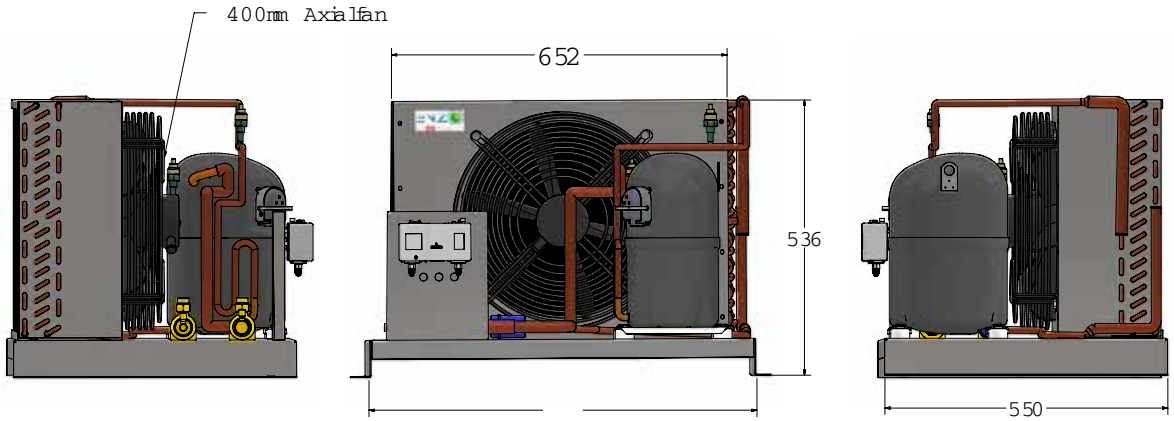
Condensing unit model Number of fans	Condensing temperature (°C)	Capacity (kW)						Total power input (kW)					
		Evaporating temperature (°C)											
		-37.2	-31.7	-23.3	-17.8	-12.2	-6.7	-37.2	-31.7	-23.3	-17.8	-12.2	-6.7
CULC4-CM475-S	38	0.7	1.2	2.0	2.8	3.7	4.7	0.8	0.9	1.0	1.1	1.3	1.7
	43	0.6	0.9	1.7	2.4	3.2	4.2	0.9	1.0	1.1	1.2	1.5	1.9
	49	-	0.7	1.4	2.0	2.7	3.6	-	1.1	1.2	1.3	1.6	2.1
	54	-	0.6	1.1	1.6	2.2	3.0	-	1.2	1.2	1.5	1.8	2.2
	60	-	0.0	0.9	1.2	1.7	2.4	-	0.0	1.4	1.6	1.9	2.3
CULC6-CM512-T	38	1.2	2.3	3.3	4.1	5.4	7.5	1.3	1.4	2.0	2.5	2.9	3.2
	43	0.7	1.6	2.7	3.4	4.5	0.6	1.4	1.5	2.1	2.6	3.1	3.4
	49	-	1.4	2.4	2.9	3.8	5.4	-	1.6	2.2	2.7	3.2	3.5
	54	-	1.0	2.0	2.6	3.4	4.7	-	1.7	2.3	2.7	3.3	3.7
	60	-	0.0	1.6	2.1	2.9	4.1	-	0.0	2.3	2.8	3.4	3.8
CULC6-CM515-T	38	1.3	2.5	3.6	4.4	5.9	8.2	1.4	1.9	2.5	2.9	3.2	3.5
	43	1.1	2.2	2.9	3.6	4.6	6.8	1.3	1.7	2.4	3.0	3.5	4.0
	49	-	1.9	2.5	3.2	4.1	5.9	-	1.7	2.3	2.9	3.5	4.2
	54	-	1.3	2.1	3.7	3.5	5.1	-	2.1	2.5	2.8	3.5	4.2
	60	-	0.0	1.7	2.3	3.0	4.4	-	0.0	2.8	3.1	3.5	4.2
CULC7-CM517-T	38	1.7	2.8	4.6	6.1	7.7	9.6	1.7	2.2	2.9	3.3	3.6	3.9
	43	1.5	2.4	4.0	5.3	6.8	8.7	1.7	2.2	2.9	3.4	3.8	4.2
	49	-	1.9	3.4	4.6	6.1	8.0	-	2.2	3.0	3.5	4.0	4.4
	54	-	1.4	2.7	3.9	5.5	7.4	-	2.3	3.0	3.5	4.1	4.6
	60	-	0.0	2.0	3.3	4.9	6.9	-	0.0	3.1	3.6	4.2	4.8
CULC7-CM520-T	38	1.8	2.9	5.0	6.6	8.4	10.2	1.8	2.2	3.1	3.7	4.0	3.8
	43	1.7	2.6	4.3	5.8	7.4	9.1	1.8	2.2	3.0	3.6	3.9	3.8
	49	-	2.2	3.8	5.1	6.7	8.4	-	2.4	3.3	4.0	4.4	4.4
	54	-	1.5	3.1	4.5	6.2	8.0	-	2.4	3.5	4.3	4.8	5.0
	60	-	0.0	2.2	3.7	5.6	7.6	-	0.0	3.1	4.0	4.8	5.3

Capacity data at 4 °C return gas temperature, OK subcooling

Dimensional Diagram

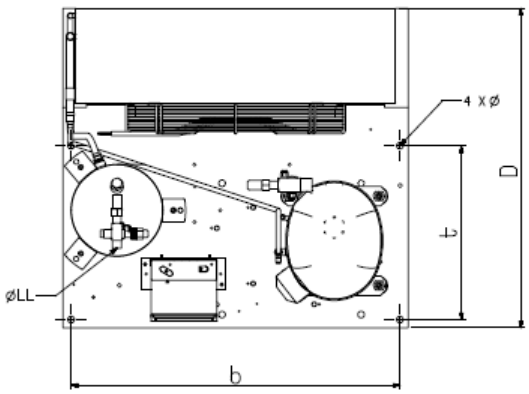


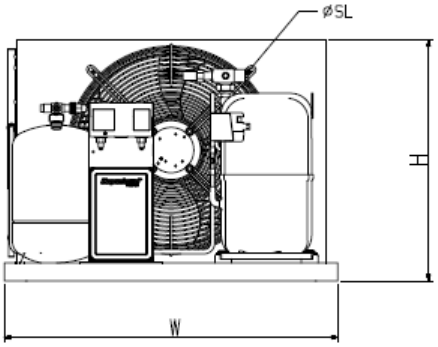




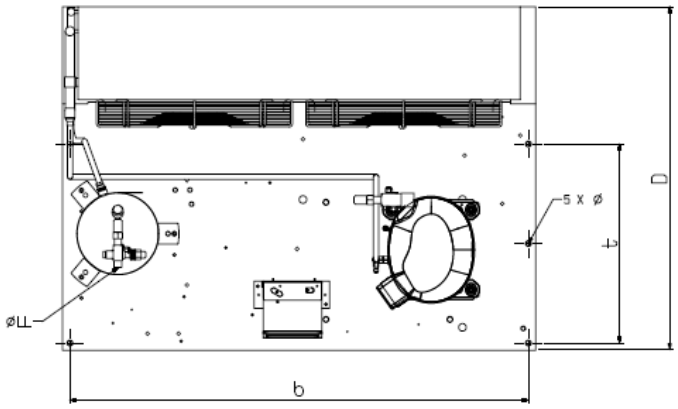
Dimensional Drawing (Medium and low temperature models)

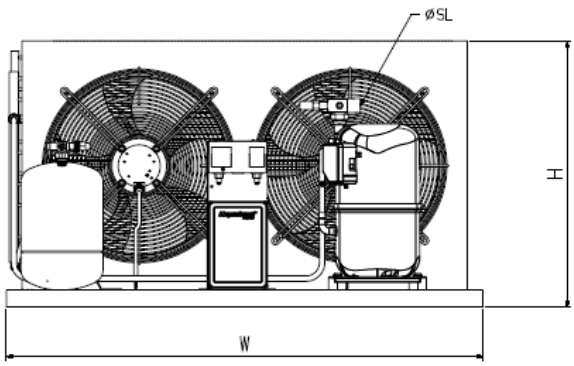
Condenser C8, D8, H7, H8, M8





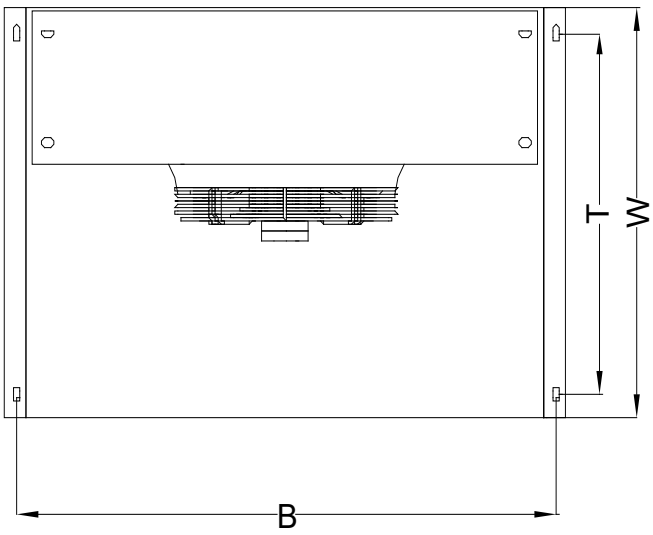
Condenser R6, R7

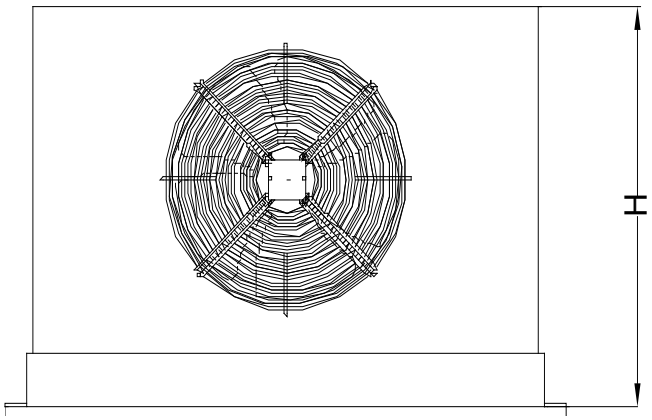




Mechanical Data

Condensing unit model	Compressor model	Receiver capacity (l)	Air flow	Depth/width [D / W]	Height	Base mounting Ø [b x t] (mm)	Suction Ø [SL] (“)	Liquid Ø [LL] (“)
			(m^3/hr)		[H] (mm)			
CUMC4-CJ513-S	KCJ513HAE-S322H	N.A	1900	725/655	495	682 X 550	3/8"	3/8"
CUMC6-CR21-T	CR21K7ME-TFM-111	N.A	2800	820/655	545	782 X 550	5/8"	3/8"
CUMC6-CR22-S	CR22K7ME-PF1-101	N.A	2800	820/655	545	782 X 550	5/8"	3/8"
CUMC10-CR29-T	CR29K7ME-TFM-111M	N.A	2800	820/655	545	782 X 550	5/8"	3/8"
CUMC10-CR30-S	CR30K7ME-PF1-101	N.A	3200	870/655	595	835 X 550	5/8"	3/8"
CUMC10-CR36-S	CR36K7ME-PFZ-101	N.A	3200	870/655	595	835 X 550	5/8"	3/8"
CUMC10-CR35-T	CR35K7ME-TFM-121	N.A	3200	870/655	595	835 X 550	5/8"	3/8"
CUMC10-CR41-T	CR41K7ME-TFM-101	N.A	3200	870/655	595	835 X 550	5/8"	3/8"
CUMC12-CR53-T	CR53K7ME-TFD-201	N.A	7000	-	-	-	-	-
CUMC14-CR62-T	CR62K7ME-TFD-201	N.A	7000	-	-	-	-	-
CULC4-CM475-S	KCM475LAL-C312H	2	2000	655/655	495	680 X 550	5/8"	3/8"
CULC6-CM512-T	KCM512LAL-E512H	3	2800	815/655	545	780 X 550	5/8"	3/8"
CULC6-CM515-T	KCM515LAL-E512H	3	2800	815/655	545	780 X 550	5/8"	3/8"
CULC7-CM517-T	KCM517LAL-E514H	4	3900	895/650	645	861 X 550	7/8"	1/2"
CULC7-CM520-T	KCM520LAL-E514H	4	3900	895/650	645	861 X 550	7/8"	1/2"





Electrical Data

Condensing unit model	Compressor model	Compressor maximum operating current	Compressor locked rotor current	Condenser fan (qty x model Diameter)	Condenser fan current 230V/1/50Hz(A)
		(A)	(A)		
CUMC4-CJ513-S	KCJ513HAE-S322H	7.5	36	1 X 350	0.65
CUMC6-CR21-T	CR21K7ME-TFM-111	5.1	27.5	1 X 400	0.82
CUMC6-CR22-S	CR22K7ME-PF1-101	13.5	56.5	1 X 400	0.82
CUMC10-CR29-T	CR29K7ME-TFM-111M	7.2	40	1 X 400	0.82
CUMC10-CR30-S	CR30K7ME-PF1-101	17.1	72	1 X 400	0.82
CUMC10-CR36-S	CR36K7ME-PFZ-101	16.3	85	1 X 450	1.15
CUMC10-CR35-T	CR35K7ME-TFM-121	7.3	45	1 X 450	1.15
CUMC10-CR41-T	CR41K7ME-TFM-101	8.5	45	1 X 450	1.15
CUMC12-CR53-T	CR53K7ME-TFD-201	11	54	2 X 450	2.3
CUMC14-CR62-T	CR62K7ME-TFD-201	17.5	55	2 X 450	2.3
CULC4-CM475-S	KCM475LAL-C312H	6.2	72	1 X 350	0.65
CULC6-CM512-T	KCM512LAL-E512H	7.3	45	1 X 450	1.15
CULC6-CM515-T	KCM515LAL-E512H	8	45	1 X 450	1.15
CULC7-CM517-T	KCM517LAL-E514H	8.24	61	1 X 450	1.15
CULC7-CM520-T	KCM520LAL-E514H	9.1	55	1 X 450	1.15

TRansport Refrigeration

CT-100 Series

- Environment friendly refrigerant R-404A
- 2Two-room multiple temperatures
- Maximum cooling for small trucks
- Front mounting condenser
- ABS case, antirust
- Wall embedded evaporator
- Option : Standby motor, oil separator, antifreeze by hot gas

Model		CT-100S			CT-100U			CT-100W			CT-100T			CT-100ESC		
Compressor		TM-15 147cc (9CID)			TM-15 147cc (9CID)			TM-15 147cc (9CID)			TM-16 163cc (10 CID)			TM-15 147cc (9CID)		
Volume of the cargo		7~16m³			7~16m³			7~16m³			7~16m³			7~16m³		
Temperature		-20°C ~ 0			-20°C ~ 0			-20°C ~ 0			-20°C ~ +20°C			-20°C ~ 0		
Operation Voltage		12V			12V			12V			DC 12V/24V			12V		
Operation Current		360W			360W			360W			600W			360W		
Refrigerant		R-404A			R-404A			R-404A			R-404A			R-404A		
Refrigerant		1.4kg			1.3kg			1.4kg			1.7kg			1.4kg		
Electric standby														220V or 380V, 1 or 3 Phase, 50 or 60 Hz (upon request)		
Defrost		HOT GAS BYPASS			HOT GAS BYPASS			HOT GAS BYPASS			HOT GAS BYPASS			HOT GAS BYPASS		
Temperature		**Road Operation**			**Road Operation**			**Road Operation**			**Road Operation**			**Road Operation**		
°C		Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h
0		3,517	3,024	12,000	3,517	3,024	12,000	3,517	3,024	12,000	4,684	4,028	15,984	3,517 [2,673]	3,024 [2,298]	12,000 [9,119]
-20		1,905	1,638	6,500	1,905	1,638	6,500	1,905	1,638	6,500	2,532	2,177	8,640	1,905 [2,000]	1638 [902]	6,500 [3,579]
Weight (kg)	Condenser	26g			23g			26g			30kg			100kg		
	Evaporator	20kg			20kg			40kg			23kg			20kg		
	Evaporator	-			-			-			16kg			-		
	Install kit	24kg			24kg			24kg			28kg			30kg		
	Total	70kg			67kg			90kg			97kg			150kg		

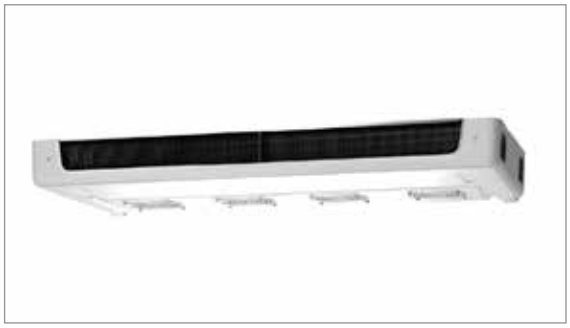
CT-250 Series

- Environment friendly refrigerant R-404A
- Maximum cooling for small and medium trucks
- 2Two-room multiple temperatures
- ABS case, antirust
- Wall embedded evaporator
- Front mounting condenser
- Under mount condenser
- Option : Standby motor, oil separator

Model		CT-250S			CT-250U			CT-250W			CT-250T			CT-250ESC		
Compressor		TM-16 163cc (10 CID)			TM-16 163cc (10 CID)			TM-16 163cc (10 CID)			TM-16 163cc (10 CID) SD-5L14 138cc (8.4 CID)			TM-16 163cc (10 CID)		
Volume of the cargo		10~20□			10~20□			10~20□			10~20□			10~20□		
Temperature		-20□~0			-20□~0			-20□~0			-20□~+20□			-20□~0		
Operation Voltage		24V			24V			24V			DC 12V/24V			12V / 24V		
Operation Current		600W			600W			600W			600W			600W		
Refrigerant		R-404A			R-404A			R-404A			R-404A			R-404A		
Refrigerant		1.8kg			1.7kg			1.8kg			1.8kg			1.8kg		
Electric standby														220V or 380V, 1 or 3 Phase, 50 or 60 Hz (upon request)		
Defrost		HOT GAS BYPASS			HOT GAS BYPASS			HOT GAS BYPASS			HOT GAS BYPASS			HOT GAS BYPASS		
Temperature		**Road Operation**			**Road Operation**			**Road Operation**			**Road Operation**			**Road Operation**		
°C		Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h
0		4,337	3,730	14,800	4,337	3,730	14,800	4,337	3,730	14,800	4,684	4,028	15,984	4,684 [3,223]	4,028 [2,772]	15,984 [11,000]
-20		2,345	2,016	8,000	2,345	2,016	8,000	2,345	2,016	8,000	2,532	2,177	8,640	2,532 [1,436]	2,177 [1,234]	8,640 [4,896]
Weight (kg)	Condenser	33g			24g			33g			40kg			102kg		
	Evaporator	23kg			23kg			50kg			23kg			23kg		
	Evaporator	-			-			-			23kg			-		
	Install kit	27kg			27kg			27kg			27kg			27kg		
	Total	83kg			74kg			110kg			113kg			152kg		

CT-500 Series

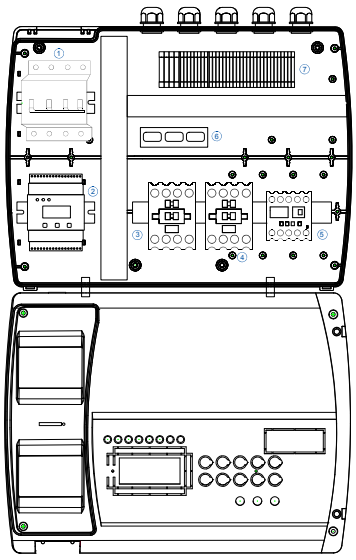
- Environment friendly refrigerant R-404A
- Maximum cooling for medium/small trucks
- Condenser : PF coil
- ABS case, PP turbo fan, 3-fan, 4-fan
- Maximum load space and high air flow volume with fans.
- Ultra slim evaporator
- Option : Oil separator for compressor protection, SPR Valve, Temperature Recorder, Heater
- Option : Antifreeze by hot gas
- Option : Standby motor, oil separator



Model		CT-500S			CT-500C			CT-500F			CT-500FPT			CT-500ESC		
Compressor		TM-16 163cc (10 CID)			TM-16 163cc (10 CID) or TM-21 215cc (13.1 CID)			TM-21 215cc (13.1 CID)			TM-21 215cc (13.1 CID)			TM-21 215cc (13.1 CID)		
Volume of the cargo		12~24□			14~28□			16~30□			20~34□			12~24□		
Temperature		-20□~0			-20□~0			-20□~0			-20□~0			-20~0□		
Operation Voltage		24V			24V			24V			24V			DC 12V / 24V		
Operation Current		600W			600W			720W			840W			600W		
Refrigerant		R-404A			R-404A			R-404A			R-404A			R-134A / 404A		
Refrigerant		2kg			2.2kg			2.4kg			2.4kg			1.6kg		
Electric standby														220V or 380V, 1 or 3 Phase, 50 or 60 Hz (upon request)		
Defrost		HOT GAS BYPASS			HOT GAS BYPASS			HOT GAS BYPASS			HOT GAS BYPASS			HOT GAS BYPASS		
Temperature		Road Operation			Road Operation			Road Operation			Road Operation			Road Operation		
°C		Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h	Watts	Kcal/h	BTU/h
0		4,689	4,032	16,000	4,982	4,248	17,000	5,568	4,788	19,000	6,013	5,171	20,520	5,931 [4,744]	5,100 [4,079]	20,237 [16,186]
-20		2,559	2,200	8,730	2,784	2,394	9,500	3,224	2,772	11,000	3,481	2,993	11,880	2,874 [2,299]	2,471 [1,977]	9,805 [7,844]
Weight (kg)	Condenser	33g			31g			40g			40kg			100kg		
	Evaporator	25kg			35kg			43kg			43kg			23kg		
	Install kit	27kg			28kg			30kg			30kg			30kg		
	Total	85kg			94kg			113kg			113kg			153kg		

Control Panels

The Smart Temperature Control Panel is an advanced solution designed specifically for commercial refrigeration systems, supporting compressors of up to 28 HP. This state-of-the-art control panel combines innovation, user accessibility, and unwavering reliability to ensure optimal performance in temperature regulation. Its user-friendly interface makes it accessible for operators, while robust components ensure long-lasting performance. Whether in supermarkets, cold storage facilities, or industrial kitchens, the Smart Temperature Control Panel provides seamless control, safeguarding your perishable goods with maximum efficiency.



HOUSING ENCLOSURE

DESCRIPTION :

1 : INCOMER MCB 40 A - 1 NO
2 : LVM (VMRC-10/3) - 1 NO
3 : COMP. CONTACTOR 18A - 1 NO
4 : DEF. CONTACTOR 18A - 1 NO
5 : EVAP. CONTACTOR 9A - 1 NO
6 : CT BOARD WITH 20A CT - 1 NO
7 : CONNECTOR TERMINAL - 40 NOS

INTEGRATED
Supportive and faithful to ethical values

RESOLUTE
Always strive for improvement

EFFICIENT
Surpass expectations every time

CREATIVE
Innovate to shape technology

SUSTAINABLE
Support both global and local ecosystems

PASSIONATE
Stay motivated, pursue triumph

QUALITATIVE
See. Understand. Adapt. Execute.

CUSTOMER CENTRIC
Turn problems into solutions

Features	CRC-2070	CRC-2072
Display	"14 Segment Display 4 x 32mm (1.26"") Amber + 7 Segment Display 4 x 13mm (0.51"") Green"	"14 Segment Display 4 x 32mm (1.26"") Amber + 7 Segment Display 4 x 13mm (0.51"") Green"
Power Supply	440V AC ± 10% 50-60Hz 3 Phase 4 wire	440V AC ± 10% 50-60Hz 3 Phase 4 wire
Load Type	Three Phase	Three Phase
Probe Input	2 NTC: Room, Evaporator	2 NTC: Room, Evap1, Evap2(Optional), HACCP, AUX
Analog Input	3 CTs (0.0 to 20.0A): Comp R Phase, Comp Y Phase, Comp B Phase	5 CTs (0.0 to 20.0A): Comp R Phase, Comp Y Phase, Comp B Phase, Evap1, Evap2 (Optional)
Digital Input	"HP, LP, SPPR, AUX1, AUX2, R-Phase, Y-Phase, B-Phase (Potential) Door Input (Potential Free)"	"HP, LP, SPPR, AUX1, AUX2, R-Phase, Y-Phase, B-Phase (Potential) Door Input (Potential Free)"
Temperature Range	-50.0°C to +50.0°C	-50.0°C to +50.0°C
Temperature Resolution	0.1°C / 1.0°C	0.1°C / 1.0°C
Current Resolution	0.1A	0.1A
Compressor Contractor	3 Pole + 1 Aux, 400 V, 18A (230V Coil)	3 Pole + 1 Aux, 400 V, 18A (230V Coil)
Defrost1 Contactor	3 Pole + 1 Aux, 400 V, 18A (230V Coil)	3 Pole + 1 Aux, 400 V, 18A (230V Coil)
Defrost2 Contactor	-	3 Pole + 1 Aux, 400 V, 18A (230V Coil)
Evap Fan1 Contactor	3 Pole + 1 Aux, 400 V, 9A (230V Coil)	3 Pole + 1 Aux, 400 V, 9A (230V Coil)
Evap Fan2 Contactor (Optional)	-	3 Pole + 1 Aux, 400 V, 9A (230V Coil)
Relay Output	LSV: 10A Condenser: 20(8)A Light: 5A"	LSV: 10A Condenser: 20(8)A Light: 5A"
Alam Output	Alarm 5A & Internal Buzzer	Alarm 5A & Internal Buzzer
Serial Output	RS-485 (for PC Connectivity)	RS-485 (2 Nos. for BMS & Remote Display)
WiFi	-	Parameter Setting via Web Server/IoT
Main Switch General Protection	4 Poles MCB	4 Poles MCB
LVM	4 Wire Voltage Monitoring & Protection	4 Wire Voltage Monitoring & Protection
Size	400 x 300 x 135mm	400 x 300 x 135mm
Mounting Type	Wall Mount	Wall Mount

Features	CRC-2020	CRC-2052
Display	4 Digit, 1" Dot Matrix Display + LED Indications	4 Digit, 1" Dot Matrix Display + LED Indications
Power Supply	440V AC ± 10% 50-60Hz 3 Phase 4 wire	440V AC ± 10% 50-60Hz 3 Phase 4 wire
Load Type	Three Phase	Three Phase
Probe Input	2 NTC: Room	2 NTC: Room, Coil
Analog Input	3 CTs (0.0 to 20.0A): Comp R Phase, Comp Y Phase, Comp B Phase	3 CTs (0.0 to 20.0A): Comp R Phase, Comp Y Phase, Comp B Phase
Digital Input	"HP, LP, SPPR, AUX / CTH, OPS, R-Phase, Y-Phase, B-Phase (Potential) Door Input (Potential Free)"	"HP, LP, SPPR, AUX / CTH, OPS, R-Phase, Y-Phase, B-Phase (Potential) Door Input (Potential Free)"
Temperature Range	-50.0°C to +50.0°C	-50.0°C to +50.0°C
Temperature Resolution	0.1°C	0.1°C
Current Resolution	0.1A	0.1A
Compressor Contractor	3 Pole + 1 Aux, 400 V, 18A (230V Coil)	3 Pole + 1 Aux, 400 V, 18A (230V Coil)
Defrost Contactor	-	3 Pole + 1 Aux, 400 V, 18A (230V Coil)
Evaporator Fan Contactor	-	3 Pole + 1 Aux, 400 V, 9A (230V Coil)
Relay Output	Evaporator: 5A LSV: 10A Light: 5A"	Condenser: 10A LSV: 10A Light: 5A"
Alam Output	Alarm 5A & Internal Buzzer	Alarm 5A & Internal Buzzer
Serial Output	RS-485	RS-485
Main Switch General Protection	4 Poles MCB	4 Poles MCB
LVM	4 Wire Voltage Monitoring & Protection	4 Wire Voltage Monitoring & Protection
Size	400 x 300 x 135mm	400 x 300 x 135mm
Mounting Type	Wall Mount	Wall Mount
Application	Cold Room	Cold Room
Size	400 x 300 x 135mm	400 x 300 x 135mm
Mounting Type	Wall Mount	Wall Mount

Features	CRC-5022	CRC-5020
Display	Customized Display 3 Digit White Display	"2 x 17mm 7 Segment Display 1 x 11mm 7 Segment Display 8 LEDs for Indication"
Power Supply	440V AC ± 10% 50-60Hz 3 Phase 4 wire	440V AC ± 10% 50-60Hz 3 Phase 4 wire
Load Type	-	Three Phase
Probe Input	2 NTC: Control, Coil	1 NTC
Analog Input	1 x CT (Comp_CT_20A/50A)	-
Digital Input	"2 x Potential Free (Door Open & Auxiliary) 4 x 230V AC (Phase Sensing (HP, LP, SPPR, VPR))"	1 x Potential Free (Auxiliary)
Temperature Range	-50.0°C to +50.0°C	-45.0°C to +99.9°C
Temperature Resolution	0.1°C	0.1°C
Current Resolution	0.1A	-
Compressor Contractor	3 Pole + 1 Aux, 400 V, 18A (230V Coil)	3 Pole + 1 Aux, 400 V, 18A (230V Coil)
Relay Output	"Evaporator: 20 (8) A Condensor: 20 (8) A"	-
Alam Output	"Alarm/Light: 10A Internal Buzzer"	"1 x 12V DC External Buzzer"
Serial Output	RS-485	-
Main Switch General Protection	4 Poles MCB	4 Poles MCB
Phase Protection	VPR	-
Size	330 x 230 x 121.5mm	330 x 230 x 121.5mm
Mounting Type	Wall Mount	Wall Mount
Application	Cold Room	Cold Room

Features	CRC-202000S	CRC-205200S
Display	4 Digit, 1" Dot Matrix Display + LED Indications	4 Digit, 1" Dot Matrix Display + LED Indications
Power Supply	415V AC ± 10% 50-60Hz 3 Phase 4 wire	415V AC ± 10% 50-60Hz 3 Phase 4 wire
Load Type	Three Phase	Three Phase
Probe Input	2 NTC: Room	2 NTC: Room, Coil
Analog Input	3 CTs (0.0 to 20.0A): Comp R Phase, Comp Y Phase, Comp B Phase	3 CTs (0.0 to 20.0A): Comp R Phase, Comp Y Phase, Comp B Phase
Digital Input	"HP, LP, SPPR, AUX / CTH, OPS, R-Phase, Y-Phase, B-Phase (Potential) Door Input (Potential Free)"	"HP, LP, SPPR, AUX / CTH, OPS, R-Phase, Y-Phase, B-Phase (Potential) Door Input (Potential Free)"
Temperature Range	-50.0°C to +50.0°C	-50.0°C to +50.0°C
Temperature Resolution	0.1°C	0.1°C
Current Resolution	0.1A	0.1A
Compressor Contractor	3 Pole + 1 Aux, 400 V, 18A (230V Coil)	3 Pole + 1 Aux, 400 V, 18A (230V Coil)
Defrost Contactor	-	3 Pole + 1 Aux, 400 V, 18A (230V Coil)
Evaporator Fan Contactor	3 Pole + 1 Aux, 400 V, 9A (230V Coil)	3 Pole + 1 Aux, 400 V, 9A (230V Coil)
Relay Output	"Evaporator: 5A LSV: 10A Light: 5A"	"Condenser: 10A LSV: 10A Light: 5A"
Alam Output	Alarm 5A & Internal Buzzer	Alarm 5A & Internal Buzzer
Serial Output	RS-485	RS-485
Main Switch General Protection	4 Poles MCB	4 Poles MCB
LVM	4 Wire Voltage Monitoring & Protection	4 Wire Voltage Monitoring & Protection
Size	450 x 400 x 200mm	450 x 400 x 200mm
Mounting Type	Wall Mount	Wall Mount
Application	Cold Room	Cold Room

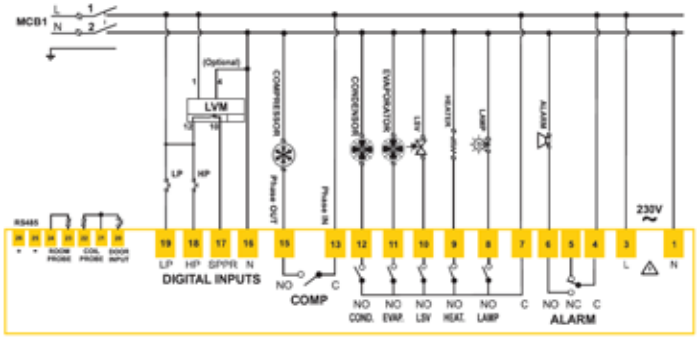
Features	ECB-2030W(4G/WiFi)
Controlled Load	Compressor, defroster, air cooler
supply voltage	Three phase five/four wire 380VAC ± 10% 50/60
Applicable compressor types	Piston engine, vortex engine
Compressor power	5HP, 10HP, 15HP
Compressor contactor size	18A(5HP), 25A(10HP), 32A(15HP)
Compressor start-up mode	Direct Start
Condenser type	forced air cooling
Cold storage type	Wind turbine hangar
Defrosting method	Electrochemical Frost
Temperature Control Range	-40°C ~ 85°C
Temperature control accurac	±1°C
display resolution	0.1°C
Temperature sensor type	NTC(10KΩ/25°C, B 3435K)(Sensor length 5 meters)
Compressor protection output	Adjustable from 1 to 120 minutes
Frost initiation method	Periodic defrosting and clock defrosting modes are optional
External signal protection	2 external signal inputs
motor protector	Yes
Current measuring range	0~80A ,Equipment with instantaneous current exceeding 230A is not
Accuracy of current measure	±3% (Within the nominal range of the transformer)and ±2A(0 ~ 30A)
Current display resolution:	0.1A
5-15HPsize (W*H*D)	520*329*140mm
Box color	white
Usage environment	Temperature: -10°C ~ 60°C; humidity: 20% ~ 90%RH

Features		ECB-1000PLUS CLOUD
Measuring range		-49 - 119°C
Temperature Control Range		-40 - 99°C
Temperature measurement accuracy		"±1°C (-20 - 50°C), ±1.5°C
temperature resolution		0.1°C,1°C,1F
Voltage range		100 - 256VAC 50/60Hz
Overall Power Consumption		12W
Circuit breaker capacity		25A
Analog input	Temperature probe	●
	Frost probe	●
Digital Output	compressor	3Hp
	DEFROST	30A
	fans	16A
	light	16A
	alarm	10A
Defrosttype	Electrochemical Frost	●
	Thermal defrosting	●
Defrosting method	periodicity	●
	Real Time Clock	●
Other features	Clock function	●
	Buzzer alarm	●
	High and low temperature alarm	●
	Temperature unit CF	●
	Energy saving mode	●
	Display decimals	●
	Menu password	●
mmunication interfa	RS-485	●
	Upper computer software	●
Networking function	WiFi (2.4GHz)	●
	4G	●
	4Glength of antenna	3*
Ambient Temperature		-10 - 65°C
storage temperature		-20 - 75°C
size (mm)		261x167.5x95

"Note: (1) Can be set as door switch, light control, high and low voltage alarm, external alarm;
(2) Can be set as unit protection and human in cold storage."

Features	CRC-1200
Display	7 Segment LED Display, 2 x 25.4mm (1") + 16 x 2 LCD
Power Supply	230V
Probe Input	NTC
Digital Input	"HP, LP, SPPR (Potential) Door Input (Potential Free)"
Temperature Range	-50°C to +35°c
Temperature Resolution	1°C
Relay Output	"Compressor: 8(3)A Defrost : 8(3)A Condenser: 8(3)A Evaporator: 8(3)A LSV: 8(3)A Light: 8(3)A"
Alam Output	Alarm 8(3)A & Internal Buzzer
Serial Output	RS-485
Size	220 x 227mm
Mounting Type	Wall Mount
Panel Cutout	-
Application	Cold Room

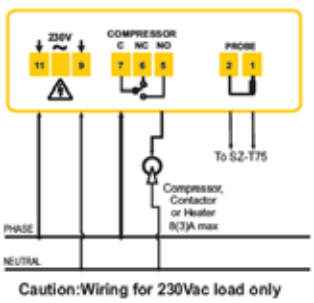
CRC-1200





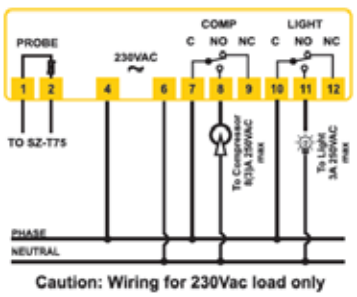

Features	SZ-7510-WV	SZ-7511-WV	SZ-7529-WV	SZ-7524-WV
Display	7 Segment LED Display, 3 x 14.2mm (0.56")	7 Segment LED Display, 3 x 14.2mm (0.56")	7 Segment LED Display, 3 x 14.2mm (0.56")	7 Segment LED Display, 3 x 14.2mm (0.56")
Power Supply	230V	230V	230V	230V
Probe Input	NTC	NTC	NTC	NTC
Digital Input	-	-	-	-
Temperature Range	"40°C to +99°C -40°C to +50°C"	"40°C to +99°C -40°C to +50°C"	-40°C to +50°C	-40°C to +50°C
Temperature Resolution	0.1°C/1.0°C	0.1°C/1.0°C	0.1°C	0.1°C/1.0°C
Relay Output	Compressor: 8(3)A	"Compressor: 8(3)A Light: 5A"	Compressor: 20A	"Compressor: 8(3)A Defrost: 8(3)A Light: 5A"
Alam Output	-	-	-	External Buzzer
Serial Output	-	-	-	-
Size	80 x 126mm	80 x 126mm	80 x 126mm	80 x 126mm
Mounting Type	Wall Mount	Wall Mount	Wall Mount	Wall Mount
Panel Cutout	-	-	-	-
Application	Cold Room	Cold Room	Cold Room	Freezer, Cold Room

SZ-7510-WV



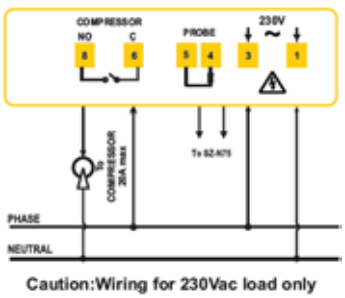
Caution:Wiring for 230Vac load only

SZ-7511-WV



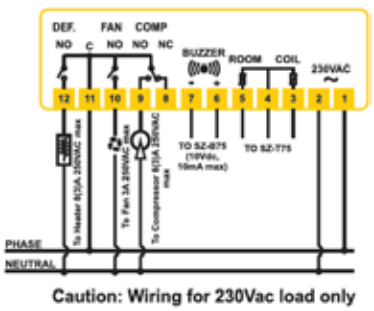
Caution: Wiring for 230Vac load only

SZ-7529-WV



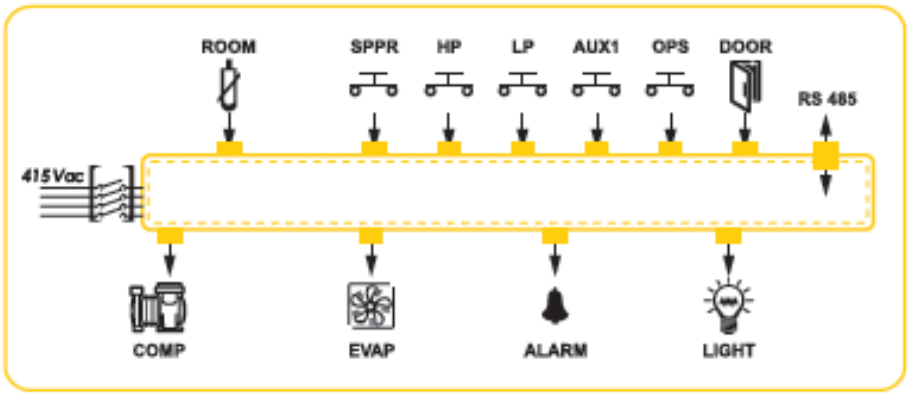
Caution:Wiring for 230Vac load only

SZ-7524-WV

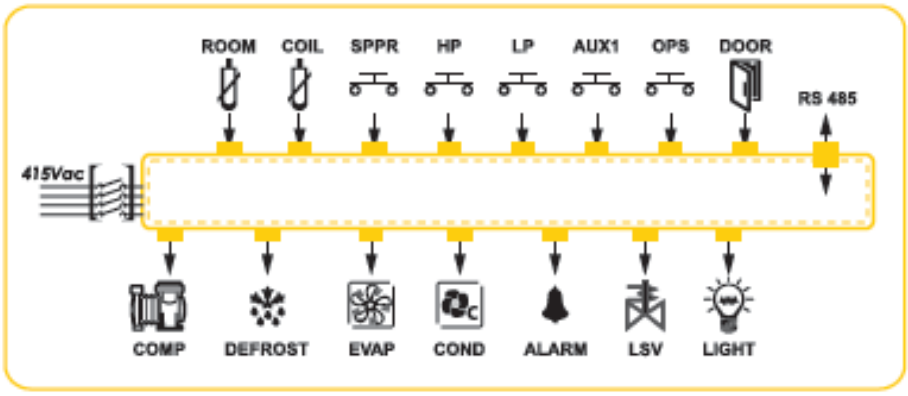


Caution: Wiring for 230Vac load only

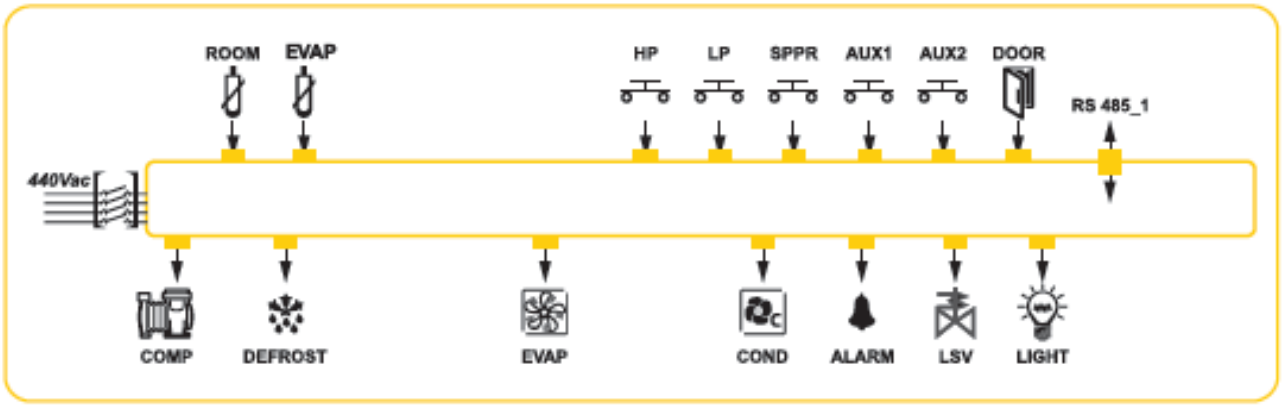
CRC-2020 / CRC-202000S



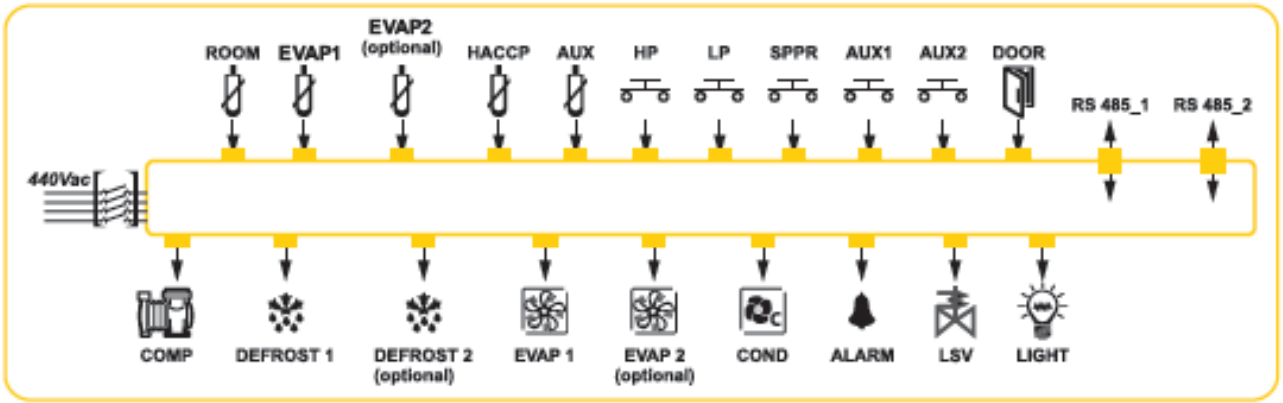
CRC-2052 / CRC-205200S



CRC-2070



CRC-2072



Humidifier

ColdTech's industrial humidifiers are engineered to maintain precise humidity levels in cold storage and climate-controlled environments. Designed for durability and efficiency, these humidifiers help preserve the quality of perishable goods by minimizing moisture loss and preventing dehydration. With robust construction and easy-to-maintain components, ColdTech humidifiers deliver consistent performance in demanding conditions such as food processing units, pharmaceutical storage, and refrigerated warehousing. Their advanced misting technology ensures uniform humidity distribution, supporting optimal storage conditions while enhancing energy efficiency.

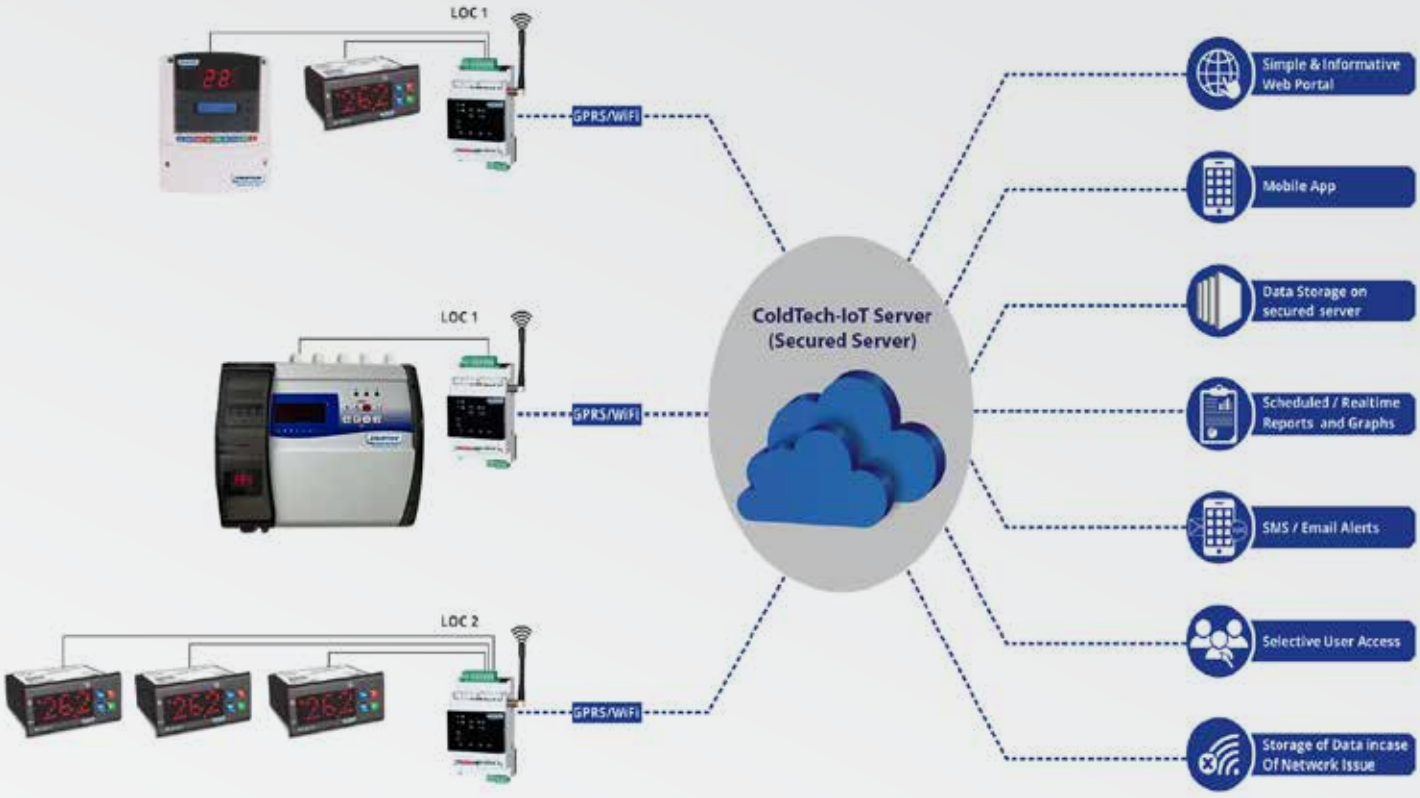
Features	Humidifier
Particle Size	5 ~ 10 Microns
Power Supply	Single Phase: 230V AC / 50Hz
Operating Temperature	1 ~ 50°C
Humidification Capacity	6 ~ 8 Ltrs/hr
Power Input	90W
Water Connection	0.5 Inch (<5 Kg/CM2)
Area Coverage	600 ~ 800 sqft
Dimensions	370 x 370 x 690mm
Weight	9 kgs (dry)
Application	Food / Medical Packaging Houses, Warehouses, Timber Industries, Tea / Tobacco Industries, Curing Processes, Horticulture etc., Textile Industries, Propagation Rooms, Cold Storage Rooms, Nurseries, Greenhouses, Mushroom Cultivations Rooms

ColdTech-IoT is designed to read and exchange desired monitoring Data of Connected Devices and Systems over Communication Networks.

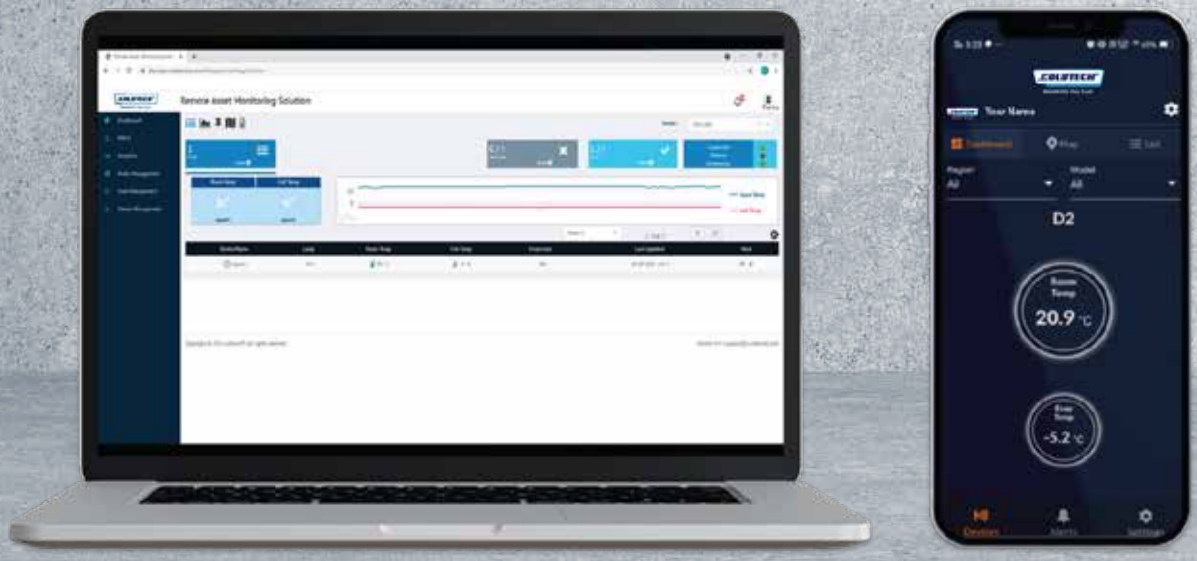
The connection to the ColdTech cloud (iot.coldtechgroup.com) is via GPRS network / Wi-Fi allows the user to always stay in contact with the Communicating Devices by receiving real-time data and having immediate notifications directly on the Smartphone.

It makes user possible to have Real time status, manage alarms, print reports, modify operating parameters so able to monitor and whole system very easily.

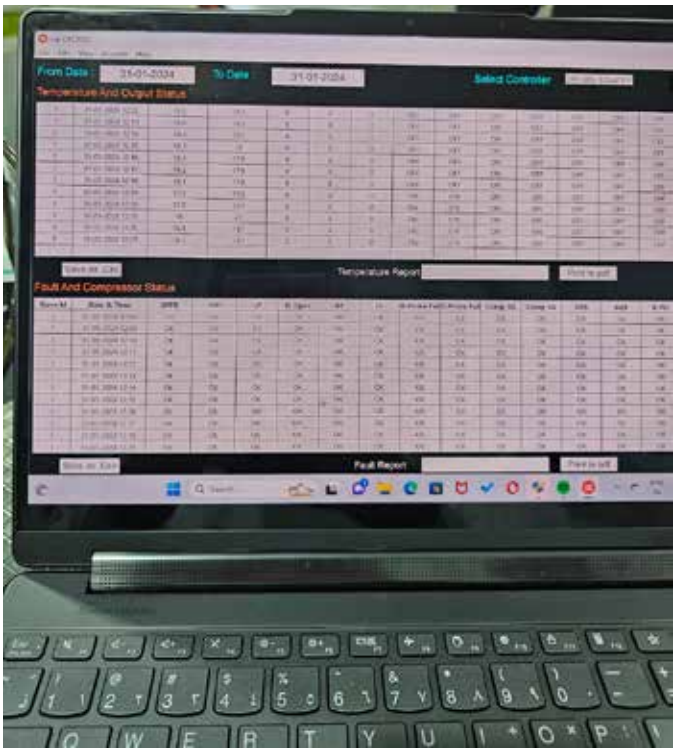
- **Accessibility:** 24 x 7 Access over web portal and mobile app to view real-time status.
- **Dashboard:** List view and 24 Hrs. Graph gives easy summarized display of connected devices.
- **Notifications:** Alert notifications through SMS (In India) and Email.
- **Data Downloading:** Reports in .pdf or .csv format are available. User can create Scheduled Email Reports.
- **Historical data:** For analysis and audit purposes with given selection of time/date interval.
- **Analytics:** Possible with Graphs for selected parameter for given devices.
- **Data security:** The system will be protected with User ID and Password and hence only the authorized users will be able to access the system.


LOC 1
GPRS/WiFi
LOC 1
GPRS/WiFi
LOC 2
GPRS/WiFi
ColdTech-IoT Server
(Secured Server)
Simple & Informative Web Portal
Mobile App
Data Storage on secured server
Scheduled / Realtime Reports and Graphs
SMS / Email Alerts
Selective User Access
Storage of Data incase Of Network Issue
RS-485 +
RS-485 -

Dashboard

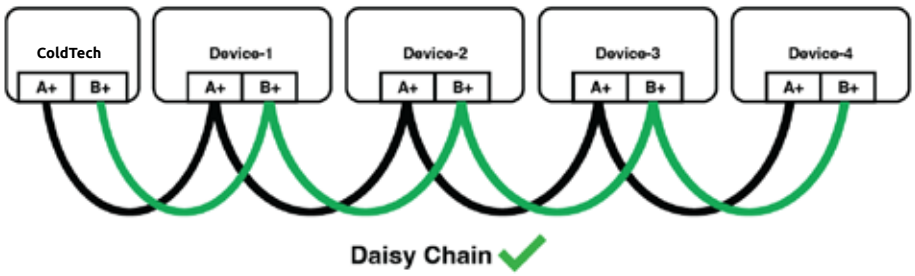

D2
20.9 °C
-5.2 °C

Offline Temperature monitoring, data logging & reverse controlling



RS-485 Connection

RS-485 has two terminal connection A+ and B-. ColdTech-IoT modem can be connected with any ColdTech Controller which has RS-485 Modbus. Maximum of 10 numbers of Devices can be connected in daisy chain only.



Customized Multi Coldroom Electrical Panel

- COLD ROOM CONTROL PANEL (with MCC)
- COLD ROOM CONTROL PANEL
- MULTI COLD ROOM PANEL (with Datalogging)
- AMMONIA COLD STORAGE
- THYRISTOR PANEL
- 2 Working (with Star Delta)
- HEAT RECOVERY SYSTEM
- PROCESS CHILLER ELECTRICA L PANEL

Reliability You Trust

Corporate Office:

UAE
ColdTech Refrigeration and Freezing Equipment Manufacturing LLC
PO BOX: 90334, Al Quasis Industrial Area-4, Dubai, UAE
Email: info@coldtechgroup.com
Web: www.coldtechgroup.com

Regional Offices:

UAE: PNL113, Al Ghail Industrial Zone-NFZ, RAK, UAE
Phone: +971 56 265 3347
Email: arif@coldtechgroup.com
Web: www.coldtechgroup.com

KSA: Riyadh - Al Khaleej, Salman Al Farsi Street

Bahrain: Sitra Industrial Area, Kingdom of Bahrain

Qatar: Al Rayyan, Doha, Qatar

Oman: Ruwi, Sultanate of Oman

Kuwait: xxxxx