

D&N Series Air Coolers



Nomenclature:

LSQ-03ASLZ

D: Evaporator with Checking Door

D series:

1. Supcool classical design for evaporator with checking door;
2. Water defrosting is optional; Long distance air throw is optional.

N Series:

1. N series appearance is based on D series improvement;
2. The front panel improved with reinforced design to drop the noise during the running of our evaporator.

L: Application Temperature

L: -5°C ~ +5°C D:-15°C ~ -20°C J:Below-25°C

(S/L): Vacancy: electrical defrosting&standard air throw

S: water defrosting;
C: Long distance air throw
(Basically increase 1-3m on same model)

29: Cooling Capacity KW

45: Dia.(cm) of Fan Motor

3: Quantity of Fan Motors

A: A:380V 3 Phase 50Hz B:220V 1 Phase 50Hz

Product Description:

- ★ Power Painting Steel Body;
- ★ Defrosting with stainless steel electric heater;
- ★ Double layer drain plate keep the condensate water from frozen.



Supcool Refrigeration Equipment Factory

DL Chiller Room Air Cooler (Fin Space 4.5mm)

Model	DL2.2/311A	DL3.5/311A	DL4.7/312A	DL6/312A	DL9/352A	DL12.5/402A	DL14.5/402A	DL17/402A	DL25/502A
Capacity kw :T=7K T _e =7°C (R404A/R448A/R449A)	2.3	3.7	4.9	6.3	9.5	13.1	15.2	17.9	26.3
Heat Transfer Area (m ²)	7	11	14	26	35	43	52	61	87
Tube Cubage (C)	1.4	2.4	3.1	4.4	6.1	7.9	9.4	11	15.6
Air Flow (m ³ /h)	1500	1500	3000	3000	4500	7000	7000	7000	12000
Air Throw (m)	9	9	9	9	10	12	12	12	15
Fan Input (m)	90	90	180	180	280	390	390	390	1000
Defrosting (kw)	Coil	1.0	1.5	2.7	3.6	3.6	4.8	6	10.0
	Drain Plate	0.5	0.5	0.9	0.9	1.2	1.2	1.2	4.0
Pipe Dia (mm)	Liquid	φ12.7	φ12.7	φ12.7	φ12.7	φ16	φ16	φ16	φ22
	Gas	φ12.7	φ19	φ22	φ22	φ22	φ22	φ28	φ35

Model	DL29/453A	DL36.5/503A	DL42/503A	DL49/503A	DL59/504A	DL70/554A	DL84/554A	DL103/604A	DL112/634A	DL122/634A
Capacity kw :T=7K T _e =7°C (R404A/R448A/R449A)	30.5	38.3	44.1	51.5	62.0	73.5	88.2	108.2	117.6	128.1
Heat Transfer Area (m ²)	104	122	156	182	208	260	306	371	390	463
Tube Cubage (C)	19.1	22.4	25.6	32	38.7	45.1	58	70.9	77.3	83.7
Air Flow (m ³ /h)	13500	18000	18000	18000	24000	30000	30000	42000	46000	46000
Air Throw (m)	14	15	15	15	15	18	18	18	18	20
Fan Input (m)	840	1500	1500	1500	2000	3000	3000	3400	3520	3520
Defrosting (kw)	Coil	10.0	10.0	12.0	12.0	15.6	15.6	23.4	26	31.2
	Drain Plate	4.0	4.0	4.0	4.0	5.2	5.2	5.2	5.2	5.2
Pipe Dia (mm)	Liquid	φ22	φ22	φ22	φ22	φ22	φ22	φ28	φ35	φ35
	Gas	φ35	φ42	φ42	φ54	φ54	φ54	φ60	φ60	φ60

DD Freezer Room Air Cooler (Fin Space 6.0 mm)

Model	DD1.4/311A	DD2.3/311A	DD3/312A	DD4.5/312A	DD6/352A	DD7.5/402A	DD9/402A	DD11/402A	DD15.5/502A
Capacity kw :T=7K T _e =25°C (R404A/R448A/R449A)	1.5	2.4	3.2	4.7	6.3	7.9	9.5	11.6	16.3
Heat Transfer Area (m ²)	5.5	8.5	11	20	27	33	40	47	67
Tube Cubage (C)	1.4	2.4	3.1	4.4	6.1	7.9	9.4	11	15.6
Air Flow (m ³ /h)	1500	1500	3000	3000	4500	7000	7000	7000	12000
Air Throw (m)	9	9	9	9	10	12	12	12	15
Fan Input (W)	90	90	180	180	280	390	390	390	1000
Defrosting (kw)	Coil	1.0	1.5	2.7	3.6	3.6	4.8	6.0	7.5
	Drain Plate	0.5	0.5	0.9	0.9	1.2	1.2	1.2	3.0
Pipe Dia (mm)	Liquid	φ12.7	φ12.7	φ12.7	φ12.7	φ16	φ16	φ16	φ22
	Gas	φ12.7	φ19	φ22	φ22	φ22	φ22	φ28	φ35

Model	DD19/453A	DD24/503A	DD29/503A	DD32/503A	DD38/504A	DD47/554A	DD58/554A	DD72/604A	DD79/634A	DD88/634A
Capacity kw :T=7K T _e =25°C (R404A/R448A/R449A)	20	25.2	30.5	33.6	39.9	49.4	60.9	75.6	83	92.4
Heat Transfer Area (m ²)	80	94	120	140	160	200	235	285	300	356
Tube Cubage (C)	19.1	22.4	25.6	32	38.7	45.1	58	70.9	77.3	83.7
Air Flow (m ³ /h)	13500	18000	18000	18000	24000	30000	30000	42000	46000	46000
Air Throw (m)	14	15	15	15	15	18	18	18	18	20
Fan Input (W)	840	1500	1500	1500	2000	3000	3000	3400	3520	3520
Defrosting (kw)	Coil	10.0	10.0	12.0	12.0	15.6	15.6	23.4	26	31.2
	Drain Plate	4.0	4.0	4.0	4.0	5.2	5.2	5.2	5.2	5.2
Pipe Dia (mm)	Liquid	φ22	φ22	φ22	φ22	φ22	φ22	φ28	φ35	φ35
	Gas	φ35	φ42	φ42	φ54	φ54	φ54	φ60	φ60	φ60

DJ Blast Freezer Air Cooler (Fin Space 9.0mm)

Model	DJ1.7/311A	DJ2.2/312A	DJ2.7/312A	DJ4.2/352A	DJ5.6/402A	DJ6.8/402A	DJ7.8/402A	DJ11.5/502A	DJ14/453A
Capacity kw :T=7K T=-32°C (R404A/R448A/R449A)	1.8	2.3	2.8	4.4	5.9	7.1	8.2	12.1	14.7
Area (m ²)	6	8	14	19	23	28	33	47	56
Tube Cubage (C)	2.4	3.1	4.4	6.1	7.9	9.4	11	15.6	19.1
Air Flow (m ³ /h)	1500	3000	3000	4500	7000	7000	7000	12000	13500
Air Throw (m)	9	9	9	10	12	12	12	15	14
Fan Input (W)	90	180	280	390	390	390	390	1000	840
Defrosting (kw)	Coil	1.5	2.7	3.6	3.6	4.8	6.0	7.5	10.0
	Drain Plate	0.5	0.9	0.9	1.2	1.2	1.2	3.0	4.0
Pipe Dia (mm)	Liquid	φ12.7	φ12.7	φ12.7	φ16	φ16	φ16	φ22	φ22
	Gas	φ19	φ22	φ22	φ22	φ22	φ28	φ35	φ35

Model	DJ17/503A	DJ20/503A	DJ23/503A	DJ26/504A	DJ31/554A	DJ40/554A	DJ49/604A	DJ53.6/634A	DJ58/634A
Capacity kw :T=7K T=-32°C (R404A/R448A/R449A)	17.9	21	24.2	27.3	32.6	42	51.5	56	61
Area (m ²)	66	84	98	112	140	165	200	210	249
Tube Cubage (C)	22.4	25.6	32	38.7	45.1	58	70.9	77.3	83.7
Air Flow (m ³ /h)	18000	18000	18000	24000	30000	30000	42000	46000	46000
Air Throw (m)	15	15	15	15	18	18	18	18	20
Fan Input (W)	1500	1500	1500	2000	3000	3000	3400	3520	3520
Defrosting (kw)	Coil	10.0	12.0	12.0	15.6	15.6	26	31.2	33.8
	Drain Plate	4.0	4.0	4.0	5.2	5.2	5.2	5.2	5.2
Pipe Dia (mm)	Liquid	φ22	φ22	φ22	φ22	φ22	φ28	φ35	φ35
	Gas	φ42	φ42	φ54	φ54	φ54	φ60	φ60	φ60

NL Type Air Cooler (Fin Space 4.5mm)

Model	NL2.0/10	NL3.0/15	NL5.0/25	NL8.0/40	NL11.2/55	NL16.2/80	NL21.3/105	NL25.0/125
Capacity kw :T=7K T=-7°C (R404A/R448A/R449A)	2	3	5	8	11.2	16.2	21.3	25
Fan Motor	Quantity (pc)	1	2	3	2	2	2	3
	Dia. (mm)	350	350	350	400	500	500	500
	Input (W)	150	150	280	280	640	640	640
	Air Flow (m ³ /h)	3110	3110	5100	5100	8500	8500	8500
Defrost Heater (Kw)	2x0.5	2x0.9	2x1.2	3x1.3	3x1.3	3x1.3	3x1.5	3x1.9
Pipe Dia (mm)	Liquid (mm)	12	12	12	16	19	19	19
	Gas (mm)	16	16	16	25	38	38	38
Overall Dimension L×W×H (mm)	765×430×480	1165×430×480	1610×430×480	1590×530×560	1590×530×560	1890×590×660	1890×590×660	2370×590×660

Model	NL32.6/160	NL37.6/185	NL42.7/210	NL52.9/260	NL66.0/330	NL82.0/410	NL94.0/470	NL116/580
Capacity kw :T=7K T=-7°C (R404A/R448A/R449A)	32.6	37.6	42.7	52.9	66	82	94	116
Fan Motor	Quantity (pc)	3	4	4	4	4	3	3
	Dia. (mm)	500	500	500	550	600	710	710
	Input (W)	640	640	640	850	850	1100	1360
	Air Flow (m ³ /h)	8500	8500	8500	10500	10500	14500	19700
Defrost Heater (Kw)	3x2.4	3x2.4	3x2.6	4x2.6	5x2.6	5x2.8	6x2.4	6x2.6
Pipe Dia (mm)	Liquid (mm)	25	25	25	25	25	28	28
	Gas (mm)	50	50	50	50	50	50	50
Overall Dimension L×W×H (mm)	2390×590×660	3190×590×660	3590×590×660	3190×710×760	3390×710×760	3590×710×860	3090×810×960	3090×860×960

Remark: Coldroom temp. 0°C ; Δ T=8°C

ND Type Air Cooler (Fin Space 6.0mm)

Model	ND1.3/7	ND2.2/12	ND2.8/15	ND3.7/22	ND5.6/30	ND7.5/40	ND11.2/60	ND14.9/80
Capacity kw :T=7K T=-25°C (R404A/R448A/R449A)	1.3	2.2	2.8	3.7	5.6	7.5	11.2	14.9
Fan Motor	Quantity (pc)	1	2	2	3	2	2	2
	Dia. (mm)	350	350	350	350	400	500	500
	Input (W)	150	150	150	150	280	280	640
	Air Flow (m ³ /h)	3110	3110	3110	3110	5100	5100	8500
Defrost Heater (Kw)	3x0.5	3x0.9	3x0.9	3x1.2	3x1.5	3x1.5	6x1.3	6x1.5
Pipe Dia (mm)	Liquid (mm)	12	12	12	12	16	19	19
	Gas (mm)	16	16	16	16	25	38	38
Overall Dimension L×W×H (mm)	765×430×480	1165×430×480	1165×430×480	1610×430×480	1590×530×560	1590×530×560	1890×590×660	1890×590×660

Model	ND18.7/100	ND22.4/120	ND26.2/140	ND30.0/160	ND37.4/200	ND46.2/250	ND57.3/310	ND66.6/360	ND81.4/450
Capacity kw :T=7K T=-25°C (R404A/R448A/R449A)	18.7	22.4	26.2	30	37.4	46.2	57.3	66.6	81.4
Fan Motor	Quantity (pc)	3	3	4	4	4	4	3	3
	Dia. (mm)	500	500	500	500	550	600	710	710
	Input (W)	640	640	640	640	850	850	1360	1760
	Air Flow (m ³ /h)	8500	8500	8500	8500	10500	10500	14500	23500
Defrost Heater (Kw)	6x1.9	6x2.4	6x2.6	6x2.8	7x2.6	9x2.6	9x2.8	12x2.4	12x2.6
Pipe Dia (mm)	Liquid (mm)	19	25	25	25	25	25	28	28
	Gas (mm)	38	50	50	50	50	50	50	50
Overall Dimension L×W×H (mm)	2370×590×660	2390×590×660	3190×590×660	3590×590×660	3190×710×760	3390×710×760	3590×710×860	3090×810×960	3090×860×960

Remark: Coldroom temp. -18°C ; Δ T=7°C

NJ Type Air Cooler (Fin Space 9.0mm)

Model	NJ1.2/8	NJ2.1/15	NJ3.6/20	NJ4.6/30	NJ7.1/40	NJ8.9/55	NJ11.6/70	NJ14.3/85
Capacity kw :T=7K T=-32°C (R404A/R448A/R449A)	1.2	2.1	3.6	4.6	7.1	8.9	11.6	14.3
Fan Motor	Quantity (pc)	2	3	2	2	2	3	3
	Dia. (mm)	350	350	350	400	400	500	500
	Input (W)	150	150	150	280	280	640	640
	Air Flow (m ³ /h)	3110	3110	5100	5100	8500	8500	8500
Defrost Heater (Kw)	3x0.9	3x1.2	3x1.5	3x1.5	6x1.3	6x1.5	6x1.9	6x2.4
Pipe Dia (mm)	Liquid (mm)	12	12	16	16	19	19	19
	Gas (mm)	16	16	25	25	38	38	38
Overall Dimension L×W×H (mm)	1165×430×480	1610×430×480	1590×530×560	1590×530×560	1890×590×660	1890×590×660	2370×590×660	2390×590×660

Model	NJ17.1/100	NJ19.6/115	NJ23.1/140	NJ28/170	NJ34.6/210	NJ41.2/250	NJ49.5/300
Capacity kw :T=7K T=-32°C (R404A/R448A/R449A)	17.1	19.6	23.1	28	34.6	41.2	49.5
Fan Motor	Quantity (pc)	4	4	4	4	4	3
	Dia. (mm)	500	500	550	550	600	710
	Input (W)	640	640	850	850	1100	1360
	Air Flow (m ³ /h)	8500	8500	10500	10500	14500	19700
Defrost Heater (Kw)	6x2.6	6x2.8	7x2.6	7x2.6	9x2.8	12x2.4	12x2.6
Pipe Dia (mm)	Liquid (mm)	25	25	25	25	25	28
	Gas (mm)	50	50	50	50	50	50
Overall Dimension L×W×H (mm)	3190×590×660	3590×590×660	3190×710×760	3390×710×760	3590×710×860	3090×810×960	3090×860×960

Remark: Coldroom temp. -25°C ; Δ T=6°C