

DANCOMAIR

REFRIGERATION AIR DRYERS



MEE (Modular/Easy to Use/Energy Saving) Design

Stainless Steel Heat Exchanger for smallest model from DM5.5A to DM30A

High Efficiency Heat Exchanger and Pre-Cooler

Security and Reliability

Humanized Structure Design

Free Environmentally Friendly Refrigerant



GERMAN TECHNOLOGY

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DANCOMAIR Air-Cooled Refrigerating Compressed Air Dryers Specification

Model	DM-5.5A	DM-7.5A	DM-10A	DM-15A	DM-20A	DM-30A	DM-50A	DM-75A	DM-100A	DM-150A	DM-200A	DM-250A	DM-300A	DM-350A	DM-400A	
Flow Rate (m ³ /min)	0.6	0.9	1.5	1.8	2.4	3.6	6.5	11.0	13.0	22.0	27.0	33.0	37.0	45.0	55.0	
Max Working Pressure	1.6 MPa / 16 bar						1.5 MPa / 15 bar									
Working Condition Limit	A. Max Inlet Temperature : 60°C						B. Max Ambient Temperature 50°C									
Dew Point	2°C - 10°C															
Refrigerant	R134a						R407c									
Nominal Power (kW)	0.23	0.26	0.45	0.46	0.47	0.62	1.40	1.85	2.30	3.10	3.63	4.40	5.10	6.13	6.90	
Power Supply	220V 50Hz/60Hz									380V 50Hz/60Hz						
Air Connections	NPT 1/2"	NPT 1/2"	NPT 1/2"	NPT 1/2"	NPT 3/4"	NPT 3/4"	NPT 1-1/2"	NPT 1-1/2"	NPT 2"	NPT 2"	NPT 2-1/2"	NPT 2-1/2"	NPT 2-1/2"	DN100	DN100	
Filter Connections	NPT 1/2"	NPT 1/2"	NPT 1/2"	NPT 1/2"	NPT 3/4"	NPT 3/4"	BSPP1-1/2"	BSPP 1-1/2"	BSPP 2"	BSPP 2"	BSPP 3"	BSPP 3"	BSPP 3"	DN100	DN100	
Approximate Size (mm)	Length	500	500	600	600	750	750	750	750	1000	1000	1400	1000	1000	1150	1150
	Width	250	250	310	310	360	360	550	550	670	670	820	820	820	1120	1120
	Height	500	500	500	500	550	550	880	880	1030	1030	1600	1600	1600	1750	1750
Approximate Weight (kg)	25	25	30	30	50	55	78	85	130	150	250	260	270	500	510	

DANCOMAIR Water-Cooled Refrigerating Compressed Air Dryers Specification

Model	DM-100W	DM-150W	DM-200W	DM-250W	DM-300W	DM-350W	DM-400W	DM-500W	DM-600W	DM-700W	DM-800W	DM-900W	DM-1000W	DM-1200W	DM-1500W
Flow Rate (m ³ /min)	13.0	22.0	27.0	33.0	37.0	45.0	55.0	65.0	73.0	80.0	90.0	100.0	120.0	150.0	180.0
Max Working Pressure	1.5 MPa / 15 bar														
Working Condition Limit	A. Max Inlet Temperature : 60°C						B. Max Ambient Temperature 50°C								
Dew Point	2°C - 10°C														
Refrigerant	R407c														
Nominal Power (kW)	2.10	2.76	3.13	3.90	4.60	5.34	6.08	7.50	9.10	9.90	11.10	14.70	18.50	30.50	36.75
Power Supply	220V 50Hz/60Hz			380V 50Hz/60Hz											
Water Connections	NPT 3/4"	NPT 3/4"	NPT 1"	NPT 1"	NPT 1"	NPT 1-1/4"	NPT 1-1/4"	NPT 1-1/4"	NPT 1-1/4"	NPT 1-1/2"	NPT 1-1/2"	NPT 1-1/2"	NPT 1-1/2"	NPT 2"	NPT 2"
Air Connections	NPT 2"	NPT 2"	NPT 2-1/2"	NPT 2-1/2"	NPT 2-1/2"	DN 100	DN 100	DN 100	DN 125	DN 150	DN 150	DN 150	DN 150	DN 200	DN 200
Filter Connections	BSPP G1-1/2"	BSPP G1-1/2"	BSPP 2"	NPT 2"	NPT 2"	DN 100	DN 100	DN 100	DN 125	DN 150	DN 150	DN 150	DN 150	DN 200	DN 200
Approximate Size (mm)	Length	1000	1000	1000	1000	1100	1100	1100	1100	1850	1850	1850	2200	2200	2200
	Width	670	670	820	820	820	900	900	900	900	1200	1200	1200	1300	1300
	Height	1030	1030	1600	1600	1600	1750	1750	1750	1750	1800	1800	1800	1800	1800
Approximate Weight (kg)	135	150	250	260	270	500	510	550	560	800	810	850	870	1200	1250

Flow Correction Factors (DM-5.5A to DM-30A)

To obtain dryer capacity at new conditions, multiply capacity X KA X KB X KC

Work Pressure KA

Working Pressure MPa	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5	1.6
Correction Factor KA	0.764	0.855	0.917	0.962	1.000	1.042	1.075	1.111	1.149	1.176	1.220	1.250	1.282	1.299

Inlet Temperature KB

Inlet Temperature °C	27	30	35	38	40	43	46	49	54	60
Correction Factor KB	1.50	1.36	1.11	1.00	0.92	0.83	0.76	0.69	0.56	0.46

Ambient Temperature KC

Ambient Temperature °C	20	25	30	35	38	40	45	50
Correction Factor KC	1.21	1.15	1.10	1.02	1.00	0.89	0.79	0.69

Flow Correction Factors (DM-50A to DM-400A)

To obtain dryer capacity at new conditions, multiply capacity X KA X KB X KC (or KC')

Work Pressure KA

Working Pressure MPa	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5
Correction Factor KA	0.764	0.855	0.917	0.962	1.000	1.042	1.075	1.111	1.149	1.176	1.220	1.250	1.282

Inlet Temperature KB

Inlet Temperature °C	27	30	35	38	40	43	46	49	54	60
Correction Factor KB	1.50	1.36	1.11	1.00	0.92	0.83	0.76	0.69	0.56	0.46

Ambient Temperature KC

Ambient Temperature °C	20	25	30	35	38	40	45	50
Correction Factor KC	1.21	1.15	1.10	1.02	1.00	0.89	0.79	0.69

Cooling Water KC'

Cooling Water Temperature °C	15	20	25	30	35	40
Correction Factor KC'	1.35	1.26	1.18	1.08	1.00	0.91