



KUB®

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Air Cooler For Cold Storage  
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KUB®

SINCE 1997

COOLING FOR CREATING  
BETTER LIFE



**CONCENTRATION  
FOCUS  
PROFESSION**

## Enterprise Brief


**Shanghai KUB Refrigeration Equipment**, Ltd is a professional manufacturer specialized in producing condensing units、air cooler for cold storage and cold chain processing with nearly 20 years of experience in R&D、production and engineering. Enterprise respects the innovation and technology , products are professionally applied to cold storage and refrigeration in industrial and commercial fields .the mass production with OEM ,also provide the ODM service ,meanwhile we provide one-stop services for our customers's other outsourcing purchasing needs. Our product culture can be traced back to 1997. now our factory moved to new plant , near to Shanghai city center which is very convenient to visit and business discussion for customers . We commit ourself to technology innovation and product quality as a top position to gain customers' trust with win to win and a long term .

With the development of new globalization economy mode and the improvement of people's life quanlity, we have realized that the cold storage and freshness preservation would be a huge development demand. We hope to share our innovation idea with worldwide customers and establish a win-win collaboratlon.

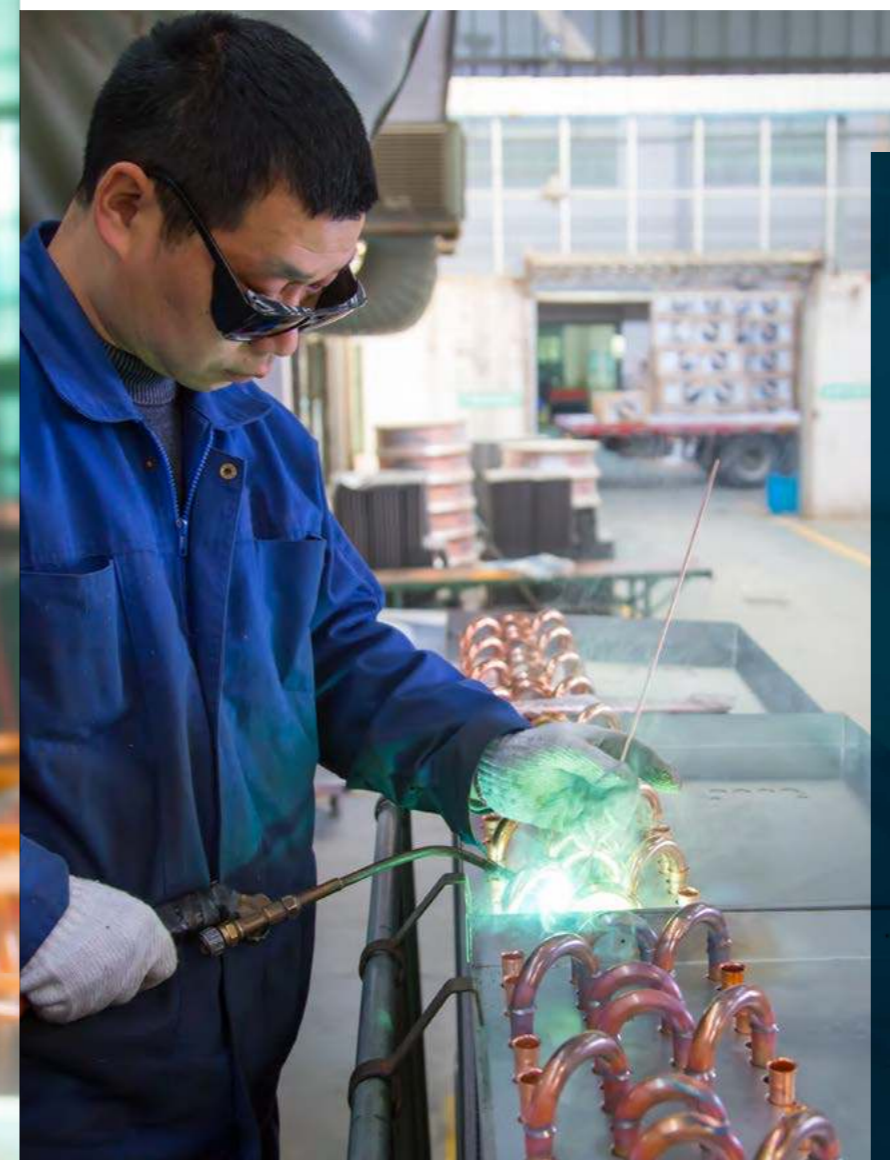


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**Pragmatic working  
Preconscious action**



### Enterprise Philosophy

- ◆ Service of the concentration、 focus and profession,
- ◆ team working spirit with enco-friendly protection and low carbon products ,
- ◆ To drive the company develop better future in the Internet plus refrigeration.

### CSR

Mind of the social public welfare undertakings, to create and share green environmental protection and low carbon society.



# Product Content

- 01/04 D Type Air Cooler With Electric Defrosting
- 05/06 D Type Air Cooler With Water Defrosting
- 07/10 Unit Cooler With Inner Thread Tube
- 11/12 Ceiling Dual Discharge Unit Cooler
- 13/14 Cabinets Air Cooler
- 15/16 Cold Storage Engineering Design



Cold Storage

Air Cooler

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**KUB**<sup>®</sup>

# D Type Air Cooler With Electric Defrosting



- ① D Type Air Cooler
- ② "L" — Fresh Products Preservation
- ③ "D" — Frozen Product Preservation
- ④ "J" — Fast Freezing Product
- ⑤ Cooling Area
- ⑥ Rated Cooling Capacity

## Products Features

- ◆ Using The Special Integral Casing Iron Alloy With High Rigidity And Resistance And Anticorrosion
- ◆ The Casing Adopted Rolled Aluminum Plate And Paint Epoxy Plastic Anti-Erode ,Nice Shape
- ◆ Special Coil Design ,High Efficient Heat Exchange
- ◆ Maximum Heat Transfer With Compact Demensions
- ◆ Optimized Tubular Heater Configurations Ensure Defrosting Quickly

## Application

- ◆ D Serial Air Cooler Apply To All Ranges Of Cold Storage For The Preservation Of Vegetable、Fruit、Meat Fresh Or Freezer Products、 Food Processing 、 Dairy Products Processing、 Edible Fungus Breeding Center .
- ◆ Application Temperature Range is From +10°C To -25°C With Special Requirement



## Technical Parameters

Model	Rating Q0 at		Application Temp		Cooling Surface	Air Flow	Air Throw	Connection		External Axial Fan				Noise	Tube Volume	Electric Defrost	
	50 Hz.R404A	SC2						Inlet	Outlet	Power	Diameter	Per Fan				L <sub>WA</sub>	Coil
	W	mm	°C	m <sup>2</sup>	m <sup>3</sup> /h	m	ø(mm)					ø(mm)	W	A	db(A)		
DL-2.1/10	2100	4.5	≥0	10	1650	7	12	19	90	300	1380	90	0.25	54	—	0.6	0.6
DL-3.1/15	3100	4.5	≥0	15	2*1650	7	12	19	2*90	300	1380	90	0.25	54	—	0.9	0.9
DL-4.1/20	4100	4.5	≥0	20	2*1650	7	12	19	2*90	300	1380	90	0.25	54	—	1.3	1.3
DL-5.2/25	5200	4.5	≥0	25	2*2670	7	12	22	2*135	350	1360	135	0.3	58	—	2*1.2	1.2
DL-8.3/40	8300	4.5	≥0	40	2*3500	9	16	25	2*190	400	1370	190	0.5	60	—	2*1.4	1.4
DL-11.5/55	11500	4.5	≥0	55	2*3500	9	16	25	2*190	400	1370	190	0.5	60	—	2*1.4	1.4
DL-16.7/80	16700	4.5	≥0	80	2*4500	9	19	38	2*250	450	1380	250	0.55	62	—	2*1.5	1.5
DL-22/105	22000	4.5	≥0	105	2*4500	9	19	38	2*250	450	1380	250	0.55	62	—	2*1.5	1.5
DL-25.8/125	25800	4.5	≥0	125	2*4500	9	19	38	3*250	450	1380	250	0.55	62	—	2*2.1	2.1
DL-33.6/160	33600	4.5	≥0	160	3*4500	9	19	38	3*250	450	1380	250	0.55	62	—	2*2.4	2.4
DL-38.7/185	38700	4.5	≥0	185	3*4500	9	25	50	4*250	450	1380	250	0.55	62	—	2*3	3
DL-44/210	44000	4.5	≥0	210	4*4500	9	25	50	4*250	450	1380	250	0.55	62	—	2*3.2	3.2
DL-52.9/260	52900	4.5	≥0	260	4*9500	12	25	50	2*800	600	1350	800	1.5	73	—	5*2.7	2.7
DL-67/330	67200	4.5	≥0	330	3*9500	12	25	50	3*800	600	1350	800	1.5	73	—	5*3.3	3.3
DL-85.6/450	85600	4.5	≥0	450	3*9500	12	25	50	3*800	600	1350	800	1.5	73	—	5*3.5	3.5
DD-1.4/7	1400	6	≥-18	7	1650	7	12	19	90	300	1380	90	0.25	54	—	1*0.6	0.6
DD-2.4/12	2400	6	≥-18	12	2*1650	7	12	19	90	300	1380	90	0.25	54	—	1*0.9	0.9
DD-3/15	3000	6	≥-18	15	2*1650	7	12	19	2*90	300	1380	90	0.25	54	—	0.9	0.9
DD-4.4/22	4400	6	≥-18	22	2*2670	7	16	22	2*135	350	1360	135	0.3	58	—	2*1.2	1.2
DD-6/30	6000	6	≥-18	30	2*3500	9	16	25	2*190	400	1370	190	0.5	60	—	2*1.4	1.4
DD-8/40	8000	6	≥-18	40	2*3500	9	16	25	2*190	400	1370	190	0.5	60	—	2*1.4	1.4
DD-12/60	12000	6	≥-18	60	2*4500	9	19	38	2*250	450	1380	250	0.55	62	—	5*1.5	1.5
DD-16/80	16000	6	≥-18	80	2*4500	9	19	38	2*250	450	1380	250	0.55	62	—	5*1.5	1.5
DD-20/100	20000	6	≥-18	100	2*4500	9	19	38	3*250	450	1380	250	0.55	62	—	5*2.1	2.1
DD-24/120	24000	6	≥-18	120	3*4500	9	19	38	3*250	450	1380	250	0.55	62	—	5*2.4	2.4
DD-28.2/140	28000	6	≥-18	140	3*4500	9	25	50	4*250	450	1380	250	0.55	62	—	5*3	3
DD-32/160	32000	6	≥-18	160	4*4500	9	25	50	4*250	450	1380	250	0.55	62	—	5*3.2	3.2
DD-40/200	40000	6	≥-18	200	4*9500	12	25	50	2*800	600	1350	800	1.5	73	—	8*2.7	2.7
DD-50/250	50000	6	≥-18	250	2*9500	12	25	50	3*800	600	1350	800	1.5	73	—	8*3.3	3.3
DD-60/300	60000	6	≥-18	300	3*9500	12	25	50	3*800	600	1350	800	1.5	73	—	8*3.5	3.5
DJ-0.8/5	800	9	≥-25	5	1650	7	12	19	90	300	1380	90	0.25	54	—	1*0.6	0.6
DJ-1.3/8	1300	9	≥-25	8	2*1650	7	12	19	2*90	300	1380	90	0.25	54	—	1*0.9	0.9
DJ-1.8/10	1800	9	≥-25	10	2*1650	7	12	19	2*90	300	1380	90	0.25	54	—	1.3	1.3
DJ-2.1/15	2100	9	≥-25	15	2*2670	7	16	22	2*135	350	1360	135	0.3	58	—	2*1.2	1.2
DJ-4/20	4000	9	≥-25	20	2*3500	9	16	25	2*190	400	1370	190	0.5	60	—	2*1.4	1.4
DJ-6/30	6000	9	≥-25	30	2*3500	9	19	25	2*190	400	1370	190	0.5	60	—	2*1.4	1.4
DJ-8/40	8000	9	≥-25	40	2*4800	9	19	38	2*250	450	1350	800	1.5	73	—	5*1.5	1.5
DJ-11/55	11000	9	≥-25	55	2*4500	9	19	38	2*250	450	1380	250	0.55	62	—	2*1.4	1.4
DJ-14/70	14000	9	≥-25	70	2*4500	9	19	38	3*250	450	1380	250	0.55	62	—	5*2.1	2.1
DJ-17/85	17000	9	≥-25	85	3*4500	9	19	38	3*250	450	1380	250	0.55	62	—	5*2.4	2.4
DJ-20/100	20000	9	≥-25	100	3*4500	9	25	50	4*250	450	1380	250	0.55	62	—	5*3	3
DJ-23/115	23000	9	≥-25	115	4*4500	9	25	50	4*250	450	1380	250	0.55	62	—	5*3.2	3.2
DJ-28/140	28000	9	≥-25	140	2*9500	12	25	50	2*800	600	1350	800	1.5	73	—	8*2.7	2.7
DJ-34/170	34000	9	≥-25	170	3*9500	12	25	50	3*800	600	1350	800	1.5	73	—	8*3.3	3.3
DJ-42/210	42000	9	≥-25	210	3*9500	12	25	50	3*800	600	1350	800	1.5	73	—	8*3.5	3.5

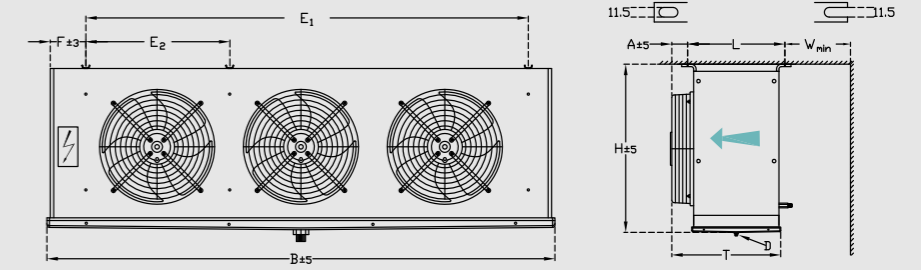
- ◆ DL Type For Cold Storage Temp=0°C ,To=-7°C ,Fin Space=4.5Mm
- ◆ DD Type For Cold Storage Temp=-18°C ,To=-7°C ,Fin Space=6.0Mm
- ◆ DJ Type For Cold Storage Temp=-25°C ,To=-7°C ,Fin Space=9.0Mm



# Cold Storage For Fruits Vegetable



## Engineering Installation Data



Model	Dimensions									Weights (net) kg	Weights (gross) kg	Drain D
	H	B	T	L	E <sub>1</sub>	E <sub>2</sub>	F	A	W			
	mm	mm	mm	mm	mm	mm	mm	mm	mm			kg
DL-2.1/10	440	720	310	260	530	/	85	90	300	21	26	3/4"
DL-3.1/15	440	970	310	260	780	/	85	90	300	28	33	3/4"
DL-4.1/20	440	1120	310	260	1080	/	85	90	300	43	48	3/4"
DL-5.2/25	440	1120	380	330	1080	/	85	90	300	48	53	3/4"
DL-8.1/40	560	1520	420	370	1250	/	95	90	300	60	65	3/4"
DL-11.5/55	560	1520	420	370	1250	/	95	90	300	80	85	3/4"
DL-16.7/80	660	1820	480	440	1550	/	95	90	300	142	147	1"
DL-22/105	660	1820	480	440	1550	/	95	90	300	162	167	1"
DL-25.8/125	660	2300	480	440	2030	660	95	90	300	205	210	1"
DL-33.6/160	660	2720	480	440	2450	800	95	90	300	235	240	1"
DL-38.7/185	660	3120	480	440	2850	1400	95	90	400	265	270	1"
DL-44/210	660	3520	480	440	3250	1600	95	90	400	285	290	1"
DL-52.9/260	860	2220	730	650	1950	/	95	90	300	315	320	2"
DL-67/330	860	2720	730	650	2450	800	95	90	300	355	360	2"
DL-85.6/450	860	3200	1000	650	2930	960	95	90	300	395	400	2"
DD-1.4/7	440	720	310	260	530	/	85	90	300	21	26	3/4"
DD-2.4/12	440	970	310	260	780	/	85	90	300	28	33	3/4"
DD-3/15	440	1120	310	260	1080	/	85	90	300	43	48	3/4"
DD-4.4/22	440	1120	380	330	1080	/	85	90	300	48	53	3/4"
DD-6/30	560	1520	420	370	1250	/	95	90	300	60	65	3/4"
DD-8/40	560	1520	420	370	1250	/	95	90	300	80	85	3/4"
DD-12/60	660	1820	480	440	1550	/	95	90	300	142	147	1"
DD-16/80	660	1820	480	440	1550	/	95	90	300	162	167	1"
DD-20/100	660	2300	480	440	2030	660	95	90	300	205	210	1"
DD-24/120	660	2720	480	440	2450	800	95	90	300	235	240	1"
DD-28.2/140	660	3120	480	440	2850	1400	95	90	400	265	270	1"
DD-32/160	660	3520	480	440	3250	1600	95	90	400	285	290	1"
DD-40/200	860	2220	730	650	1950	/	95	90	300	315	320	2"
DD-50/250	860	2720	730	650	2450	800	95	90	300	355	360	2"
DD-60/310	860	3200	1000	650	2930	960	95	90	300	395	400	2"
DJ-0.8/5	440	720	310	260	530	/	85	90	300	21	26	3/4"
DJ-1.3/8	440	970	310	260	780	/	85	90	300	28	33	3/4"
DJ-1.8/10	440	1120	310	260	1080	/	85	90	300	43	48	3/4"
DJ-2.1/15	440	1120	380	330	1080	/	85	90	300	48	53	3/4"
DJ-4/20	560	1520	420	370	1250	/	95	90	300	60	65	3/4"
DJ-6/30	560	1520	420	370	1250	/	95	90	300	80	85	3/4"
DJ-8/40	660	1820	480	440	1550	/	95	90	300	142	147	1"
DJ-11/55	660	1820	480	440	1550	/	95	90	300	162	167	1"
DJ-14/70	660	2300	480	440	2030	660	95	90	300	205	210	1"
DJ-17/85	660	2720	480	440	2450	800	95	90	300	235	240	1"
DJ-20/100	660	3120	480	440	2850	1400	95	90	400	265	270	1"
DJ-23/115	660	3520	480	440	3250	1600	95	90	400	285	290	1"
DJ-28/140	860	2220	730	650	1950	/	95	90	300	315	320	2"
DJ-34/170	860	2720	730	650	2450	800	95	90	300	355	360	2"
DJ-42/210	860	3200	1000	650	2930	960	95	90	300	395	400	2"

# D Type Air Cooler With Water Defrosting

D L -1.4 /7

- D Type Air Cooler
- "L" — Fresh Products Preservation
- "D" — Frozen Product Preservation
- "J" — Fast Freezing Product
- Cooling Area
- Rated Cooling Capacity



## Products Features

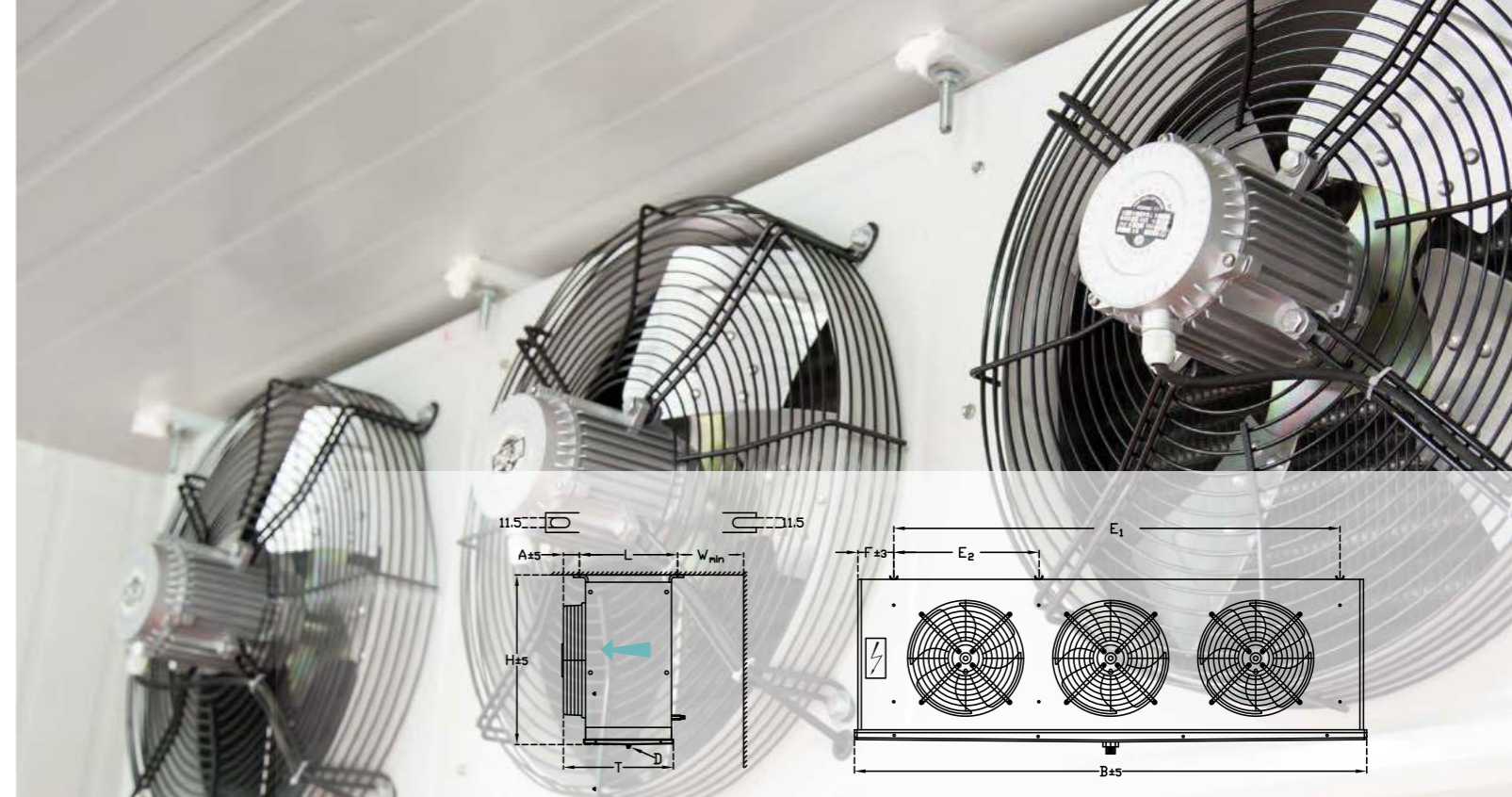
- Using the special integral casing iron alloy with high rigidity and resistance and anticorrosion
- the casing adopted rolled aluminum plate and paint epoxy plastic anti-erode ,nice shape
- special coil design ,high efficient heat exchange
- Maximum heat transfer with compact demensions

## Application

- D Serial Air Cooler Apply To All Ranges Of Cold Storage For The Preservation Of Fresh Or Freezer Products、 Food Processing 、 Biological Medicine Store、 Dairy Products Processing、 Edible Fungus Breeding Center .
- Application Temperature Range Is From 10°C To -25°C With Special Requirement

## Technical Parameters

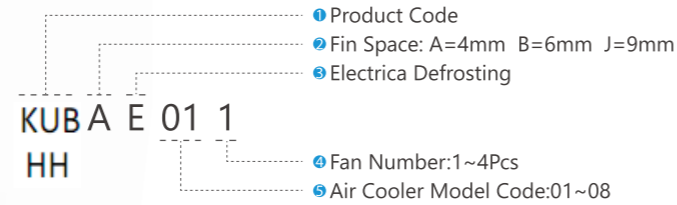
Model	Rating Q0 at	Application Temp		Cooling Surface	Air flow	Air throw	Connection		External Axial Fan				Noise	Tube volume	Water Defrost	
	50 Hz.R404A						Fin space	Inlet	Outlet	Power	Diameter					Per Fan
	SC2	W	mm								°C	m <sup>2</sup>	m <sup>3</sup> /h	m		ø(mm)
DL-16.7/80	16700	4.5	≥0	80	2×6500	15	19	38	2×420	500	1350	420	0.95	69	—	1.8
DL-22/105	22000	4.5	≥0	105	2×6500	15	19	38	2×420	500	1350	420	0.95	69	—	2.4
DL-25.8/125	25800	4.5	≥0	125	3×6500	15	19	38	3×420	500	1350	420	0.95	69	—	3
DL-33.6/160	33000	4.5	≥0	160	3×6500	15	19	38	3×420	500	1350	420	0.95	69	—	3.6
DL-38.7/185	38700	4.5	≥0	185	4×6500	15	25	50	4×420	500	1350	420	0.95	69	—	4.2
DL-44/210	44000	4.5	≥0	210	4×6500	15	25	50	4×420	500	1350	420	0.95	69	—	4.8
DL-52.9/260	52900	4.5	≥0	260	2×9500	17	25	50	2×800	600	1350	800	1.5	73	—	6
DL-67/330	67200	4.5	≥0	330	3×9500	17	25	50	3×800	600	1350	800	1.5	73	—	7.5
DL-85.6/450	85600	4.5	≥0	450	3×9500	17	25	50	3×800	600	1350	800	1.5	73	—	9
DL-99.5/480	99500	4.5	≥0	480	4×9500	17	25	50	4×800	600	1350	800	1.5	73	—	12
DD-12/60	12000	6	≥-18	60	2×6500	15	19	38	2×420	500	1350	420	0.95	69	—	1.8
DD-16/80	16000	6	≥-18	80	2×6500	15	19	38	2×420	500	1350	420	0.95	69	—	2.4
DD-20/100	20000	6	≥-18	100	3×6500	15	19	38	3×420	500	1350	420	0.95	69	—	3
DD-24/120	24000	6	≥-18	120	3×6500	15	19	38	3×420	500	1350	420	0.95	69	—	3.6
DD-28.2/140	28200	6	≥-18	140	4×6500	15	25	50	4×420	500	1350	420	0.95	69	—	4.2
DD-32/160	32000	6	≥-18	160	4×6000	15	25	50	4×420	500	1350	420	0.95	69	—	4.8
DD-40/200	40000	6	≥-18	200	2×9500	17	25	50	2×800	600	1350	800	1.5	73	—	6
DD-50/250	50000	6	≥-18	250	3×9500	17	25	50	3×800	600	1350	800	1.5	73	—	7.5
DD-60/300	60000	6	≥-18	300	3×9500	17	25	50	3×800	600	1350	800	1.5	73	—	9
DD-72/350	72000	6	≥-18	360	4×9500	17	25	50	4×800	600	1350	800	1.5	73	—	12
DJ-8/40	8000	9	≥-25	40	2×6500	15	19	38	2×420	500	1350	420	0.95	69	—	1.8
DJ-11/55	11000	9	≥-25	55	2×6500	15	19	38	2×420	500	1350	420	0.95	69	—	2.4
DJ-14/70	14000	9	≥-25	70	2×6500	15	19	38	3×420	500	1350	420	0.95	69	—	3
DJ-17/85	17000	9	≥-25	85	3×6500	15	19	38	3×420	500	1350	420	0.95	69	—	3.6
DJ-20/100	20000	9	≥-25	100	4×6500	15	25	50	4×420	500	1350	420	0.95	69	—	4.2
DJ-23/115	23000	9	≥-25	115	4×6500	15	25	50	4×420	500	1350	420	0.95	69	—	4.8
DJ-28/140	28000	9	≥-25	140	2×9500	17	25	50	2×800	600	1350	800	1.5	73	—	6
DJ-34/170	34000	9	≥-25	170	3×9500	17	25	50	3×800	600	1350	800	1.5	73	—	7.5
DJ-42/210	42000	9	≥-25	210	3×9500	17	25	50	3×800	600	1350	800	1.5	73	—	9
DJ-48/240	48000	9	≥-25	240	4×9500	17	25	50	4×800	600	1350	800	1.5	73	—	12



## Engineering Installation Data

Model	Dimensions									Weights (net)	Weights (gross)	Drain D
	H	B	T	L	E <sub>1</sub>	E <sub>2</sub>	F	A	W			
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	inch
DL-16.7/80	760	1820	580	490	1550	/	95	90	300	162	167	2.5"
DL-22/105	760	1820	580	490	1550	/	95	90	300	182	187	2.5"
DL-25.8/125	760	2300	580	490	2030	660	95	90	300	225	230	2.5"
DL-33.6/160	760	2720	580	490	2450	800	95	90	300	255	260	2.5"
DL-38.7/185	760	3120	580	490	2850	1400	95	90	400	285	290	3"
DL-44/210	760	3520	580	490	3250	1600	95	90	400	305	310	3"
DL-52.9/260	960	2200	950	660	1950	/	95	90	300	335	340	3"
DL-67/330	960	2720	950	660	2450	800	95	90	300	375	380	3"
DL-85.6/450	960	3200	950	660	2930	960	95	90	300	425	430	3"
DL-99.5/480	1060	3320	950	660	3050	1500	95	90	400	475	480	3"
DD-12/60	760	1820	580	490	1550	/	95	90	300	162	167	2.5"
DD-16/80	760	1820	580	490	1550	/	95	90	300	182	187	2.5"
DD-20/100	760	2300	580	490	2030	660	95	90	300	225	230	2.5"
DD-24/120	760	2720	580	490	2450	800	95	90	300	255	260	2.5"
DD-28.2/140	760	3120	580	490	2850	1400	95	90	400	285	290	3"
DD-32/160	760	3520	580	490	3250	1600	95	90	400	305	310	3"
DD-40/200	960	2200	950	660	1950	/	95	90	300	335	340	3"
DD-50/250	960	2720	950	660	2450	800	95	90	300	375	380	3"
DD-60/300	960	3200	950	660	2930	960	95	90	300	425	430	3"
DD-72/350	1060	3320	950	660	3050	1500	95	90	400	475	480	3"
DJ-8/40	760	1820	580	490	1550	/	95	90	300	162	167	2.5"
DJ-11/15	760	1820	580	490	1550	/	95	90	300	182	187	2.5"
DJ-14/70	760	2300	580	490	2030	660	95	90	300	225	230	2.5"
DJ-17/85	760	2720	580	490	2450	800	95	90	300	255	260	2.5"
DJ-20/100	760	3120	580	490	2850	1400	95	90	400	285	290	3"
DJ-23/115	760	3520	580	490	3250	1600	95	90	400	305	310	3"
DJ-28/140	960	2200	950	660	1950	/	95	90	300	335	340	3"
DJ-34/170	960	2720	950	660	2450	800	95	90	300	375	380	3"
DJ-42/210	960	3200	950	660	2930	960	95	90	300	425	430	3"
DJ-48/240	1060	3320	950	660	3050	1500	95	90	400	475	480	3"

# Unit Cooler With Inner Thread Tube

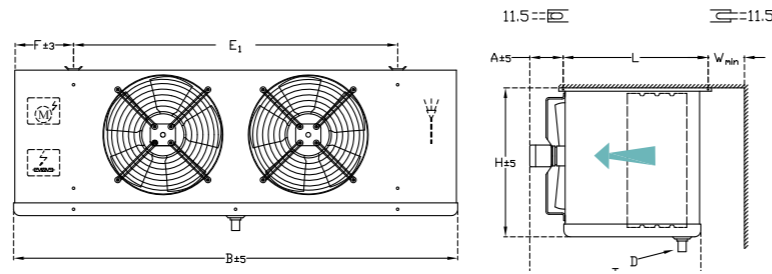


## Application

- ◆ Air Cooler Are Usually Applied To Commercial And Industrial Field, Such As Many Supermarket Working Workshop Of Seafood、Fresh Preservation Of Meat、Vegetable、Seeds Processing Store、Medicine、Edible Fungus Center
- ◆ Application Temperature Range Is From 10°C To -25°C With Special Requirement

## Products Features

- ◆ The Casing Adopted Rolled Aluminum Plate And Paint Epoxy Plastic Anti-Erode, Compact Dimensions ,Nice Appearance
- ◆ The Cover Of Air-Cooler Is Painted With New Technology And Printed Aluminium Panel,Strong Anticorrosion
- ◆ Using The External Fan Motor,Low Noisy And Stabilization
- ◆ Special Coil Design With The High Efficiency Inner Grooved Tubes, Maximum High Efficient Heat Exchange
- ◆ Optimized Tubular Heater Configurations Ensure Fast Defrosting



## Technical Parameters

Model	Rating Q(KW)		Application Temp		Cooling Surface	Air flow	Air throw	Connection		External Axial Fan				Noise	Tube volume	Electric Defrost		
	50/60 Hz.R404A/R507A							Fin space		Inlet	Outlet	Power	No.x Dia			Per Fan		L <sub>WA</sub>
	Te=-8℃	Te=-25℃	mm	℃	m <sup>2</sup>	m <sup>3</sup> /h	m	ø(mm)	ø(mm)					230±10% V-50Hz	ø(mm)	Rpm	W	
	△t=8K	△t=7K																
HH AE021	1.73	1.26	4	≥0	9	1100	4	12	16	220V	1X250	1400	55/57	0.24/0.24	54	1.8	2*440	440
HH AE031	2.41	1.76	4	≥0	12	2050	5	12	19	220V	1X300	1380	90/96	0.43/0.44	59	2.4	3*440	440
HH AE022	3.35	2.44	4	≥0	17	2200	6	12	19	220V	2X250	1400	55/57	0.24/0.24	54	3.2	2*730	730
HH AE032	4.89	3.57	4	≥0	23	4100	7	12	22	220V	2X300	1380	90/96	0.43/0.44	59	4.3	3*730	730
HH AE043	7.41	5.4	4	≥0	35	6150	10	12	22	220V	3X300	1380	90/96	0.43/0.44	59	6.2	3*1030	1030
HH AE044	9.75	7.11	4	≥0	46	8200	11	15	28	220V	4X300	1380	90/96	0.43/0.44	59	8.2	3*1030	1310
HH AE041	4.63	3.33	4	≥0	20	4235	7	12	18	220V	1X400	1400	170/240	0.83/1.05	69	3.5	4*550	550
HH AE051	6.75	4.92	4	≥0	31	5600	9	12	22	380V	1X450	1380	230/310	1.08/1.40	68	5.5	4*730	730
HH AE052	8.97	6.46	4	≥0	40	8470	10	15	22	220V	2X400	1400	170/240	0.83/1.05	69	7.2	4*1030	1030
HH AE053	11.32	8.15	4	≥0	54	12705	11	15	28	220V	3X400	1400	170/240	0.83/1.05	69	9.6	4*1310	1310
HH AE054	18.73	13.49	4	≥0	81	16940	13	15	35	220V	4X400	1400	170/240	0.83/1.05	69	14.4	4*1890	1890
HH AE062	13.5	9.84	4	≥0	61	11200	11	15	28	380V	2X450	1380	230/310	1.08/1.40	68	10.5	4*1310	1310
HH AE063	19	13.9	4	≥0	92	16800	13	15	35	380V	3X450	1380	230/310	1.08/1.40	68	15.5	4*1890	1890
HH BE021	1.46	1.06	6	≥-18	6	1100	4	12	16	220V	1X250	1400	55/57	0.24/0.24	54	1.8	2*440	440
HH BE031	2.03	1.48	6	≥-18	8	2050	5	12	19	220V	1X300	1380	90/96	0.43/0.44	59	2.4	3*440	440
HH BE022	2.81	2.05	6	≥-18	11	2200	6	12	19	220V	2X250	1400	55/57	0.24/0.24	54	3.2	2*730	730
HH BE032	4.11	3	6	≥-18	15	4100	7	12	22	220V	2X300	1380	90/96	0.43/0.44	59	4.3	3*730	730
HH BE043	6.23	4.54	6	≥-18	23	6150	10	12	22	220V	3X300	1380	90/96	0.43/0.44	59	6.2	3*1030	1030
HH BE044	8.19	5.98	6	≥-18	31	8200	11	12	28	220V	4X300	1380	90/96	0.43/0.44	59	8.2	3*1030	1310
HH BE041	3.89	2.8	6	≥-18	13	4235	7	12	18	220V	1X400	1400	170/240	0.83/1.05	69	3.5	4*550	550
HH BE051	5.67	4.13	6	≥-18	20	5600	9	12	22	380V	1X450	1380	230/310	1.08/1.40	68	5.5	4*730	730
HH BE052	7.53	5.43	6	≥-18	27	8470	10	15	22	220V	2X400	1400	170/240	0.83/1.05	69	7.2	4*1030	1030
HH BE053	9.51	6.85	6	≥-18	36	12705	11	15	28	220V	3X400	1400	170/240	0.83/1.05	69	9.6	4*1310	1310
HH BE054	15.73	11.33	6	≥-18	54	16940	13	15	35	220V	4X400	1400	170/240	0.83/1.05	69	14.1	4*1890	1890
HH BE062	11.3	8.27	6	≥-18	41	11200	11	15	28	380V	2X450	1380	230/310	1.08/1.40	68	10.5	4*1310	1310
HH BE063	16	11.7	6	≥-18	61	16800	13	15	35	380V	3X450	1380	230/310	1.08/1.40	68	15.5	4*1890	1890
HH JE021	1.23	0.9	9	≥-25	4	1100	4	12	15	220V	1X250	1400	55/57	0.24/0.24	54	1.8	2*440	440
HH JE031	1.71	1.25	9	≥-25	6	2050	5	12	19	220V	1X300	1380	90/96	0.43/0.44	59	2.4	3*440	440
HH JE022	2.37	1.73	9	≥-25	8	2200	6	12	19	220V	2X250	1400	55/57	0.24/0.24	54	3.2	2*730	730
HH JE032	3.46	2.53	9	≥-25	10	4100	7	12	22	220V	2X300	1380	90/96	0.43/0.44	59	4.3	3*730	730
HH JE043	5.24	3.82	9	≥-25	16	6150	10	12	22	220V	3X300	1380	90/96	0.43/0.44	59	6.2	3*1030	1030
HH JE044	6.89	5.03	9	≥-25	21	8200	11	15	28	220V	4X300	1380	90/96	0.43/0.44	59	8.2	3*1030	1310
HH JE041	3.27	2.35	9	≥-25	9	4235	7	12	18	220V	1X400	1400	170/240	0.83/1.05	69	3.5	4*550	550
HH JE051	4.77	3.48	9	≥-25	25	5600	9	12	22	380V	1X450	1380	230/310	1.08/1.40	68	5.5	4*730	730
HH JE052	6.33	4.56	9	≥-25	18	8470	10	15	22	220V	2X400	1400	170/240	0.83/1.05	69	7.2	4*1030	1030
HH JE053	7.99	5.75	9	≥-25	24	12705	11	15	28	220V	3X400	1400	170/240	0.83/1.05	69	9.6	4*1310	1310
HH JE054	13.22	9.52	9	≥-25	36	16940	13	15	35	220V	4X400	1400	170/240	0.83/1.05	69	14.4	4*1890	1890
HH JE062	9.5	6.95	9	≥-25	28	11200	11	15	28	380V	2X450	1380	230/310	1.08/1.40	68	10.5	4*1310	1310
HH JE063	13.45	9.84	9	≥-25	41	16800	13	15	35	380V	3X450	1380	230/310	1.08/1.40	68	15.5	4*1890	1890







## Engineering Installation Data

Model	Dimensions									Fin spacing	Weights (net)	Weights (gross)	Drain
	H	B	T	L	E <sub>1</sub>	E <sub>2</sub>	F	A	W				
	mm	mm	mm	mm	mm	mm	mm	mm	mm				mm
HH AE021	350	702	430	375	80	/	138	10	300	4	14	19	3/4"
HH AE031	460	702	430	375	80	/	138	10	300	4	19	24	3/4"
HH AE022	350	1094	430	375	160	/	138	10	300	4	25	30	3/4"
HH AE032	460	1094	430	375	160	/	138	10	300	4	32	37	3/4"
HH AE043	460	1486	430	375	240	80	138	10	300	4	46	51	3/4"
HH AE044	460	1878	430	375	320	160	138	10	400	4	60	65	3/4"
HH AE041	530	884	460	375	80	/	138	10	300	4	30	35	3/4"
HH AE051	600	1094	460	375	80	/	138	10	300	4	41	46	3/4"
HH AE052	530	1486	460	375	160	/	138	10	300	4	57	62	3/4"
HH AE053	530	1878	460	375	240	80	138	10	300	4	73	78	3/4"
HH AE054	530	2662	460	375	320	160	138	10	400	4	109	114	3/4"
HH AE062	600	1878	460	375	160	/	138	10	300	4	82	87	3/4"
HH AE063	600	2662	460	375	240	80	138	10	300	4	122	127	3/4"
HH BE021	350	702	430	375	80	/	138	10	300	6	13	18	3/4"
HH BE031	460	702	430	375	80	/	138	10	300	6	18	23	3/4"
HH BE022	350	1094	430	375	160	/	138	10	300	6	23	28	3/4"
HH BE032	460	1094	430	375	160	/	138	10	300	6	30	35	3/4"
HH BE043	460	1486	430	375	240	80	138	10	300	6	43	48	3/4"
HH BE044	460	1878	430	375	320	160	138	10	400	6	56	61	3/4"
HH BE041	530	884	460	375	80	/	138	10	300	6	28	33	3/4"
HH BE051	600	1094	460	375	80	/	138	10	300	6	38	43	3/4"
HH BE052	530	1486	460	375	160	/	138	10	300	6	53	58	3/4"
HH BE053	530	1878	460	375	240	80	138	10	300	6	68	73	3/4"
HH BE054	530	2662	460	375	320	160	138	10	400	6	103	108	3/4"
HH BE062	600	1878	460	375	160	/	138	10	300	6	75	80	3/4"
HH BE063	600	2662	460	375	240	80	138	10	300	6	115	120	3/4"
HH JE021	350	702	430	375	80	/	138	10	300	9	12	17	3/4"
HH JE031	460	702	430	375	80	/	138	10	300	9	17	22	3/4"
HH JE022	350	1094	430	375	160	/	138	10	300	9	21	26	3/4"
HH JE032	460	1094	430	375	160	/	138	10	300	9	28	33	3/4"
HH JE043	460	1486	430	375	240	80	138	10	300	9	40	45	3/4"
HH JE044	460	1878	430	375	320	160	138	10	400	9	52	57	3/4"
HH JE041	530	884	460	375	80	/	138	10	300	9	26	31	3/4"
HH JE051	600	1094	460	375	80	/	138	10	300	9	35	40	3/4"
HH JE052	530	1486	460	375	160	/	138	10	300	9	49	54	3/4"
HH JE053	530	1878	460	375	240	80	138	10	300	9	63	68	3/4"
HH JE054	530	2662	460	375	320	160	138	10	400	9	97	102	3/4"
HH JE062	600	1878	460	375	160	/	138	10	300	9	68	73	3/4"
HH JE063	600	2662	460	375	240	80	138	10	300	9	108	113	3/4"
HH AE071	620	1434	720	375	80	/	138	10	300	4.5	77	82	1 1/4"
HH AE081	620	1434	720	375	80	/	138	10	300	4.5	94	99	1 1/4"
HH AE072	620	2463	720	375	160	/	138	10	300	4.5	138	143	1 1/4"
HH AE082	620	2463	720	375	160	/	138	10	300	4.5	171	176	1 1/4"
HH AE073	620	3492	720	375	240	80	138	10	300	4.5	201	206	1 1/4"
HH AE083	620	3492	720	375	240	80	138	10	300	4.5	294	299	1 1/4"
HH AE074	620	4522	720	375	320	160	138	10	400	4.5	263	268	1 1/4"
HH AE084	620	4522	720	375	320	160	138	10	400	4.5	395	400	1 1/4"
HH BE071	620	1434	720	375	80	/	138	10	300	7	70	75	1 1/4"
HH BE081	620	1434	720	375	80	/	138	10	300	7	83	88	1 1/4"
HH BE072	620	2463	720	375	160	/	138	10	300	7	124	129	1 1/4"
HH BE082	620	2463	720	375	160	/	138	10	300	7	150	155	1 1/4"
HH BE073	620	3492	720	375	240	80	138	10	300	7	180	185	1 1/4"
HH BE083	620	3492	720	375	240	80	138	10	300	7	218	223	1 1/4"
HH BE074	620	4522	720	375	320	160	138	10	400	7	235	240	1 1/4"
HH BE084	620	4522	720	375	320	160	138	10	400	7	353	358	1 1/4"
HH JE071	620	1434	720	375	80	/	138	10	300	10	67	72	1 1/4"
HH JE081	620	1434	720	375	80	/	138	10	300	10	78	83	1 1/4"
HH JE072	620	2463	720	375	160	/	138	10	300	10	116	121	1 1/4"
HH JE082	620	2463	720	375	160	/	138	10	300	10	139	144	1 1/4"
HH JE073	620	3492	720	375	240	80	138	10	300	10	167	172	1 1/4"
HH JE083	620	3492	720	375	240	80	138	10	300	10	201	206	1 1/4"
HH JE074	620	4522	720	375	320	160	138	10	400	10	217	222	1 1/4"
HH JE084	620	4522	720	375	320	160	138	10	400	10	326	331	1 1/4"

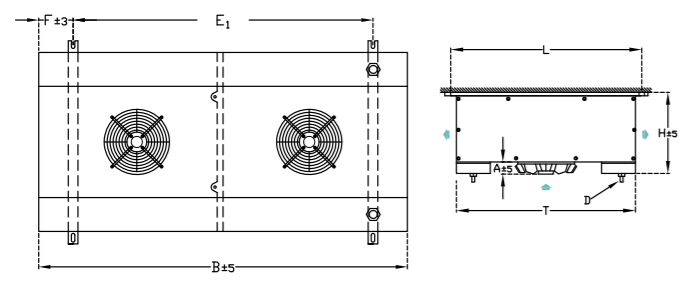
## Technical Parameters

Model	Rating Q(KW)		Application Temp		Cooling Surface	Air flow	Air throw	Connection		External Axial Fan					Noise	Tube volume	Electric Defrost	
	50/60 Hz.R404A/R507A							Fin space		Inlet	Outlet	Power	No.x Dia	Per Fan			L <sub>WA</sub>	coil
	Te=-8℃	Te=-25℃	mm	℃	m <sup>2</sup>	m <sup>3</sup> /h	m	o(mm)	o(mm)					230±10% V-50Hz	o(mm)	Rpm		
	△t=8K	△t=7K																
HH AE071	9.98	7.12	4.5	≥0	53	6400	16	12	28	3~380	1X500	1410	500/790	1.45/1.55	76	9.2	3*1280	2*1280
HH AE081	12.4	9.1	4.5	≥0	79	6500	15	12	28	3~380	1X500	1410	500/790	1.45/1.55	76	12.3	4*1280	4*1280
HH AE072	19.95	14.24	4.5	≥0	106	12800	18	15	42	3~380	2X500	1410	500/790	1.45/1.55	76	18.5	3*2320	3*2320
HH AE082	24.79	18.2	4.5	≥0	159	12400	17	15	42	3~380	2X500	1410	500/790	1.45/1.55	76	26.1	4*2320	4*2320
HH AE073	29.93	21.35	4.5	≥0	159	19200	20	15	54	3~380	3X500	1410	500/790	1.45/1.55	76	27.6	3*3200	3*3200
HH AE083	37.91	27.05	4.5	≥0	239	18600	19	15	54	3~380	3X500	1410	500/790	1.45/1.55	76	39.2	4*3200	4*3200
HH AE074	39.91	28.47	4.5	≥0	218	25600	22	15	54	3~380	4X500	1410	500/790	1.45/1.55	76	36	6*2130	6*2130
HH AE084	50.55	36.07	4.5	≥0	327	24800	21	15	54	3~380	4X500	1410	500/790	1.45/1.55	76	54	7*2130	7*2130
HH BE071	7.9	5.83	7	≥-18	35	6600	17	12	28	3~380	1X500	1410	500/790	1.45/1.55	76	9.2	3*1280	2*1280
HH BE081	10.24	7.68	7	≥-18	52	6400	16	12	28	3~380	1X500	1410	500/790	1.45/1.55	76	12.3	4*1280	2*1280
HH BE072	15.81	11.67	7	≥-18	69	13200	19	15	42	3~380	2X500	1410	500/790	1.45/1.55	76	18.5	3*2320	2*2320
HH BE082	20.48	15.38	7	≥-18	103	12800	18	15	42	3~380	2X500	1410	500/790	1.45/1.55	76	26.1	4*2320	2*2320
HH BE073	23.7	17.5	7	≥-18	103	19800	21	15	54	3~380	3X500	1410	500/790	1.45/1.55	76	27.6	3*3200	2*3200
HH BE083	30.02	22.16	7	≥-18	156	19200	20	15	54	3~380	3X500	1410	500/790	1.45/1.55	76	39.2	4*3200	2*3200
HH BE074	31.61	23.33	7	≥-18	139	26400	23	15	54	3~380	4X500	1410	500/790	1.45/1.55	76	36	6*2130	4*2130
HH BE084	40.04	29.55	7	≥-18	209	25600	22	15	54	3~380	4X500	1410	500/790	1.45/1.55	76	54	7*2130	4*2130
HH JE071	6.35	4.78	10	≥-25	25	6800	18	12	28	3~380	1X500	1410	500/790	1.45/1.55	76	9.2	3*1280	2*1280
HH JE081	8.48	6.46	10	≥-25	37	6600	17	12	28	3~380	1X500	1410	500/790	1.45/1.55	76	12.3	4*1280	2*1280
HH JE072	12.69	9.56	10	≥-25	49	13600	20	15	42	3~380	2X500	1410	500/790	1.45/1.55	76	18.5	3*2320	2*2320
HH JE082	16.95	12.92	10	≥-25	75	13200	19	15	42	3~380	2X500	1410	500/790	1.45/1.55	76	26.1	4*2320	2*2320
HH JE073	19.04	14.34	10	≥-25	75	20400	22	15	54	3~380	3X500	1410	500/790	1.45/1.55	76	27.6	3*3200	2*3200
HH JE083	24.12	18.17	10	≥-25	111	19800	21	15	54	3~380	3X500	1410	500/790	1.45/1.55	76	39.2	4*3200	2*3200
HH JE074	25.39	19.13	10	≥-25	98	27200	24	15	54	3~380	4X500	1410	500/790	1.45/1.55	76	36	6*2130	4*2130
HH JE084	32.17																	

# Celling Dual Discharge Unit Cooler

KUB 035 B/ 4 4 4  
 HH

- Company Code
- Diameter Of Fans
- A: 4Rows, B: 6Rows
- Number Of Motor Poles
- Fin Space
- Quantity Of Fans



## Application

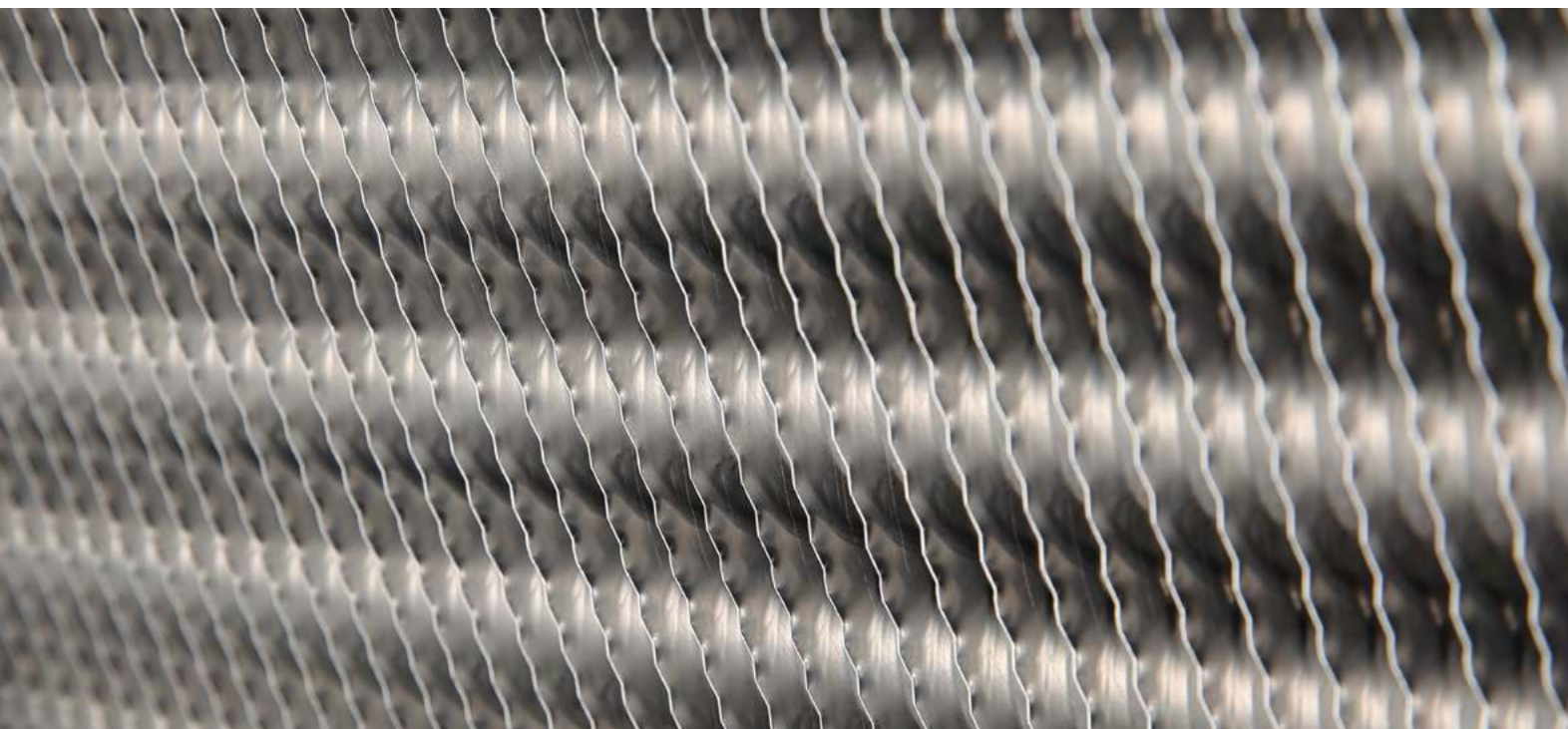
- ◆ Celling Dual Discharge Air Cooler Are Usually Applied To Many Supermarket Workshop Of Seafood And Meat Or Vegetable Processing, Drink , Seeds Processing Etc
- ◆ Application Temperature Range Is From +8°C To +20°C

## Products Features

- ◆ Using The Special Integral Casing Iron Alloy With High Rigidity And Resistance And Anticorrosion
- ◆ Specially Designed For Limited Wind Speed
- ◆ The Casing Adopted Rolled Aluminum Plate And Paint Epoxy Plastic Anti-Erode ,Strong Anticorrosion, High Efficiency
- ◆ Using The External Fan Motor,Low Noisy And Stabilization

## Technical Parameters

Model	Rating Q0	Cooling	Air	Air	Connection		External Axial Fan				Noise	Tube	DEMASION			WEIGHT
	Room 0°C	Surface	flow	throw	Inlet	Outlet	MOTOR		LWA	volume		HXBxT				
	W	m <sup>2</sup>	m <sup>3</sup> /h	m	ømm	ømm	PCS	Rpm	W	A	db(A)	dm3	MM		KG	
HH-035A/144	2.86	13.5	2290	2x6	12	19	1	1300	140	0.38/380V	64	2.3	300	905	660	31
HH-035B/144	3.76	20.2	2290	2x5	16	19	1	1300	140	0.38/380V	64	3.4	300	905	660	35
HH-035A/244	5.74	26.3	4580	2x6	16	28	2	1300	140	0.38/380V	67	4.3	300	1505	1260	56
HH-035B/244	7.58	39.5	4580	2x5	16	28	2	1300	140	0.38/380V	67	6.4	300	1505	1260	67
HH-035A/344	8.64	39.2	6870	2x6	16	28	3	1300	140	0.38/380V	69	6.2	300	2105	1860	81
HH-035B/344	11.4	58.7	6870	2x5	16	28	3	1300	140	0.38/380V	69	9.3	300	2105	1860	91
HH-035A/444	11.49	52	9160	2x6	16	28	4	1300	140	0.38/380V	70	8.2	300	2705	2460	106
HH-035B/444	15.32	78	9160	2x5	16	28	4	1300	140	0.38/380V	70	12.3	300	2705	2460	130





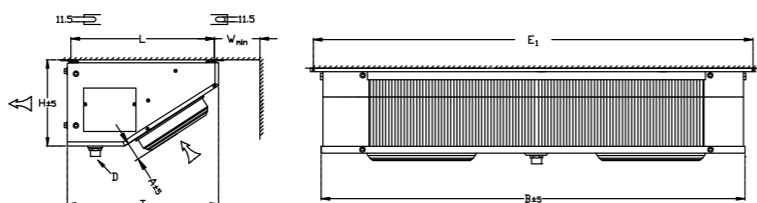
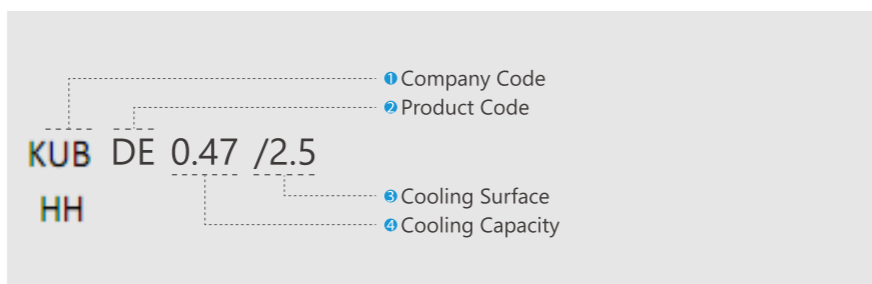
## Cabinets Air Cooler

### Application

- ◆ Ceiling Type Unit Cooler Are Usually Used For Freezing And Refrigeration Cabinets
- ◆ Impact Design For The Medium Or Small Cold Storages
- ◆ Application Temperature Range Is From 0°C To -20°C

### Products Features

- ◆ Smart appearance and light to be taken
- ◆ The casing adopted rolled aluminum plate and high efficient heat exchange
- ◆ Maximum heat transfer with compact dimensions



### Technical Parameters

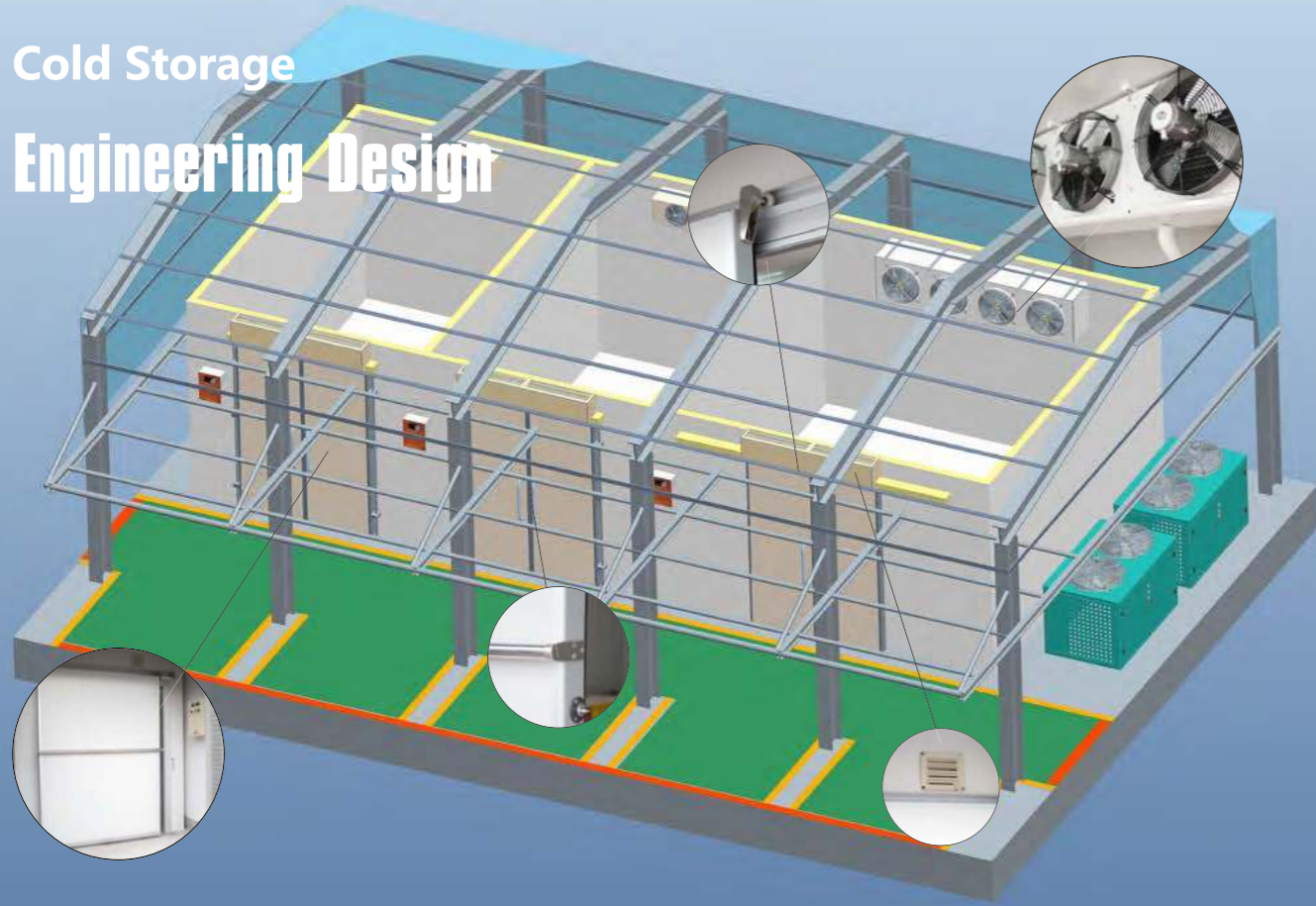
Model	Rating Q		Cooling Surface	Air flow	Air throw	Connection		External Axial Fan					Noise LWA	Tube volume	Electric Defrost coil
	Temp +2°C	Temp -5°C				Inlet	Outlet	Power	Diameter	Rpm	W	A			
	△t=8K	△t=8K	W	m2	m3/h								m	ømm	ømm
	HHDE-0.47/2.5	465	372	2.75	400	4	10	14	230±10%	200	1300	1x29	0.2	53	0.7
HHDE-0.93/5.0	930	744	5.2	800	4	10	14	230±10%	200	1300	2x29	0.2	53	1.3	600
HHDE-1.4/7.5	1395	1116	7.4	1200	4	10	14	230±10%	200	1300	3x29	0.2	53	1.9	900
HHDE-1.9/10.5	1855	1465	10.5	1600	4	10	14	230±10%	200	1300	4x29	0.2	53	2.7	1200

### Engineering Installation Data

Model	volume	Temp of cabinet	matched unit	Power supply	Installation Dimensions						
					B	T	H	A	D	E	F
	m3	°C	HP	V	mm	mm	mm	mm	mm	mm	mm
HHDE-0.47/2.5	0.3-0.4	0~10	1/3	220	380	400	160	475	300	394	50
HHDE-0.93/5.0	0.5	-20	1	220	680	400	160	775	300	694	50
		0~+5	1/2								
		0~20	3/4								
HHDE-1.4/7.5	1	-20	1.5	220	980	400	160	1075	300	994	50
		0~+5	1								
		0	3/4								
HHDE-1.9/10.5	1.5	-20	2	220	1280	400	160	1375	300	1294	50
		0~+5	1.5								
		0	1								



Cold Storage  
Engineering Design



Blast Freezing Storage  
For Meat Seafood



Cold Storage For  
Meat Seafood

