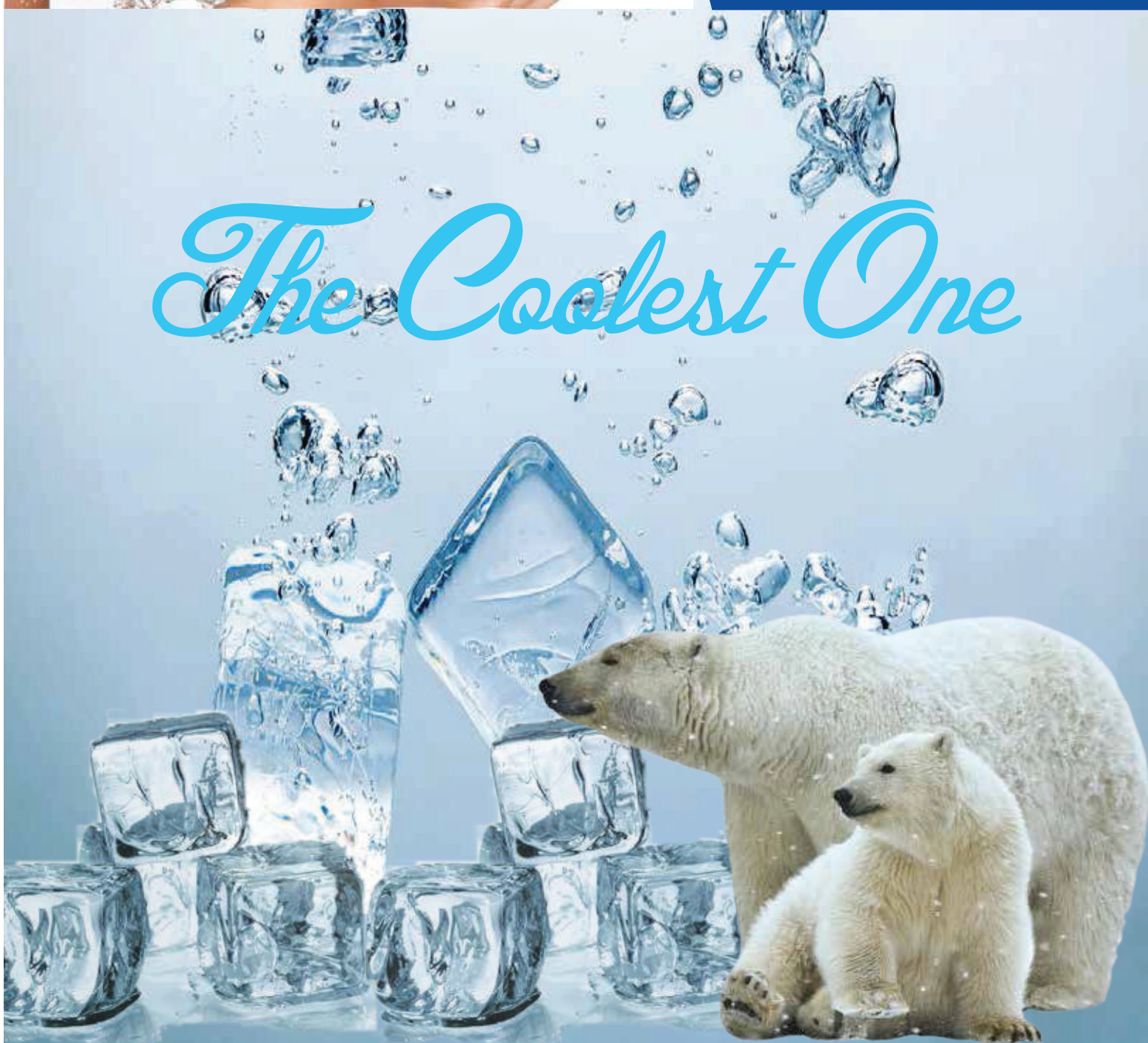




*Cool Your Self with
Dana Water Chillers*

COMPANY PROFILE

The Coolest One



ABOUT US

Since its inception in 1991 Dana 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 PVT LTD - Bhiwadi, Rajasthan, India



DANA GROUP AJMAN OFFICE



DANA LUBRICANTS FACTORY LLC



DANAMART HYPERMARKET LLC



DANA STEEL - UAQ Branch



DANA LUBES OFFICE



DANA STEEL - Ajman Branch



DANA HEAD OFFICE



DANA HOSPITAL

CORE VALUES

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

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 management 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

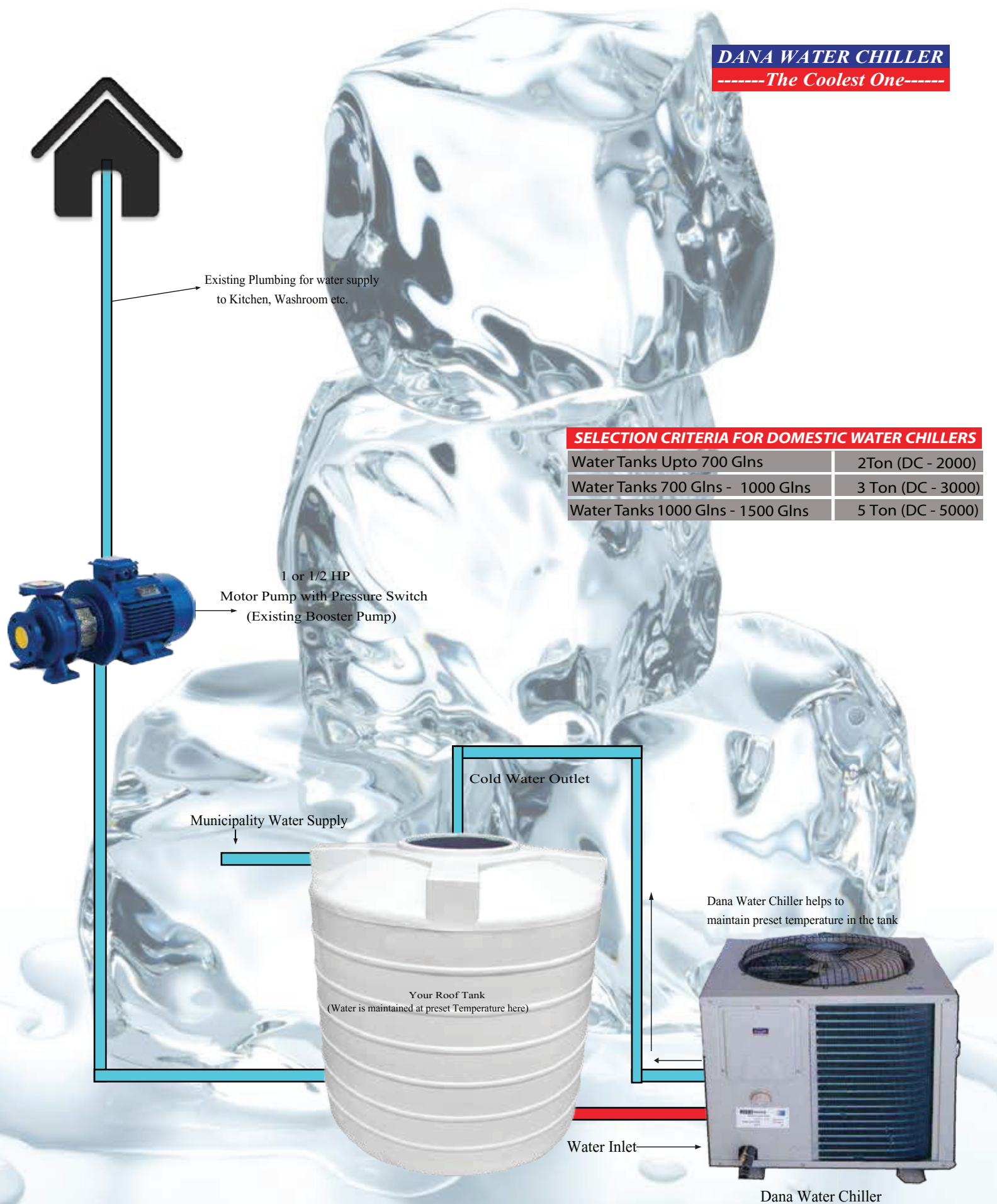
- * Ideal for cooling water in overhead water tanks Villas, Homes, Hotels, Restaurants, Accomodations, Mosques, Parks, Labor, Camps, Townships, Spas, Gyms and Construction sites.
- * Based in Recirculating Principle(Schematic explained below),So No Disturbance/Alteration to Existing Plumbing Connections .
- * 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)

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

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

SELECTION CRITERIA FOR DOMESTIC WATER CHILLERS

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)



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

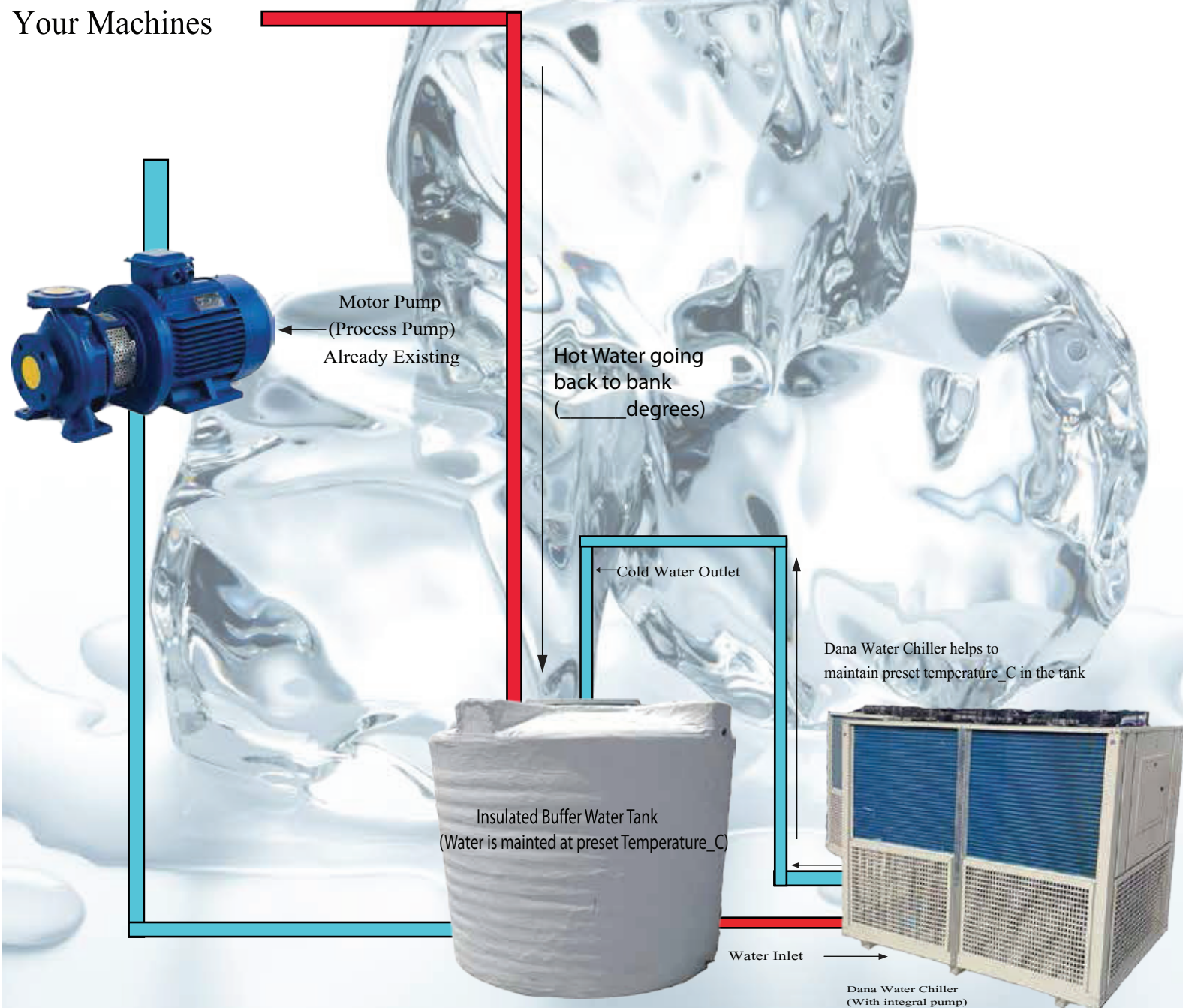
- * Ideal for Cooling Water in various process applications as outlined above.
- * Optimally Sized to minimize POWER CONSUMPTION.
- * Easy to Install.
- * Heavy Duty EMERSON COPELAND Tropicalized Reciprocating/Scroll Compressors (Made in USA/INDIA).
- * Single Point Power Connection (Three Phase + 1 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 friendly 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)

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

SELECTION CRITERIA FOR INDUSTRIAL WATER CHILLERS

- * Is the Process Water/ Fluid Recirculated or Wasted?
- * What is the Input & Output temperature in Degrees Celcius?
- * What is the Flow Rate required in Ltrs/min or Ltrs/hour?
- * What is the End-usage of the Chilled Water/Fluid?

Your Machines

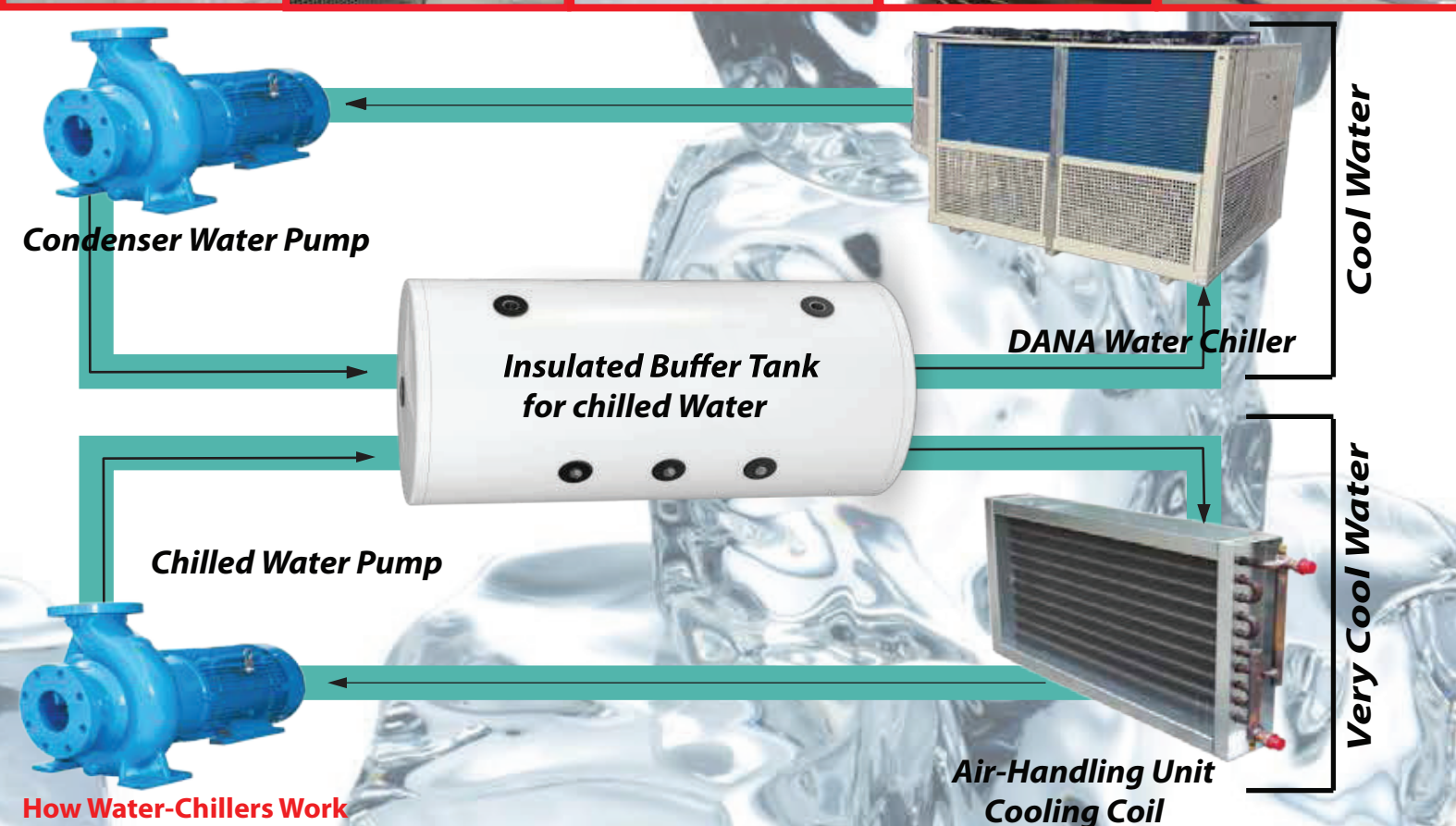


Model No. DC	DC - 2000	DC - 3000	DC - 5000	DC - 10000
Cooling Capacity kW/Btu/hr	7/24,000	10.5/36,000	17.5/60,000	35/120,000
Compressor	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA	Emerson Copeland USA / INDIA
No. of Compressors	1	1	1	2
Evaporator	Shell & Tube 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 input - .180 kW Current amps. – .8 Flow Rate – 4,000m ³ /h Noise level dB – 72	Φ 400 mm x 1 Power input - .250 kW Current amps. – 1.25 Flow Rate – 5,100m ³ /h Noise level dB – 72	Φ 400 mm x 2 Power input - .320 kW Current amps. – 1.6 Flow Rate – 8,000m ³ /h Noise level dB – 72	Φ 630 mm x 2 Power input - .55 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/hr	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 input - .55 kW Current amps. – 1.6 Flow Rate – 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 2 Power input - .55 kW Current amps. – 1.6 Flow Rate – 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 3 Power input - .55 kW Current amps. – 1.6 Flow Rate – 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 4 Power input - .55 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" 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	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 input - .55 kW Current amps. – 1.6 Flow Rate– 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 4 Power input - .55 kW Current amps. – 1.6 Flow Rate– 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 4 Power input - .55 kW Current amps. – 1.6 Flow Rate– 14,000m ³ /h Noise level dB – 72	Φ 630 mm x 4 Power input - .55 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 \pm	1100 kg \pm	1300 kg \pm	1500 kg \pm

DANA CHILLED WATER AIRCONDITIONING SYSTEM



How Water-Chillers Work

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

[An ISO 9001 : 2008 Certified Company]

Corporate Office: Suite No 405B, Centurion Star Building
Opp. Deira City Center, Dubai | P.O. Box 40743 | Dubai, UAE

P.O. BOX : 40743, Dubai, UAE

Tel: +971-4-221-7273, +971-6-748-7402 II

Fax: +971-4-221-5940, +971-6-748-7406

Web: www.danagroups.com, www.danasteel.com

Mail: info@danagroups.com, drdana@eim.ae

: facebook.com/danagroups : [danagroups](https://twitter.com/danagroups)



Contact Person

Mob:- Mr. Ankur - +971-050-7983153

Mr. Usman - +971-050-7445248

Mr. Umar - +971-055-8676171