



# 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 - <b>Avoid direct sunlight, water spill and do NOT use freezer outdoor</b> - <b>Clean condenser fins and remove frost inside chamber at least once a month</b> - <b>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.</b>
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) 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"> <li>- Temperature: 10°C to 32°C (humidity &lt;57% Rh required at 32°C)</li> <li>- Humidity: &lt;80% Rh</li> <li>- Altitude: &lt; 2000 m / 6561 Ft</li> <li>- Stable, well-ventilated platform with no excessive dust</li> <li>- Keep freezer at least 12 inches from any walls or ceiling</li> <li>- Use dedicated power, do not share outlet</li> <li>- Extension power cable should be less than 10 feet is required</li> <li>- Freezer and power outlet should be grounded properly</li> <li>- <b>Avoid direct sunlight, water spill and do NOT use freezer outdoor</b></li> <li>- <b>Clean condenser fins and remove frost inside chamber at least once a month</b></li> <li>- <b>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.</b></li> </ul>		
Battery backup system	48 hours (for controller display and alarms only)		
Unit/Shipping Weight & Dimensions (lbs, WDXH)	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		