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Air-Cooled Chiller Catalog

High-performance air-cooled chillers engineered to deliver stable and efficient cooling for industrial processing applications. Designed for reliable temperature control, these systems provide consistent cooling capacity with energy-efficient operation.



Compact and integrated construction ensures smooth and dependable cooling performance across a wide capacity range. Units are equipped with hermetic rotary, piston, or scroll compressors, efficient aluminum finned copper condensers with low-noise external rotor fans, and stainless-steel evaporator tanks for durability. Advanced protection systems include overload, high and low pressure, anti-freezing, phase protection, over-temperature, and flow monitoring to ensure safe and continuous operation.

Specifications:

DNC-A													
Model		DNC-0.5A	DNC-1A	DNC-1.5A	DNC-2A	DNC-3A	DNC-4A	DNC-5A	DNC-6A	DNC-8AD	DNC-10AD	DNC-12AD	DNC-15AS
Rated cooling capacity	Kcal/h	1419	251	3182	4833	7181	9288	11988	14534	18576	23994	29068	38270
	(50Hz/60Hz)	1703	2941	3784	5800	8617	11146	14386	17441	22291	28793	34882	45924
	kW	1.65	2.85	3.7	5.62	8.35	10.8	13.94	16.9	21.6	27.9	33.8	44.5
	(50Hz/60Hz)	1.95	3.42	4.4	6.74	10.02	12.96	16.73	20.28	25.92	33.48	40.56	53.4
Input Power	kW	1	1.39	1.7	2.3	3.6	4.22	5.4	6.43	8.4	10.9	12.94	16.9
Current	A	3.9	5.4	6.6	8.9	6.8	8.3	10.3	12.2	16.3	20.8	24.5	31.8
Power		1PH ~ 220V/3PH ~ 220V/380V 50HZ/60HZ					3PH ~ 380V/415V ~ 50HZ/60HZ (3PH ~ 200V/220V 50HZ/60HZ)						
Refrigerant	Name	R22/R407C/134a/404A/410A											
	Control	Capillary/External-balanced thermostatic expansion valve											
Compressor	Type	Hermetic rotary/piston/scroll											
	Power (kW)	0.56	0.89	1.2	1.75	2.95	3.57	4.28	5.3	3.57x2	4.28x2	5.3x2	6.8x2
Condenser	Type	Efficient aluminum finned copper sleeve + low noise external											
	Cooling Air Volume (m ³ /h)	750	1000	1500	2000	3000	4000	5000	6000	8000	1000	12000	15000
	Fan Power (kW)	0.1	0.13	0.15	0.15	0.14x2	0.14x2	0.19x2	0.19x2	0.25x2	0.42x2	0.42x2	0.55x2
Evaporator	Type	Tank coil/shell and tube/Stainless-steel plate evaporator											
	Chilled water flow (m ³ /h)	0.28	0.49	0.64	0.97	1.44	1.86	2.4	2.91	3.71	4.8	5.81	7.65
	Tank Capacity (L)	0.34	0.59	0.76	1.16	1.72	2.23	2.88	3.49	4.46	5.76	7	9.18
	Diameter (inch)	10.6	18.3	27	27	50	60	60	110	120	200	200	270
Pump	Power (kW)	0.37	0.37	0.37	0.37	0.37	0.37	0.75	0.75	0.75	1.5	1.5	2.2
	Max-lift (m)	20	20	20	20	20	20	22	22	20	20	20	22
Security Protections		Compressor motor overheating, overload, high and low pressure, anti-freezing, power reverse phase/phase, exhaust temperature, over-temperature, flow switches											
Mechanical Dimensions	(A)/Length	470	550	600	600	1020	1020	1150	1150	1350	1500	1500	1860
	(B)/Width	370	450	500	500	540	540	620	620	680	760	760	850
	(C)/Height	800	960	1130	1130	1355	1355	1355	1355	1420	1540	1540	1775
Weight (KG)		45	62	85	95	152	175	185	215	283	345	382	580

Notes:

- Rated cooling capacity is based on: chilled water inlet and outlet water temperature 12 °C / 7 °C, the cooling air inlet and outlet temperature 30 °C / 35 °C
- Scope of work: chilled water temperature range: 5 °C to 35 °C; chilled water inlet and outlet temperature difference: 3 °C to 8 °C.

3. The ambient temperature of condensation: Not higher than 35 °C (non-standard chiller ambient temperature of condensation can reach maximum 55 °C, need to order production)
4. These models above can be customized according to customers' requirements.
5. Model Description: A represents air-cooled; D represents two compressors; T represents three compressors; F represents four compressors.

Specifications are subject to change without prior notification. Pictures are for reference only