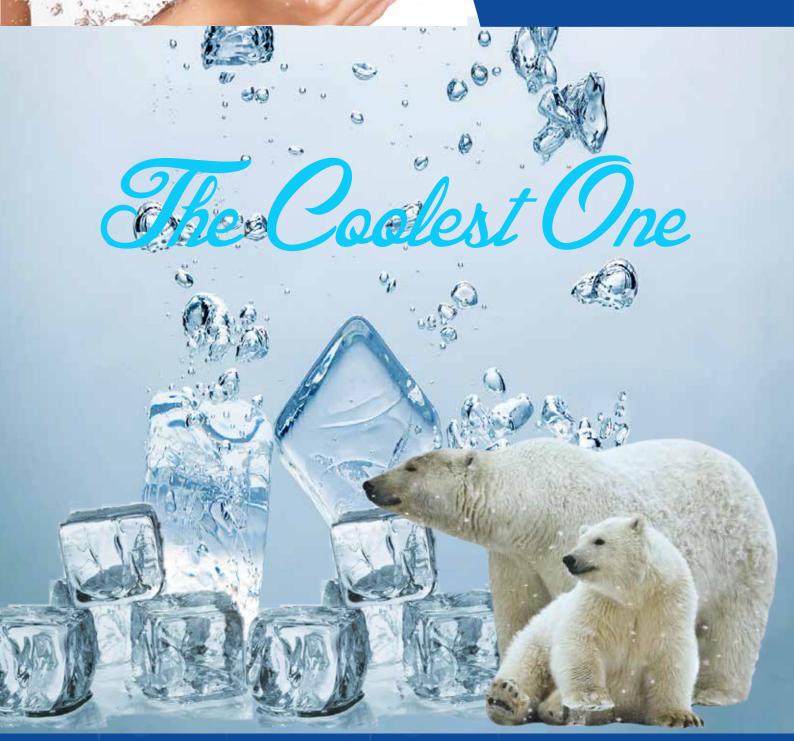


Cool Your Self with

Dana Water Coolers and Water Chillers

COMPANY PROFILE



www.danagroups.com

ABOUT US

Since its inception in1991Dana group's endeavor has always been to do their best in catering to the needs of valued customers with their high quality products and services, of course at reasonable rates. Sharing and practicing this principle are their corporate office, manufacturing units and showrooms in UAE, trading companies and manufacturing facilities in India and associate offices in West Africa,Qatar & India.

OUR GROUP COMPANIES

- * Seven Eagle International Trading L.L.C Dubai,UAE
- * Dana Water Heaters & Coolers Factory L.L.C Dubai, UAE
- * Dana Steel Processing Industry L.L.C UAE
- * Dana Lubricants Factory L.L.C Ajman, UAE
 - * Dana Hospital Private Limited Jaipur, India
 - * Dana Mart Hypermarket LLC- UAE
 - * Apika Enterprises Export House, Jaipur, India
 * Dana Steels PVTLTD Bhiwadi, R ajasthan, I ndia



DANA STEEL - UAQ Branch



DANA HEAD OFFICE



CORE VALUES

- * We uphold honest business practices and nurture a mutally respectful and beneficial relationship with all our customers and suppliers.
- * We are passionate about achieving results that exceeds expectations.
- * We believe our employess are our greatest asset.
- * We embrace change and on the lookout to seize new opportunities at all time.
- * We scale to seek heights of excellence in all that we do.

Dana Group of Companies

DANA WATER COOLERS

"DANA" is the most familiar brand of drinking water coolers in the UAE with more than 40 years experience in designing equipments exclusively for standard and customized systems, we ensure the highest standards of quality for the global market. Our water coolers are used in worker Accommodations, Labour Camps, Mosques, Schools, Resturants. Our products are exported to Qatar, bahrain, Oman, Kuwait, kenya, Jordan, Saudi Arabia & vast number of other Arab Countries.

Key Features:-

Condensing Unit:- Heavy duty, Noisless, designed for the extreme desert conditions. Specially designed for countries with hot climates. Peak cooling capacity is taken at desert ambient 50C rated conditions to get chilled water at +12C to +5C.
 Inner tank:- Fabricated hygienically with stainless steel 304GR fitted with leak proof hygienic attachments. The inner tank & outer body is insulated under pressure with CFC free polyurethane foam 50mm thick.

3. Drip Tray:-

thick. High quality & maintenance free drip proof taps are provided with splash proof grating on the drip tray to get a continuous fresh flow of water.



Specially designed for countries with hot climate. To cope with these extreme climate the copper tubing round the tank is covered with an aluminium conductive compound for better heat transfer

POLYURETHANE INSULATION

Polyurethane is injected under pressure between strong walls with great resultant strength and high insulation value Ozone friendly.



FAUCETS AND DRIP TRAY

The heavy plated drip proof faucets are located at a convenient height with the waste water tray to prevent splashing and facilitate easy removal of dirt

COPER TUBE

The Copper tube around the tank is flattened so that the surface of the tube touching the water tank is increased by 70%. Also, Conductive Aluminium paste is placed in between the tube and the surface of the tank increasing the efficiency of the water cooler by 70%. As a result less electricity is consumed as the water is cooled much faster.

134a

OZONE FRIENDLY R134a

FLOAT VALVE/WATER INLET AND OUTLET CONNECTION

High quality nickel plated brass float valve and water inlet and outlet connections prevent rust and ensure most hygienic water.

PLASTIC FEET

Prevents humidity from affecting the unit and in raining days allows water to flow under without damaging the equipment.

STAINLESS STEEL TANK

The open storage tank in high quality stainless steel 304 gaurantess crystal clear drinking water. Each tank is double tested, once before insulation and at the end of the production process to the highest standards of health and hygiene.

Dana Group of Companies

CHOOSE SUITABLE MODEL

	MODEL	DANA DWC25-2	MODEL	DANA DWC35-2	T
13.21	Туре	Storage Stainless Steel		Storage Stainless Steel	
1018 1 000 1	Dimension	1240(H)x585(W)x605(D)mm	Dimension	1240(H)x585(W)x605(D)mm	10
HEAT HEAT	Storage Capacity	11 US Gallons	Storage Capacity	15 US Gallons	160 100
	Cooling Capacity	25 US Gallons	Cooling Capacity	35 US Gallons	
A ALL AND A REAL AND A	No. of Taps	2	No. of Taps	2	and the second s
	Condensing Power		Condensing Power	1/4 HP	
	Water Supply &		Water Supply &		
	Drain Size	1/2" BSP	Drain Size	1/2″ BSP	
	Water Outlet Temp.	4C-10C	Water Outlet Temp.	4C-10C	
	Max Current	1.8 amps	Max Current	2.1 amps	
	Power Connections		Power Connections	13 amps 3 Pinplug	
	Weight	25kg	Weight	30kg	
NA DWC25-2					DANA DW
	MODEL	DANA DWC65-3	MODEL	DANA DWC85-4	TRACT
	Туре	Storage Stainless Steel	Туре	Storage Stainless Steel	
	Dimension	1275(H)x680(W)x650(D)mm	Dimension	1275(H)x860(W)x650(D)mm	1.11.16.16
mandre	Storage Capacity	20 US Gallons	Storage Capacity	27 US Gallons	164 164 164 14
and the same	Cooling Capacity	65 US Gallons	Cooling Capacity	85 US Gallons	
THE P	No. of Taps	3	No. of Taps	4	3
1	Condensing Power	1/3 HP	Condensing Power	1/2 HP	
22	Water Supply &		Water Supply &	1/2″ BSP	the second state
1000	Drain Size	1/2" BSP	Drain Size	1/2 B2P	
111	Water Outlet Temp.	4C-10C	Water Outlet Temp.	4C-10C	U.
-	Max Current	2.5 amps	Max Current	3.0 amps	
The second se	Power Connections	13 amps 3 Pinplug	Power Connections	13 amps 3 Pinplug	
	Weight	45kg	Weight	65kg	
ANA DWC65-3				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DANA DW
	MODEL	DANA DWC100-4	MODEL	DANA DWC125-5	1 11
	Туре	Storage Stainless Steel	Туре	Storage Stainless Steel	
- 1 ACR	Dimension	1275(H)x970(W)x730(D)mm	Dimension	1275(H)x1100(W)x730(D)mm	1411
her her her her her	Storage Capacity	39 US Gallons	Storage Capacity	46 US Gallons	P PARTATION
	Cooling Capacity	100 US Gallons	Cooling Capacity	125 US Gallons	Section of the sectio
1 Parts	No. of Taps	4	No. of Taps	5	100
0	Condensing Power	3/4 HP	Condensing Power	3/4 HP	
1 2	Water Supply &		Water Supply &	1/2″ BSP	
110	Drain Size	1/2" BSP	Drain Size		Section Section
-	Water Outlet Temp.	4C-10C	Water Outlet Temp.	4C-10C	
and the second s	Max Current	4.2 amps	Max Current	5.8 amps	
¥	Power Connections	13 amps 3 Pinplug	Power Connections	13 amps 3 Pinplug	
	Weight	75kg	Weight	80kg	1
		24	1 11 7		
NA DWC100-4	<				DANA DWC
NA DWC100-4		101	AL A		
NA DWC100-4	MODEL	DANA DWC150.4	MODEL		(Nearr
NA DWC100-4	MODEL	DANA DWC150-4	MODEL	DANA DWC250-4	
NA DWC100-4	Туре	Storage Stainless Steel	Туре	Storage Stainless Steel	
NA DWC100-4	Type Dimension	Storage Stainless Steel 1275(H)x950(W)x750(D)mm	Type Dimension	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm	
NA DWC100-4	Type Dimension Storage Capacity	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons	Type Dimension Storage Capacity	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons	
NA DWC100-4	Type Dimension Storage Capacity Cooling Capacity	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons	Type Dimension Storage Capacity Cooling Capacity	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons	
INA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4	Type Dimension Storage Capacity Cooling Capacity No. of Taps	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons 4	
INA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons	
INA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply &	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4 3/4 HP	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply &	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons 4	
NA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4 3/4 HP 1/2" BSP	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons 4 3/4 HP 1/2" BSP	
NA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp.	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4 3/4 HP 1/2" BSP 4C-10C	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp.	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons 4 3/4 HP 1/2" BSP 4C-10C	
NA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.2 amps	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.8 amps	
NA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current Power Connections	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.2 amps 13 amps 3 Pinplug	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current Power Connections	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.8 amps 13 amps 3 Pinplug	
NA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.2 amps	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.8 amps	
NA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current Power Connections	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.2 amps 13 amps 3 Pinplug	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current Power Connections	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.8 amps 13 amps 3 Pinplug	
NA DWC100-4	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current Power Connections	Storage Stainless Steel 1275(H)x950(W)x750(D)mm 50 US Gallons 150 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.2 amps 13 amps 3 Pinplug	Type Dimension Storage Capacity Cooling Capacity No. of Taps Condensing Power Water Supply & Drain Size Water Outlet Temp. Max Current Power Connections	Storage Stainless Steel 1510(H)x1100(W)x800(D)mm 100 US Gallons 250 US Gallons 4 3/4 HP 1/2" BSP 4C-10C 6.8 amps 13 amps 3 Pinplug	

DANA FOUNTAIN WATER COOLERS



Salient Features

- * Stainless Steel 316 (Food grade) tube with in tube heat exchanger insulated by EPS.
- * R134 a Refrigerant gas Ozone Friendly.
- * Cost efficient & silent motor compressor.
- * External body made of polished stainless steel 316.
- * Polished stainless steel cover with grooves to contain spatter.
- * Automatic water temperature control.
- * Chromed brass tap (cup and jet) with water stream adjustment.
- * Syphon Drain: Eliminates unpleasent odors that emanate from the sewer.

Technical Data for DFC-F1				
Electrical Data				
Voltage [v]	220 - 230 Volt A/C Single Phase			
Frequency[Hz]	50 - 60Hz			
Current [A]	1 - 1.9 Amperes			
Power [W]	183 watts			
Refrige	erant Data			
Refrigerant Gas	Ozone Friendly R - 134a			
Refrigerant Quality	70gms			
Cooling	g Data			
Water Temperature Inlet/Outlet [Degress Celsius]	Cooling Capacity Liters/hours			
21 degrees C/10 degrees C	16 Liters / Hour			
27 degrees C/10 degrees C	14 Liters / Hour			
32 degrees C/10 degrees C	12 Liters / Hour			
38 degrees C/10 degrees C	10 Liters / Hour			
Dimensions & Weight				
Dimensions	310mm [width] x310mm [depth] x 985mm [height]			
Weight	23 Kgs.			

ARE YOU FACING THE SAME PROBLEM?

Every summer, most of us have to deal with hot water coming from our cold tap. DANA chillers offer you a cold water managment system in your home at an affordable price. DANA chiller is a fully automatic circulation water chilling system that can cool upto a 3000 gallon water tank to a (user adjustable) temperature. Once the set point temperature is achieved, the Dana Chiller unit automatically switches off.

DANA DOMESTIC WATER CHILLERS

SALIENT FEATURES

- * Ideal for cooling water in overhead water tanks Villas, Homes, Hotels, Restaurants, Accomodations, Mosques, Parks, Labor, Camps, Townships, Spas, Gyms and Construction sites.
- * Based in Recirculating Principle(Schematic explained below), So No Disturbance/Alteration to Existing Plumbing Connections .
- * Can be installed by ordinary plumber/electrician.
- * Heavy Duty EMERSON COPELAND Tropicalized Compressors (Made in USA/INDIA).
- * Compact & Portable.
- * Single Point Power Connection (Single Phase for DC-2000/3000 and Three Phase for DC-5000).
- * Integrated Centrifugal Circulation Pumps (Made in INDIA/SPAIN/ITALY).
- * Generously Sized 3-sided Copper Tube/Aluminum-finned Air-cooled Condensers.
- * High Efficiency, Brazed Tube Heat Exchangers.
- * Heavier Frame Construction (made from heavy Gauge Galvanized steel, epoxy powder coated for extra corrosion resistant) for greater resistance to shipping & handling.
- * Acoustic-Composite Axial Discharge Fans for low-noise levels & higher efficiency.
- * Easy Access for Maintenance & Easy to Install.
- * Adjustable time-delay switch.
- * Standard Weather-Proof Enclosures.
- * Temperature Control :- Manually adjustable 5 degree C to 30 degree C (Note :- Digital Thermometer Can be Provided on Customer Request).
- * Warranty :- 1 year against any manufacturing defect and 5 years on compressor (Note :- Refer to warranty card for details)

Dana Group of Companies

Schematic - Diagram of DANA Water Chiller Installation for Villas/Homes

DANA WATER CHILLER
------The Coolest One-----

Existing Plumbing for water supply to Kitchen, Washroom etc.

K	SELECTION CRITERIA FOR DOMEST	IC WATER CHILLERS
10	Water Tanks Upto 700 Glns	2Ton (DC - 2000)
	Water Tanks 700 Glns - 1000 Glns	3 Ton (DC - 3000)
	Water Tanks 1000 Glns - 1500 Glns	5 Ton (DC - 5000)
	A 110/1	

1 or 1/2 HP Motor Pump with Pressure Switch → (Existing Booster Pump)

Cold Water Outlet

Municipality Water Supply

17

Your Roof Tank (Water is maintained at preset Temperature here) Dana Water Chiller helps to maintain preset temperature in the tank

Water Inlet →

Dana Water Chiller

DANA INDUSTRIAL WATER CHILLERS (5TR - 100TR) :-



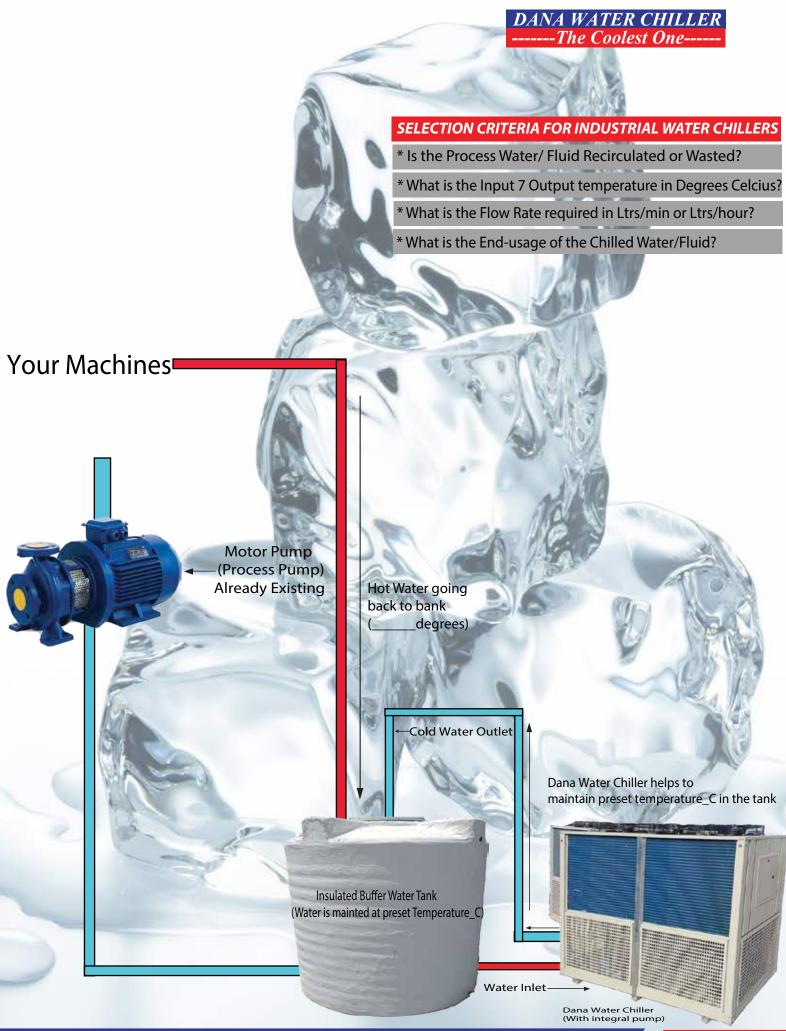
APPLICATIONS ACROSS WIDE RANGE OF INDUSTRIES :-

- * Paper (Manufacturer, Printing, Card Board, Labels, BOPP / PET Plastic Film).
- * Chemical (Oil & Gas, Petro chemical, Paints, Solvents, Temperature Control).
- * Air-Conditioning (Civil, Industrial, Process, Domestic).
- * Food (Beverages, Bakeries, Confectionery, Chocolate, Storage).
- * Plastics (Injection, Blow Molding, Extrusion, Film Extrusion, thermoforming, PET/PC Moulding).
- * Medical Machinery (CT SCAN, XRAY, MRI machines).
- * Steel Working Machinery (CNC, Waterjet, Hydraulic Powerpacks).
- * Laser (Welding, Profiling, Cutting, Optics, Medical, Marking, Aesthetics).
- * Mechanical (Welding, Cutting, Profiling, Polishing, Rolling, Grinding, Water Jet Cutting Machines).
- * Other (Wood, Ceramics, Gold & Silver, Pharmaceutical, Textile).

SALIENT FEATURES

- * Ideal for Cooling Water in various process applications as outlined above.
- * Optimally Sized to minimize POWER CONSUMPTION.
- * Easy to Install.
- * Heavy Duty EMERSON COPELAND Tropicalized Reciprocating/Scroll Compressors (Made in USA/INDIA).
- * Single Point Power Connection (Three Phase + 1 Neutral).
- * Built-in Integrated Centrifugal Circulation Pumps (Made in INDIA/SPAIN/ITALY).
- * Generously Sized 3-sided Copper Tube/Aluminum-finned Air-cooled Condensers With Anti-Corrosive Coating.
- * Environment friendly, energy efficient and operation fiendly refrigerant R-134A/R-404A/R-407A/R-410A available as per client request.
- * High Efficiency, Brazed Tube Heat Exchangers.
- * Heavier Frame Construction (made from heavy Gauge Galvanized steel, epoxy powder coated for extra corrosion resistant) for greater resistance to shipping & handling.
- * Acoustic-Composite Axial Discharge Fans for low-noise levels & higher efficiency.
- * Adjustable time-delay switch.
- * Standard Weather-Proof Enclosures.
- * Temperature Control :- Manually adjustable 5 degree C to 30 degree C (Note :- Digital Thermometer Can be Provided on Customer Request).
- * Warranty :- 1 year against any manufacturing defect and 5 years on compressor (Note :- Refer to warranty card for details)

Schematic - Diagram of DANA Water Chiller Installation for Machinery (Closed Loop Type)



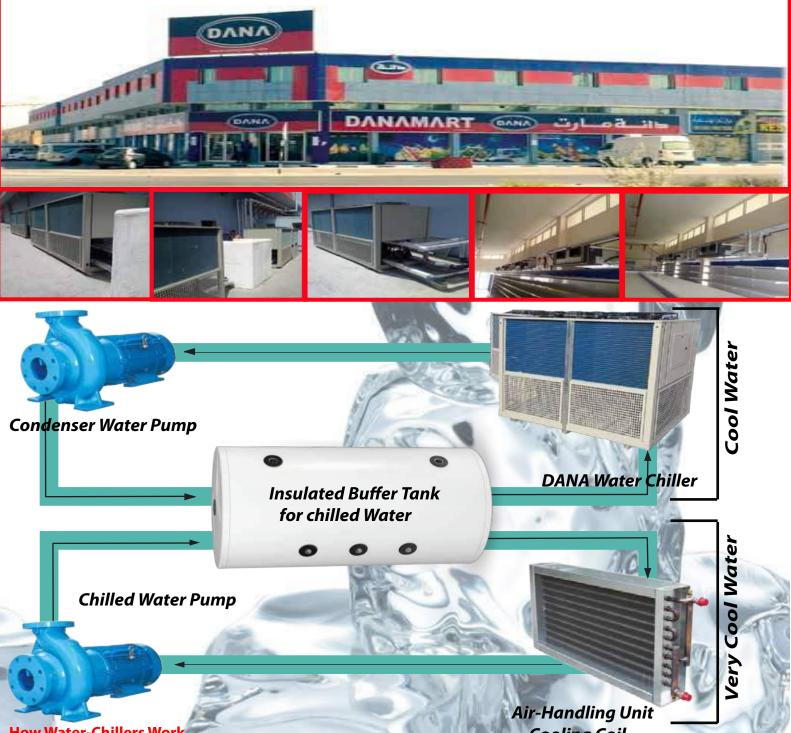
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Model No. DC	DC - 2000	DC - 3000	DC - 5000	DC - 10000
Cooling Capacity kW/Btu/hr	7/24,000	10.5/36,000	17.5/60,000	35/120,000
Compressor	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA
No. of Compressors	1	1	1	2
Evaporator	Shell & Tube Type	Shell & Tube Type	Shell & Tube Type	Shell & Tube Type
Condenser	Aluminum Finned Tube Draft Forced	Aluminum Finned Tube Draft Forced	Aluminum Finned Tube Draft Forced	Aluminum Finned Tube Draft Forced
Axial Fan Information	Φ 400 mm x 1 Power input180 kW Current amps. – .8 Flow Rate – 4,000m ³ /h Noise level dB – 72	Φ 400 mm x 1 Power input250 kW Current amps. – 1.25 Flow Rate – 5,100m ³ /h Noise level dB – 72	Φ 400 mm x 2 Power input320 kW Current amps. – 1.6 Flow Rate – 8,000m ³ /h Noise level dB – 72	Φ 630 mm x 2 Power input55 kW Current amps. – 1.6 Flow Rate – 14,000m ³ /h Noise level dB – 72
No. of Fans	1	1	2	2
Fluid Circulation Pump Capacity / qty.	1/2 Hp x 1 no	1/2 Hp x 1 no	1/2 Hp x 1 no	1 Hp x 1 no
Connection	1/2″ x 1/2″	1/2″ x 1/2″	1″ x 1″	1″ x 1″
Refrigerant (R)	R - 22	R - 22	R - 22	R - 22
Control & Instrument	Sub Zero	Sub Zero	Sub Zero	Sub Zero
Dimensional Data	560 x 560 x 660 (L x W x H) mm	560 x 560 x 660 (L x W x H) mm	1020 x 560 x 760 (L x W x H) mm	1680 x 1150 x 1530 (L x W x H) mm
Power Supply	220-240V / 50-60 Hz / 1 Ph	220-240V / 50-60 Hz / 1 Ph	380-420V / 50-60 Hz / 3 Ph	380-420V / 50-60 Hz / 3 Ph
Weight	40 kg	55 kg	70 kg	450 kg

Model No. DC	DC - 15000	DC - 20000	DC - 25000	DC - 30000
Cooling Capacity kW/Btu/hi	52.5/180,000	70/240,000	87.5/300,000	105/360,000
Compressor	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA
No. of Compressors	2	2	2	2
Evaporator	Shell & Tube Type	Shell & Tube Type	Shell & Tube Type	Shell & Tube Type
Condenser	Aluminum Finned Tube Draft Forced	Aluminum Finned Tube Draft Forced	Aluminum Finned Tube Draft Forced	Aluminum Finned Tube Draft Forced
Axial Fan Information		Φ 630 mm x 2 Power input55 kW Current amps. – 1.6 Flow Rate – 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 3 Power input55 kW Current amps. – 1.6 Flow Rate – 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 4 Power input55 kW Current amps. – 1.6 Flow Rate – 14,000m ³ /h Noise level dB – 72
No. of Fans	2	2	3	4
Fluid Circulation Pump Capacity / qty.	1-1/2 Hp x 1 no	2 Hp x 1 no	3 Hp x 1no	2 Hp x 2 no
Connection	1-1/2" x 1-1/2"	1-1/2" x 1-1/2"	1-1/2″ x 1-1/2″	(1-1/2" x1-1/2")x2
Refrigerant (R)	R - 22	R - 22	R - 22	R - 22
Control & Instrument	Sub Zero	Sub Zero	Sub Zero	Sub Zero
Dimensional Data	1830 x 1150 x 1680 (L x W x H) mm	1830 x 1150 x 1680 (L x W x H) mm	2750 x 1150 x 1680 (L x W x H) mm	5500 x 1150 x 1680 (L x W x H) mm
Power Supply	380-420V / 50-60 Hz / 3 Ph	380-420V / 50-60 Hz / 3 Ph	380-420V / 50-60 Hz / 3 Ph	380-420V / 50-60 Hz / 3 Ph
Weight	520 kg	735 kg	800 kg	900 kg

Model No. DC	DC - 35000	DC - 40000	DC - 45000	DC - 50000
Cooling Capacity kW/Btu/hr	122.5/420,000	140/480,000	157.5/540,000	175/600,000
Compressor	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA
No. of Compressors	2	4	4	4
Evaporator	Shell & Tube Type	Shell & Tube Type	Shell & Tube Type	Shell & Tube Type
Condenser	Aluminum Finned Tube Draft Forced	Aluminum Finned Tube Draft Forced	Aluminum Finned Tube Draft Forced	Aluminum Finned Tube Draft Forced
Axial Fan Information	· · ·	Φ 630 mm x 4 Power input55 kW Current amps. – 1.6 Flow Rate– 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 4 Power input55 kW Current amps. – 1.6 Flow Rate– 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 4 Power input55 kW Current amps. – 1.6 Flow Rate– 14,000m ³ /h Noise level dB – 72
No. of Fan	4	4	4	4
Fluid Circulation Pump Capacity / qty.	2 Hp x 2 no	3 Hp x 2 no	3 Hp x 2no	3 Hp x 2 no
Connection	(1-1/2" x 1-1/2")x2	(1-1/2" x 1-1/2")x2	(1-1/2" x 1-1/2")x2	(1-1/2" x 1-1/2")x2
Refrigerant (R)	R - 22	R - 22	R - 22	R - 22
Control & Instrument	Sub Zero	Sub Zero	Sub Zero	Sub Zero
Dimensional Data	5500 x 1150 x 1680 (L x W x H) mm	5500 x 1150 x 1680 (L x W x H) mm	5500 x 1150 x 1680 (L x W x H) mm	5500 x 1150 x 1680 (L x W x H) mm
Power Supply	380-420V / 50-60 Hz / 3 Ph	380-420V / 50-60 Hz / 3 Ph	380-420V / 50-60Hz / 3 h	380-420V / 50-60 Hz / 3 Ph
Weight	1000 kg <u>+</u>	1100 kg <u>+</u>	1300 kg <u>+</u>	1500 kg <u>+</u>

DANA CHILLED WATER AIRCONDITIONING SYSTEM



How Water-Chillers Work

Cooling Coil

Water-chilled climate control uses water, instead of air, to cool a space. A reservoir holds a water and glycol mixture that is circulated throughout the building through pipes. Inside each room, there are air handlers, which work in the same way as traditional air conditioning. The cold water is run over cooling coils inside the air handler and a fan blows the air from the room over the coils.

But How Does the Water Get Cooled?

Warm water returns from the air handlers back to the initial reservoir of water. Once the overall temperature of the water in the reservoir goes above a certain point, the chillers, located outside the building, turn on. The reservoir water is then run through the chiller, where it is cooled down to the appropriate temperature.

A bonus of using water-chilled systems is that the chiller only turns on when the water in the reservoir gets above a certain temperature, chillers are not directly connected to air handlers. This means that as long as that water is within a certain range, the chiller is not running but the air handlers are still able to cool the rooms.

This provides significant energy savings. Additionally, because water has 20 times the heat absorption rate of air, it takes much longer for the water mixture to reach a temperature that causes the chiller to turn on that it does for air. Think of it this way, if you are standing outside on a cold day, say 35 degrees out, you will be cold and uncomfortable, but not deathly so, However, if you were to jump into a pool of 35 degree water, you could start to experience hypothermia in as little as 30 minutes.

Dana Group of Companies

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Heating & Cooling (Dual System with Spec Plus Technology)



9001:2008

Sailent Features

- * Specially design for Gulf conditions, Having both heating & cooling functions to ensure uniform temperature throughout the year.
- * Easy to install and Operate.
- * Very low operational cost, Dana Heat Pumps use "Spec-Plus" technology, which give 80% electricity savings & up to 5 times higher energy outputs.
- * Quiet Running Dana Heat Pump have very low operating noise level.
- * Electronic reverse cycle De-Ice control and build in safety switches.
- * Specially designed Hydrophillic coated corrosion-resistant condenser Coil to withstand corrosive environmental conditions.
- * Have long life expectancy & are very durable.
- * Excellent after sales service & technical support.
- * Japanese SAGNOMIYA "Electronic Expansion Valve" & "4-way valve" which is adopted by other world famous brands.

Model	DCH-3000	DCH-5000	DCH- 7000
Heating Capacity Kw (Air 26C, Water 26C)	16	23	30
C.O.P. (Air 26C, Water 26C)	<u>></u> 6.00	<u>></u> 6.00	<u>></u> 6.00
Heating Capacity Kw (Air 15C, Water 26C)	11	16	21
C.O.P. (Air 15C, Water 26C)	<u>></u> 4.5	<u>></u> 4.5	<u>></u> 4.5
Heating Capacity Kw (Air 43C, Water 32C)	10	15	20
C.O.P. (Air 43C, Water 32C)	<u>></u> 3.5	<u>></u> 3.5	<u>></u> 3.5
Reduction of Energy bill (Compared with Electric Bill)	70-80%	70-80%	70-80%
Operating Range Air (C)	0-52	0-52	0-52
Advanced Water Flux m ³ /h	6.5-8.5	8-10	10-12
Rated Power/Max Power Kw	2.4/3.1	3.8/5.6	4.5/6.3
Power Supply	220-240V/1Ph/50Hz 380-415V or 60Hz or		//1Ph/50Hz 60Hz
Rated Power/Max Power A	10.9/14.1	5.8/8.5	6.8/9.5
Heating Exchanger	Titanium in PVC - U Tank		ink
Compressor	Rotary	Scroll	Scroll
Fan Directions	Vertical	Vertical	Vertical
Noise Level dB (A)	< <u>5</u> 0	≤56	<58
Water Pipe in - Out Spec mm	50	50	50
Net Dimension - L x W x H mm	689x694x740	689x694x740	740x694x950
Packing Dimension - L x W x Hmm	760x740x790	760x740x790	790x740x990
Net Weight/Gross Weight kg	85/93	107/117	127/137
Qty Per 20feet/40feet HQ Sets * Above data is subject to modification without notice.	42/135	42/135	36/48



DANA GROUP OF COMPANIES

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