



InvisiPac®

Tank-Free™ Hot Melt Delivery System
For Case and Carton Packaging



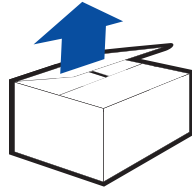
PROVEN QUALITY. LEADING TECHNOLOGY.

A RELIABLE SEAL EVERY APPLICATION, EVERY TIME

Improve production by reducing...



Unplanned downtime



Pop-opens



High adhesive costs



Clogged nozzles



Guaranteed Savings

- Use less material
- Reduce maintenance and spare parts

Better Seal

- Reduce costly pop-opens by having glue do what it is supposed to do.

Know Your Glue Usage

- Measure the right amount of glue, control a consistent bead and track your usage grams per case, so you can put exactly what you need where you need it...and prove it.

Parts Last Longer

- View your line's performance and receive alerts maintaining your desired, optimal settings anywhere, anytime.

Eliminate Downtime

- No char, no nozzle plugs
- No more time consuming tank scraping product maintenance

Improve Operator Safety

- Eliminate burn hazard risks

InvisiPac® THE TANK-FREE™ DIFFERENCE

InvisiPac's Tank-Free System

- Heats up in 10 minutes or less
- Maintains continuous flow of heated-on-demand adhesive
- Safeguards adhesive integrity
- Eliminates adhesive char and plugged nozzles
- Lessens exposure to burn hazards



Tank-Free

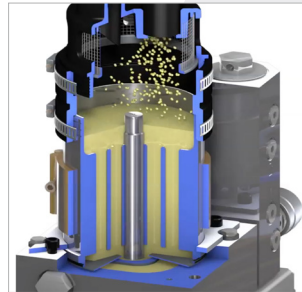
Tank and Tankless Systems

- Heat slowly due to low melting surface area
- Keep large quantities of adhesive at high temperatures
- Allow degradation of adhesive integrity
- Create char and plug nozzle
- Expose operators to burn hazards

With InvisiPac:



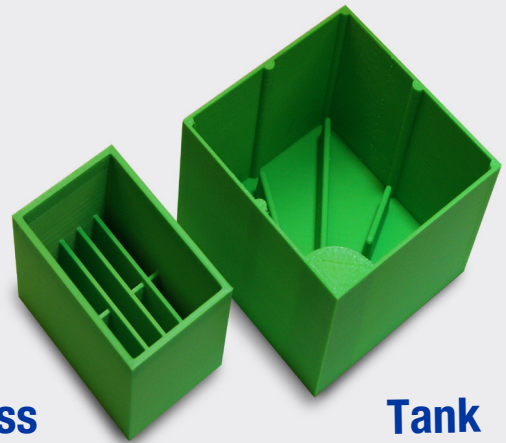
- 1** An ultrasonic sensor monitors glue in the melting chamber, automatically adding glue.



- 2** Efficient heat transfer design helps glue melt quickly and maintain a consistent temperature.



- 3** First-in-first-out (FIFO) operation eliminates charring and thermal shock. Glue stays at the required temperature and viscosity as it moves to the point of dispense.



Tankless

Tank

InvisiPac® HOW INVISIPAC WORKS

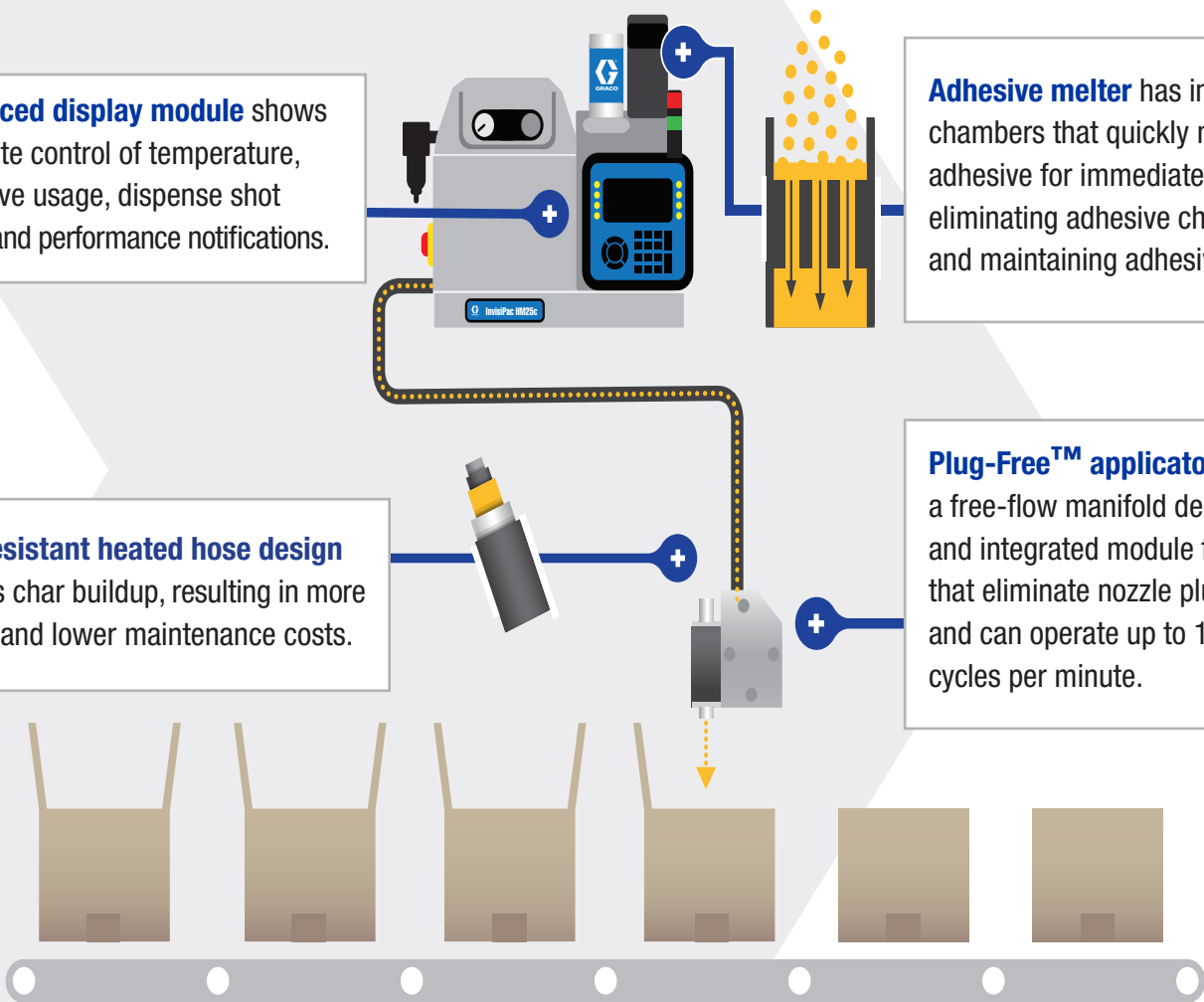
Automatic feed system with patented technology has a self-learning feed algorithm that takes the guesswork out of filling your hot melt system. This means no more tuning or calibrating your fill, hoping you get the right frequency.

Advanced display module shows accurate control of temperature, adhesive usage, dispense shot sizes, and performance notifications.

Adhesive melter has innovative chambers that quickly melt adhesive for immediate dispense, eliminating adhesive chare buildup and maintaining adhesive integrity.

Char resistant heated hose design reduces char buildup, resulting in more uptime and lower maintenance costs.

Plug-Free™ applicators have a free-flow manifold design and integrated module filtering that eliminate nozzle plugs and can operate up to 10,000 cycles per minute.



TANK-FREE, MELT-ON-DEMAND SYSTEM RUNS RELIABLY AND BOOSTS PRODUCTIVITY

InvisiPac® TANK-FREE HOT MELT TECHNOLOGY COMPARISON



HM10

Melter dispenses adhesive at low flow, low volume rates good for any application involving small packaging.



HM25c

Compact unit for middle to high volumes case and carton sealing integrates easily into end-of-line packaging.



HM50

High volume, case and carton sealing benefits the most from the InvisiPac's highest flow model.

	INVISIPAC HM10	INVISIPAC HM25C	INVISIPAC HM50
Melt rate: Pounds per hour (lbs/hr)	10	25	50
Melt rate: Kilograms per hour (kgs/hr)	4.5	11.3	22
Channels	1 to 4	4 to 8	2 to 6
Pellet feed container	On-board hopper	External bin	External bin
Pellet delivery method	Venturi feed hose	Venturi feed hose	Venturi feed hose
Melt technology	Tank-free hot melt	Tank-free hot melt	Tank-free hot melt
Pattern controller	Available as a stand-alone accessory	Internal on select models or available as a stand-alone accessory	Internal on select models or available as a stand-alone accessory
Box controller	Available as an accessory	Standard feature	Standard feature
Voltage (V)	200-240 V 350-415 V 400-480 V	200-240 V 350-415 V 400-480 V	200-240 V 335-400 V 350-415 V 400-480 V

INVISIPAC BOOSTS END-OF-LINE PRODUCTIVITY AT ANY SPEED

InvisiPac® HM10

LOW FLOW, LOW VOLUME INNOVATION

AT 10 LBS/HOUR

Sized for System Optimization

Tank-Free™ melter dispenses adhesive at low flow, low volume rates for case and carton sealing, labeling, side seaming, and applications involving small packaging.

On-Board Hopper

- 20 lb (9 kg) capability for pellet storage
- Clear lid for easy filling and monitoring
- Pellet shaker for precise feed control
- Part of unit, saving space at the end of any packaging line

One to Four Channels

- Compatible with one to four Graco Plug-Free™ applicators and heated hoses

Mounting

- Same compact footprint as InvisiPac HM25c
- Easy installation and changeover from other units



Air Venturi Feed

- Pellets supplied on-demand from hopper to melter
- Air control to adjust speed supplying only the amount of adhesive pellets needed
- Separate air flow control for further feeding efficiency

Tank-Free Melter

- 10-minute start-up time for energy efficiency and waste reduction
- 10 lb (4.5 kg) per hour melt rate for low flow applications
- Safe operation due to no hot tanks and no access to heated components

Intuitive User Interface and Feedback

- Touchscreen with visibility and control of adhesive usage
- User interface display monitors and tracks system
- Easy installation integration

InvisiPac® HM25c

COMPACT RELIABILITY AND PROFITABILITY AT 25 LBS/HR

Tank-Free Melter

- Proprietary melt-on-demand technology for steady and immediate dispense
- Output dispense of 25 lbs (11.3 kg) or less per hour
- 10-minute start-up time
- First-in-first-out (FIFO) process that eliminates adhesive char and thermal shocking

Pump Air Pressure Gauge

- Provides real time pressure readings for monitoring
- Ensures optimal performance for the pump system

System Inlet Air Filter

- Filters incoming air to prevent contamination
- Extends the lifespan of internal components
- Easy access for maintenance

Electrical Enclosure

- Easily integrates with existing packaging lines.
- Designed to withstand industrial environments

Pump Air Pressure Gauge and Regulator

- Pressure relief valve for safety
- Real-time pressure reading for consistent pump operations
- Adjustable setting for different viscosities

Optional Light Tower

- Alerts when material usage is out of desired range
- Connection for 8 zones

Advanced Display Module (ADM)

- Integrated material tracking
- Auto shut-off capability
- Touchscreen interface for advanced control and monitoring



InvisiPac® HM50

HIGH VOLUME PRODUCTIVITY AND SAFETY

AT 50 LBS/HOUR

Optional Light Tower

- Indicates system status at a glance

Pump

- Two-ball design leverages Graco's nearly 100 years of fluid handling expertise
- NXT® Air Motor technology provides reliable shot consistency

Intuitive User Interface

- Graphics and text make operation simple
- Easy troubleshooting points you to the root of the problem
- Single screen view of all heat zone temperatures
- Tracks adhesive consumption
- USB dwnloadable operating data, errors and event history

InvisiPac GS35

- Patented module filter design provides plug-free operation

Filter

- Large surface area for months of maintenance free operation

In-line Melter

- Melt rate of 50 lbs/hr (22 kg/hr)
- Reduces char and improves uptime
- Reaches operating temperature in 10 minutes or less
- Allows first-in-first-out adhesive flow

Integrated Automatic Vacuum Feed System

- Saves labor automatically by pulling adhesive from a drum or bulk container

Superior Heated Hoses

- Buffer heat, virtually eliminating char buildup



InvisiPac® INTEGRATED VACUUM FEED AND HEATED HOSES

1 Shaker built into vacuum

Reduces air consumption by eliminating the need for an external shaker

2 Feeds from center of hopper

Ensures adhesive does not build up on one side

3 Vibration arms

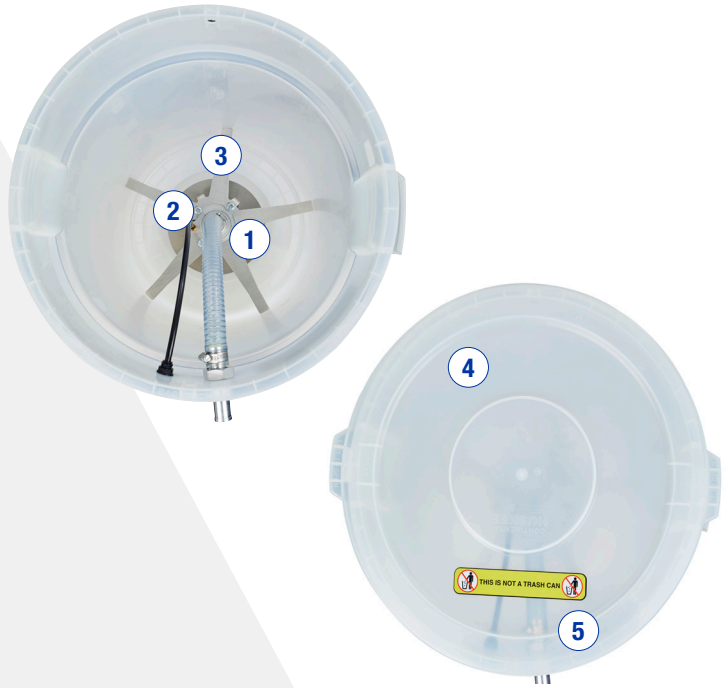
Break up clumps and reduces adhesive bridging

4 Fully enclosed hopper

Keeps adhesive free of debris and contaminants

5 Simple installation

Push to connect air line from InvisiPac system
Quick disconnect vacuum hose



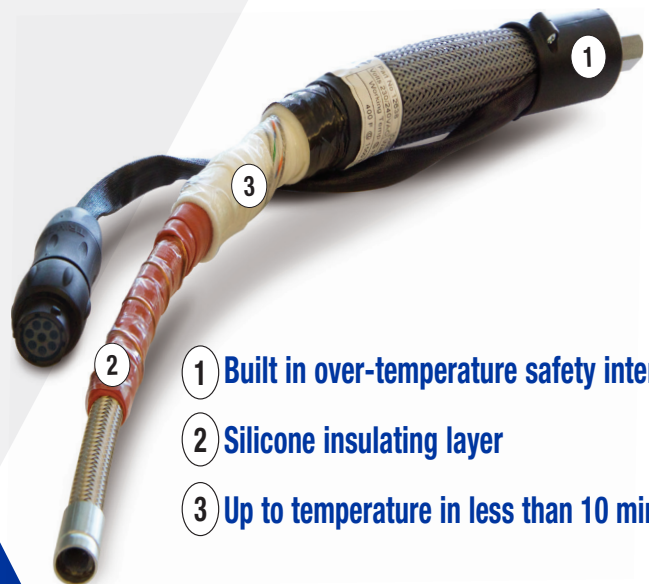
Superior heated hose design maintains consistent temperature

Char-resistant hose design reduces adhesive char buildup, resulting in more uptime and lower maintenance costs.

An additional silicone layer promotes even heating, eliminating hot and cold spots that cause char and skin formation.

- Available in many lengths for easy installation
- Available in waterwash or standard platforms

InvisiPac waterwash hoses for food-safe packaging operations are IPX6 rated, fulfilling international performance standards.



- 1 Built in over-temperature safety interlock
- 2 Silicone insulating layer
- 3 Up to temperature in less than 10 minutes

InvisiPac® GM100 AND GS35 PLUG-FREE APPLICATORS AND PATTERN CONTROL

Easy pattern setup

- See pattern definitions all on one page for a comprehensive view
- Eliminate the guesswork of pattern setup with on-screen pattern preview
- Copy, delete or name patterns for quick changes that keep your line running
- Clone one gun sequence to another when all you need is to repeat the job
- Save time by inserting or deleting beads without editing the rest of the pattern

Variable line speed compensation

- Match adhesive output with line speed - less at slow speeds, more at high speeds
- Set the right amount when and where you want it

Stitching

- Save adhesive
- Turn stitching on or off with the push of a button
- Use time-based mode for simple pattern control

Operating modes

- Use distance-based at a fixed line speed or with an encoder- when you need precise control or what to adjust to changing line speeds
- Switch between modes without changing the program!



Solenoid GM100 and GS35

- Engineered for optimal control
- Able to withstand high speeds, high temperatures
- Lasts over 5 times longer than comparable solenoids



Safety

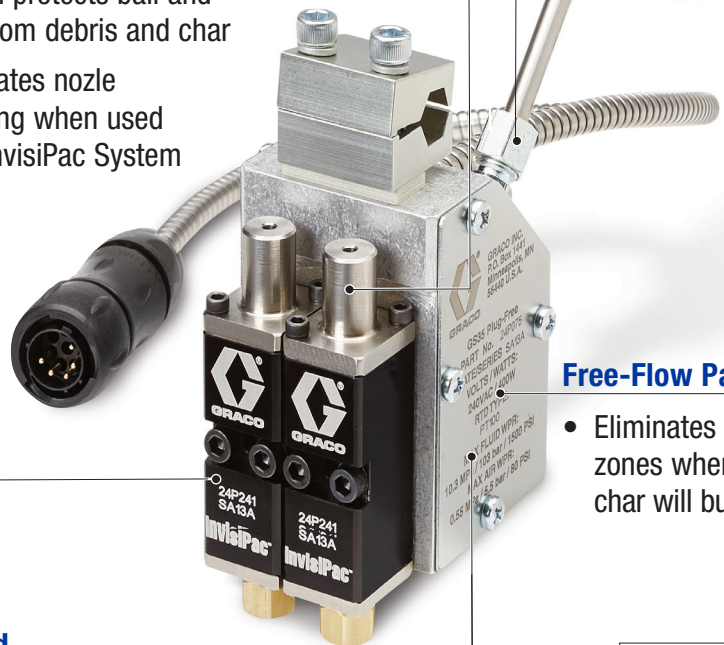
- Third-party certification to UL/CSA

Factory Set Spring

- Works across all pneumatic and fluid pressure ranges – no need for field adjustment

Module Filter

- Design protects ball and seat from debris and char
- Eliminates nozzle plugging when used with InvisiPac System

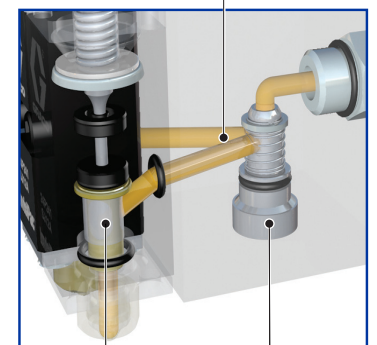


Free-Flow Path

- Eliminates dead zones where char will build up

Manifold

- Reaches operating temperature in less than 10 minutes
- Manifold filter traps debris and eliminates cold spots, ensuring consistent application



InvisiPac® SPECIFICATIONS

INVISIPAC PATTERN CONTROLLER

Description	PC-8	PC-8e	Specifications
Gun Outputs	8	8	24VDC, 1A max
Trigger Inputs	4	4	NPD or PNP
Encoder	N/A	2	Differential Line Driver
Line Speed Compensation	N/A	4	/P(4-20mA) or V/P (0-10v)
PLC Enable/Disable	✓	✓	0-30VDC
PLC Program Select Bits	4	4	Select up to 15 unique programs
PLC Alarm Output	✓	✓	0-250VAC (dry contact output)
Integrated Power Supply	✓	✓	150W, 24VDC
Program Storage	20	20	
Beads Output	24	24	Each bead can be independantly stitched
Distance Accuracy	1mm,0.1"	1mm,0.1"	
Time Accuracy	1 ms	1 ms	
Enclosed Environment Rating	IP54	IP54	
Approvals	CE,ETL. cETL	CE,ETL. cETL	

INVISIPAC HOSES

Length	4-25 ft
Maximum Operating Temperature	204°C (400°F)
Maximum Working Fluid Pressure	1500 psi/103 bar/10.3 MPa
Time to Temperature	Less than 10 minutes**
Available for dry or wash down environments	Built in overtemperature safety interlock



INVISIPAC GS35 PLUG-FREE HOT MELT APPLICATOR

Description	Air Open / Spring Close, Ball and Seat
Speed	Greater than 3,500 cycles/min
Time to temperature	Less than 10 minutes **
Maximum Working Fluid Pressure	500 psi/ 103 bar/ 10.3 MPa
Operating Pneumatic Pressure Range	0-80 psi/2.8-5.5 bar/0.28-0.55 MPa
Maximum Operating Temperature	204°C (400°F)
Ambient Temperature Range	0-50°C (32-122°F)
Solenoid Valve	24 Vac or 110 Vac
Approvals and Standards	UL 499, CSA88, CE, ISO 9001
Electrical Service	200-240 Vac, 50/60 Hz, 400 W

INVISIPAC GM100 PLUG-FREE HOT MELT APPLICATOR

Description	Air Open / Spring Close, Ball and
Speed	Greater than 3,500 cycles/min
Time to temperature	Less than 10 minutes *
Maximum Working Fluid Pressure	1500 psi/ 103 bar/ 10.3 MPa
Operating Pneumatic Pressure Range	40-80 psi/2.8-5.5 bar/0.28-0.55 MPa
Maximum Operating Temperature	204°C (400°F)
Ambient Temperature Range	0-50°C (32-122°F)
Solenoid Valve	24 Vac or 110 Vac
Approvals and Standards	UL 499, CSA88, CE, ISO 9001
Electrical Service	200-240 Vac, 50/60 Hz, 400 W

*From 21°C to 177°C (70°F to 350°F). dependent upon power supply, machine configuration and glue type

INVISIPAC FEEDER SYSTEM

Material Size	1/2" x 1/2" x 1/4" (12mmx12mmxmm)
Maximum Feed Distance	30 ft
Vertical Height	10 ft
Vacuum Transfer Operating Pressure Range	40-100 psi
Vacuum Air Consumption	9.5 scfm @ 40 psi 17.2 scfm @ 80 psi (4% duty cycle)



InvisiPac®

TANK-FREE™ HOT MELT DELIVERY SYSTEM
FOR CASE + CARTON PACKAGING



About Graco

PROVEN QUALITY. LEADING TECHNOLOGY.

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions, namely spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

Sales/ Distribution/ Service

Call today for product information or to request a demonstration.
877.84GRACO (1-877-844-7226) or visit www.graco.com/InvisiPac



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