



Designed for maximum productivity & high efficiency



เครื่องผลิตน้ำแข็งหลอด Ice Tech

ประสิทธิภาพสูง ผลิตได้เต็มจำนวนกำลังผลิต

Temp Tech is the Leader in Industrial Refrigeration



Designed for maximum productivity & high efficiency

iTube ice maker is suitable for ice production factory as well as for food processing plants that need their own sanitation ice production for internal use. All components yield safety and efficient.

Features

- Capacities offered : 0.25-80 tpd of ice or more.
- Finished from factory. Machine can be used immediately. Simply connect the water system and electrical system.
- Transportation is convenient.
- Design/Engineering simplicity.
- Compressor to cooling all the time event while defrosting. And Hi discharge is not very high up, to save energy.
- High durability, minimum maintenance.
- High energy efficiency.
- Prompt service.

Machine components

- All parts contacting with water are made of stainless steel.
- Refrigerant : Freon , Ammonia.
- Cutter : Stainless steel cutters driven by gear motors are uniquely designed to produce both cylindrical and crushed ice simply by reversing the motor of cutter using a switch on the control panel that control this function.
- Cutter Motors: Built with heavy duty design to give years of reliable ice sizing-service.
- Water pumps: Large enough to circulate many times the quantity of water to be frozen producing crystal clear ice crystals.
- Heavy duty compressor.
- "i-Con" PLC controlled with graphic display, especially with the Tube Ice programe. To complete the work.
- Easy to adjust ice thickness by changing the time of ice.

Advantages

- Highest electrical efficiency
- Lowest operating cost
- Lowest space
- Minimal maintenance
- Overall lowest investment: Net present value is greater than flake or block ice plant.
- Quality ice: The quality of ice is actually better than the water it is made since the impurities present in the water are moved to the center of the ice tube and discharged during defrost ensuring that clean, crystal ice tubes are formed.
- Labour cost savings: Due to minimal manpower expense related to ice crushing and wastage along with accurate and consistent weight the overall labour expenses are significantly lower



ประสิทธิภาพสูงผลิตได้เต็มจำนวนกำลังการผลิต

เครื่องผลิตน้ำแข็งหลอด iTube ออกแบบเพื่อรองรับการใช้งานในโรงงานผลิตน้ำแข็ง รวมถึงโรงงานแปรรูปอาหารที่ต้องการมีเครื่องผลิตน้ำแข็งที่สะอาดถูกสุขอนามัย และให้กำลังการผลิตได้ตามที่ต้องการ

ลักษณะเฉพาะ

- สามารถผลิตน้ำแข็งที่สะอาดได้ตั้งแต่ 0.25-80 ตันต่อวัน
- ประกอบสำเร็จรูปจากโรงงาน พร้อมแท่นฐาน ติดตั้งง่าย เพียงต่อระบบน้ำและระบบไฟฟ้าเข้ากับเครื่องก็สามารถใช้งานได้ทันที
- เคลื่อนย้าย ขนส่ง ได้ง่าย สะดวก
- ออกแบบให้ใช้งานง่าย
- คอมพิวเตอร์ ทำงานให้ความเย็นตลอดเวลา แม้ขณะละลายน้ำแข็งออก และ ขณะเดินเครื่อง แรงดันทางส่งไม่สูงมาก เพื่อประหยัดพลังงานไฟฟ้า
- ทนทาน การบำรุงรักษาต่ำ
- ให้กำลังการผลิตเต็มจำนวนที่ต้องการ
- บริการหลังการขายที่รวดเร็ว

ส่วนประกอบหลัก

- ส่วนที่สัมผัสกับน้ำแข็งผลิตด้วยสแตนเลสสตีล สามารถผลิตน้ำแข็งที่สะอาดถูกสุขอนามัยสำหรับการบริโภคได้ หมดปัญหาเรื่องสนิม และล้างทำความสะอาดง่าย
- ใช้สารทำความเย็นฟรีออน , แอมโมเนีย
- มีตัดน้ำแข็ง ผลิตจากสแตนเลสสตีล สามารถตัดน้ำแข็งได้ทั้งแบบ น้ำแข็งหลอด และน้ำแข็งบด
- มอเตอร์ชุดมิดดิล ออกแบบให้มีความแข็งแรง ทนทาน
- บั๊มน้ำขนาดใหญ่
- คอมพิวเตอร์ แข็งแรง ทนทาน มีอายุการใช้งานยาวนาน
- ควบคุมการทำงานด้วยPLC โดยสั่งงานผ่านทางจอแสดงผล พร้อมโปรแกรมควบคุมเครื่องทำน้ำแข็งโดยเฉพาะ เพื่อการทำงานโดยสมบูรณ์แบบ
- ปรับเปลี่ยน ขนาดความโตของรูในน้ำแข็งหลอด (ความหนา บาง) ได้ง่ายโดยการเปลี่ยนรอบระยะเวลาการทำน้ำแข็งหลอด

คุณประโยชน์

- ประหยัดไฟสูงสุด
- ต้นทุนการผลิตต่ำ
- ประหยัดเวลา และงบประมาณในการก่อสร้าง
- การบำรุงรักษาต่ำ เพราะออกแบบให้เหมาะสมกับการใช้งาน
- ให้น้ำแข็งที่มีคุณภาพ สะอาด ถูกสุขอนามัย น้ำแข็งที่ผลิตได้จะมีคุณภาพดีกว่าน้ำที่ใช้ในการผลิตน้ำแข็ง เนื่องจากสิ่งเจือปนต่างๆที่อยู่ในน้ำจะเคลื่อนที่เข้าสู่ศูนย์กลางของหลอดน้ำแข็งและถูกขับออกระหว่างทำการละลาย จึงมั่นใจได้ใน

ความสะอาด



iTube - Commercial Unit



Tube Ice - Commercial Unit (Air Cooled Electrical supply 380 volt,3 Ph, 50Hz.)

Model	Ice Capacity (Kg/Day.)	Power (Kw.)	Max. Current (A.)	Dimension (mm.)					Weight (Kg.)
				A	B	C	h1	h2	
Ice size Ø 16mm x L30 mm.(Approx.) /R22 / R404a									
TIC-S027	270	1.88	3.17	1,000	900	1,800	650	1,150	200
TIC-S045	450	2.35	3.97	1,000	900	2,100	650	1,450	250
TIC-S057	570	2.85	4.81	1,000	900	2,300	650	1,650	285
TIC-S080	800	4.09	6.9	1,000	1,000	2,100	650	1,450	360
TIC-S100	1,000	5.34	9.02	1,000	1,000	2,300	650	1,650	420
TIC-S130	1,300	7.51	12.67	1,200	1,100	2,300	650	1,650	550
TIC-S150	1,500	7.46	12.59	1,200	1,200	2,300	650	1,650	625
TIC-S180	1,800	9.06	15.29	1,200	1,200	2,300	650	1,650	650
TIC-S200.2	2,000	10.42	17.58	1,500	1,200	2,300	650	1,650	700
Ice size Ø 38mm x L30 mm.(Approx.) /R22/R404a									
TIC-L041	410	2.35	3.97	1,000	900	2,300	650	1650	260
TIC-L052	520	2.85	4.81	1,000	900	2,100	650	1,450	300
TIC-L073	730	4.09	6.9	1,000	1,000	2,300	650	1650	360
TIC-L105	1,050	5.83	9.84	1,000	1,000	2,300	650	1,650	420
TIC-L120	1,200	7.51	12.67	1,200	1,100	2,300	650	1,650	550
TIC-L130	1,300	7.46	12.6	1,200	1,100	2,300	650	1,650	570
TIC-L190.2	1,900	9.56	16.14	1,500	1,200	2,300	650	1,650	700
TIC-L210.2	2,100	11.42	19.27	1,500	1,200	2,300	650	1,650	720

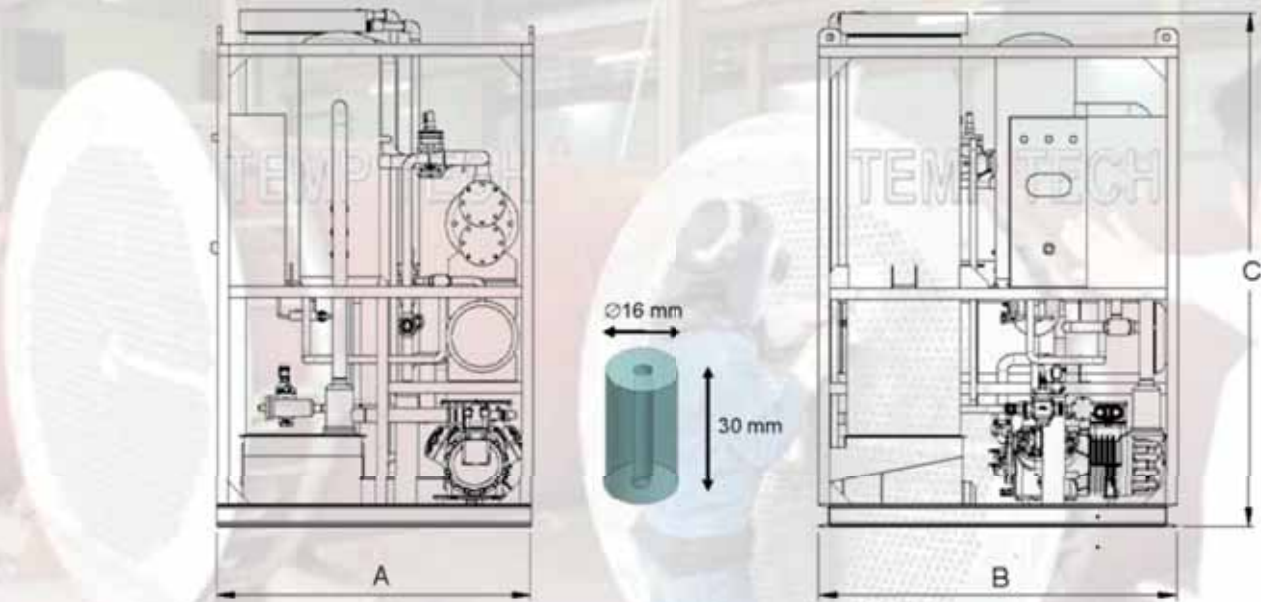
Remark:

: Ice capacity based on 30°C Ambient.

: Model for electric supply 380/440 volt, 3PH, 50/60Hz, Other supply please contact factory.

: Said data of equipment is considered to be developed without notify.

iTube Self Contained Unit

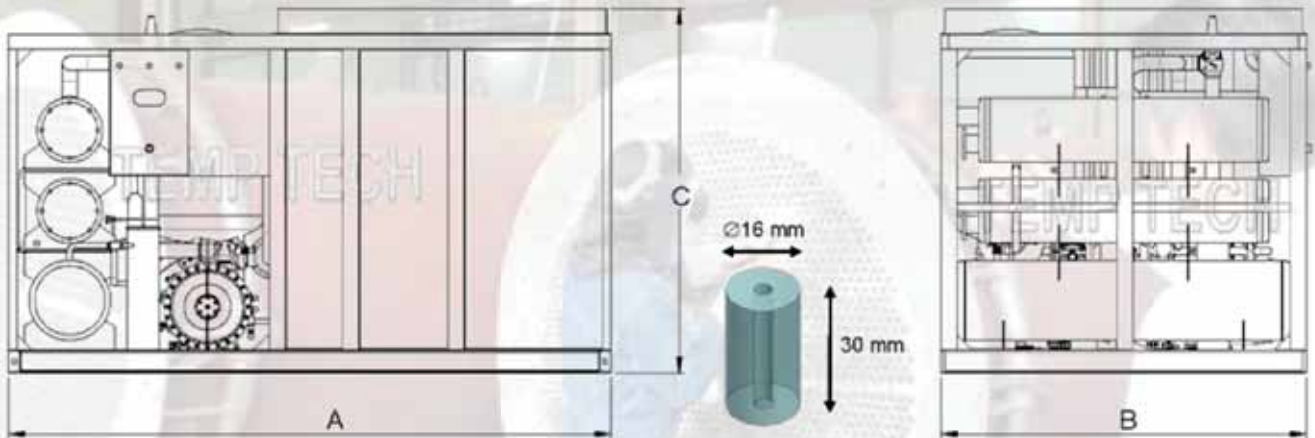


ICE TECH® - Ice Tube dia.16mm				TIB-Sxxx.x			
ITEM				S035	S055	S085	S120.2
Refrigeration System				R22			
Ice Capacity	30°C inlet water	Ton / Day		3.5	5.5	8.5	12
Compressor	Motor	Kw		11	18.5	26	37.0
	Type			Reciprocating/Semihermetic			
Tube ice freezer	Freezer	Cutter motor	Kw	0.18	0.37	0.37	0.74
		Pump motor	Kw	0.36	0.36	0.75	0.75
Water cooled condenser & receiver	Cooling tower	Model	RT	20	30	40	60
		Fan motor	Kw	0.37	0.75	0.75	1.1
	Pump	Motor	Kw	1.1	1.1	1.5	2.2
	Receiver	Capacity	litre	71	115	151	250
Dimension	A	Width	mm.	1,400	1,400	1,400	2,850
	B	Length	mm.	1,600	1,600	1,600	2,300
	C	Height	mm.	2,300	2,300	2,300	2,300
Approx. weight	Shipped	Kgs		1,000	1,300	1,600	2,300
	Operating	Kgs		1,200	1,500	1,900	2,700

Remark:

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- : Model for electric supply 380/440 volt, 3PH, 50/60Hz, Other supply please contact factory.
- : Other ice capacity are available,. Please contact factory.
- : Ammonia refrigerant are also available. Please contact factory.
- : Said data of equipment is considered to be developed without notify.

iTube Self Contained Unit

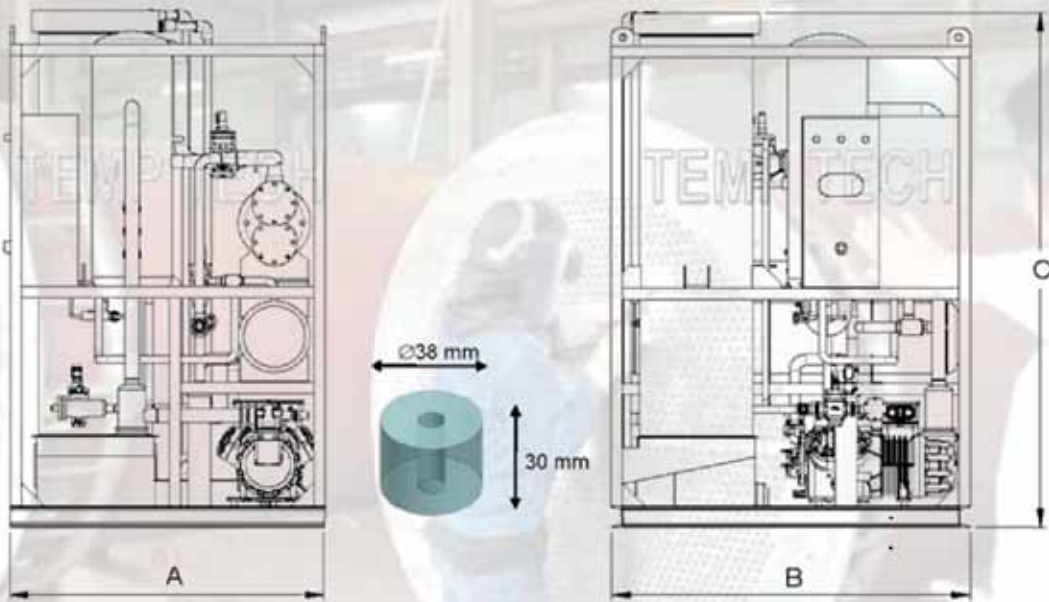


ICE TECH [®] - Ice Tube dia.16mm				TIB-Sxxx.x				
ITEM				S150.2	S200.4	S250.4	S300.4	S350.4
Refrigeration System				R22				
Ice Capacity	30°C inlet water	Ton / Day	15	21	26	30	35	
Compressor	Motor	Kw	45	60	67	82	93	
	Type		Screw/Semihhermetic					
Tube ice freezer	Freezer	Cutter motor	Kw	0.74	1.5	1.5	1.5	1.5
		Pump motor	Kw	1.5	1.5	1.5	2.2	2.2
Water cooled condenser & receiver	Cooling tower	Model	RT	60	80	100	125	150
		Fan motor	Kw	1.1	1.5	1.5	1.5	2.2
	Pump	Motor	Kw	2.2	2.2	3.0	5.5	5.5
	Receiver	Capacity	litre	250	565	565	565	565
Dimension	A	Width	mm.	2,950	3,550	3,550	3,750	3,750
	B	Length	mm.	2,300	2,300	2,300	2,300	2,300
	C	Height	mm.	2,300	2,300	2,300	2,300	2,300
Approx. weight	Shipped	Kgs	2,600	4,000	4,100	4,600	4,700	
	Operating	Kgs	3,100	4,900	5,000	5,600	5,700	

Remark:

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iTube Self Contained Unit

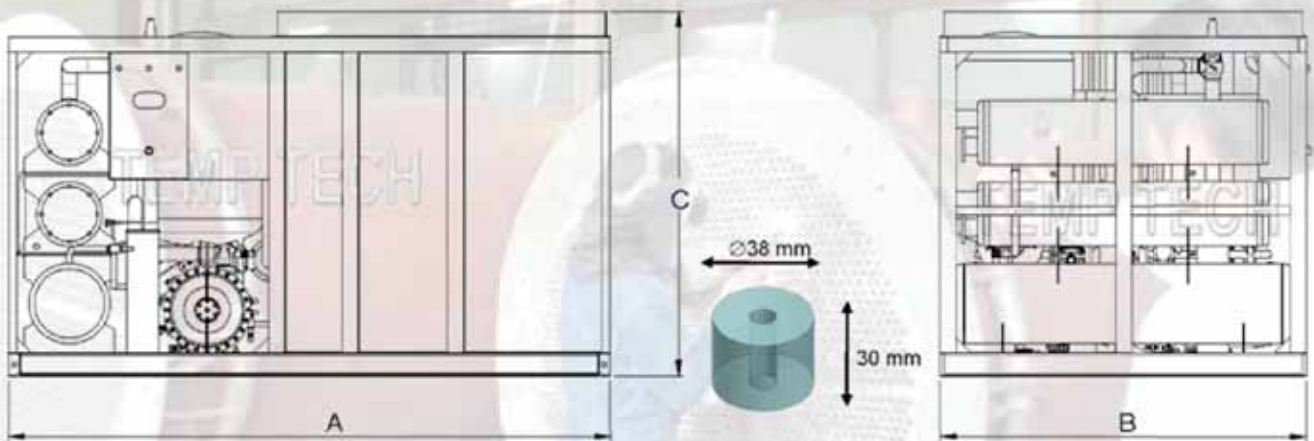


ICE TECH [®] - Ice Tube dia.38mm				TIB-Lxxx.x		
ITEM				L035	L055	L070
Refrigeration System				R22		
Ice Capacity	30°C inlet water	Ton / Day	3.5	5.5	7	
Compressor	Motor	Kw	15	22	26	
	Type		Reciprocating/Semihermetic			
Tube ice freezer	Freezer	Cutter motor	Kw	0.37	0.37	0.55
		Pump motor	Kw	0.37	0.37	0.37
Water cooled condenser & receiver	Fan	Fan motor	Kw	0.37	0.75	0.75
	Pump	Motor	Kw	1.1	1.1	1.5
	Receiver	Capacity	litre	115	151	188
Dimension	A	Width	mm.	1,400	1,400	1,400
	B	Length	mm.	1,600	1,600	1,600
	C	Height	mm.	2,300	2,300	2,300
Approx. weight	Shipped	Kgs	1,200	1,400	1,600	
	Operating	Kgs	1,400	1,700	2,000	

Remark:

- : Ice capacity based on 30°C Ambient.
- : Model for electric supply 380/440 volt, 3PH, 50/60Hz, Other supply please contact factory.
- : Other ice capacity are available,. Please contact factory.
- : Ammonia refrigerant are also available. Please contact factory.
- : Said data of equipment is considered to be developed without notify.

iTube Self Contained Unit



ICE TECH [®] - Ice Tube dia.38mm				TIB-Lxxx.x					
ITEM				L100.2	L150.2	L200.4	L300.4	L400.3	L500.4
Refrigeration System				R22					
Ice Capacity	30°C inlet water	Ton / Day	10	15	21	30	39.5	51	
Compressor	Motor	Kw	37	59.7	67	104	119	157	
	Type		Screw/Semihermetic						
Tube ice freezer	Freezer	Cutter motor	Kw	0.75	1.1	1.5	2.2	1.65	2.2
		Pump motor	Kw	0.75	1.5	1.5	1.5	2.2	3
Water cooled condenser & receiver	Fan	Fan motor	Kw	1.1	1.5	1.5	2.2	2.2	4
	Pump	Motor	Kw	1.5	2.2	3.0	5.5	5.5	7.5
	Receiver	Capacity	litre	250	318	393	565	565	817
Dimension	A	Width	mm.	2,850	2,950	3,550	5,050	5,350	5,750
	B	Length	mm.	2,300	2,300	2,300	2,300	2,300	2,300
	C	Height	mm.	2,300	2,300	2,300	2,300	2,300	2,300
Approx. weight	Shipped	Kgs	2,200	2,800	4,100	4,800	6,000	7,200	
	Operating	Kgs	2,700	3,500	5,000	6,000	7,400	9,100	

Remark:

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- : Other ice capacity are available,. Please contact factory.
- : Ammonia refrigerant are also available. Please contact factory.
- : Said data of equipment is considered to be developed without notify.

iTube –Tube Ice Maker

MODELS : TIC series

SPECIFICATIONS

1. Ice-maker Freezer consisting of :-

Freezer Vessel material	Steel plate
End plate	AISI-304
Tube	AISI-304, DIA.19 mm.
Tube ice cutter	AISI -304 , gear motor
Circulate water pump	Centrifugal water pump
Upper / lower tank	AISI-304

2. MANUROPE / COPELAND Hermetic Compressor :

Completed with suction/discharge shut off valve , high-low pressure switches, all are fabricated on base frame .

3. Air cooled Condenser

4. Copper Piping and Fitting consisting of :-

Piping	:	: Standard Copper pipe according to sizing needs.
Pipe Insulation	:	: Closed cell rubber insulation.

5. Refrigerant Safety Control

High / Low pressure Control, Sight glass, Shut off valve, Safety valve, Service valve.

6. Electrical Control panel :

Steel cabinet, Telemechanique starter, terminal, relay, fuse, under voltage protection, etc.

- Easy operation and maintenance
- Manual/Automatic mode
- IEC. Standard, 3 PH./380 V./ 50 HZ

(Other electric supply; 3 PH./440 V./ 60HZ, are on request. For 1 PH./220 V./ 50HZ can be supplied for tube ice production capacity less than 570 Kg/Day)

iTube –Tube Ice Maker

MODELS : TIB-S030 to S120.2 / TIB-L037 to L100.2

SPECIFICATIONS

1. Ice-maker Freezer consisting of :-

Freezer Vessel material	Steel plate
End plate	AISI-304
Tube	AISI-304, DIA. 19 mm. or DIA. 41.3 mm.
Tube ice cutter	AISI -304 , gear motor
Circulate water pump	Centrifugal water pump
Upper / lower tank	AISI-304

2. Bitzer / Copeland / Bock, Semi-Hermetic Reciprocating Compressor

Completed with : suction/discharge shut off valve, oil separator with auto-oil return to crankcase, automatic control with Hi-Lo pressure/temperature/current transducer, crankcase heater, all are fabricated on base frame.

3. Shell & Tube water cooled Condenser

Stainless steel tube for corrosion resistance and steel shell with gas inlet valve, air purging vale.

4. Piping and Fitting consisting of :-

Piping	:	Standard Copper and steel pipe according to sizing needs.
Pipe Insulation	:	For 1 inch pipe size and smaller ; Closed cell rubber insulation.
	:	For bigger.size ; “InsuTech” Prefabricated PU pipe cover with jacket.

5. Cooling Tower & Condenser Water Pump

Fans	:	Axial flow fan, adjustable pitch with flange mount motor.
Condenser Pump	:	Close couple water pump c/w piping and shut off Valve

6. Refrigerant Safety Control

High/ Low pressure Control, Oil separator, Shut off valve, Sight glass Safety valve, Service valve, Hi-Lo-Oil gage panel, Solenoid valve, Electronic expansion valve.

7. Electrical Control panel : **iCON**(Intelligent CONTroller)

- Plc/data panel
- Intelligent self-diagnostic function.
- Automatic control with Hi-Lo pressure/temperature/current transducer, Automatic Short Harvesting time, Superheat Controller.
- Alarm logging and safety function; refrigerant flooded back, high-low-oil pressure, high discharge temp., high motor current, high motor temp., full-ice protection, low condenser water level, etc.
- Easy operation and maintenance
- Manual/Automatic mode
- IEC. Standard, 3 PH./380 V./ 50 HZ
(Other electric supply; 3 PH./440 V./ 60HZ, are on request.)

iTube –Tube Ice Maker

MODELS : TIB-S150.2 to S350.4 / TIB-L150.2 to L550.4

SPECIFICATIONS

1. Ice-maker Freezer consisting of :-

Freezer Vessel material	Steel plate
End plate	AISI-304
Tube	AISI-304, DIA. 19 mm. or DIA. 41.3 mm.
Tube ice cutter	AISI -304 , gear motor
Circulate water pump	Centrifugal water pump
Upper / lower tank	AISI-304

2. BITZER, HANBELL Semi-Hermetic Screw Compressor

Completed with : suction/discharge shut off valve, oil separator with auto-oil return to crankcase, auto capacity control with pressure-temp.-current transducer, oil level switches, crankcase heater, all are fabricated on base frame.

3. Shell & Tube water cooled Condenser

Stainless steel tube for corrosion resistance and steel shell with gas inlet valve, air purging vale.

4. Piping and Fitting consisting of :-

Piping	:	Standard Copper and steel pipe according to sizing needs.
Pipe Insulation	:	For 1 inch pipe size and smaller ; Closed cell rubber insulation.
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6. Refrigerant Safety Control

High/ Low pressure Control, Oil separator, Shut off valve, Sight glass Safety valve, Service valve, Hi-Lo-Oil gage panel, Solenoid valve, Electronic expansion valve.

7. Electrical Control panel : **iCON** (Intelligent CONTroller)

- Plc/data panel
- Intelligent self-diagnostic function.
- Step less 25-100% Auto capacity control with pressure-temp.-current transducer, Automatic too high current-discharge pressure control, Automatic Short Harvesting time., Superheat Controller
- Alarm logging and safety function; refrigerant flooded back, high-low-oil pressure, high discharge temp., high motor current, high motor temp., full-ice protection, low condenser water level, etc.
- Easy operation and maintenance
- Manual/Automatic mode
- IEC. Standard, 3 PH./380 V./ 50 HZ
(Other electric supply; 3 PH./440 V./ 60HZ, are on request.)