



Trusted Cooling Partner

Product
Brochure
Industrial Refrigeration



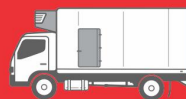
**Cold Room /
Storage**



**Industrial
Refrigeration**



**Commercial
Refrigeration**



**Transport
Refrigeration**



**Ammonia
Refrigeration**

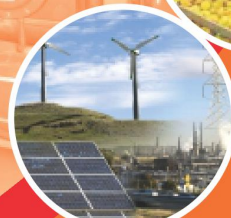


Trusted Cooling Partner

Ice Make is a strong player in the refrigeration arena. Ice Make provides the Industrial & Commercial Refrigeration solutions for every customer's individual needs, since 1993. This Industrial Refrigeration vertical includes different types of Chilling Plants which deliver the chilled water and air that intensively cools the product and process without any risk and less power load and Ice Building Tanks (IBT) applicable in Dairy Industry for quick process in short time with certain limit of power load with capacity of 1,00,000 liters ice formation per day for various application such as Mineral Water, Dairy & Milk Processing, Ice Cream, Food & Beverage, Hotel-Restaurant, Pharmaceuticals, Plastic, Chemical Processing, Renewable Energy and Biological-Research Industries. These cutting edge products are manufactured at class apart, ISO certified plant that are aided with well-developed infrastructure and process to ensure highest quality.

Ice Make is committed to help customers meet the demands of complex prescription for product & process safety and energy efficiency; also to ensure that we offer them competitive pricing, professional advice and innovative design. Our team of highly skilled design engineers and project delivery managers provide key project solutions to enable the fast, effective and reliable installation of any design requirement.

All products are built for performance, reliability and durability, even in the toughest and most difficult conditions.



The Core of **SOLUTION CUSTOMIZATION**

The **customized solution** can be made to ensure that all the **unique desires and business requirements** are satisfied

“Custom solutions are specifically designed to accommodate your business requirements to ensure the final outcome to work as you want.”

Why Ice Make?

We are in the business of exploring new frontiers with innovative ideas in providing complete cooling solutions for total customer satisfaction.



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Ice Make is a leading refrigeration company dealing with various kind of industrial chillers for end to end solutions. We are committed to provide best solution to customers, which fulfill their needs. We have a wide range of air cooled & water cooled chillers. We have an ISO 9001 certified production unit. The range of our chillers is 2 TR to 200 TR.

Ice Make chillers are ideal for various industries like Pharmaceuticals, Plastics, Foods & Beverages, Dairy & Milk Processing, Chemical Industries etc.



Chilling Plant Application



Dairy & Beverages Applications



Chemical Industries



Pharmaceutical



Food Industries



Renewable Energy Industries



Process Industries



Mineral Water Applications



Plastic Process Industries

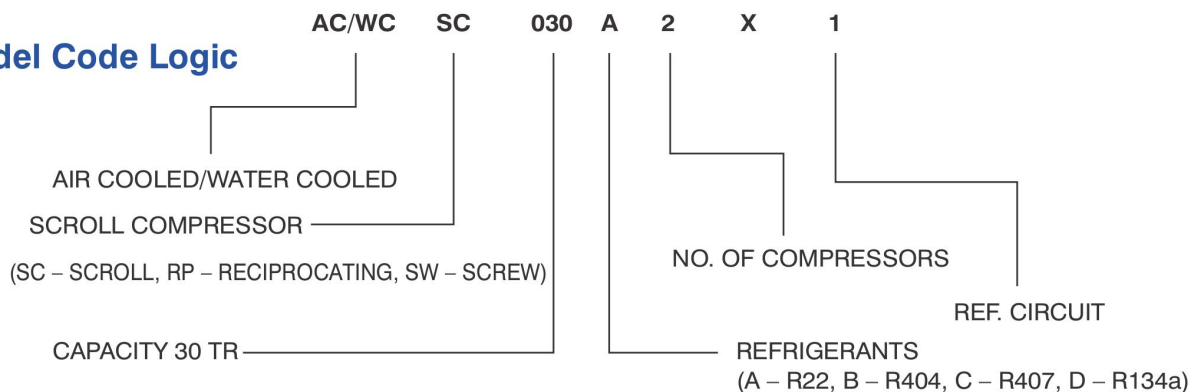


Paint Industries



Oil and Gas Industries

Model Code Logic



- No. of Comp. per Ref. Circuit : For Ex. 2x1 – Double Comp. per Single Circuit, 2x2 – Double Comp. per Double Circuit
- All Chillers are Indoor Type

Table - 1 (Scroll Chiller – Air Cooled)

Sr. No.	Model No.	*Capacity (In TR)	No of Comp		Water No of Ckt	Chiller Pump		Dimension (L X W X H) in Inch
						Max Flow In LPM	Max Pressure In Bar	
1	ACSC005A1X1	5	1	X	1	67	4.8	58 X 26 X 46
2	ACSC008A1X1	8	1	X	1	310	2	87 X 38 X 60
3	ACSC010A1X1	10	1	2	1	310	2	87 X 38 X 60
4	ACSC012A1X1	12	1	2	1	235	2.8	87 X 38 X 60
5	ACSC017A1X1	17	1	2	1	320	2.8	102 X 51 X 84
6	ACSC022A1X1	22	1	2	1	320	2.8	102 X 51 X 84
7	ACSC026A1X1	26	1	2	1	450	2.5	102 X 51 X 84
8	ACSC034A2X1	34	X	2	1	600	2.4	169 X 57 X 81
9	ACSC044A2X1	44	X	2	1	600	2.4	169 X 57 X 81
10	ACSC052A2X1	52	X	2	1	900	2.6	169 X 57 X 81

*Capacity rated on the base of Refrigerant R-22, water inlet temp. 17°C & water outlet temperature 12°C, Ambient Temperature +43°C.

Table – 2 (Scroll Chiller – Water Cooled)

Sr. No.	Model No.	*Capacity (In TR)	No of Comp		Water No of Ckt	Chiller Pump		Dimension (L X W X H) in Inch
						Max Flow In LPM	Max Pressure In Bar	
1	WCSC005A1X1	5	1	X	1	67	4.8	58 X 26 X 46
2	WCSC008A1X1	8	1	X	1	310	2	58 X 26 X 46
3	WCSC10A1X1	10	1	X	1	310	2	80 X 37 X 40
4	WCSC012A1X1	12	1	2	1	310	2	80 X 37 X 40
5	WCSC014A1X1	14	1	2	1	235	2.8	80 X 37 X 40
6	WCSC019A1X1	19	1	2	1	320	2.8	89 X 42 X 46
7	WCSC024A1X1	24	1	2	1	320	2.8	89 X 42 X 46
8	WCSC029A1X1	29	1	2	1	450	2.5	89 X 42 X 46
9	WCSC038A2X1	38	X	2	1	600	2.4	112 X 49 X 51
10	WCSC048A2X1	48	X	2	1	600	2.4	112 X 49 X 51
11	WCSC058A2X1	58	X	2	1	900	2.6	117 X 53 X 54

*Capacity rated on the base of Refrigerant R-22, water inlet temp. 17°C & water outlet temperature 12°C, Ambient Temperature +43°C. Condenser water inlet temperature 30 – 32°C.

Table – 3 (Screw Chiller – Air Cooled)

Sr. No.	Model No.	*Capacity (In TR)	No of Comp	No. of Water Circuit	Chiller Pump		Dimension (LXWXH) in Inch
					Max Flow in LPM	Max Pressure in Bar	
1	ACSW035A1X1	35	1	1	600	2.4	140 X 83 X 74
2	ACSW045A1X1	45	1	1	900	2.6	140 X 83 X 74
3	ACSW060A1X1	60	1	1	900	2.6	184 X 83 X 74
4	ACSW070A1X1	70	1	1	900	2.6	184 X 83 X 74
5	ACSW080A1X1	80	1	1			
6	ACSW090A1X1	90	1	1			

*Capacity rated on the base of Refrigerant R-22, water inlet temp. 17°C & water outlet temperature 12°C, Ambient Temperature +43°C.

Table – 4 (Screw Chiller – Water Cooled)

Sr. No.	Model No.	*Capacity (In TR)	No of Comp	No. of Water Circuit	Chiller Pump		Dimension (LXWXH) in Inch
					Max Flow in LPM	Max Pressure in Bar	
1	WCSW035A1X1	35	1	1	600	2.4	118 X 57 X 57
2	WCSW045A1X1	45	1	1	900	2.6	118 X 57 X 57
3	WCSW060A1X1	60	1	1	900	2.6	118 X 57 X 65
4	WCSW070A1X1	70	1	1	900	2.6	118 X 57 X 65
5	WCSW080A1X1	80	1	1	1750	2.5	118 X 57 X 65
6	WCSW090A1X1	90	1	1	1750	2.5	118 X 57 X 65
7	WCSW100A1X1	100	1	1	1750	2.5	118 X 61 X 67
8	WCSW115A1X1	115	1	1	1750	2.5	130 X 61 X 67
9	WCSW130A1X1	130	1	1	2000	2.9	130 X 61 X 67

*Capacity rated on the base of Refrigerant R-22, water inlet temp. 17°C & water outlet temperature 12°C, Ambient Temperature +43°C. Condenser water inlet temperature 30 – 32°C

Table – 5 (Glycol Chiller - Air Cooled)

Sr. No.	Model No.	*Capacity (In TR)	Refrigerant				No. of Comp. Per Ref. Circuit		
			A	B	C	D	No. of Comp. Per Ref. Circuit		
			R22	R404	R407	R134a	Comp. Qty	Ref. Cct.	
01	ACRP01.5B1x1	1.5	OP	P	OP	OP	1	x	1
02	ACRP002B1x1	02	OP	✓	OP	OP	1	x	1
03	ACRP003B1x1	03	OP	✓	OP	OP	1	x	1
04	ACRP004B1x1	04	OP	✓	OP	OP	1	x	1
05	ACRP005B1x1	05	OP	✓	OP	OP	1	x	1
06	ACRP007B1x1	07	OP	✓	OP	OP	1	x	1
07	ACRP009B1x1	09	OP	✓	OP	OP	1	x	1

*Capacity rated on the base of Refrigerant R-404, glycol inlet temp.-15°C & glycol outlet temperature -20°C, Ambient Temperature +43°C

Table – 6 (Glycol Chiller – Water Cooled)

Sr. No.	Model No.	*Capacity (In TR)	Refrigerant				No. of Comp. Per Ref. Circuit			Condenser Water Flow rate (LPM)
			A	B	C	D	No. of Comp. Per Ref. Circuit			
			R22	R404	R407	R134a	Comp. Qty	Ref. Cct.		
01	WCRP002B1x1	02	OP	✓	OP	OP	1	x	1	110
02	WCRP003B1x1	03	OP	✓	OP	OP	1	x	1	210
03	WCRP004B1x1	04	OP	✓	OP	OP	1	x	1	250
04	WCRP005B1x1	05	OP	✓	OP	OP	1	x	1	350
05	WCRP07.5B1x1	7.5	OP	✓	OP	OP	1	x	1	425
06	WCRP009B1x1	09	OP	✓	OP	OP	1	x	1	440
07	WCRP011B1x1	11	OP	✓	OP	OP	1	x	1	650

*Capacity rated on the base of Refrigerant R-404, glycol inlet temp. -15°C & water glycol temperature -20°C, Ambient Temperature +43°C, Condenser water inlet temperature 30 - 32°C.

• Glycol Chiller outlet temperature ranging from -10°C to -40°C, For other temperature, higher ambient, other capacity please refer to Ice Make sales team.

Table – 7 (Mineral Water Chiller – Air Cooled (Online / Offline)

Sr. No.	Model No.	*Capacity (In TR)	No of Comp		Water No of Ckt	Chiller Pump		Dimension (L X W X H) in Inch
						Max Flow In LPM	Max Pressure In Bar	
1	ACRP002A1X1	2	1	X	1	45	3	48 X 22 X 44
2	ACRP003A1X1	3	1	X	1	45	3	48 X 22 X 44
3	ACSC05A1X1	5	1	X	1	67	4.8	58 X 26 X 45

Controller Options

(1) Microprocessor Based Controller For Scroll / Reciprocating Chiller



The LCD screen shows description of the controller parameters, and any other information concerning the controlled variables.

Display Size : 2 line display with 16 characters

Liquid Crystal Display (LCD)

(2) PLC Based Controller For Screw Chiller

- Its programmable logic controller that is fully compatible (hardware and software), which includes programmable controllers, user terminals, gateways, communication devices and remote management devices
- Self identification functions its shows history of trips with date and time as well as cause of trips.



3) Optional Controller Features

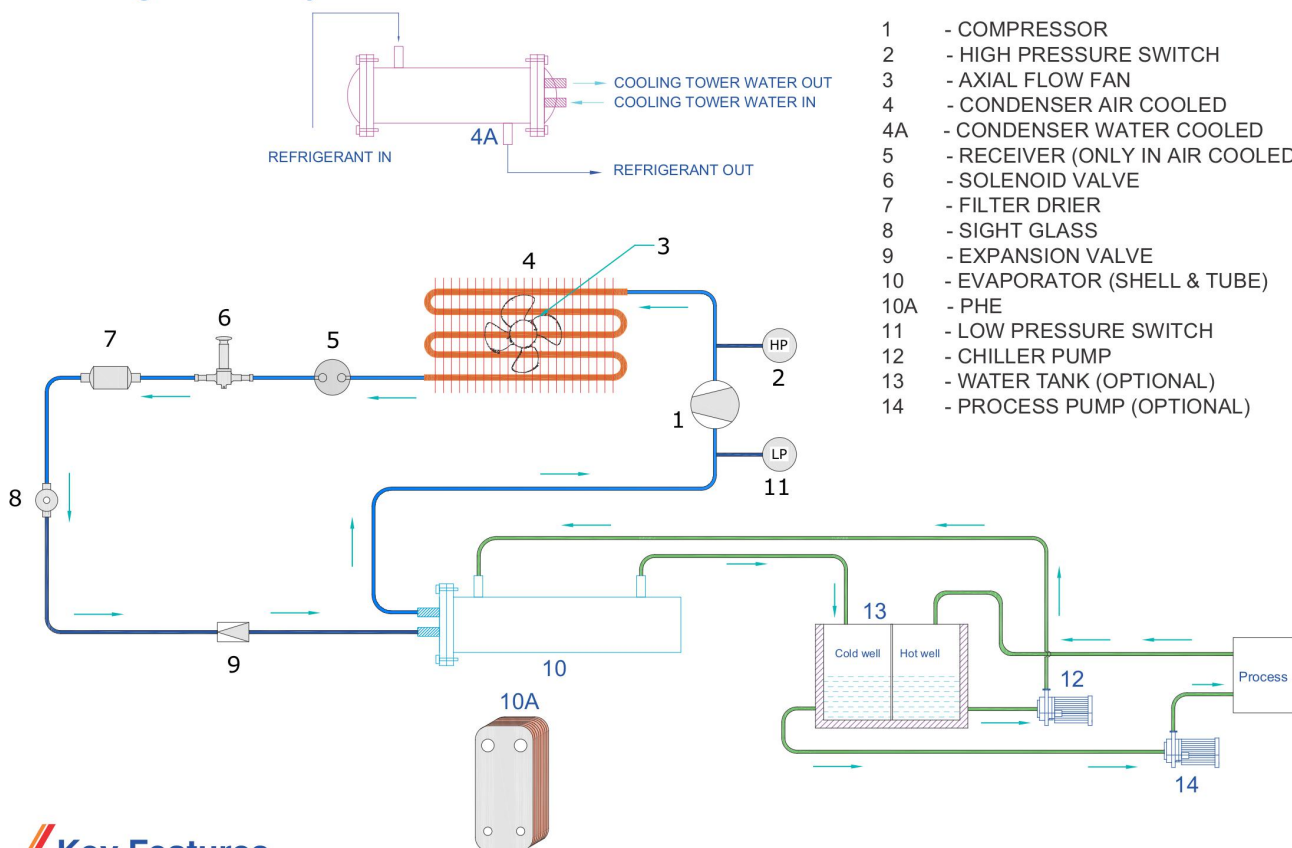
- Touch Screen display
- Data logging Facility
- Modbus (RS 485) / Ethernet communication
- Remote Control Facility

System Safety features (Trip Signals)

- High Pressure
- Low Pressure
- High Voltage
- Low Voltage
- Phase Failure
- Chiller Pump Overload
- Compressor Overload
- Condenser Fan Overload
- Condenser Pump Overload
- Low Water Flow in Chiller
- Low Water Flow in Condenser
- Single Phase Prevent
- Anti-freeze Trip

Note : Controller informs the user of a fault condition via a Buzzer and an Alarm Relay or by Message on display

Refrigeration Cycle



Key Features

- Hermetic Sealed / Semi Hermetic Scroll, Reciprocating, Screw Compressor with compressor protection facilities
- Shell & Tube Evaporator : Imported Inner grooved copper tube with higher surface area and Higher fouling factor
- Shell & Tube Condenser : Imported low Inner Grooved and High outer grooved copper tube with higher surface area and higher fouling factor
- Fin & Tube Condenser : imported Inner grooved copper tube and alluminium fin with high surface area for high ambient condition
- Availability of Customized Solution
- Eco-friendly Refrigerant
- Wide Range of Water/Glycol Temperature (+20°C to -40°C)
- Modular Design
- Easy operation & less Maintenance
- Compact in size
- **All Scroll Chiller With VFD (Inverter) are available**
 - Power saving
 - Smooth running in operation
 - Higher refrigerant side COP
 - Precise temperature control

Dimple Plate in Tank Type Chiller

Evaporator	: Dimple Plate Type (S.S plate)
Condenser	: Air-Cooled/Water-Cooled
Water Temperature Range	: +2°C to +4°C
Application	: Food & Bakery Industry
Tank M.O.C	: Inner S.S 304 & Outer G.I.PP/S.S 304
Insulation	: PUF





Air-Cooled V Condenser Screw Chiller



Air-Cooled Screw Chiller



Air-Cooled Scroll Chiller



Online Chilling Plant



Industrial Chilling Plant



Water-Cooled Glycol Chiller



Water-Cooled Screw Chiller



Water-Cooled Screw Chiller



Water-Cooled Scroll Chiller



Dimple Plate Chiller



Water Tank

Water Tank Features

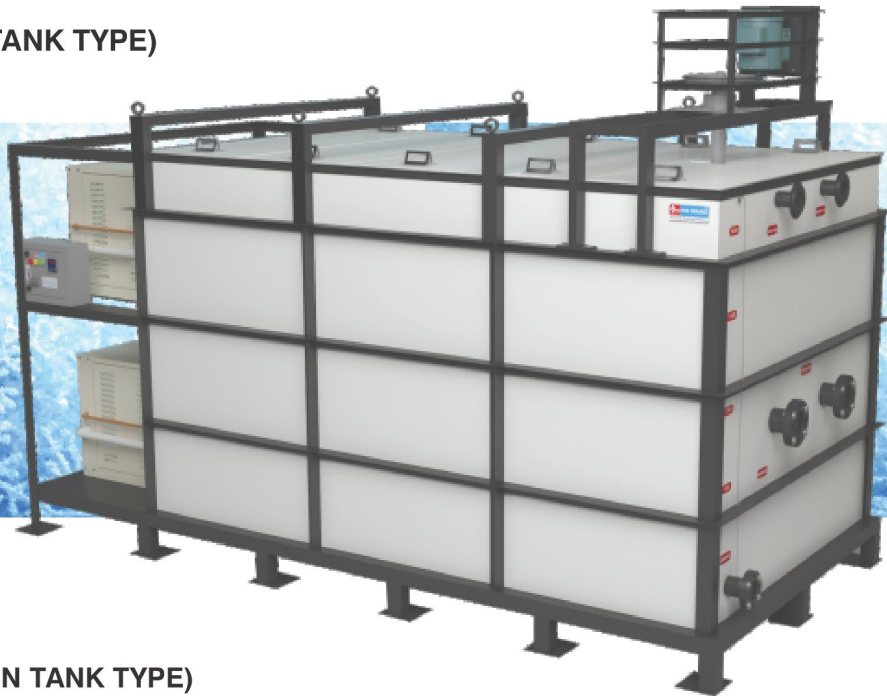
- Capacity Range : 100 Ltr to 25000 Ltr
- High grade PUF insulation with 40 Kg/m³ Density and 55 – 60 mm thickness
- 24 Hour temperature maintain within $\pm 1^{\circ}\text{C}$
- Material : Inner : SS 304 / MS
Outer : GIPP / SS 304
- Tank Including with Over flow, Drain and Make up water with float ball valve

Sr. No.	Capacity (In Ltr)	Outer Dimension (LXWXH) in Inch
1	250	35 X 29 X 27
2	500	45 X 35 X 32
3	750	65 X 35 X 32
4	1000	65 X 35 X 39
5	2000	93 X 45 X 39
6	4000	90 X 64 X 58

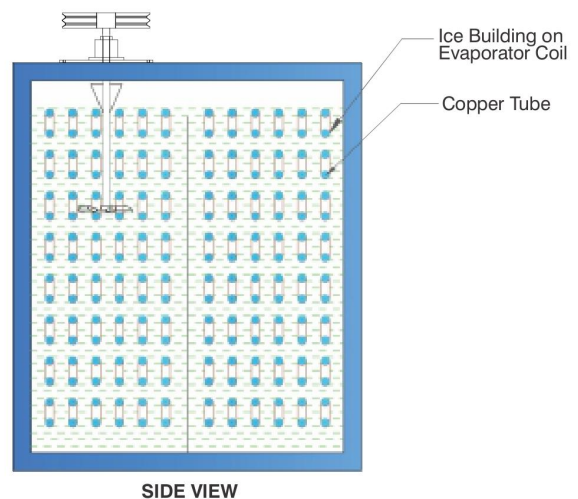
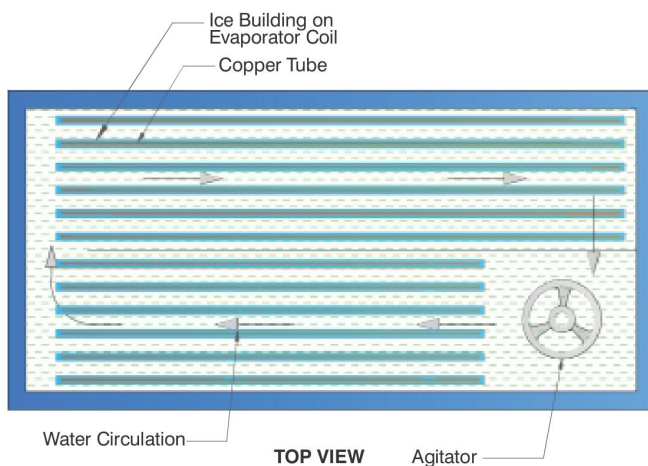
IBT is a system, which stores energy in the form of ICE.
It is applicable in Dairy Industry for quick process in short time with certain limit of power load.

NO NEED OF CIVIL & FABRICATION WORK AT CUSTOMER SITE
EASY TO LIFT & SHIFT | 40% ENERGY EFFICIENT | BETTER INSULATION

(IBT - COIL IN TANK TYPE)



(IBT - COIL IN TANK TYPE)



Advantage

- Requires less connected power load
- The ice water intensively cools the product without any risk
- Power supply is not required once ice formation is completed
- No requirement of Cooling Tower and water supply (For Air-Cooled type)
- Wide capacity with storage tank upto 1,00,000 Ltr. / 33,000 KG ice formation per day
- Cooling energy storage capacity upto 900 TR/Day

Material of Construction

Outer:

- A : Pre-coated GI sheet with PVC film thickness 0.5mm
- B : S.S. sheet, grade 304, thickness 0.5mm.

Inner:

- A : M.S. Sheet Thickness 2.4 to 6 mm with epoxy paint.
- B : S.S. sheet, grade 304, Thickness 0.8 to 1.6mm.

Buckets:

M.S. angle & channel 65x5 mm to 100x8 mm with paint.

PUF Insulation:

The tank has 80mm insulation, which help to stop energy loss & consumes lesser power.

Protection & Control accessories:

- Large graphic LCD screen
- Finger-touch menu with simple controls
- Continuous, accurate display of each action

SR NO.	MODEL	TANK CAPACITY	REFRIGERATION UNIT CAPACITY TR (TON REFRIGERATION)	UNIT CAPACITY (TR) NO. OF UNITS	STIRRER SYSTEM TYPE	ICE PRODUCE CAPACITY IN KG (AFTER 20 Hr. WORKING)	COOLING STORAGE CAPACITY IN TR (TON REFRIGERATION) (At 2°C)	BODY SIZE (INCHES)	CONNECTED POWER LOAD(kw)
		Ltr.							
1	IBT-501.5	500	1.5	1.5 x 1	Pump	412.5	12	45 x 35 x 39	2.4
2	IBT-1002	1000	2	2 x 1	Pump	550	17	65 x 35 x 39	2.78
3	IBT-1003	1000	3	3 x 1	Agitator	825	24	65 x 35 x 39	3.8
4	IBT-2003	2000	3	3 x 1	Agitator	825	26	93 x 45 x 39	3.8
5	IBT-3003	3000	3	3 x 1	Agitator	825	28	83 x 59 x 69	3.8
6	IBT-2004	2000	4	2 x 2	Agitator	1100	34	93 x 45 x 39	5.8
7	IBT-3004	3000	4	2 x 2	Agitator	1100	35	83 x 59 x 69	5.8
8	IBT-3005	3000	5	5 x 1	Agitator	1375	43	83 x 59 x 69	6.2
9	IBT-4005	4000	5	5 x 1	Agitator	1375	44	91 x 71 x 69	6.2
10	IBT-4006	4000	6	3 x 2	Agitator	1650	52	91 x 71 x 69	7.8
11	IBT-6006	6000	6	3 x 2	Agitator	1650	55	130 x 71 x 69	7.8
12	IBT-6010	6000	10	5 x 2	Agitator	2750	85	130 x 71 x 69	12.2
13	IBT-8010	8000	10	5 x 2	Agitator	2750	89	170 x 71 x 69	12.2
14	IBT-10010	10000	10	5 x 2	Agitator	2750	92	205 x 71 x 70	12.2
15	IBT-10015	10000	15	5 x 3	Agitator	4125	130	205 x 71 x 70	18.6
16	IBT-12015	12000	15	5 x 3	Agitator	4125	133	248 x 71 x 70	18.6
17	IBT-15020	15000	20	5 x 4	Agitator	5500	176	264 x 81 x 70	24.8
18	IBT-18020	18000	20	5 x 4	Agitator	5500	181	264 x 79 x 83	24.8
19	IBT-20026	20000	26	12.8 x 2	Agitator	7150	229	264 x 84 x 86	27.2
20	IBT-25038	25000	38	12.8 x 3	Agitator	10450	328	264 x 86 x 103	41
21	IBT-28038	28000	38	12.8 x 4	Agitator	10450	333	264 x 95 x 103	41

Cold Room / Storage

- Cold Room PUF Panels (Discontinuous Type) 60, 80, 100, 125 & 150 mm
- Cold Room Door
- Solar Cold Room
- Glass Door Display Chiller
- Condensing Unit (Air/Water Cooled)
- Evaporator Unit
- Control Panel for Cold Room
- Curd Incubation Chamber
- Ripening Chamber
- Pre-Cooling Chamber
- Blast Freezer & Chiller

Ammonia Refrigeration

- Turnkey Projects for Cold Stores
- Water Chillers for Dairy
- Glycol Chillers for milk deep chilling for dairy
- Glycol chillers for beverage plants
- Glycol chillers for brewery plants
- Water Chillers for Pharma
- LP Receivers with Ammonia Pumps for retrofit plants
- Ice Accumulating Coils
- Atmospheric Condensers

Commercial Refrigeration

- Ice Cream Mix Plant
- Batch Pasteurizer
- Ageing Vat
- Bulk Milk Chiller
- Ice Candy Production Machine
- Ice Cream Hardener (Static/Tunnel Type)
- Mini Blast Freezer & Chiller
- Heat Pump Food Dehydrator

Transport Refrigeration

- Refrigerated Vehicle (GRP)
- Refrigerated Van - Eutectic (GRP)
- Bunk House
- Dry insulated container (GRP)

Dairy Processing Plant

- Turnkey Projects for Dairy Processing
- Milk Pasteurizer
- Milk Processing Plant
- Paneer Processing Plant
- Curd Processing Plant
- Vertical / Horizontal Milk Storage Tank
- Auto / Semi Auto CIP System
- Butter Churner
- Multi Purpose Cattle
- Butter Melting Vat

OUR VALUED CLIENTS



- Head Office & Manufacturing Plant-I, DantaliGandhinagar, Gujarat
- Manufacturing Plant-II, Vamaj, Gujarat
- Manufacturing Plant-III, Chennai, Tamilnadu
- Branch Offices, Dealers & Associates and Company Representatives



Export In Other Country





WEBSITE



CATALOGUE



FEEDBACK

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Commercial & Industrial Refrigeration Equipment Manufacturer & Exporter

An ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 certified Company

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