

Service Bulletin

Subject: Technical Specifications

IT0900N - REMOTE AIR-COOLED MODELS USED WITH JCT1200 - REMOTE CONDENSER

GENERAL SPECIFICATIONS			
Operating Temperatures	IT0900N 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) 7.5 lbs (3.4 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 - 11.7 Max Fuse Size - 15 amp	208-230V/50 Hz/1 Ph Min Circuit Amps - 7.1 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	20 gallons per 100 lbs of ice 76 liters per 45.5 kg of ice		
Heat of Rejection	Air Conditioning 12,700 BTU/hr (3,203 kcal/hr)	Peak 14,800 BTU/hr (3,732 kcal/hr)	
High Pressure Settings	Cut-in 450 psig (31 bar)	Cut-out 600 psig (41 bar)	
Dimensions	Height	Width	Depth
IT0900	26.5 in (673 mm)	30.0 in (762 mm)	24.5 in (622 mm)
JCT1200	34.0 in (863 mm)	24.5 in (623 mm)	28.0 in (712 mm)
Clearances	Top	Sides	Bottom
IT0900	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	9.6-10.9	10.5-12.3	11.3-13.5	0.75-2.5
80°F 27°C	9.9-11.5	10.8-12.7	11.7-13.7	
90°F 32°C	10.6-12.3	11.5-13.7	12.8-15.2	
100°F 38°C	11.8-14.0	13.0-15.5	14.8-17.5	

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	845 lbs 383 kgs	760 lbs 345 kgs	700 lbs 318 kgs
80°F 27°C	800 lbs 363 kgs	730 lbs 331 kgs	680 lbs 308 kgs
90°F 32°C	750 lbs 340 kgs	685 lbs 311 kgs	640 lbs 290 kgs
100°F 38°C	675 lbs 306 kgs	615 lbs 279 kgs	500 lbs 227 kgs

Ice slab weight of one harvest cycle = 6.2 lbs to 7.2 lbs (2.8 kgs to 3.3 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	280-320 psig 19-22 bar	68-35 psig 5-2 bar
70°F 21°C	300-345 psig 21-24 bar	70-38 psig 5-3 bar
80°F 27°C	310-360 psig 21-25 bar	73-39 psig 5-3 bar
90°F 32°C	315-366 psig 22-25 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	95-40 psig 7-3 bar

Operating Pressures - Harvest Cycle

Air Temperature Around the Unit	Discharge Pressure	Suction Pressure
50°F 10°C	180-235 psig 12-16 bar	95-110 psig bar
70°F 21°C	200-240 psig 14-17 bar	100-130 psig 7-9 bar
80°F 27°C	200-240 psig 14-17 bar	120-150 psig 8-10 bar
90°F 32°C	275-320 psig 19-22bar	135-165 psig 9-11 bar
100°F 38°C	310-360 psig 21-25 bar	140-180 psig 10-12 bar
110°F 43°C	310-360 psig 21-25 bar	150-190 psig 10-13 bar