



Cool Your Self with  
Dana Water Chillers

COMPANY PROFILE

# The Coolest One



# 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/Home





# 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).
- \* 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).

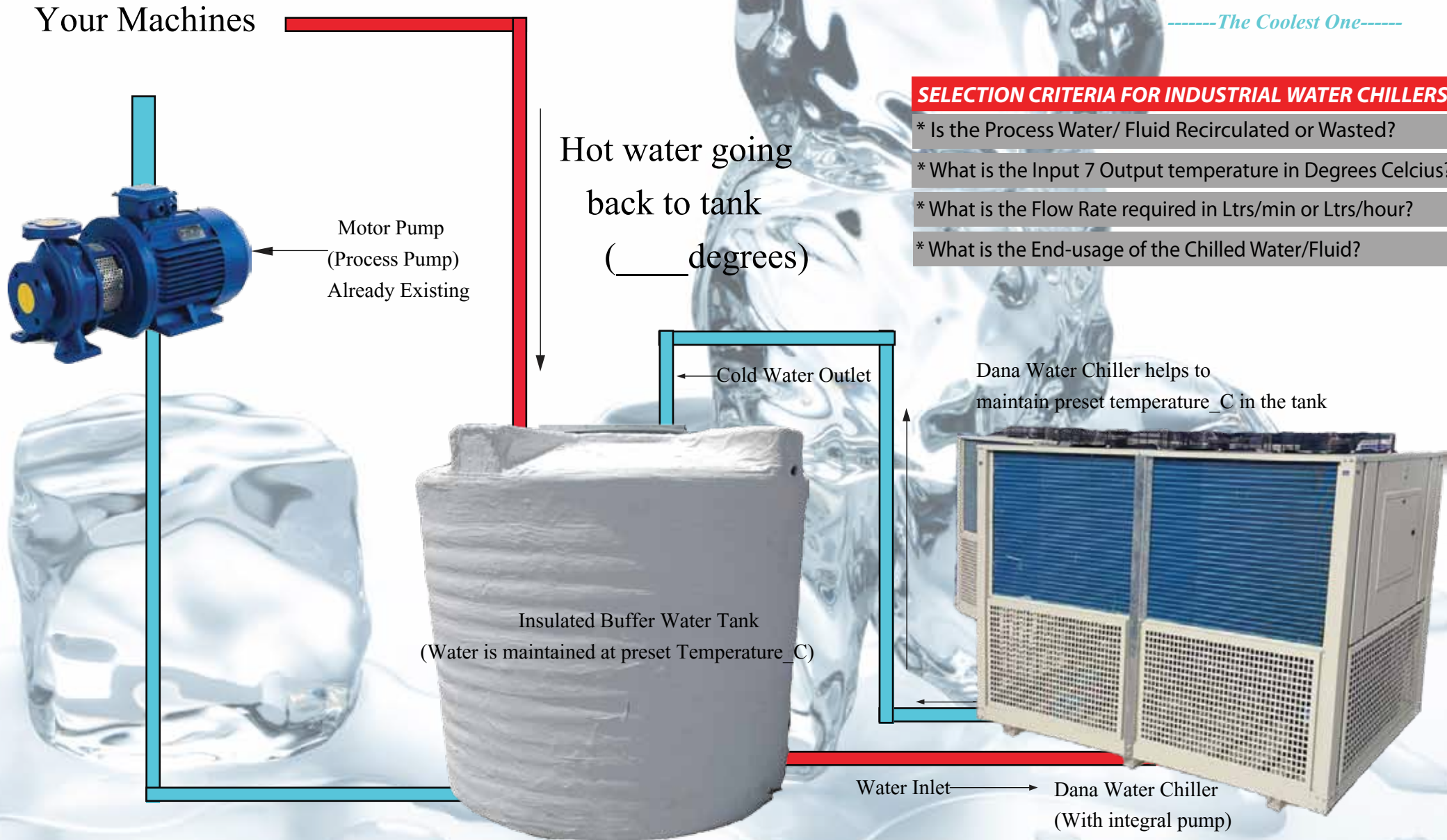
## SALIENT FEATURES

- \* 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)

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



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	Copeland - USA	Copeland - USA	Copeland - USA	Copeland - USA
No. of Compressor	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 <sup>3</sup> /h Noise level dB - 72	Φ 400 mm x 1 Power input - .250 kW Current amps. - 1.25 Flow Rate - 5,100m <sup>3</sup> /h Noise level dB - 72	Φ 400 mm x 2 Power input - .320 kW Current amps. - 1.6 Flow Rate - 8,000m <sup>3</sup> /h Noise level dB - 72	Φ 630 mm x 2 Power input - .55 kW Current amps. - 1.6 Flow Rate - 14,000m <sup>3</sup> /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	Danfoss / Sporlan	Danfoss / Sporlan	Danfoss / Sporlan	Danfoss / Sporlan
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	Copeland - USA	Copeland - USA	Copeland - USA	Copeland - USA
No. of Compressor	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	<p>Φ 630 mm x 2</p> <p>Power input - .55 kW</p> <p>Current amps. – 1.6</p> <p>Flow Rate – 14,000m<sup>3</sup>/h</p> <p>Noise level dB – 72</p>	<p>Φ 630 mm x 2</p> <p>Power input - .55 kW</p> <p>Current amps. – 1.6</p> <p>Flow Rate – 14,000m<sup>3</sup>/h</p> <p>Noise level dB – 72</p>	<p>Φ 630 mm x 3</p> <p>Power input - .55 kW</p> <p>Current amps. – 1.6</p> <p>Flow Rate – 14,000m<sup>3</sup>/h</p> <p>Noise level dB – 72</p>	<p>Φ 630 mm x 4</p> <p>Power input - .55 kW</p> <p>Current amps. – 1.6</p> <p>Flow Rate – 14,000m<sup>3</sup>/h</p> <p>Noise level dB – 72</p>
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 1 no	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	Danfoss / Sporlan	Danfoss / Copeland	Danfoss / Copeland	Danfoss / Copeland
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	Copeland - USA	Copeland - USA	Copeland - USA	Copeland - USA
No. of Compressor	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 <sup>3</sup> /h Noise level dB – 72	Φ 630 mm x 4 Power input - .55 kW Current amps. – 1.6 Flow Rate- 14,000m <sup>3</sup> /h Noise level dB – 72	Φ 630 mm x 4 Power input - .55 kW Current amps. – 1.6 Flow Rate- 14,000m <sup>3</sup> /h Noise level dB – 72	Φ 630 mm x 4 Power input - .55 kW Current amps. – 1.6 Flow Rate- 14,000m <sup>3</sup> /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	Danfoss / Copeland	Danfoss / Copeland	Danfoss / Copeland	Danfoss / Copeland
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±	1100 kg±	1300 kg±	1500 kg±





## **DANA GROUP OF COMPANIES**

[An ISO 9001 : 2008 Certified Company]

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