



ACROSS INTERNATIONAL

Rapid Chill Series Specifications

Model	G04H
Electrical requirements	110V (+/-10%) 60Hz 1-Phase 680W 6A
Power Consumption	5.5 kW/day
Performance	Temperature range: -40°C to -86°C Time from ambient to -86°C: 4 hours Uniformity: ±4°C Time from -86°C to -50°C with door close (ambient 25°C): 2 hours
Controller	Style: microcomputer controlled with analog display - Range -40°C to -86°C - Step: 1°C - Thermo sensor: PT100 - Displays: internal temperature, ambient temperature, input voltage, error code - Indicators: Locked, running, power, alarm, door open, over temperature battery low, condenser clean
Compressor	Make: SECOP (formerly known as Danfoss), Germany Style: direct cooling Power: 115V 60Hz 1-PHASE, 0.54HP Number of compressors: one HC refrigerants: R600A, R1150 and R50
Chamber	Dimensions: 13 x 19.5 x 24.5" (WxDxH) Material: powder coated steel Effective capacity: 3.5 Cu Ft Insulation: VIP (Vacuum Insulated Panel)
Shelf	Come with unit: one adjustable shelf (2 compartments) Material: 304 stainless steel
Door and gasket	Inner door: two, stainless steel External door: one, with four layers of silicone sealing gaskets, lock-able
Access port	One
Foot	Four
Noise level	46 dBA
Communication	Standard: RS-485, USB (stores 15 years of data for compliance purpose) Optional: 4-20mA transmitter
Working Environment	- Temperature: 10°C to 32°C (humidity <57% Rh required at 32°C) - Humidity: <80% Rh - Altitude: < 2000 m / 6561 Ft - Stable, well-ventilated platform with no excessive dust - Keep freezer at least 12 inches from any walls or ceiling - Use dedicated power, do not share outlet - Extension power cable should be less than 10 feet is required - Freezer and power outlet should be grounded properly - Avoid direct sunlight, water spill and do NOT use freezer outdoor - Clean condenser fins and remove frost inside chamber at least once a month - Important! Do not plug in your unit. Leave your Ai refrigerator or freezer for 24 hours before turning the unit on for the first time.
Battery backup system	48 hours (for controller display and alarms only)
Unit/shipping dimensions	30x26x32" / 33x28x38.5" (WxDxH)
Unit/shipping weight & dimensions	240 Lbs / 300 Lbs 30 x 26 x 32" / 33 x 29 x 35" (WxDxH)
Safety	Compressor over-temp protection, Ambient over-temp protection Compressor power surge delay protection Password protection Sensor failure protection Over-temperature and low-temperature protection Power failure protection Low battery, door open, condenser clogging, system failure alarms External door with lock Ground protection
Compliance	UL 61010-1, CSA C22.2
Warranty	2-year full service, 3-year parts, 5-year compressor



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Model	G12h	G20h	G26h
Electrical requirements	120V (±10%) 60Hz 1-Phase 12A	110V (±10%) 60Hz 1-Phase 1000 watts	110V (±10%) 60Hz 1-Phase 1000 watts
Power Consumption	7.5 kW/day	8.5 kW/day, Energy Star certified	10.5 kW/day, Energy Star certified
Performance	Temperature range: -40°C to -86°C Time from ambient to -86°C: 4 hours Uniformity: ±4°C Time from -86°C to -50°C with door close (ambient 25°C): 3.5 hours	Temperature range: -40°C to -86°C Time from ambient to -86°C: 4 hours Uniformity: ±4°C Time from -86°C to -50°C with door close (ambient 25°C): 3.5 hours	Temperature range: -40°C to -86°C Time from ambient to -86°C: 5.5 hours Uniformity: ±4°C Time from -86°C to -50°C with door close (ambient 25°C): 4.5 hours
Controller	Style: microcomputer controlled with analog display Range -40°C to -86°C Step: 1°C Thermo sensor: PT100 Displays: internal temperature, ambient temperature, input voltage, error code -Indicators: Locked, running, power, alarm, door open, over temperature battery low, condenser clean		
Compressor	Make: SECOP Style: direct cooling Power: 115V 60Hz 1-PHASE, 0.54HP x 2 Number of compressors: two HC refrigerants: R290 (stage 1), R170 (stage 2)		Make: SECOP Style: direct cooling Power: 115V 60Hz 1-PHASE, 0.85HP x 2 Number of compressors: two HC refrigerants: R290 (stage 1), R170 (stage 2)
Chamber	Dimensions: 18.3 x 24.8 x 45.9" (WxDxH) Material: powder coated steel Capacity: 12 Cu Ft Insulation: VIP (Vacuum Insulated Panel)	Dimensions: 24.4 x 28.2 x 51.6" (WxDxH) Material: powder coated steel Capacity: 20.4 Cu Ft Insulation: VIP (Vacuum Insulated Panel)	Dimensions: 30.5 x 28.2 x 51.6" (WxDxH) Top compartment: 25.5x29.5x11.63" (HxWxD) Other compartment: 25.5x29.5x11.87" (WxDxH) Material: powder coated steel Capacity: 25.7 Cu Ft Insulation: VIP (Vacuum Insulated Panel)
Shelf	Come with unit: one adjustable shelf (2 compartments) Material: 304 stainless steel	Come with unit: 3 (4 compartments), fully adjustable Dimensions: 29.5 x 26.7" (WxD) Max. load capacity: 200 Lbs Material: 304 stainless steel	Come with unit: 3 (4 compartments), fully adjustable Dimensions: 29.5 x 26.7" (WxD) Max. load capacity: 200 Lbs Material: 304 stainless steel
Door and gasket	Inner door: two, stainless steel, External door: one, with four layers of silicone sealing gaskets, lock-able		
Access port	Two		
Noise Level	50 dBA		
Communication	Standard: RS-485, USB (stores 15 years of data for compliance purpose), Optional: 4-20mA transmitter		
Working Environment	<ul style="list-style-type: none"> - Temperature: 10°C to 32°C (humidity <57% Rh required at 32°C) - Humidity: <80% Rh - Altitude: < 2000 m / 6561 Ft - Stable, well-ventilated platform with no excessive dust - Keep freezer at least 12 inches from any walls or ceiling - Use dedicated power, do not share outlet - Extension power cable should be less than 10 feet is required - Freezer and power outlet should be grounded properly - Avoid direct sunlight, water spill and do NOT use freezer outdoor - Clean condenser fins and remove frost inside chamber at least once a month - Important! Do not plug in your unit. Leave your Ai refrigerator or freezer for 24 hours before turning the unit on for the first time. 		
Battery backup system	48 hours (for controller display and alarms only)		
Unit/Shipping Weight & Dimensions (lbs, WXDxH)	525 Lbs / 615 Lbs 32.7 x 35.2 x 72.7" / 38 x 40 x 76"	660 Lbs / 730 Lbs 36 x 38.5 x 77" / 40 x 42 x 82"	760 Lbs / 850 Lbs 41 x 38.5 x 78" / 45 x 42 x 82"
Safety	Compressor over-temp protection, Ambient over-temp protection Compressor power surge delay protection Password protection Sensor failure protection Over-temperature and low-temperature protection Power failure protection Low battery, door open, condenser clogging, system failure alarms External door with lock Ground protection		
Compliance	UL 61010-1, CSA C22.2		
Warranty	2-year full service, 3-year parts, 5-year compressor		



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Model	G34he
Electrical requirements	230V 50/60Hz. 1300 watts, 7 amps
Performance	Temperature range: -40°C to -86°C Time from ambient to -86°C: 4 hours Uniformity: ±4°C Time from -86°C to -50°C with door close (ambient 25°C): 2 hours
Controller	Temperature range: -40°C to -86°C Time from ambient to -86°C: 6 hours Uniformity: ±3 °C Time from -86°C to -50°C with the door closed (ambient 25°C): 5 hours 1 min door open recovery time (ambient 25°C, running temp -75°C): 40 mins
Chamber	Chamber dimensions: 40 x 28 x 51.5 inches Shelf max. weight capacity: 126kg (278lbs) Max. weight capacity of unit: 504kg (1111 lbs)
Noise level	47 dBA
Volume	34 cu ft
Working Environment	<ul style="list-style-type: none">- Temperature: 10°C to 32°C (humidity <57% Rh required at 32°C)- Humidity: <80% Rh- Altitude: < 2000 m / 6561 Ft- Stable, well-ventilated platform with no excessive dust- Keep freezer at least 12 inches from any walls or ceiling- Use dedicated power, do not share outlet- Extension power cable should be less than 10 feet is required- Freezer and power outlet should be grounded properly- Avoid direct sunlight, water spill and do NOT use freezer outdoor- Clean condenser fins and remove frost inside chamber at least once a month- Important! Do not plug in your unit. Leave your Ai refrigerator or freezer for 24 hours before turning the unit on for the first time.
Certificate	UL, Energy Star, CE
Information	Eco-friendly HC refrigerant Low noise 47 dBA USB interface, RS485 port Mobile casters Optimized insulation with VIP technology
Usage	Inverter technology for 0.33kWh/day/cu-ft ultra-low power consumption, comparing to Thermo TSX70086A's 0.36 kWh/day/cu-ft
Unit/shipping weight & dimensions	Unit: 990 Lbs, 51 x 39.5 x 78 inches Shipping: 1070 Lbs, 54 x 43.5 x 84.5 inches
Safety	High/low-temperature alarms Hot condenser alarm Power failure High/low voltage Sensor error Low battery High ambient temperature Door ajar
Warranty	2-year full service, 3-year parts, 5-year compressor