

# KRISCOOL

....the new range of high efficiency Water Chillers  
(65 TR to 395 TR)



*Futuristic Designs from*

**cristopia**

A Joint Venture Company of **CIAT** France

# KRISCOOL

## Cristopia's **KRISCOOL**:

These latest generation **Water Cooled and Air Cooled Screw Chillers** are developed based on years of experience and French expertise, to meet demands of Indian & International market for high efficiency products.



Cristopia's **KRISCOOL** range is designed for high efficiency operation over a wide range of operating conditions and is very well suited for operations with brine as well as with Thermal Energy Storage System.

**KRISCOOL's** futuristic design offers single and twin compressor machines with totally independent refrigerant circuits, to provide maximum flexibility.





## FEATURES

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**KRISCOOL** range of Chillers are energy efficient and reliable equipment. These Chillers are designed to minimize energy cost as well as maintenance cost, resulting in unmatched operational cost savings, year after year.

## COMPRESSOR

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**KRISCOOL** Chillers are equipped with latest generation screw compressors. Twin screw compressor with semi-hermetic motor operate on totally independent refrigerant circuits.

## EVAPORATOR

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Multiple circuit Chillers are equipped with Multiple Evaporators allowing reduced chilled water flow and pumping power at reduced machine loads. Additionally, the machines can be designed for optional high chilled water temperature differential resulting in further improved machine efficiency along with reduced pump flow and corresponding consumption to best suit the installation.

## ELECTRONIC EXPANSION VALVE

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The **KRISCOOL** series Chillers are equipped with advanced electronic expansion valves ensuring improved energy efficiency, precise control of temperature and efficient and safe part load operation.

## CONDENSER

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**KRISCOOL** Multiple circuit machines are equipped with multiple independent Condenser circuits allowing reduced Condenser flows at lower machine loads. This coupled with cooling tower fan control results in highly reduced auxiliary consumptions during actual operation.

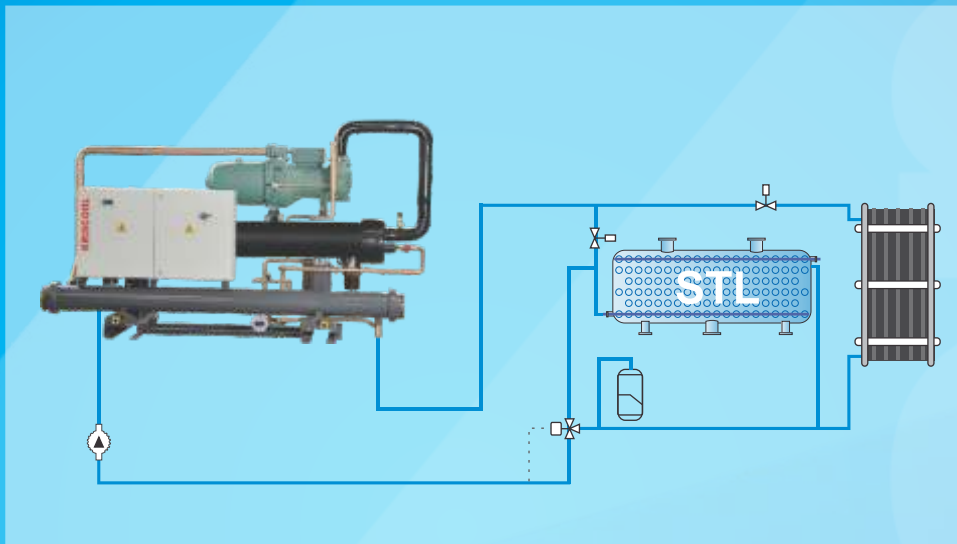
## WIDE OPERATING RANGE

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In today's world order where Environment and rationalization of Energy usage are the topmost priorities, ever increasing number of installations utilize Thermal Energy Storage technique requiring subzero chiller operation.



**KRISCOOL** RANGE OF CHILLERS IS INHERENTLY COMPATIBLE TO WORK AT SUB-ZERO TEMPERATURES AND HENCE SUITABLE WITH THERMAL ENERGY STORAGE AS WELL AS PROCESS REQUIREMENT.



## FREE HOT WATER

The machine is offered with optional De-superheater, for free of cost hot water generation.

## INTELLIGENT CONTROL

KRISCONTROL CRISTOPIA's latest generation intelligent microprocessor based control ensures fully co-ordinated and optimum operation at all conditions with unrivalled precision.

Components are controlled automatically for continuous operation and set conditions maintained.

- **Adaptive Control**

Adjusts to suit any system set-up (Differential on the water leaving, differential on the water entering and differential on the water entering with low temperature thermal storage tank working) and efficiently manage safeties.

- **BMS Communication**

Option available for BMS communication through MODBUS / BACNET / ETHERNET / LON protocol ensuring greater adaptability, remote communication & increased safety.

- **Numerous safety devices**

Water flow control, antifreeze protection, phase inversion protection, discharge temperature control, high and low-pressure protection, and anti short cycle safeguard the chiller and extend its life.



- **Easy to use ergonomic interface**

With an LCD screen that displays operating status, parameter readings, temperature, pressure, operating times and a log menu that records faults, the KRISCONTROL interface makes running your system an easy task.

- **Pump Control**

ON/OFF Control for 2 pumps possible



### **KRISCOOL comes with**

- Continuous Capacity Control,
- Compressor Running Hour Balancing,
- Pro Active Unload for High Discharge Pressure,
- Monthly, Weekly and Hourly operation scheduling possibilities

### **FACTORY MOUNTED INLET/OUTLET HEADERS**

**KRISCOOL** range comes with two factory mounted header options in case of multiple circuit machines.

Option 1: Headers enabling combined operation of 2 circuits along with 2 virtualic connections.

Option 2: Headers enabling independent and separate operation of each circuit along with 4 virtualic connections, enhanced microprocessor features & settings and an additional flow switch.

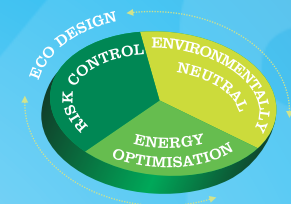
**KRISCOOL's** futuristic component design, machine configuration and safety features ensures maximum reliability in operation. The machines are compact; designed to provide maximum output in minimum space and for easy handling during installation.

# KRISCOOL

**KRISCOOL** range is most environment friendly using minimised charge of HFC refrigerant, well within the approved and accepted international standards.



The precision manufacturing produces a leak proof machine tested to 1 gm/year refrigerant leakage limit, surpassing prevalent world standards.



With our mission of Conservation, Optimization and Economization of available Energy, we continuously strive for delivering excellence through our products, customized innovative project engineering, dedicated project specific management & execution and renowned & well established after sales support.

HIGH PERFORMANCE, LONG SERVICE LIFE, MAXIMUM RELIABILITY ARE THE COMMON DENOMINATORS OF KRISCOOL RANGE.

## SERVICE

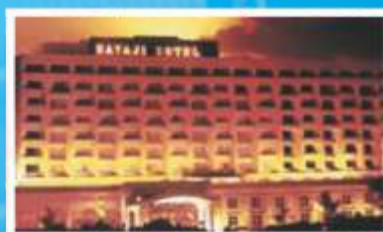
CRISTOPIA after-sales service network is spread throughout India, backed by a strong network of highly trained and experienced field technicians and engineers, to assist the customers in keeping their equipment in smooth operation with perfect running conditions.

As a part of our commitment to complete customer satisfaction, we ensure that our service teams respond to client requests with shortest possible turn around times.





## Our Esteemed Clients







# cristopia

A Joint Venture Company of **CIAT** France

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