

Service Bulletin

Subject: Technical Specifications

IT0750N - REMOTE AIR-COOLED MODELS USED WITH JCT1200 - REMOTE CONDENSER

GENERAL SPECIFICATIONS			
Operating Temperatures	IT0750N Minimum 35°F (2°C) Maximum 110°F (43°C)	JCT1200 Minimum -20°F (-29°C) Maximum 120°F (49°C)	
Refrigerant Charge (R-410A)	Line Set: 0' to 50' (0 m to 15 m) 7.0 lbs (3.2 kg)	Line Set: 51' to 100' (15.5 m to 30 m) add 2.0 lbs (0.9 kg)	
Electrical	208-230V/60 Hz/1 Ph Min Circuit Amps - 9.9 Max Fuse Size - 15 amp	208-230V/50 Hz/1 Ph Min Circuit Amps - 9.4 Max Fuse Size - 15 amp	Energy Usage Half Dice: 4.82 Kwh Dice 4.87 Kwh
Line Set (R-410A)	RT 20 / 35 / 50	Discharge Line: 1/2 in (13 mm)	Liquid Line: 5/16 in (7.9 mm)
Ice Making Water Inlet	Water Inlet Connection - 3/8" FPT (Female Pipe Thread)	Water Temperature - Minimum 40°F (4.4°C) Maximum 90°F (32°C)	Water Pressure - Minimum 20 psig (1.4 bar) Maximum 80 psig (5.5 bar)
Ice Making Water Drain	Connection - 1/2" FPT (Female Pipe Thread)		
Potable Water	17.7 gallons per 100 lbs of ice 67 liters per 45.5 kg of ice		
Heat of Rejection	Air Conditioning 12,800 BTU/hr (3,228 kcal/hr)	Peak 13,700 BTU/hr (3,455 kcal/hr)	
High Pressure Settings	Cut-in 450 psig (31 bar)	Cut-out 600 psig (41 bar)	
Dimensions	Height	Width	Depth
IT0750	21.5 in (546 mm)	30.0 in (762 mm)	24.0 in (610 mm)
JCT1200	34.0 in (863 mm)	24.5 in (623 mm)	28.0 in (712 mm)
Clearances	Top	Sides	Bottom
IT0750	8.0 in (203 mm)	8.0 in (203 mm)	5.0 in (130 mm)
JCT1200	36.0 in (910 mm)	24.0 in (610 mm)	16.0 in (410 mm)

Cycle Times

Freeze Time + Harvest Time = Total Cycle Time

Air Temperature Entering Condenser °F / °C	Water Temperature			Harvest Time
	50°F 10°C	70°F 21°C	90°F 32°C	
70°F 21°C	8.1-9.1	9.0-10.1	9.7-11.0	0.75-2.0
80°F 27°C	8.8-9.9	9.5-10.6	10.1-11.5	
90°F 32°C	9.3-10.8	10.2-11.5	10.8-12.2	
100°F 38°C	10.3-12.1	11.2-13.2	12.0-14.0	

Freeze Time in minutes.

Cycle times and pressures vary with operating condition.

Production and cycle times are for dice cube - Half dice cube cycle times can be 2 - 3 minutes faster, depending on water and ambient temperature.

24 Hour Ice Production

Air Temperature Entering Condenser	Water Temperature		
	50°F 10°C	70°F 21°C	90°F 32°C
70°F 21°C	720 lbs 326 kgs	660 lbs 299 kgs	610 lbs 277 kgs
80°F 27°C	700 lbs 318 kgs	650 lbs 295 kgs	585 lbs 265 kgs
90°F 32°C	660 lbs 299 kgs	600 lbs 272 kgs	545 lbs 247 kgs
100°F 38°C	575 lbs 261 kgs	525 lbs 238 kgs	460 lbs 209 kgs

Ice slab weight of one harvest cycle = 4.7 lbs to 5.1 lbs (2.1 kgs to 2.3 kgs).
230/50/1 is approximately 12% lower than 230/60/1.

Operating Pressures - Freeze Cycle

Air Temperature Around the Unit	Discharge Pressure	Suction Pressure
50°F 10°C	265-285 psig 18-20 bar	60-35 psig 4-2 bar
70°F 21°C	300-330 psig 21-23 bar	60-35 psig 4-2 bar
80°F 27°C	310-350 psig 22-24 bar	65-38 psig 5-3 bar
90°F 32°C	315-360 psig 22-24 bar	75-40 psig 5-3 bar
100°F 38°C	430-510 psig 30-35 bar	85-45 psig 6-3 bar
110°F 43°C	450-525 psig 31-36 bar	90-50 psig 6-4 bar

Operating Pressures - Harvest Cycle

Air Temperature Around the Unit	Discharge Pressure	Suction Pressure
50°F 10°C	180-225 psig 12-15 bar	105-140 psig 7-10 bar
70°F 21°C	200-240 psig 14-16 bar	120-180 psig 8-10 bar
80°F 27°C	200-240 psig 14-16 bar	120-180 psig 8-10 bar
90°F 32°C	275-320 psig 19-22 bar	135-200 psig 8-12 bar
100°F 38°C	310-360 psig 21-25 bar	150-220 psig 10-15 bar
110°F 43°C	310-360 psig 21-25 bar	160-230 psig 11-15 bar