

Electrical Defrost Evaporators

D series evaporator is a kind of cooling equipment suitable for various cold storages , such as quick freezing, fresh keeping and etc. There are three types available: DL, DD and DJ, which fits for the different temperatures. It has compact structure and make full use of warehouse area, which can make the storage food cool rapidly and improve the freshness of storage food.

The features as follows:

- The evaporator with reasonable structure, uniform frosting and high efficiency heat exchange;
- The casing is made of high quality steel with powder coating, SS304 casing also workable;
- The evaporator is assembled with quality fan motor with low noise, big air volume and stable operation;
- With U shaped stainless steel defrost heater put into the coil evenly, make the defrosting time shorter;
- Casing materials is optional;
- The evaporator is tested under air pressure 2.875MPa, guaranteeing the products' high gas tightness.



Tech.data for DL ceiling type high temperature evaporators

Model	Ref. capacity (kW)	Cooling Area (m ²)	Spacing of Fins (mm)	Fan						Defrost heater		
				Qty	Diameter (mm)	Volume (m ³ /h)	Pressure (pa)	Fan motor (n*w)	Power supply	Coil (kW)	Water tray (kW)	Power supply
DL-2.1/10	2.1	10.0	4.5	1	300	1*1850	98	90	220/380v 50hz 1Ph/3Ph	0.5	0.50	220V 50Hz 1Ph
DL-3.1/15	3.1	15.0		2	300	2*1850	98	2*90		0.7	0.70	
DL-4.2/20	4.2	20.0		2	300	2*1850	98	2*90		0.8	0.80	
DL-5.2/25	5.2	25.0		2	350	2*2750	98	2*135		1.0	1.00	
DL-8.2/40	8.2	40.0		2	400	2*3500	118	2*190	380v 50hz 3Ph	2.2	1.10	
DL-11.5/55	11.5	55.0		2	400	2*3500	118	2*190		2.2	1.10	
DL-16.7/80	16.7	80.0		2	500	2*6500	167	2*420		2.7	1.40	
DL-22.0/105	22.0	105.0		2	500	2*6500	167	2*420		4.0	1.40	
DL-25.8/125	25.8	125.0		3	500	3*6500	167	3*420		7.2	1.80	
DL-35.6/160	35.6	160.0		3	500	3*6500	167	3*420		8.8	2.20	
DL-38.7/185	38.7	185.0		4	500	4*6500	167	4*420		10.0	2.50	
DL-44.0/210	44.0	210.0		4	500	4*6500	167	4*420		11.2	2.80	
DL-52.9/260(A)	52.9	260.0		4	500	4*6500	167	4*420		14.4	2.80	
DL-52.9/260(B)	52.9	260.0		2	600	2*10000	200	2*1100		12.6	1.80	
DL-67.2/330(A)	67.2	330.0		4	550	4*7500	180	4*550		16.8	2.80	
DL-67.2/330(B)	67.2	330.0		3	600	3*10000	200	3*1100		15.5	2.20	
DL-83.4/410	83.4	410.0		3	600	3*10000	200	3*1100		18.2	2.60	
DL-86.0/440	86.0	440.0		3	600	3*10000	200	3*1100		19.6	2.80	
DL-91.0/460	91.0	460.0		3	650	3*12000	210	3*2200		23.4	2.60	
DL-97.5/500	97.5	500.0		3	650	3*12000	210	3*2200		25.5	2.80	
DL-105.0/540	105.0	540.0		4	600	4*10000	200	4*1100		24.0	3.40	
DL-111.0/570	111.0	570.0		4	600	4*10000	200	4*1100		25.2	3.60	
DL-117.0/600	117.0	600.0		4	650	4*12000	210	4*2200		30.6	3.40	
DL-125.0/640	125.0	640.0		4	650	4*12000	210	4*2200		32.4	3.60	
DL-129.0/665	129.0	665.0		4	650	4*12000	210	4*2200		33.3	3.70	
DL-133.0/700	133.0	700.0		4	650	4*12000	210	4*2200		28.5	6.30	
DL-140.0/735	140.0	735.0		4	650	4*12000	210	4*2200		30.0	6.60	
DL-147.0/775	147.0	775.0		4	650	4*12000	210	4*2200		31.5	7.00	
DL-152.0/800	152.0	800.0		4	650	4*12000	210	4*2200		32.5	7.20	

Note: The tech. data is based on R22, T(r)=0°C, ΔT=10°C.



Tech.data for DD ceiling type middle temperature evaporators

Model	Ref. capacity (kW)	Cooling Area (m ²)	Spacing of Fins (mm)	Fan						Defrost heater		
				Qty	Diameter (mm)	Volume (m ³ /h)	Pressure (pa)	Fan motor (n*w)	Power supply	Coil (kW)	Water tray (kW)	Power supply
DD-1.4/7	1.40	7	6	1	300	1*1850	98	90	220/380v 50hz 1Ph/3Ph	0.5	0.5	220V 50Hz 1Ph
DD-2.35/12	2.35	12		2	300	2*1850	98	2*90		0.7	0.7	
DD-3.0/15	3.00	15		2	300	2*1850	98	2*90		0.8	0.8	
DD-4.0/22	4.00	22		2	350	2*2750	98	2*135		1.0	1.0	
DD-6.0/30	6.00	30		2	400	2*3500	118	2*190	380v 50hz 3Ph	2.2	1.1	
DD-8.0/40	8.00	40		2	400	2*3500	118	2*190		2.2	1.1	
DD-12.0/60	12.00	60		2	500	2*6500	167	2*420		4.0	1.4	
DD-15.9/80	15.90	80		2	500	2*6500	167	2*420		5.4	1.4	
DD-20.0/100	20.00	100		3	500	3*6500	167	3*420		9.0	1.8	
DD-24.0/120	24.00	120		3	500	3*6500	167	3*420		11.0	2.2	
DD-28.0/140	28.00	140		4	500	4*6500	167	4*420		12.5	2.5	
DD-32.1/160	32.10	160		4	500	4*6500	167	4*420		14.0	2.8	
DD-37.4/200(A)	37.40	200		4	500	4*6500	167	4*420		17.3	2.8	
DD-37.4/200(B)	37.40	200		2	600	2*10000	200	2*1500		14.4	1.8	
DD-46.8/250(A)	46.80	250		4	550	4*7500	180	4*550		19.6	2.5	
DD-46.8/250(B)	46.80	250		3	600	3*10000	200	3*1500		17.3	2.2	
DD-56.2/310	56.20	310		3	600	3*10000	200	3*1500		20.8	2.6	
DD-59.4/330	59.40	330		3	600	3*10000	200	3*1500		22.4	2.8	
DD-64.7/350	64.70	350		3	650	3*12000	210	3*2200		26.0	2.6	
DD-68.4/380	68.40	380		3	650	3*12000	210	3*2200		28.0	2.8	
DD-72.0/400	72.00	400		4	600	4*10000	200	4*1500		27.2	3.4	
DD-76.5/425	76.50	425		4	600	4*10000	200	4*1500		28.8	3.6	
DD-81.0/450	81.00	450		4	650	4*12000	210	4*2200		34.0	3.4	
DD-86.5/480	86.50	480		4	650	4*12000	210	4*2200		36.0	3.6	
DD-90.0/500	90.00	500		4	650	4*12000	210	4*2200		37.5	3.7	
DD-93.0/530	93.00	530		4	650	4*12000	210	4*2200		31.7	6.3	
DD-96.0/550	96.00	550		4	650	4*12000	210	4*2200		33.0	6.6	
DD-101.0/580	101.00	580		4	650	4*12000	210	4*2200		35.0	7.0	
DD-105.0/600	105.00	600		4	650	4*12000	210	4*2200		36.0	7.2	

Note :The tech .data is based on R22,T(r)=-18°C, ΔT=10°C.

Tech.data for DJ ceiling type low temperature evaporators

Model	Ref. capacity (kW)	Cooling Area (m2)	Spacing of Fins (mm)	Fan						Defrost heater		
				Qty	Diameter (mm)	Volume (m3/h)	Pressure (pa)	Fan motor (n*w)	Power supply	Coil (kW)	Water tray (kW)	Power supply
DJ-1.2/7	1.20	7	9	2	300	2*1850	98	2*90	220/380v 50hz 1Ph/3Ph	0.7	0.7	220V 50Hz 1Ph
DJ-1.32/10	1.32	10		2	300	2*1850	98	2*90		0.8	0.8	
DJ-2.3/15	2.30	15		2	350	2*2750	98	2*135		1.0	1.0	
DJ-4.0/20	4.00	20		2	400	2*3500	98	2*190		2.2	1.1	
DJ-5.1/30	5.10	30		2	400	2*3500	118	2*190	380v 50hz 3Ph	2.2	1.1	
DJ-7.8/40	7.80	40		2	500	2*6500	118	2*420		4.0	1.4	
DJ-9.5/55	9.50	55		2	500	2*6500	167	2*420		5.4	1.4	
DJ-12.8/70	12.80	70		3	500	3*6500	167	3*420		9.0	1.8	
DJ-15.7/85	15.70	85		3	500	3*6500	167	3*420		11.0	2.2	
DJ-18.5/100	18.50	100		4	500	4*6500	167	4*420		12.5	2.5	
DJ-21.6/115	21.60	115		4	500	4*6500	167	4*420		14.0	2.8	
DJ-23.8/140(A)	23.80	140		4	500	4*6500	167	4*420		17.3	2.8	
DJ-23.8/140(B)	23.80	140		2	600	2*10000	200	2*2200		14.4	1.8	
DJ-29.0/170(A)	29.00	170		4	550	4*7500	180	4*550		19.6	2.8	
DJ-29.0/170(B)	29.00	170		3	600	3*10000	200	3*2200		17.6	2.2	
DJ-35.9/210	35.90	210		3	600	3*10000	200	3*2200		20.8	2.6	
DJ-38.0/225	38.00	225		3	600	3*10000	200	3*2200		22.4	2.8	
DJ-39.8/235	39.80	235		3	650	3*12000	210	3*2200		26.0	2.6	
DJ-43.2/255	43.20	255		3	650	3*12000	210	3*2200		28.0	2.8	
DJ-47.6/280	47.60	280		4	600	4*10000	200	4*2200		27.2	3.4	
DJ-50.0/295	50.00	295		4	600	4*10000	200	4*2200		28.8	3.6	
DJ-52.7/310	52.70	310		4	650	4*12000	210	4*2200		34.0	3.4	
DJ-56.0/330	56.00	330		4	650	4*12000	210	4*2200		36.0	3.6	
DJ-58.5/345	58.50	345		4	650	4*12000	210	4*2200		37.5	3.7	
DJ-60.0/365	60.00	365		4	650	4*12000	210	4*2200		31.7	6.3	
DJ-63.0/380	63.00	380		4	650	4*12000	210	4*2200		33.0	6.6	
DJ-66.0/400	66.00	400		4	650	4*12000	210	4*2200		35.0	7.0	
DJ-68.0/415	68.00	415		4	650	4*12000	210	4*2200		36.0	7.2	

Note: The tech. data is based on R22, T(r)=-25°C, ΔT=10°C.
If any special application, please contact us.

Working Conditions		
Temp.(cold room)	ΔT	Correction Factors
0°C	8K	0.8
-18°C	7K	0.72
-25°C	6K	0.61



The overall and installation dimension for ceiling type evaporators

Model	A	B	C	D	E	E1	E2	E3	F	Inlet tube (mm)	Back trachea (mm)	Drainpipe (inch)
DL-2.1/10	730	390	460	280	530	/	/	/	85	16	16	G1"
DD-1.4/7												
DL-3.1/15	980	390	460	280	780	/	/	/				
DD-2.35/12												
DJ-1.2/7												
DL-4.2/20	1130	390	460	280	930	/	/	/				
DD-3.0/15												
DJ-1.32/10												
DL-5.2/25	1320	460	460	330	1080	/	/	/	105	16	25	
DD-4.0/22												
DJ-2.3/15												
DL-8.2/40	1520	490	560	360	1230	/	/	/				
DD-6.0/30												
DJ-4.0/20												
DL-11.5/55	1520	490	560	360	1230	/	/	/				
DD-8.0/40												
DJ-5.1/30												
DL-16.7/80	1820	570	660	460	1530	750	/	/		19	35	
DD-12.0/60												
DJ-7.8/40												
DL-22.0/105	1820	570	660	460	1530	750	/	/				
DD-15.9/80												
DJ-9.5/55												
DL-25.8/125	2300	570	660	460	2010	660	660	/			38	
DD-20.0/100												
DJ-12.8/70												
DL-35.6/160	2720	570	660	460	2430	800	800	/				
DD-24.0/120												
DJ-15.7/85												
DL-38.7/185	3120	570	660	460	2830	700	700	700		25	50	G1"1/2
DD-28.0/140												
DJ-18.5/100												
DL-44.0/210	3520	570	660	460	3230	800	800	800				
DD-32.1/160												
DJ-21.6/115												
DL-52.9/260(A)	3520	620	660	510	3230	800	800	800	90			
DD-37.4/200(A)												
DJ-23.8/140(A)												
DL-52.9/260(B)	2220	960	860	580	1950	950	/	/				
DD-37.4/200(B)												
DJ-23.8/140(B)												

The overall and installation dimension for ceiling type evaporators

Model	A	B	C	D	E	E1	E2	E3	F	Inlet tube (mm)	Back trachea (mm)	Drainpipe (inch)
DL-67.2/330(A)	3440	620	860	510	3150	780	780	780	90	25	50	G1*1/2
DD-46.8/250(A)												
DJ-29.0/170(A)												
DL-67.2/330(B)	2720	960	860	580	2450	800	800	/				
DD-46.8/250(B)												
DJ-29.0/170(B)												
DL-83.4/410	3200	960	860	580	2930	960	960	/				
DD-56.2/310												
DJ-35.9/210												
DL-86.0/440	3410	1050	910	640	3140	1030	1030	/				
DD-59.4/330												
DJ-38.0/225												
DL-91.0/460	3200	1050	1010	640	2930	960	960	/				
DD-64.7/350												
DJ-39.8/235												
DL-97.5/500	3470	1050	1010	640	3200	1050	1050	/				
DD-68.4/380												
DJ-43.2/255												
DL-105.0/540	4120	1050	910	640	3850	950	950	950				
DD-72.0/400												
DJ-47.6/280												
DL-111.0/570	4320	1050	910	640	4050	1000	1000	1000				
DD-76.5/425												
DJ-50.0/295												
DL-117.0/600	4120	1050	1010	640	3850	950	950	950				
DD-81.0/450												
DJ-52.7/310												
DL-125.0/640	4320	1050	1010	640	4050	1000	1000	1000				
DD-86.5/480												
DJ-56.0/330												
DL-129.0/665	4480	1050	1010	640	4210	1040	1040	1040				
DD-90.0/500												
DJ-58.5/345												
DL-133.0/700	3840	1150	1010	740	3570	880	880	880				
DD-93.0/530												
DJ-60.0/365												
DL-140.0/735	4000	1150	1010	740	3730	920	920	920				
DD-96.0/550												
DJ-63.0/380												
DL-147.0/775	4200	1150	1010	740	3930	970	970	970				
DD-101.0/580												
DJ-66.0/400												
DL-152.0/800	4320	1150	1010	740	4050	1000	1000	1000				
DD-105.0/600												
DJ-68.0/415												

