

GT Series Dry Ice Cleaning Machines

Energy Consumption & Consumables Manual

Official Technical Specification | Printable PDF Version

1. GENERAL INFORMATION

- Product Line:** GT Series Dry Ice Cleaning Machines
- Applicable Models:** GT01, GT05, GT10, GT20, GT40
- Purpose:** This manual defines rated power, air consumption, dry ice consumption, and consumable specifications for operation, quotation, and cost calculation.

2. CORE PARAMETER SUMMARY TABLE

Model	Motor Power	Total Power	Power Supply	Air Flow (m³/min)	Air Pressure (MPa)	Dry Ice Flow (kg/min)	Hopper Capacity (kg)	Dry Ice Type
GT01	0.25 kW	0.42 kW	AC220V/50–60Hz	0.35–1.1	0.35–1.0	0.01–0.15 (2- mode)	3.3	2.5–3 mm pellets
GT05	0.37 kW	0.37 kW	AC220V/50–60Hz	>1.13	0.4–1.0	0–0.5	5–7.5	3 mm pellets
GT10	0.37 kW	0.37 kW	AC220V/50–60Hz	>2.53	0.6–1.0	0–1.0	12–15	3 mm pellets
GT20	0.80 kW	0.80 kW	AC220V/50–60Hz	>2.5	0.4–1.6	0–2.0	12–15	3 mm pellets
GT40	0.80 kW	0.80 kW	AC220V/50–60Hz	>3.5	0.4–1.6	0–3.0	20	3 mm pellets

3. MODEL- BY- MODEL ENERGY & CONSUMABLES DETAILS

GT01 – Mini Portable Type

- **Energy Consumption**

- Total rated power: **0.42 kW**
- Hourly power consumption: **0.42 kWh**
- Required air flow: 0.35–1.1 m³/min
- Required air pressure: 3.5–10 bar

- **Dry Ice Consumables**

- Dual- mode flow: 0.01–0.15 kg/min / 0.01–0.08 kg/min
 - Max hourly consumption: **9 kg/h**
 - Standard hourly consumption: **4.8 kg/h**
 - Hopper capacity: 3.3 kg
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GT05 – Small Type

- **Energy Consumption**

- Rated power: **0.37 kW**
- Hourly power consumption: **0.37 kWh**
- Required air flow: >1.13 m³/min
- Required air pressure: 0.4–1.0 MPa

- **Dry Ice Consumables**

- Flow: 0–0.5 kg/min
 - Max hourly consumption: **30 kg/h**
 - Hopper capacity: 5–7.5 kg
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GT10 – Standard Type

- **Energy Consumption**

- Rated power: **0.37 kW**
- Hourly power consumption: **0.37 kWh**
- Required air flow: >2.53 m³/min
- Required air pressure: 0.6–1.0 MPa

- **Dry Ice Consumables**

- Flow: 0–1.0 kg/min
 - Max hourly consumption: **60 kg/h**
 - Hopper capacity: 12–15 kg
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GT20 – Medium- Large Type

- **Energy Consumption**
 - Rated power: **0.80 kW**
 - Hourly power consumption: **0.80 kWh**
 - Required air flow: >2.5 m³/min
 - Required air pressure: 0.4–1.6 MPa
 - **Dry Ice Consumables**
 - Flow: 0–2.0 kg/min
 - Max hourly consumption: **120 kg/h**
 - Hopper capacity: 12–15 kg
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GT40 – Large Type

- **Energy Consumption**
 - Rated power: **0.80 kW**
 - Hourly power consumption: **0.80 kWh**
 - Required air flow: >3.5 m³/min
 - Required air pressure: 0.4–1.6 MPa
 - **Dry Ice Consumables**
 - Flow: 0–3.0 kg/min
 - Max hourly consumption: **180 kg/h**
 - Hopper capacity: 20 kg
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4. CONSUMABLES SPECIFICATIONS

Dry Ice Requirements

- Purity: **99.9%**
- Density: 1.2–1.56 g/cm³
- Shape: Cylindrical pellets
- Diameter: **2.5 mm – 3 mm**

Storage

- Recommended: Special insulated dry ice box
 - Daily evaporation rate: **5%–10%**
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5. OPERATING NOTES

1. All consumption values shown are theoretical maximums. Actual usage is normally **30%–50%** of maximum under regular working conditions.
 2. Compressed air is the main auxiliary energy cost and should be calculated based on on- site air compressor data.
 3. Dry ice consumption can be precisely adjusted via the control system to optimize cost.
 4. Parameters are subject to change due to product upgrades without prior notice.
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6. CONTACT

- Manufacturer: Nanjing EKM Environmental Protection Technology Co., Ltd.
- Product: GT Series Dry Ice Cleaning Machines
- Document Type: Energy & Consumables Manual