

Plate Ice

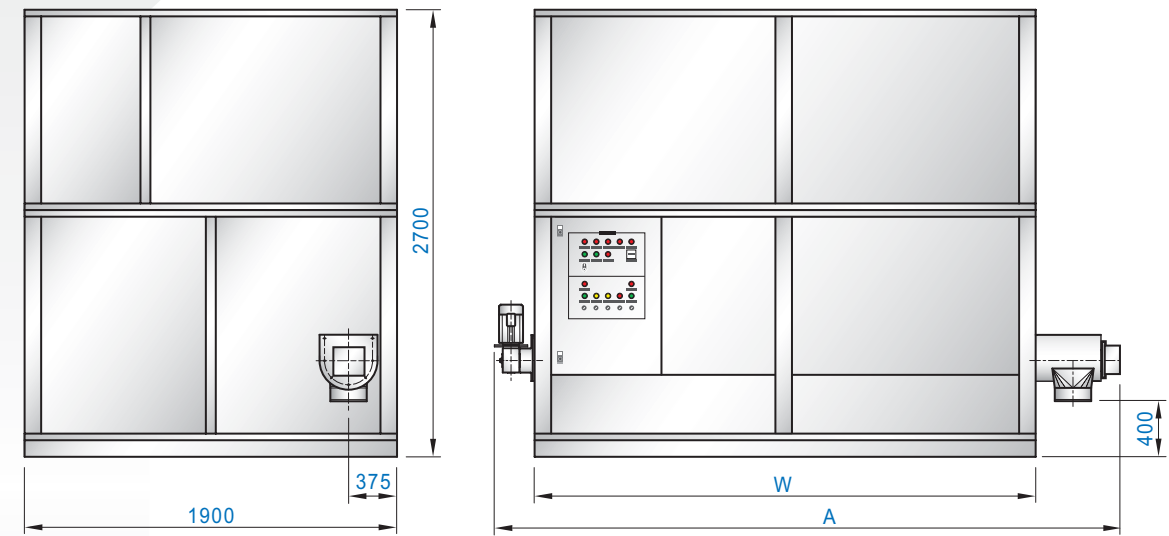
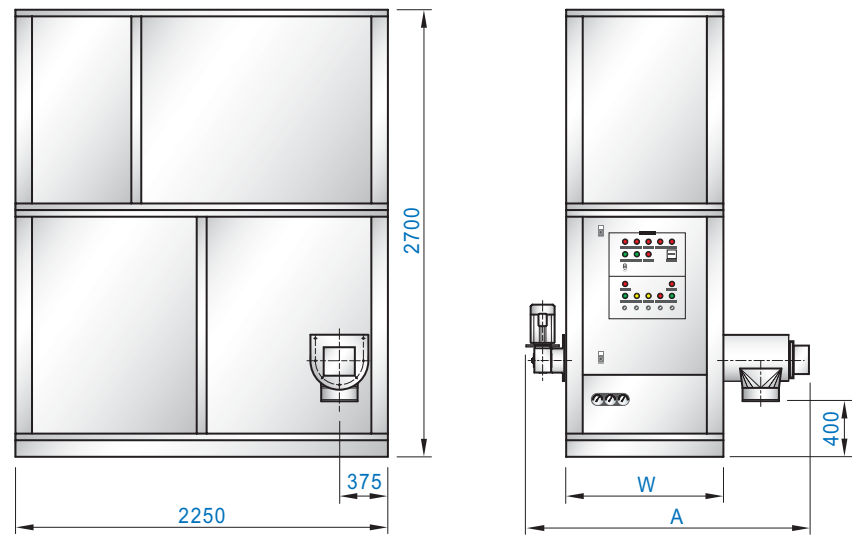
Plate Ice

Freon

Ammonia

Self contained R-22 / R404A models

Remote Models



Ice Capacity Tons/24hr	Model Number	Compressor Motor (HP)	Water Pump (HP)	Water Connection (inch)			Refrig. Connection (inch)		Condenser Type*	Dimension (mm)		Weight (kgs)	
				Cooling Tower	Make up	Drain	Discharge	Liquid		W	A	Net	Operating
5	PI-F-05	30	1.5	2"	1"	2"	1 ³ / ₈ "	7 ¹ / ₈ "	WC	1,300	2,300	1,143	1,315
							RE / RA	950	1,950	1,073	1,245		
10	PI-F-10	50	2	3"	1 ¹ / ₄ "	3"	1 ⁵ / ₈ "	1 ¹ / ₈ "	WC	2,200	3,200	1,670	2,005
							RE / RA	1,300	2,300	1,580	1,915		
20	PI-F-20	50 x 2	4	4"	1 ¹ / ₂ "	3"	2 ¹ / ₈ "	1 ³ / ₈ "	WC	3,400	4,400	3,030	3,701
							RE / RA	2,600	3,900	2,910	3,581		
30	PI-F-30	50 x 3	7.5	5"	2"	3"	2 ¹ / ₈ "	1 ⁵ / ₈ "	WC	3,900	4,900	3,767	4,773
							RE	3,900	4,900	3,627	4,633		

Harvest conveyor motor of 2 hp for all models.

***Note** WC : Water-cooled condenser
 RE : Remote evaporative condenser
 RA : Remote air-cooled condenser

Ice Capacity Tons / 24hr	Model Number	Refrigeration required (kw)	Water Pump (HP x qty.)	Water Connection (inch)			Refrigerant Connection (inch)			Dimension (mm)		Weight (kgs)	
				Make up	Drain	Liquid	Hot Gas	Suction	W	A	Net	Operating	
10	PI-A-10	62	2	1 ¹ / ₄ "	3"	3 ³ / ₄ "	1 ¹ / ₄ "	2 ¹ / ₂ "	1,300	2,300	1,248	1,383	
20	PI-A-20	124	4	1 ¹ / ₂ "	3"	1"	1 ¹ / ₂ "	3"	2,600	3,600	2,347	2,619	
30	PI-A-30	186	7.5	2"	3"	1 ¹ / ₄ "	2"	4"	3,900	4,900	2,914	3,320	
50	PI-A-50	310	10	2"	3"	1 ¹ / ₂ "	2 ¹ / ₂ "	5"	6,500	7,500	4,377	5,171	
80	PI-A-80	496	10 x 2	3"	4"	1 ¹ / ₂ "	3"	6"	10,400	11,400	7,576	8,976	

Harvest conveyor motor of 2 hp for all models.

Note PI-A : Remote ice maker for use with a **recirculated ammonia system**

Standard rating condition

- 30°C water inlet temperature , 35°C ambient
- Ice thickness for base rating is 6 mm.
- Evaporating temperature -15°C
- Condensation 38°C for water-cooled and 45°C for air-cooled
- Standard electrical 380 V, 3 Ph, 50 Hz

Make up - water correction factors

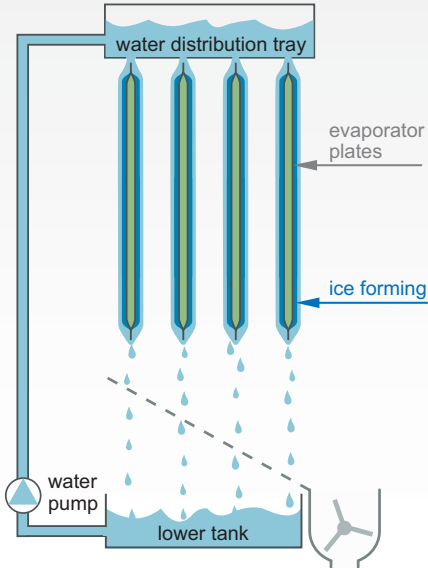
Make up water temperature (°C)	5	10	15	20	25	30	35
Ice capacity multiplier	1.22	1.18	1.13	1.09	1.04	1	0.96

Evaporating correction factors

Evaporating temperature (°C)	-20	-15	-10	-5
Ice capacity multiplier	1.15	1.00	0.83	0.53

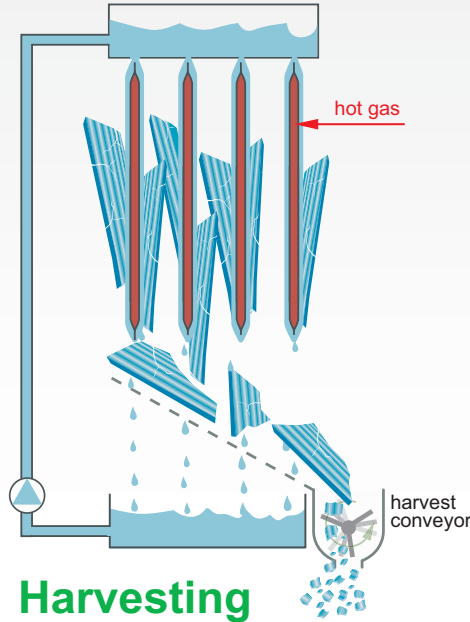
Ice making

Concept



Ice making

The water is pumped from lower tank to the water distribution tray situated on the upper part of evaporator plates. The water is distributed to each and every cold refrigerated, circulated plates, Ice would be accumulated, and will gain thickness between 3-12 mm as required.



Harvesting

Once the thickness of accumulated ice is as required, hot gas would be distributed into the evaporator plates, thawing out the ice which would fall onto the ice slide, the ice conveyor screw and crusher will crush them into small pieces.



Evaporator plates



Harvest conveyor



3-12 mm. thickness

After Sale

Service

- Service team of over hundred technicians
- Over 50 service trucks
- Frequently use spare part in stock



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