UNIT COOLER

Efficient Unit Cooler produced by Chenguan includes BDF,LZW FD Series, ceiling and floor types to Ammonia and Freon refrigeration system. BDF and LZW series with aluminum pipe and fins are chiefly designed for ammonia system. And FD series with copper fins and aluminum pipe are in the purpose of Freon system.

Chenguang has developed unit coolers successfully, it is the introduction of foreign advanced technology, it has compact body, small size; prelate design, even air supply; complete galvanizing to prevent rust, well heat transfer performance, safe and reliable, long life, low electricity expense, and beautiful appearance, low noise and energy consumption; It is the best alternative of the ordinary, and it is the new type of energy-saving refrigeration products.

Description

APPLICATION
Refrigerants: R717(BDF,LZW series), R22,R404a,R507C(FD series)
Material: aluminum pipes and fins for ammonia, copper pipe and aluminum fins for Freon
Casing: Galvanized plate or stainless steel
Heat transferring area: 20-250m2/set, custom area is available.
Pitch spacing of fins: 4.5mm,6mm,9mm(Freon), 8mm,10mm,12mm(Ammonia)
Temperature range: +5C- -30C.

FEATURES
• Reversible Hinged Drain Pan

• Textured Aluminum Cabinet
• Corrosion-proof face mounted Defrost Heater
• Various Options Available for Factory Mounted Accessories, Fin Materials / Spacing and Coil Coating. Consult factory for details.
• Voltages Available for 60Hz or 50Hz
• The highly efficient and compact finned coils of the standard line are composed of aluminum fins with a fin spacing of different size with corrugated surface and straight edges, expanded into copper tubes.

CASING

• The casing is made of white galvanized steel.
• All models of the line are fitted with an intermediate drain pan for collection of condensed water.
• Drain pan enables fitting of electrical defrosting.
• Each removable external drain pan evacuates the water to a collection tray located on the refrigeration connection side from where the water is evacuated via a suitably sized drain tube .
• The drain pans are accessible for all interventions without having to remove the collection tray.
• Removable central panel rendering access to refrigerant and electrical connections fasand easy for servicing or other purposes.

Unit Coolers For Different Applications

BDF Complete Energy-efficient Hot Galvanizing Unit Cooler

● Apply to food processing enterprises, temperature lowering of food processing, picking and packing workshops with large hot load and all kinds of high and low temperature freezer.
● The evaporator is integrally hot galvanized, never rusty with long life.
● With prolate structure, it has even large heat exchanging coefficients and refrigerating output.
● As axial fan of small specification with much volume, it has even blast and quick temperature drop.
● It selects energy-efficient and low-noise axial fan, which saves electricity.
● There are standard pitches of fins is 8, 10 and 12mm and evaporating area of 20～250m2 . Area and structural size of axial fan can be designed for customers.

Technical Data For BDF Series

Data / Model	Evaporating area m^2			Axial-flow Fan					
	8mm Pitch of fins	10mm Pitch of fins	12mm Pitch of fins	Diameter mm	quantity	Air volume m3/h	Static pressure Pa	Power W	Noise dB(A)
BDF41-6	21	18	15	ф400	1	3180	130	200	63

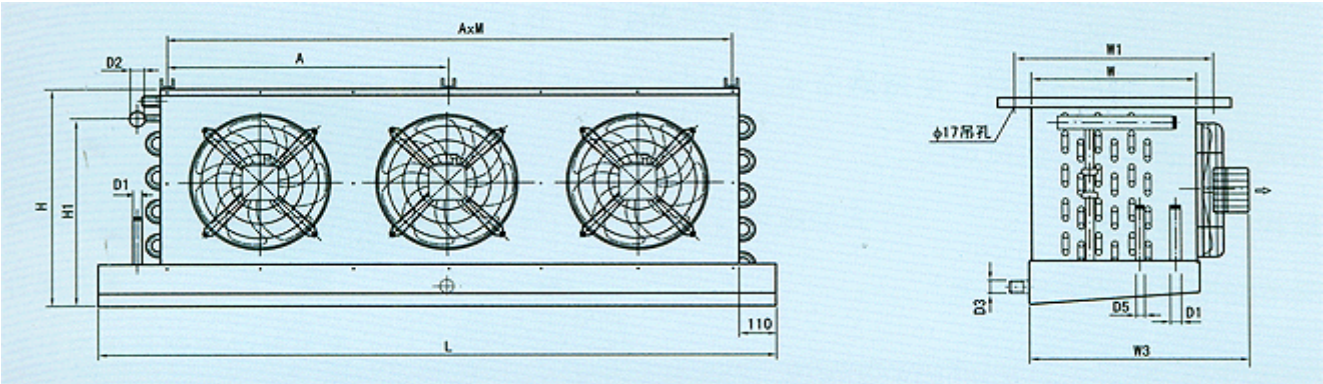
42-6	42	36	29	ф400	2	3180	130	200	64
43-6	65	54	44	ф400	3	3180	130	200	64
44-6	85	72	59	ф400	4	3180	130	200	65
45-6	105	90	73	ф400	5	3180	130	200	65
46-6	128	104	88	ф400	6	3180	130	200	65
BDF51-6	32	27	23	ф450	1	6480	150	300	67
52-6	64	53	45	ф450	2	6480	150	300	68
53-6	96	80	67	ф450	3	6480	150	300	68
54-6	128	106	90	ф450	4	6480	150	300	70
55-6	160	132	112	ф450	5	6480	150	300	72
BDF51-8	43	35	30	ф450	1	6480	150	300	67
52-8	85	70	60	ф450	2	6480	150	300	68
53-8	129	105	90	ф450	3	6480	150	300	68
54-8	172	140	120	ф450	4	6480	150	300	70
55-8	215	175	150	ф450	5	6480	150	300	72

Structure And Size of BDF Hot Galvanizing Unit Coolers (unit:mm)

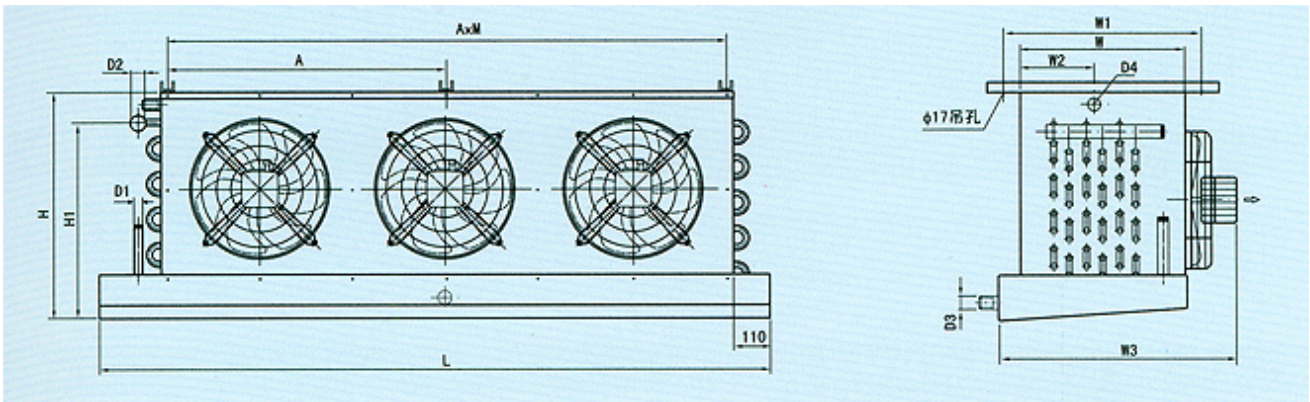
Data / Model	L	A×M	W	W_1	W_2	W_3	H	H_1	Liquid supply D_1	Gas return D_2	Drain D_3	Inlet D_4	Hot ammonia D_5	Weight kg
BDF41-6	970	600×1	500	560	225	670	645 710	590	ф25	ф42	Dg32	Dg25	ф32	180
42-6	1520	1150×1	500	560	225	670	645 710	590	ф25	ф42	Dg32	Dg25	ф32	250
43-6	2070	1700	500	560	225	670	645 710	590	ф32	ф42	Dg32 Dg40	Dg32	ф32	320
44-6	2620	1125×2	500	560	225	670	645 710	590	ф32	ф42	Dg32 Dg40	Dg32	ф32	400
45-6	3170	2800	500	560	225	670	645 710	590	ф32	ф48	Dg40 Dg50	Dg40	ф32	500
46-6	3720	1116×3	500	560	225	670	645 710	590	ф32	ф48	Dg40 Dg50	Dg40	ф32	600
BDF51-6	1110	740×1	500	560	225	700	753 818	698	ф25	ф42	Dg32	Dg25	ф32	220
52-6	1810	1440×1	500	560	225	700	753 818	698	ф25	ф42	Dg32	Dg25	ф32	300
53-6	2510	2140	500	560	225	700	753	698	ф32	ф42	Dg32	Dg32	ф32	400

							818				Dg40			
54-6	3210	1420×2	500	560	225	700	753 818	698	ф32	ф48	Dg32 Dg40	Dg32	ф32	500
55-6	3910	3540	500	560	225	700	753 818	698	ф32	ф48	Dg40 Dg50	Dg40	ф32	650
BDF51-8	1110	740×1	600	660	275	800	753 818	698	ф25	ф42	Dg32	Dg25	ф32	250
52-8	1810	1440×1	600	660	275	800	753 818	698	ф25	ф42	Dg32	Dg25	ф32	350
53-8	2510	2140	600	660	275	800	753 818	698	ф32	ф48	Dg32 Dg40	Dg32	ф32	450
54-8	3210	1420×2	600	660	275	800	753 818	698	ф32	ф48	Dg32 Dg40	Dg32	ф32	550
55-8	3910	3540	600	660	275	800	753 818	698	ф32	ф48	Dg40 Dg50	Dg40	ф32	700

Overall Dimension of Hot-ammonia Defrosting of BDF Unit Cooler



Overall Dimension of Spraying Defrosting of BDF Unit Cooler

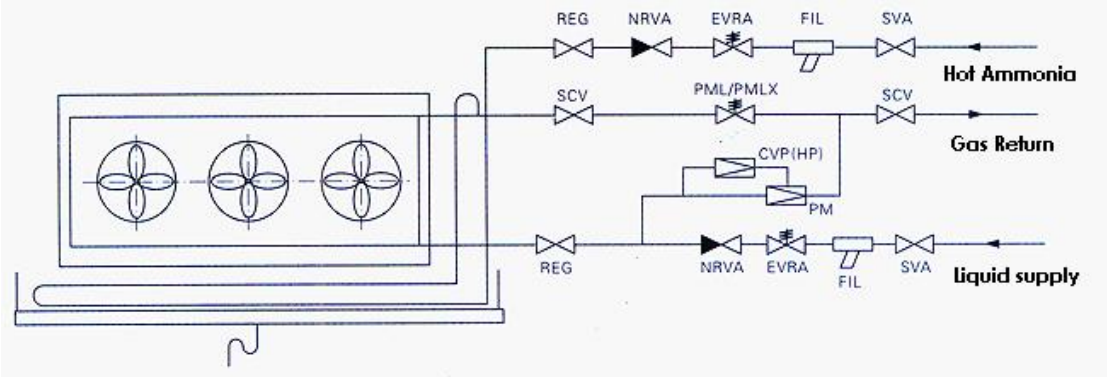


Model Description of BDF Hot Galvanizing Unit Cooler

BDF 4 2 - 6 8 H - R

- Type of air blower
- Diameter of air blower
- Number of air blower
- Number of evaporators through air (6,8pieces)
- Pitch of fins: 8, 10, 12mm
- Defrosting way: H: hot-ammonia defrosting
  - A: auto defrosting by air
  - W: defrosting by water
- Solution feeding position: R (right-side), L (left-side), (opposite to axial air blower, indicating R when solution feeding is on the right)

Hot-Ammonia Defrosting Sketch



BDF (S) Dual Discharge Hot Galvanized Unit Cooler

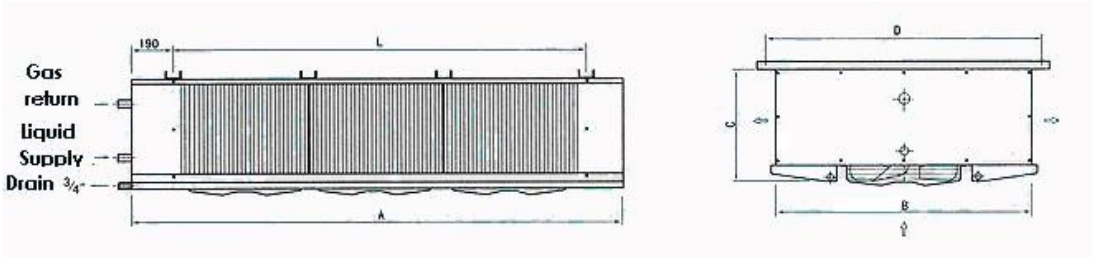
The evaporator is integrally hot galvanized, never rusty with long life
As horizontal bidirectional blast, it has soft and even blast.
With prelate structure and super thin hoist
It selects energy-efficient and low-noise axial fan, which saves electricity.
Suitable for temperature lowering of food processing, picking and packing workshops and freezer

Dimension Datas of BDF(s) Dual Discharge Hot Galvanized Unit Cooler

Model parameter	Cooling area	Axial axial fan					A	B	C	D	L	Liquid supply	Gas return
		Diameter × quantity	Air volume m3/h	Static Pressure Pa	Power Kw	Noise dBA							

BDF(s)401	18	ф400×1	3180×1	130	200×1	58	880	940	390	1050	580	ф32	ф42
402	36	ф400×2	3180×2	130	200×2	58	1420	940	390	1050	1120	ф32	ф42
403	54	ф400×3	3180×3	130	200×3	60	1960	940	390	1050	1660	ф32	ф42
404	72	ф400×4	3180×4	130	200×4	60	2500	940	390	1050	22000	ф32	ф42
405	90	ф400×5	3180×5	130	200×5	62	3040	940	390	1050	2740	ф38	ф48
BDF(s)451	25	ф450×1	4800×1	150	300×1	58	940	990	498	1100	640	ф32	ф42
452	50	ф450×2	4800×2	150	300×2	60	1540	1540	498	1100	1240	ф32	ф42
453	75	ф450×3	4800×3	150	300×3	62	2140	2140	498	1100	1840	ф38	ф48
454	100	ф450×4	4800×4	150	300×4	62	2740	2740	498	1100	2440	ф38	ф48
BDF(s)501	40	ф500×1	5500×1	180	550×1	60	990	990	605	1170	690	ф32	ф42
502	80	ф500×2	5500×2	180	550×2	60	1640	1640	605	1170	1340	ф32	ф42
503	120	ф500×3	5500×3	180	550×3	63	2090	2090	605	1170	1990	ф38	ф48
504	160	ф500×4	5500×4	180	550×4	63	2940	2940	605	1170	2640	ф38	ф48

Overall Dimension of BDF(s) Dual Discharge Hot Galvanized Unit Cooler



Energy-efficient LZW Complete Galvanized Unit Cooler (Hot Ammonia Defrosting)

• It is designed for large and small high and low temperature freezers, freezing and cooling rooms, with blasting range below 30m and unit evaporating area up to 500m².
• It has large heat exchanging coefficients, large refrigerating output, safe use, long life, even blast, quick drop in temperature and energy-saving, being the most ideal substitute for general axial fans.

Technical Parameter Table of LZW Complete Galvanized Unit Cooler

Fins 8 mm

Parameter / Model	Area ($m^{2)}$)	Refrigerating Output Kcal/h	Axial fan				Power of motor (Kw)	Overall dimension (mm)	Weight (ton)
			Diameter (mm)	Quantity (set)	Air volume (m^3/h)	Static pressure (Pa)			

LZW100-68	100	17200	500	2	2×5000	400	1.1×2	1900×720×820	0.5
LZW125-68	125	21000	600	2	2×8000	420	1.5×2	2000×720×960	0.6
LZW150-68	150	25300	600	2	2×8000	420	1.5×2	2300×720×960	0.7
LZW200-88	200	34100	600	2	2×8000	420	1.5×2	2400×840×960	0.9
LZW250-88	250	42600	600	3	3×8000	420	1.5×3	2900×840×960	1.1
LZW300-88	300	50900	600	3	3×8000	420	1.5×3	2900×840×1100	1.3
LZW350-88	350	60100	700	3	3×10000	450	2.2×3	3400×840×1100	1.5
LZW400-88	400	68200	700	3	3×10000	450	2.2×3	3800×840×1100	1.6
LZW450-88	450	77000	700	4	4×10000	450	2.2×4	4200×840×1100	1.75
LZW500-88	500	93900	700	4	4×10000	450	2.2×4	4100×840×1240	1.95

Fins 12 mm

Parameter / Model	Area (m^2)	Refrigerating Output Kcal/h	Axial fan				Power of motor (Kw)	Overall dimension (mm)	Weight (ton)
			Diameter (mm)	Quantity (set)	Air volume (m^3/h)	Static pressure (Pa)			
LZW100-812	100	15400	500	2	2×6500	200	0.75×2	1800×840×960	0.6
LZW125-812	125	19250	600	2	2×10000	220	1.1×2	2200×840×960	0.7
LZW150-812	150	23100	600	2	2×10000	220	1.1×2	2550×840×960	0.8
LZW175-812	175	26950	600	2	2×10000	220	1.1×2	2550×840×1100	0.9
LZW200-812	200	30800	700	2	2×16000	250	1.5×2	2900×840×1100	1.0
LZW250-812	250	38500	600	3	3×10000	220	1.1×3	3400×840×1100	1.25
LZW300-812	300	46200	700	3	3×16000	250	1.5×3	3600×840×1240	1.5
LZW350-812	350	53900	700	3	3×16000	250	1.5×3	4100×840×1240	1.7
LZW400-812	400	61600	700	3	3×16000	250	1.5×3	4600×840×1240	1.85
LZW450-812	450	69300	700	4	4×16000	250	1.5×4	5200×840×1240	2.0

Fins 15mm/12 mm

Parameter / Model	Area (m^2)	Refrigerating Output Kcal/h	Axial fan				Power of motor (Kw)	Overall dimension (mm)	Weight (ton)
			Diameter (mm)	Quantity (set)	Air volume (m^3/h)	Static pressure (Pa)			
LZW100-815	100	14000	700	1	16000	250	1.5	1700×840×1100	0.7
LZW150-815	150	21000	600	2	2×10000	220	1.1×2	2300×840×1100	0.9
LZW200-815	200	28000	700	2	2×16000	250	1.5×2	2600×840×1240	1.1
LZW250-815	250	35000	700	2	2×16000	250	1.5×2	3100×840×1240	1.3
LZW300-815	300	42000	700	3	3×16000	250	1.5×3	3700×840×1240	1.6

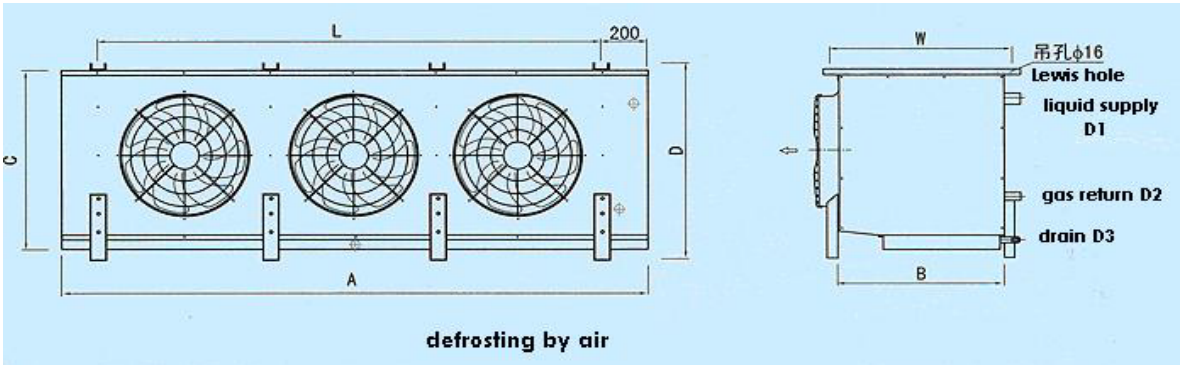
LZW350-815	350	49000	700	3	3×16000	250	1.5×3	4300×840×1240	1.8
LZW400-815	400	56000	700	4	4×16000	250	1.5×4	4900×840×1240	2.0
LZW450-815	450	63000	700	4	4×16000	250	1.5×4	5500×840×1240	2.2

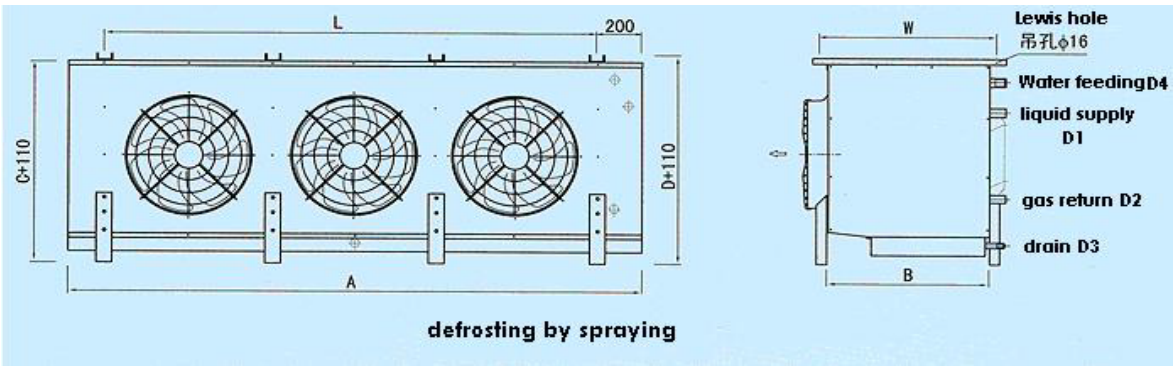
Dimension Datas of LZW Complete Galvanized Unit Cooler

Parameter / Model	A	B	C	D	L	W	Liquicd supply D1	Gas return D2	Drain D3		D4	Hot ammonia D5
									Defrosting by air	Defrosting by water		
LZW100-68	1900	720	820	900	1540	780	Φ38	Φ57	1"	2"	1.5"	Φ25
LZW125-68	2000	720	960	1040	1640	780	Φ38	Φ57	1"	2"	1.5"	Φ25
LZW150-68	2300	720	960	1040	1940	780	Φ38	Φ57	1"	2"	1.5"	Φ32
LZW200-88	2400	840	960	1040	2040	900	Φ38	Φ57	1"	2-1.5"	2"	Φ32
LZW250-88	2900	840	960	1040	2540	900	Φ38	Φ57	1"	2-1.5"	2"	Φ32
LZW300-88	2900	840	1100	1180	2540	900	Φ38	Φ57	1"	2-1.5"	2"	Φ38
LZW350-88	3400	840	1100	1180	3040	900	Φ57	Φ76	1"	2-1.5"	2"	Φ38
LZW400-88	3800	840	1100	1180	3440	900	Φ57	Φ76	1"	2-1.5"	2"	Φ42
LZW450-88	4200	840	1100	1180	3840	900	Φ57	Φ76	1"	2-1.5"	2"	Φ42
LZW500-88	4100	840	1240	1320	3740	900	Φ57	Φ76	1"	2-2"	1.5"	Φ42
LZW100-812	1800	840	960	1040	1440	900	38	57	1"	2"	1.5"	25
LZW125-812	2200	840	960	1040	1840	900	38	57	1"	2"	1.5"	25
LZW150-812	2550	840	960	1040	2190	900	38	57	1"	2"	1.5"	32
LZW175-812	2550	840	1100	1180	2190	900	38	57	1"	2-1.5"	1.5"	32
LZW200-812	2900	840	1100	1180	2540	900	38	57	1"	2-1.5"	2"	32
LZW250-812	3400	840	1100	1180	3040	900	38	57	1"	2-1.5"	2"	38
LZW300-812	3600	840	1240	1320	3240	900	57	76	1"	2-1.5"	2"	38
LZW350-812	4100	840	1240	1320	3740	900	57	76	1"	2-2"	2.5"	42
LZW400-812	4600	840	1240	1320	4240	900	57	76	1"	2-2"	2.5"	42
LZW450-812	5200	840	1240	1320	4840	900	57	76	1"	2-2"	2.5"	42
LZW100-815	1700	840	1100	1180	1340	900	38	57	1"	2"	1.5"	32
LZW150-815	2300	840	1100	1180	1940	900	38	57	1"	2"	1.5"	32
LZW200-815	2600	840	1240	1320	2240	900	38	57	1"	2-1.5"	2"	32
LZW250-815	3100	840	1240	1320	2740	900	38	57	1"	2-1.5"	2"	38
LZW300-815	3700	840	1240	1320	3340	900	57	76	1"	2-1.5"	2"	38
LZW350-815	4300	840	1240	1320	3940	900	57	76	1"	2-2"	2.5"	42
LZW400-815	4900	840	1240	1320	4540	900	57	76	1"	2-2"	2.5"	42

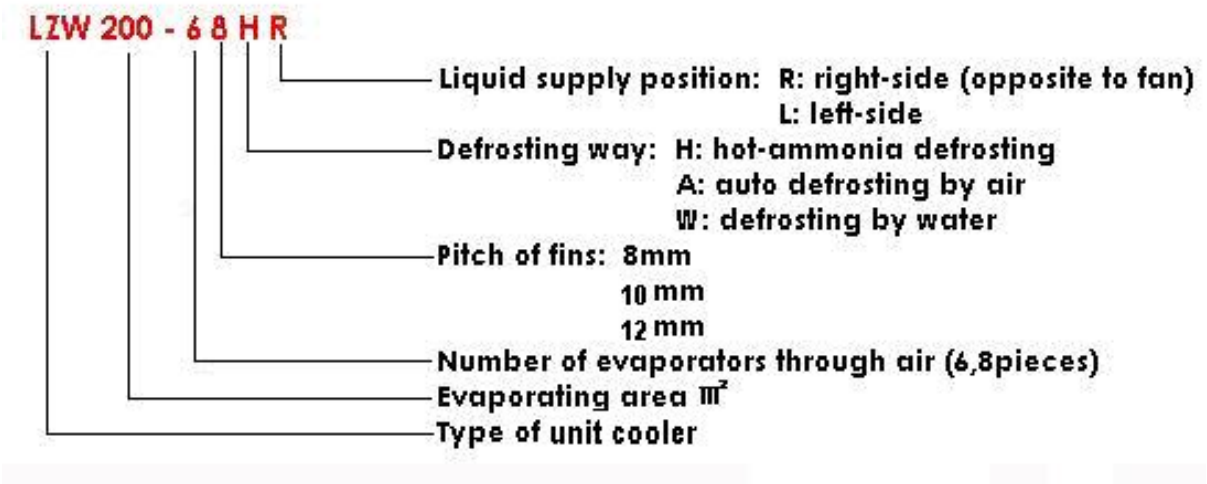
LZW450-815	5500	840	1240	1320	5140	900	57	76	1"	2-2"	2.5"	42

Overall Dimension Sketch of LZW Complete Galvanized Unit Cooler





Model Description of LZW Complete Galvanized Unit Cooler



Hot-Ammonia Defrosting Sketch
(same as BDF complete energy-efficient hot galvanizing unit cooler)

Energy-efficient Cubic Unit Cooler (Air Chiller)

1 Good effect in heat transferring: Adopt the advanced techniques of aluminum coils swelling to fix aluminum big fin tight. For the same material of pipes and fins, it won't be expand in hot and shrink in cold.

2 Perfect airflow: Assorted special axial fan with advanced CAD optimizing could efficiently work in various conditions. It save a lot of energy consumption. Advanced design various fin distance in weather side. Hard for frosting and easy for removing frost. Collector in air entering make perfect airflow.

3 Small volume, light weight, resist corrosion. The new materials of the aluminum alloy and the aluminum fins guarantee the capability of corrosion resistance.
4 Various model of the structure, widely application: The new axial fan is classified many models as top-hoist (GF), floor top blast(LF) ,floor top-side blast(LS) and floor bottom-side blast(LT) etc. It is widely applied in freezing room, cancelation springhouse, cooling springhouse, air condition and matching food monomer freezing equipment in food processing workshop. It is also applied for cooling the concrete of dam.

5 Special structural design: We can design the different models special cooling axial fan according to the different requirement of customers.

(1) Model Instruction
Indicating refrigerant, R is freon, it does not indicate when refrigerant is ammonia
Evaporating area
Specification and model of products

less steel is used on the casing of indoor machine.
Example:
(LT)-400 use button-side blast fans in refrigeration room with evaporative area of 400 ㎡
(LSJ)-400 use floor top-side blast fans in refrigeration room with evaporative area of 400 ㎡
(LFD)-400 use floor TOP blast fans in refrigeration room with evaporating area of 400 ㎡

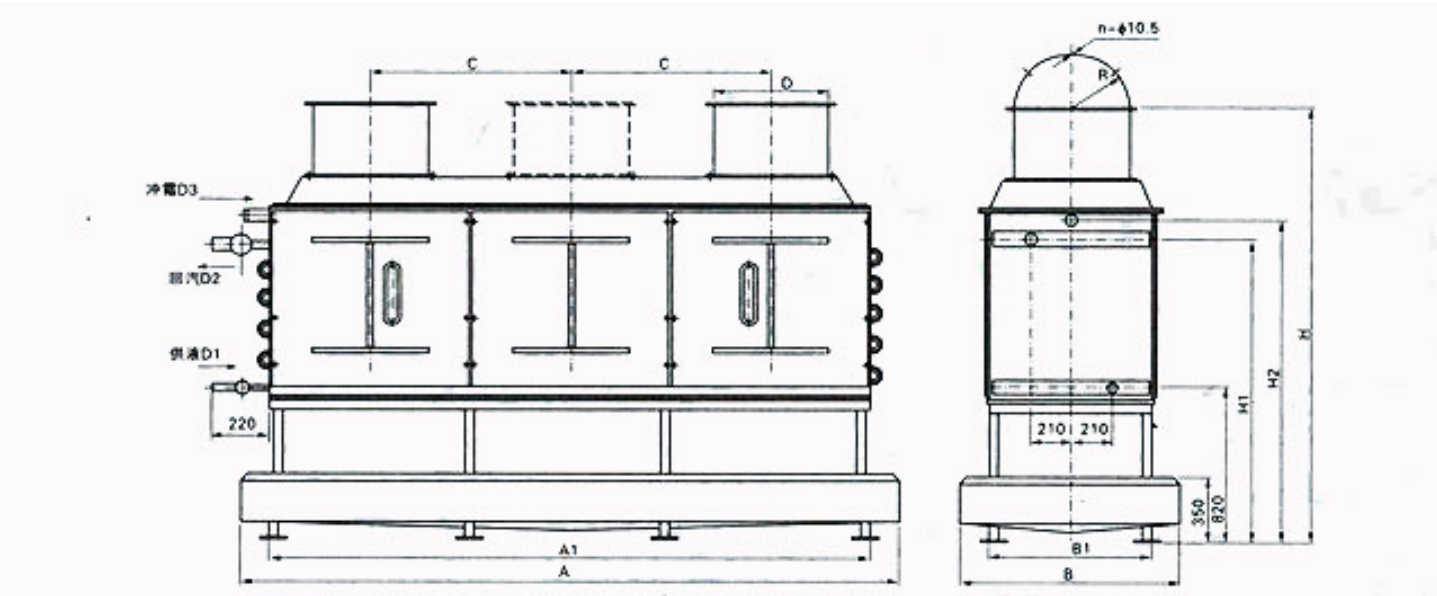
Application	Floor top discharge	Floor dual discharge	Ceiling type	Floor bottom discharge
Freezing room -23℃ - -30℃	LFJ	LSJ	GFJ	LT
Refrigeration room for frozen products -18℃ - -25℃	LFD	LSD	GFD	

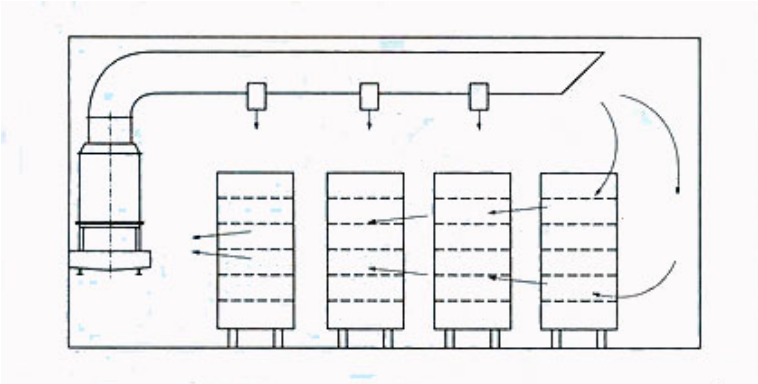
Refrigeration room for cooling products -2℃ – +5℃	LFL	LSL	GFL	

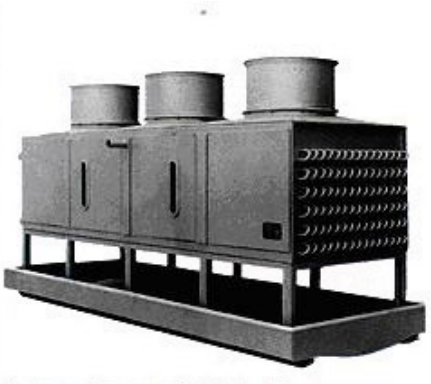
(2) Note

Energy-efficient series of units has 2 ways of liquid supply, lower inlet and upper inlet of refrigerant. “A” means upper inlet and “B” means lower inlet. Users can propose to indicate liquid supply type. L stands for left liquid supply pipe while R stands for right pipe. Refrigerants like R22, R134a and R404A, should use multi-head and multi-route liquid supply.

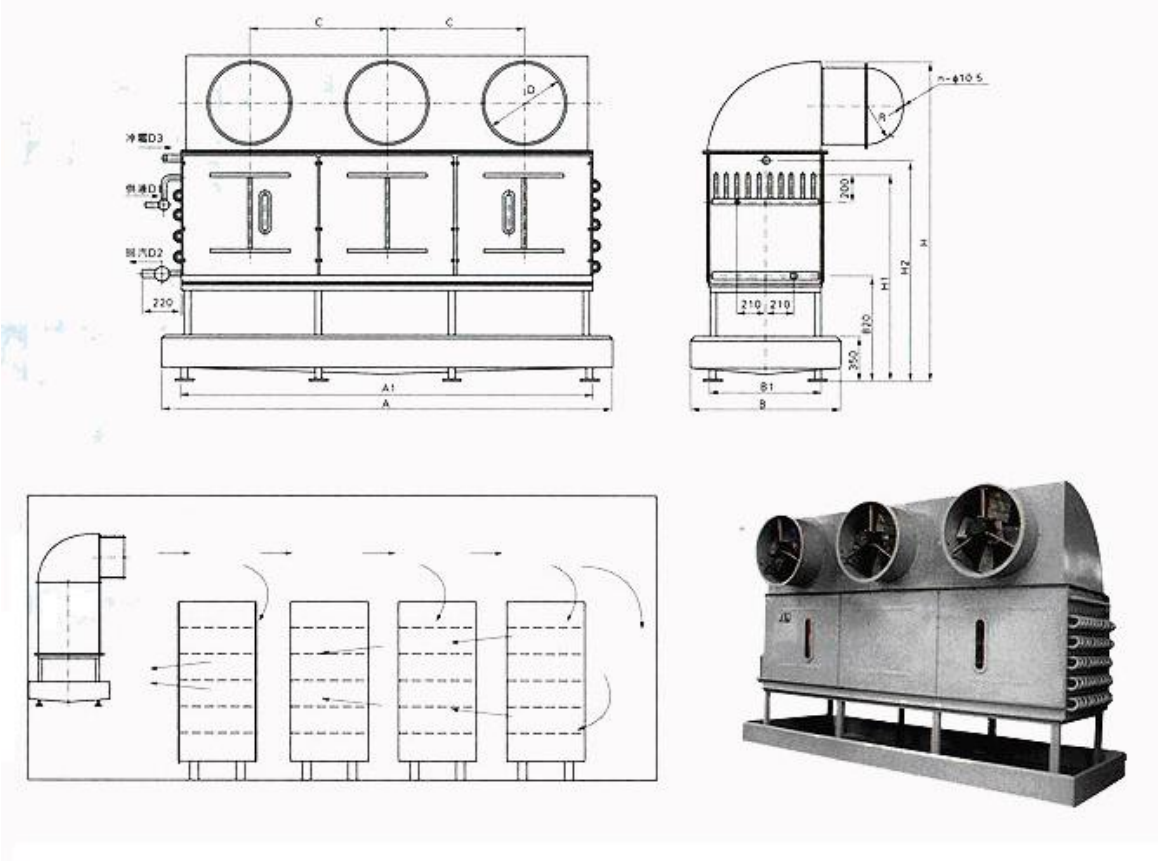
Drawing of LF Series of Floor Top Discharge Unit Cooler



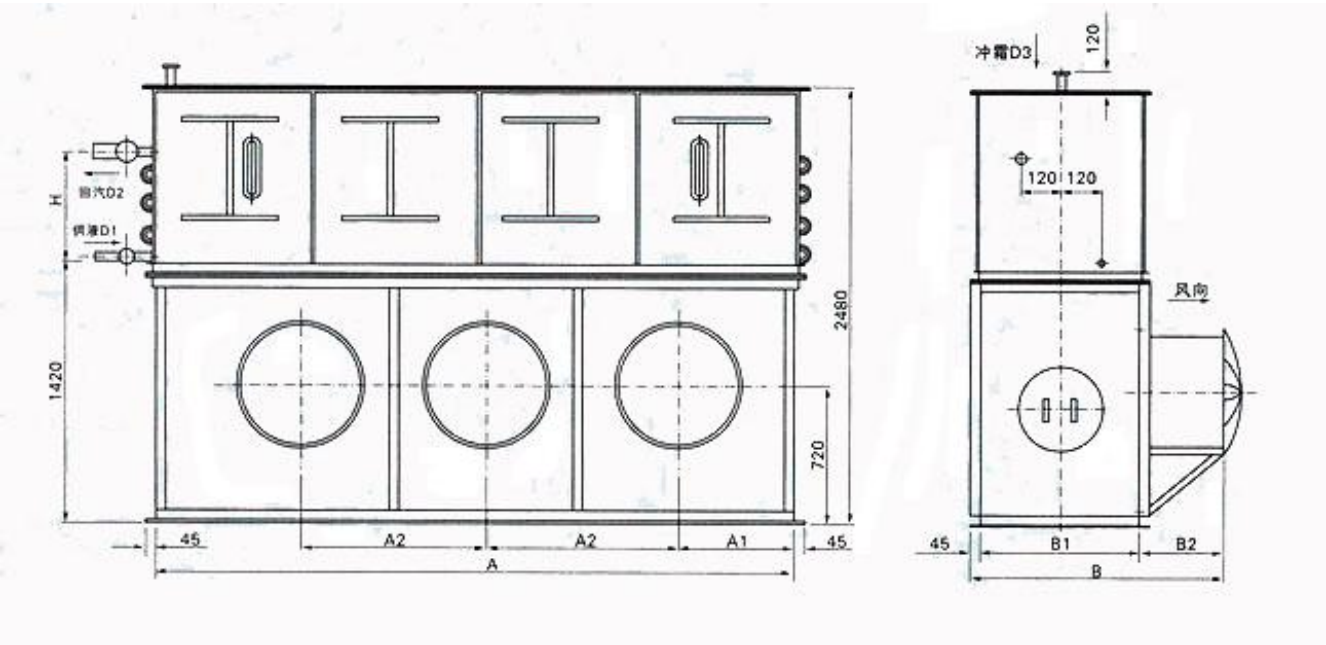




Drawing of LF Series of Floor Top Discharge Unit Cooler



Drawing of LT Series of Floor Bottom Discharge Unit Cooler



Unit Coolers For Freon System

FD Series Freon Unit Cooler

It applies for freon refrigerating system (also suitable for new refrigerants like R404a and R134a) of high-temperature (fresh) storehouse and low-temperature refrigeration storehouse, freezer and temperature lowering of food processing, picking and packing workshops. Copper coils and aluminum fins.

FDL model, pitch of fins of 5mm, suitable temperature of storehouse above -5 ℃.
FDD model, pitch of fins of 8mm, suitable temperature of storehouse of -5℃～- 25℃.
FDJ model, pitch of fins of 10mm, suitable temperature of storehouse below -25℃.

Technical Datasof FDL Freon Unit Cooler

Fins Pitch =4.5mm Apply to fresh-preservation room

Model	Evaporative area (m^2)	Axial Fan				Electric heating power (KW)			G. weight Kg
		Diameter (mm)	Quantity (set)	Air Volume (m3/h)	Static pressure (Pa)	Power (W)	Fins of coil	Water dish	Working voltage
FDL-10	10.1	ф330	1	1800	100	90	1.0	0.65		40
FDL-20	20.5	ф330	2	2×1800	100	2×90	1.8	0.9		60
FDL-30	30.2	ф330	2	2×1800	100	2×90	2.0	0.9	Single phase 220V	65
FDL-35	34.7	ф400	2	2×3180	140	2×200	2.1	1.2		80
FDL-52	52	ф400	2	2×3180	140	2×200	3.6	1.2		85
FDL-60	59.2	ф450	2	2×6000	160	2×300	4.4	1.2		90
FDL-80	79.7	ф400	3	3×3180	140	3×200	4.9	1.4		110
FDL-90	88.6	ф400	3	3×3180	140	3×200	5.6	1.6		130
FDL-115	114.3	ф400	4	4×3180	140	4×200	8.0	1.6		150
FDL-130	128.7	ф400	4	4×3180	140	4×200	10	2.0	Three phase 380V	165
FDL-160	159.1	ф450	4	4×6000	160	4×300	11	2.2		180
FDL-180	178.8	ф450	4	4×6000	160	4×300	12	2.4		205
FDL-220	219.4	ф450	4	4×6000	160	4×300	14	2.8		240
FDL-235	234.6	ф450	4	4×6000	160	4×300	15	3.0		265

Technical Data of FDD Freon Unit Cooler

Fins Pitch=6mm Room temperature inside -5℃—-24℃

Model	Evaporative area (m^2)	Axial Fan				Electric heating power (KW)			Working Voltage	G. weight Kg
		Diameter (mm)	Quantity (set)	Air volume (m^3/h)	Static pressure (Pa)	Power (W)	Fins of coil	Water dish		
FDD-8	7.5	ф330	1	1800	100	90	1.0	0.65	Single phase 220V	35
FDD-15	14.1	ф330	2	2×1800	100	2×90	1.8	0.9		55
FDD-20	19.2	ф330	2	2×1800	100	2×90	2.0	0.9		60
FDD-25	24.3	ф400	2	2×3180	140	2×200	2.4	1.2		75
FDD-35	34.8	ф400	2	2×3180	140	2×200	3.6	1.2		80
FDD-40	39.3	ф450	2	2×6000	140	2×300	4.4	1.2		85
FDD-50	50.6	ф400	3	3×3180	160	3×200	4.9	1.4		105
FDD-60	58.6	ф400	3	3×3180	140	3×200	5.6	1.6		125
FDD-80	79.6	ф400	4	4×3180	140	4×200	8.0	1.6		145
FDD-90	88.8	ф400	4	4×3180	140	4×200	10	2.0		160
FDD-100	98.8	ф450	4	4×6000	160	4×300	11	2.2	Three phase 380V	175
FDD-120	119.6	ф450	4	4×6000	160	4×300	12	2.4		200
FDD-140	139.2	ф450	4	4×6000	160	4×300	14	2.8		135
FDD-150	148.5	ф450	4	4×6000	160	4×300	15	3.0		260

Technical Data of FDJ Freon Unit Cooler

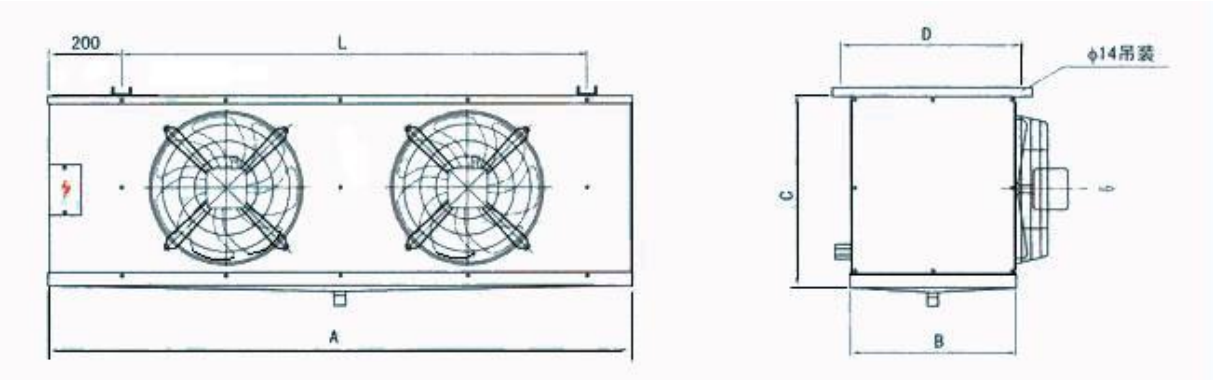
Fins Pitch=9mm Room temperature inside lower than -25℃

Model	Evaporative area (m^2)	Axial Fan				Electric heating power (KW)			Working voltage	G. weight Kg
		Diameter (mm)	Quantity (set)	Air volume (m^3/h)	Static pressure (Pa)	Power (W)	Fins of coil	Water dish		
FDJ-10	10.7	ф330	2	2×1800	100	2×90	1.8	0.9	Single phase 220V	55
FDJ-15	16.07	ф330	2	2×1800	100	2×90	2.0	0.9		60
FDJ-20	19.4	ф400	2	2×3180	140	2×200	2.4	1.2		75
FDJ-30	29.2	ф400	2	2×3180	140	2×200	3.6	1.2		80
FDJ-35	34.1	ф450	2	2×6000	160	2×300	4.4	1.2		85
FDJ-42	41.5	ф400	3	2×3180	140	2×200	4.9	1.4		105
FDJ-45	44.9	ф400	3	3×3180	140	3×200	5.6	1.6		125
FDJ-60	60.3	ф400	4	4×3180	140	4×200	8.0	1.6		145

FDJ-70	68.3	ф400	4	4×3180	140	4×200	10	2.0	Three phase 380V	160
FDJ-85	84.1	ф450	4	4×6000	160	4×300	11	2.2		175
FDJ-100	98.2	ф450	4	4×6000	160	4×300	12	2.4		200
FDJ-120	118.5	ф450	4	4×6000	160	4×300	14	2.8		235
FDJ-125	124.5	ф450	4	4×6000	160	4×300	15	3.0		260

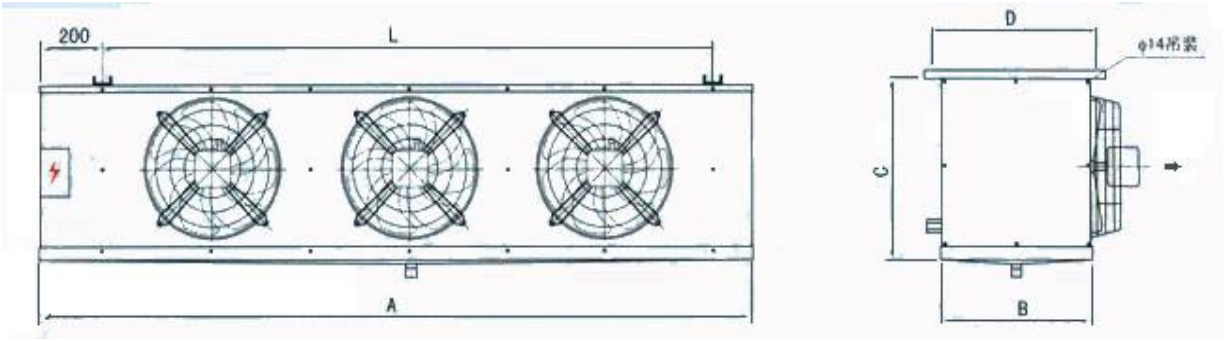
Overall Dimension Sketch and Data of FD Series Freon Unit Cooler

2-Impeller Unit Cooler



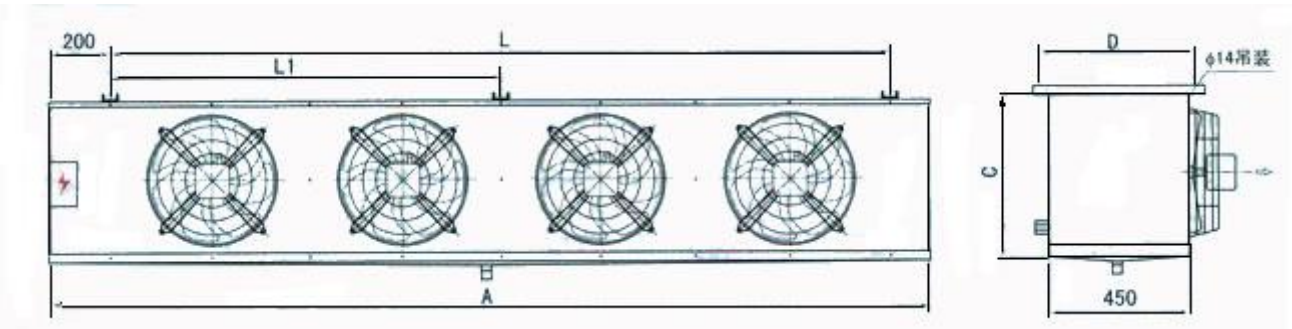
Model/Data	A	L	B	C	D	Liquid supply pipe	Gas return pipe	Drain pipe
FDL-10								
FDD-8	740	440	350	445	400	φ12	φ16	3/4"
FDL-20								
FDD-15	1140	840	350	445	400	φ12	φ16	3/4"
FDJ-10								
FDL-30								
FDD-20	1140	840	400	445	450	φ12	φ16	3/4"
FDJ-15								
FDL-35								
FDD-25	1440	1140	350	540	400	φ12	φ25	3/4"
FDJ-20								
FDL-52								
FDD-35	1440	1140	400	540	450	φ16	φ38	3/4"
FDJ-30								
FDL-60								
FDD-40	1590	1290	400	540	450	φ16	φ38	3/4"
FDJ-35								

3-Impeller Unit Cooler



Model/Data	A	L	B	C	D	Liquid supply pipe	Gas return pipe	Drain pipe
FDL-80								
FDD-50	1990	1690	400	540	450	φ16	φ50	1"
FDJ-42								
FDL-45								
FDD-90	2090	1790	400	540	450	φ16	50φ	1"
FDJ-60								

4-Impeller Unit Cooler



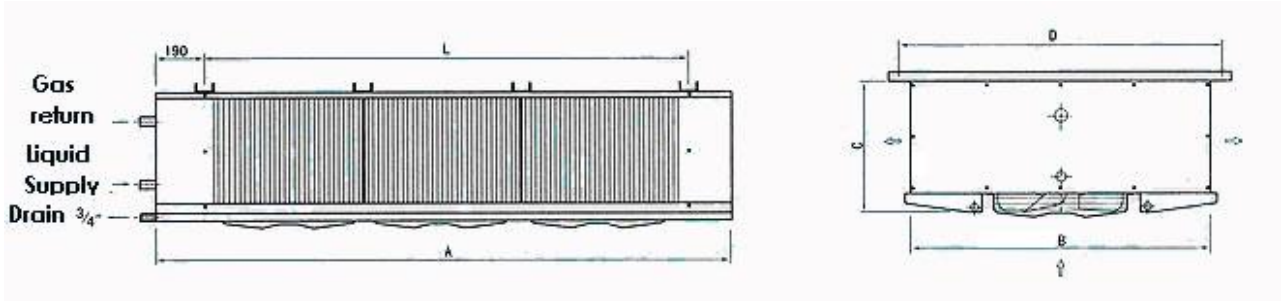
Model/Data	A	L	L_1	C	D	Liquid supply pipe	Gas return pipe	Drain pipe
FDL-115								
FDD-80	2340	2040	1020	635	500	φ16	φ50	1"
FDJ-60								
FDL-130								
FDD-90	2540	2240	1120	635	500	φ16	φ50	1"
FDJ-70								
FDL-160								
FDD-100	2640	2340	11740	730	500	φ19	φ50	1"
FDJ-85								

FDL-180								
FDD-120	2940	2640	1320	730	500	19φ	φ50	1"
FDJ-100								
FDL-220								
FDD-140	3140	2840	1420	825	500	φ19	φ50	1"
FDJ-120								
FDL-235								
FDD-150	3340	3040	1520	825	500	φ19	φ50	1"
FDJ-125								

FDL(S) Freon Dual Discharge Unit Cooler

It is suitable for freon refrigerating system, also be suitable for new refrigerants like R404a and R134a.
As horizontal bidirectional blast, it has soft and even blast.
It selects energy-efficient and low-noise air blower as its disposition, which saves electricity.
The standard pitch of fins is 5mm suitable for high-temperature (fresh) freezer and temperature drop for food processing, picking and packing workshops, and air blower pf lower grades can be designed for customers like 8, 10, 12mm according to customers' needs.

Overall Dimension Sketch and Data of FDL(S) Freon Dual Discharge Unit Cooler



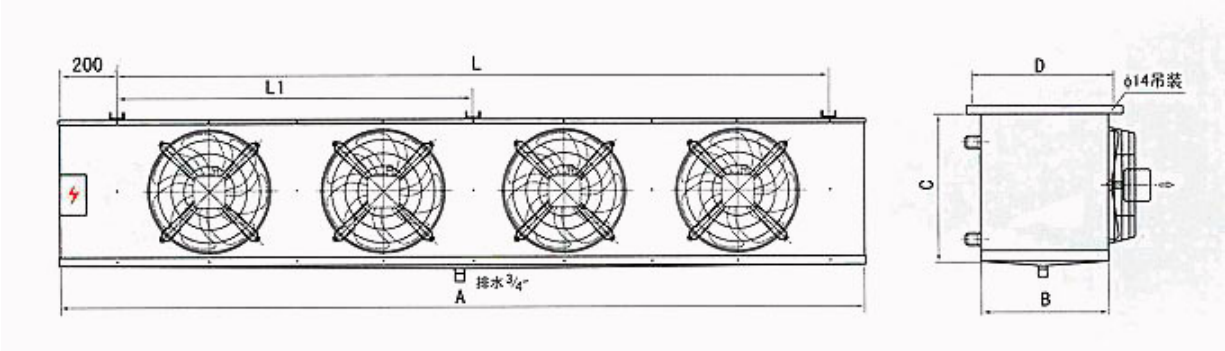
Model/ Data	Cooling area m^2	Specification × quantity	Axial Fan Air Volume m^3/h	Axial Fan Static Pressure Pa	Axial Fan Power Kw	Axial Fan Noise dB	A	B	C	D	L	Liquid supply	Gas return
FDL(s)351	20	φ350×1	2300×1	120	120×1	59	840	880	330	990	540	φ12	φ19
352	40	φ350×2	2300×2	120	120×2	59	1340	880	330	990	1040	φ12	φ25
353	60	φ350×3	2300×3	120	120×3	60	1840	880	330	990	1540	φ16	φ38
354	80	φ350×4	2300×4	120	120×4	61	2340	880	330	990	2040	φ16	φ38

355	100	φ350×5	2300×5	120	120×5	62	2840	880	330	990	2540	φ16	φ50
FDL(s)401	28	φ400×1	3180×1	140	200×1	62	890	930	430	1040	590	φ12	φ25
402	56	φ400×2	3180×2	140	200×2	62	1440	930	430	1040	1140	φ16	φ38
403	84	φ400×3	3180×3	140	200×3	62	1990	930	430	1040	1690	φ16	φ38
404	112	φ400×4	3180×4	140	200×4	63	2540	930	430	1040	2240	φ16	φ50
405	140	φ400×5	3180×5	140	200×5	63	3090	930	430	1040	2790	φ19	φ50
406	168	φ400×6	3180×6	140	200×6	64	3640	930	430	1040	3340	φ19	φ50

BDY Blast Glycol Unit Cooler

It applies to antifreeze cooling system such as glycol and low-temperature salt solution. Pipe-line flow has optimum design with better heat transmission.
With prelate structure, it has even blast and quick temperature drop.
It selects energy-efficient and low-noise air blower as its disposition, which saves electricity.
The standard pitch of fins is 5mm, and non-standard glycol air blower can be designed for customers.

Overall Dimension Sketch and Data of BDY Blast Glycol Unit Cooler



Data / Model	Cooling area (m²)	Refrigeration output (W)	Axia Fan					A	B	C	D	L	L1	Supply and return pipes
			Diameter mm	Air volume (m³/h)	Static pressure (Pa)	Power (W)	Quantity							
BDY301	20	4200	φ330	1700	100	120	1	820	400	430	460	520		DN20
302	40	8400	φ330	1700	100	120	2	1300	400	430	460	1000	980	DN40
303	60	12600	φ330	1700	100	120	3	1780	400	430	460	1480		DN40
304	80	16800	φ330	1700	100	120	4	2260	400	430	460	1960		DN40
BDY351	25	5250	φ350	2300	120	120	1	840	400	520	460	540	520	DN20
352	50	10500	φ350	2300	120	120	2	1340	400	520	460	1040	1020	DN40
353	75	15750	φ350	2300	120	120	3	1840	400	520	460	1540		DN40
354	100	21000	φ350	2300	120	120	4	2340	400	520	460	2040		DN50

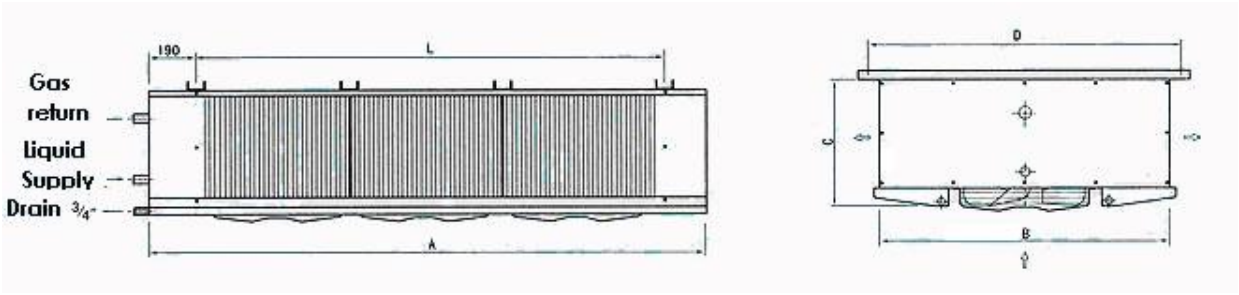
BDY (S) Dual Discharge Glycol Unit Cooler

It applies to antifreeze cooling system such as glycol and low-temperature salt solution. Pipe-line flow has optimum design with better heat transmission.
It has super thin hoist and horizontal bidirectional blast and soft wind speed.

It selects energy-efficient and low-noise air blower as its disposition, which saves electricity.

The standard pitch of fins is 5mm suitable for high-temperature (fresh0 freezer and food processing and picking, and non-standard glycol air blower can be designed for customers.

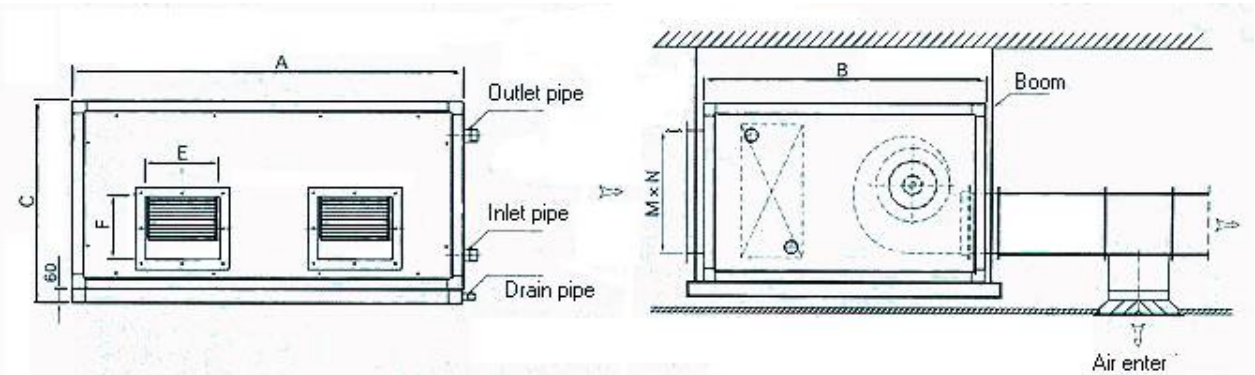
Overall Dimension Sketch and Data of BDY (S) Dual Discharge Glycol Unit Cooler



BDY (B) Ceiling Glycol Hoist Air Conditioner Box

Equipped with cooler designed for glycol (or low-temperature water) with super thick insulation lamination outside and centrifugal energy-saving high-pressure air blower, it has distant blast, large blast volume with fresh breeze.

Overall Dimension Sketch and Data of BDY (B) Ceiling Glycol Hoist Air Conditioner Box



Data / Model	Cooling area (m²)	Refrigeration output (W)	Axia Fan					A	B	C	D	L	L1	Supply and return pipes
			Diameter mm	Air volume (m³/h)	Static pressure (Pa)	Power (W)	Quantity							
BDY(S)351	20	4200	ϕ350	2300	120	120	1	840	880	330	990	540	DN25	
352	40	8400	ϕ350	2300	120	120	2	1340	880	330	990	1040	DN40	
353	60	12600	ϕ350	2300	120	120	3	1840	880	330	990	1540	DN40	
354	80	16800	ϕ350	2300	120	120	4	2340	880	330	990	2040	DN40	
BDY(S)401	28	5880	ϕ400	3180	140	200	1	890	930	430	1040	590	DN32	
402	56	11760	ϕ400	3180	140	200	2	1440	930	430	1040	1140	DN40	
403	84	17640	ϕ400	3180	140	200	3	1990	930	430	1040	1690	DN40	
404	112	23520	ϕ450	3180	140	200	4	2540	930	430	1040	2240	DN50	
BDY(S)451	31	6510	ϕ450	6000	160	300	1	940	980	430	1090	640	DN32	
452	62	13020	ϕ450	6000	160	300	2	1540	980	430	1090	1240	DN40	
453	93	19530	ϕ450	6000	160	300	3	2140	980	430	1090	1840	DN40	
454	124	26040		6000	160	300	4	2740	980	430	1090	2440	DN50	

Technical Changes
The data and illustrations in this catalogue are not binding and only provide an approximate description. We reserve the right to make changesto the product delivered compared with the data and illustrations in this catalogue, e.g. in respect of technical data, design, fittings, material and external appearance.

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