

ND Series

Ceiling Air Cooler





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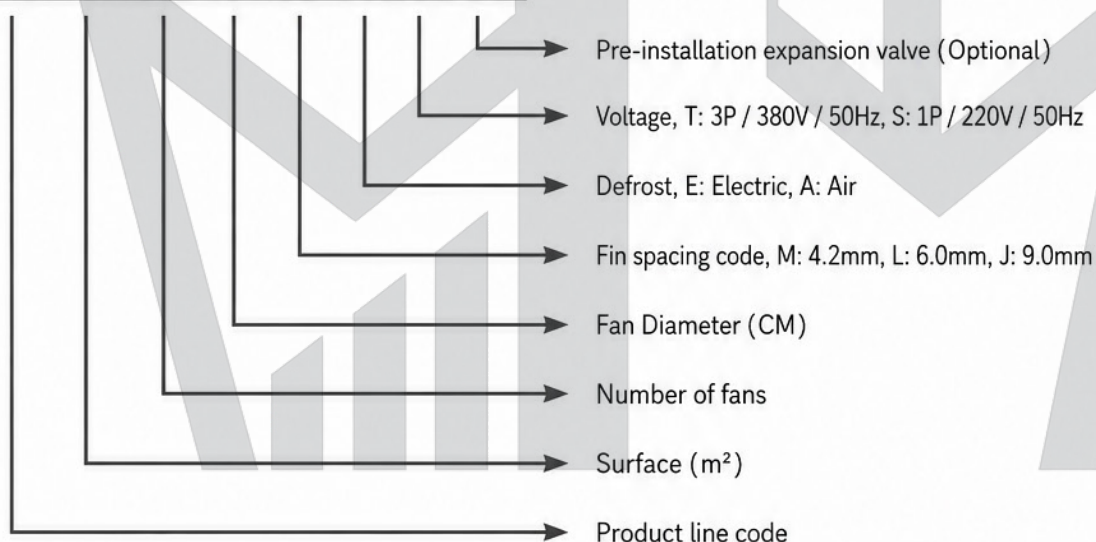
ND Series Ceiling Air Cooler

1. Product Description:

- 1 Casing:** Adopt high-quality steel plate with powder coating RAL9003; Has strong corrosion resistance; Hinged structure is adopted for both side plates and external drip tray, which is convenient and quick to operate;
- 2 Heat Exchanger Coil:** copper tubing $\phi 15$, spacing 50×50; Corrugated aluminium fins, fin spacing 4.2mm and 6.4mm and 9.0mm
- 3 Fans:** Axial fans, working temperature -40°C to 60°C; Fans individually connected to junction box; Fan blade $\phi 300$, $\phi 350$, $\phi 400$, $\phi 500$, $\phi 630$, standard 4-pole motor;
- 4 Defrosting:** Standard use of electric defrosting, stainless heating pipes installed in the middle of coil and inner water plate. Independent electric heating tube junction box.
- 5** It can meet the requirements of R404A, R507A, R448A, R449A, R134a, R22 and other refrigerants.

2. Model Description:

ND 42 / 2 40 M - E T - V



**3. Performance data sheet:****3.1 Fins spacing 4.2mm:**

Model	R404A Capacity (kW)		Surface (m ²)	Volume (dm ³)	Airflow (m ³ /h)	Airthrow (m)	Connection pipe (mm)			Weight (kg)
	Tc=0°C ΔT=8K	Tc=-18°C ΔT=7K					Inlet	Outlet	Drain	
ND10/130M-ES	1.5	1.2	9.2	1.6	1700	5	φ12	φ19	G1	29
ND14/135M-ET	2.4	1.9	13.8	2.4	2300	6	φ12	φ19	G1	32
ND20/230M-ES	3.0	2.4	18.4	2.9	3400	7	φ12	φ19	G1	44
ND30/235M-ET	4.8	3.8	27.6	4.3	4600	8	φ12	φ19	G1	50
ND28/240M-ES	7.6	6.0	27.9	5.5	5800	7	φ12	φ22	G1"	53
ND42/240M-ET	6.6	5.2	41.5	6.3	6200	10	φ12	φ22	G1	71
ND55/240M-ET	8.3	6.6	55.3	8.4	5800	10	φ16	φ28	G1	78
ND70/240M-ET	10.0	7.9	69.1	10.5	5200	9	φ16	φ28	G1	84
ND83/250M-ET	14.9	11.8	82.9	12.4	11600	16	φ22	φ35	G1	118
ND105/250M-ET	17.5	13.8	103.7	15.5	11000	15	φ22	φ35	G1	128
ND138/350M-ET	24.8	19.6	138.2	20.4	17100	18	φ22	φ42	2"G1	168
ND166/350M-ET	28.2	22.3	165.9	24.5	16200	18	φ22	φ42	2"G1	180
ND180/450M-ET	32.3	25.5	179.7	26.0	23200	22	φ28	φ50	3"G1	235
ND225/450M-ET	36.0	28.4	224.6	32.5	22000	22	φ28	φ50	3"G1	251
ND270/450M-ET	41.8	33.0	269.6	39.0	20800	21	φ28	φ50	3"G1	270
ND300/455M-ET	49.5	39.1	299.5	43.4	28000	25	φ28	φ50	3"G1	313
ND360/455M-ET	53.8	42.5	359.4	52.0	26000	24	φ28	φ50	3"G1	339
ND373/463M-ET	61.5	48.6	373.2	53.9	36800	30	φ28	φ50	3"G1	383
ND448/463M-ET	65.0	51.4	447.9	64.7	36000	29	φ28	φ50	3"G1	415

3.2 Fin spacing 6.0mm:

Model	R404A Capacity (kW)		Surface (m ²)	Volume (dm ³)	Airflow (m ³ /h)	Airthrow (m)	Connection pipe (mm)			Weight (kg)
	Tc=0°C ΔT=8K	Tc=-18°C ΔT=7K					Inlet	Outlet	Drain	
ND7/130L-ES	1.3	1.0	6.6	1.6	1800	5	φ12	φ19	G1	28
ND10/135L-ET	2.1	1.7	9.8	2.4	2100	6	φ12	φ19	G1	31
ND13/230L-ES	2.6	2.1	13.1	2.9	3600	7	φ12	φ19	G1	42
ND20/235L-ET	4.2	3.3	19.7	4.3	4200	8	φ12	φ19	G1	47
ND19/240L-ES	6.6	5.2	18.9	5.5	6000	10	φ12	φ22	G1"	51
ND30/240L-ET	5.3	4.2	29.5	6.3	6400	10	φ12	φ22	G1	67
ND40/240L-ET	6.6	5.2	39.4	8.4	6000	10	φ16	φ28	G1	73
ND50/240L-ET	7.8	6.2	49.2	10.5	5400	9	φ16	φ28	G1	78
ND60/250L-ET	13.0	10.3	59.0	12.4	12000	16	φ22	φ35	G1	110
ND74/250L-ET	15.9	12.6	73.8	15.5	11400	15	φ22	φ35	G1	118
ND100/350L-ET	21.6	17.1	98.4	20.4	17700	18	φ22	φ42	2"G1	155
ND120/350L-ET	24.7	19.5	118.1	24.5	16800	18	φ22	φ42	2"G1	165
ND130/450L-ET	28.2	22.3	127.9	26.0	24000	22	φ28	φ50	3"G1	217
ND160/450L-ET	32.8	25.9	159.9	32.5	22800	22	φ28	φ50	3"G1	230
ND192/450L-ET	36.5	28.8	191.9	39.0	21600	21	φ28	φ50	3"G1	245
ND213/455L-ET	42.6	33.7	213.2	43.4	30000	25	φ28	φ50	3"G1	285
ND256/455L-ET	46.1	36.4	255.8	52.0	28000	24	φ28	φ50	3"G1	306
ND266/463L-ET	51.9	41.0	265.7	53.9	38800	30	φ28	φ50	3"G1	348
ND320/463L-ET	57.4	45.3	318.8	64.7	36800	29	φ28	φ50	3"G1	374

**3.3 Fin spacing 9.0mm:**

Model	R404A Capacity (kW)		Surface (m ²)	Volume (dm ³)	Airflow (m ³ /h)	Airthrow (m)	Connection pipe (mm)			Weight (kg)
	T _c =0°C ΔT=8K	T _c =-18°C ΔT=7K					Inlet	Outlet	Drain	
ND5/130J-ES	1.1	0.9	4.5	1.6	1900	5	φ12	φ19	G1	28
ND7/135J-ET	1.8	1.4	6.8	2.4	2200	6	φ12	φ19	G1	31
ND9/230J-ES	2.2	1.7	9.0	2.9	3800	7	φ12	φ19	G1	42
ND14/235J-ET	3.5	2.8	13.5	4.3	4400	8	φ12	φ19	G1	47
ND14/240J-ES	4.5	3.6	14.0	5.5	6200	7	φ12	φ22	G1	51
ND20/240J-ET	5.3	4.2	20.3	6.3	6800	10	φ12	φ22	G1	67
ND27/240J-ET	6.7	5.3	27.0	8.4	6200	10	φ16	φ28	G1	73
ND34/240J-ET	8.1	6.4	33.8	10.5	5600	9	φ16	φ28	G1	78
ND41/250J-ET	10.5	8.3	40.5	12.4	12400	16	φ22	φ35	G1	109
ND51/250J-ET	12.7	10.0	50.7	15.5	11800	15	φ22	φ35	G1	117
ND68/350J-ET	16.9	13.4	67.6	20.4	18300	18	φ22	φ42	2*G1	154
ND81/350J-ET	20.7	16.4	81.1	24.5	17400	18	φ22	φ42	2*G1	164
ND90/450J-ET	23.3	18.4	87.8	26.0	24800	22	φ28	φ50	3*G1	213
ND110/450J-ET	26.4	20.9	109.8	32.5	23600	22	φ28	φ50	3*G1	228
ND132/450J-ET	29.7	23.5	131.7	39.0	22400	21	φ28	φ50	3*G1	243
ND146/455J-ET	33.6	26.5	146.4	43.4	31000	25	φ28	φ50	3*G1	283
ND176/455J-ET	38.3	30.3	175.7	52.0	28800	24	φ28	φ50	3*G1	304
ND182/463J-ET	41.8	33.0	182.4	53.9	40800	30	φ28	φ50	3*G1	346
ND220/463J-ET	47.1	37.2	218.9	64.7	38400	29	φ28	φ50	3*G1	371

In the table, T_c is the coldroom Temp., and ΔT is the difference between the coldroom Temp. and the evaporation Temp.

4. Electrical parameter table:

Model	Fan motor				Electric Defrost		
	Voltage (V)	Power (W)	Current (A)	Rev. (r/min)	Coil (kW)	Tray (kW)	Total (kW)
ND10/130M-ES ND7/130L-ES ND5/130J-ES	220-1	93	0.44	1330	2×0.5	1×0.5	1.5
ND14/135M-ET ND10/135L-ET ND7/135J-ET	380-3	195	0.46	1383	2×0.5	1×0.5	1.5
ND20/230M-ES ND13/230L-ES ND9/230J-ES	220-1	186	0.88	1330	2×0.9	1×0.9	2.7
ND30/235M-ET ND20/235L-ET ND14/235J-ET	380-3	390	0.92	1383	2×0.9	1×0.9	2.7
ND28/240M-ET ND19/240L-ET ND14/240J-ET	380-3	480	1.04	1330	2×0.9	1×0.9	2.7

**4. Electrical parameter table (continued):**

Model	Fan motor				Electric Defrost		
	Voltage (V)	Power (W)	Current (A)	Rev. (r/min)	Coil (kW)	Tray (kW)	Total (kW)
ND42/240M-ET ND30/240L-ET ND20/240J-ET	380-3	480	1.04	1330	2×1.16	1×1.28	3.6
ND55/240M-ET ND40/240L-ET ND27/240J-ET	380-3	480	1.04	1330	3×1.16	1×1.28	4.8
ND70/240M-ET ND50/240L-ET ND34/240J-ET	380-3	480	1.04	1330	4×1.16	1×1.28	5.9
ND83/250M-ET ND60/250L-ET ND41/250J-ET	380-3	1096	2.2	1380	4×1.33	2×1.38	8.1
ND105/250M-ET ND74/250L-ET ND51/250J-ET	380-3	1096	2.2	1380	5×1.33	2×1.38	9.4
ND138/350M-ET ND100/350L-ET ND68/350J-ET	380-3	1644	3.3	1380	5×1.73	2×1.78	12.2
ND166/350M-ET ND120/350L-ET ND81/350J-ET	380-3	1644	3.3	1380	6×1.73	2×1.78	13.9
ND180/450M-ET ND130/450L-ET ND90/450J-ET	380-3	2192	4.4	1380	4×2.73	2×2.8	16.5
ND225/450M-ET ND160/450L-ET ND110/450J-ET	380-3	2192	4.4	1380	6×2.73	2×2.8	22.0
ND270/450M-ET ND192/450L-ET ND132/450J-ET	380-3	2192	4.4	1380	6×2.73	2×2.8	22.0
ND300/455M-ET ND213/455L-ET ND146/455J-ET	380-3	2680	5.08	1377	7×2.73	2×2.8	24.7
ND360/455M-ET ND256/455L-ET ND176/455J-ET	380-3	2680	5.08	1377	8×2.73	2×2.8	27.4
ND373/463M-ET ND266/463L-ET ND182/463J-ET	380-3	3748	7.0	1378	8×3.0	2×3.1	30.2
ND448/463M-ET ND320/463L-ET ND220/463J-ET	380-3	3748	7.0	1378	9×3.0	2×3.1	33.2



5. Outline & Installation Dimensions

Model	Outline (mm):			Installation Dimensions (mm):						Mounting Hole
	L	W	H	A	B	B1	B2	B3	C	
ND*/130**	900	490	540	380	530	/	/	/	300	4- ϕ 13
ND*/135**	900	490	540	380	530	/	/	/	350	4- ϕ 13
ND*/230**	1400	490	540	380	1030	/	/	/	300	4- ϕ 13
ND*/235**	1400	490	540	380	1030	/	/	/	350	4- ϕ 13
ND28/240M-ET ND19/240L-ET ND14/240J-ET	1400	490	590	380	1030	/	/	/	400	4- ϕ 13
ND*/240**	1600	560	630	480	1230	/	/	/	400	4- ϕ 13
ND*/250**	1900	640	730	560	1530	750	/	/	500	6- ϕ 13
ND*/350**	2400	640	730	560	2030	667	1334	/	500	8- ϕ 13
ND*/450**	3650	640	730	560	3280	812	1625	2437	500	10- ϕ 13
ND*/455**	3650	640	930	560	3280	812	1625	2437	550	10- ϕ 13
ND*/463**	4050	710	1030	620	3630	900	1800	2700	600	10- ϕ 13

