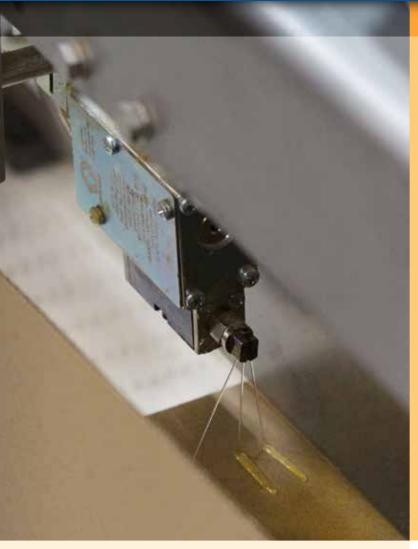


InvisiPac®

Tank-Free[™]**Hot Melt Delivery System**



InvisiPac. So reliable, you'll forget it's even there.

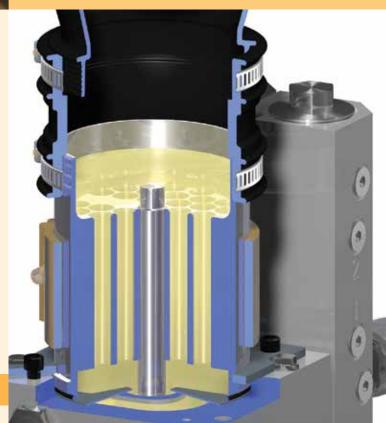


Innovative hot melt equipment for the packaging industry

- Quick start-up ready in less than 10 minutes, eliminating costly downtime
- Tank-Free adhesive supplied and melted to meet your application's demand means less adhesive time at high temperature
- Less adhesive time at high temperature means less char and less material degradation
- No nozzle plugging due to tank char means less system maintenance and more uptime
- Less degradation leads to better shot repeatability less material waste, better quality assurance
- Great performance, even with low-cost adhesives

How it works

Graco's InvisiPac uses an integrated vacuum system to feed adhesive to an in-line melter. An ultrasonic sensor monitors adhesive in the chamber, and additional adhesive is automatically added as needed based on the demand of your application. With its efficient heat transfer design, the InvisiPac System has adhesive throughput capability equivalent to or better than many hot melt tank systems. The result? You get a continuous flow of adhesive during production that significantly reduces the time adhesive sits at temperature. Less time at high temperature means less char, less maintenance and more uptime.





Tank-free design: setting a new packaging industry standard

Why tank-free is preferable to traditional tank systems

- · Consistent adhesive levels help prevent char from forming
- Less molten volume means the adhesive spends less time at temperature resulting in less char and less degradation
- More choices you can use low-grade adhesives when it makes sense or high-grade adhesives to ensure premium performance





Traditional Tank Systems

- Heat to operating temperature slowly
- · Keep large quantities of adhesive at high temperatures
- Allow degradation of adhesive integrity
- Create char and cause plugged nozzles

InvisiPac's Tank-Free System

- Heats to operating temperature quickly
- · Maintains continuous flow of heated-on-demand adhesive
- Safeguards adhesive integrity
- · Eliminates plugged nozzles due to tank char
- Achieves the same or better melt rate than most large-capacity tank systems

A Network of Support for the Packaging Industry

Worldwide Support

With infrastructure throughout the world, your company will benefit from Graco's knowledgeable, global network of professionals.

Proven track record

Graco has close working relationships with many of the world's leading equipment manufacturers and adhesive suppliers. With Graco, you can expect responsive service and support, as well as the accuracy and reliability you demand from your manufacturing equipment.

Global distribution

With a global distribution network, you can count on quick turnaround times for replacement parts and service. With Graco's authorized distributors, you have access to experts who understand the unique needs of your business.

Boost production uptime

Reduce downtime due to plugged nozzles

With the InvisiPac Plug-Free[™] Hot Melt Adhesive Applicator, you'll experience a new era in hasslefree operation. With its innovative free-flow manifold design and integrated module filtering - together with the InvisiPac System - you can eliminate nozzle plugs. You'll finally have a hot melt system that runs reliably, unnoticed and invisible.

Solenoid

- · Graco-engineered for optimal control
- · Designed to withstand high speed, high temperature operation

Safety

· Third-party certification to UL/CSA standards

Factory Set Spring

· 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

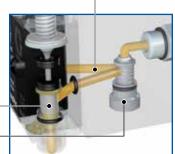
Manifold

- · Manifold filter traps debris and char so it's removed when you replace the filter
- Manifold filter is included in a heated zone, eliminating cold spots and ensuring consistent adhesive application
- Reaches operating temperature in less than 10 minutes



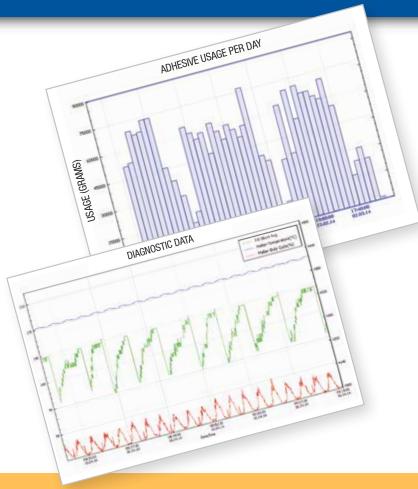


· Designed to eliminate dead zones where char will build up



Other Models Available

Superior tracking and monitoring capabilities



With InvisiPac, you can track material usage and other production events

- USB download of operating data, errors and event history
- Easily graph your adhesive consumption to track cost per unit, saving you money and ensuring quality
- Quantitatively analyze machine performance to improve preventative maintenance and reduce downtime

Superior heated hose design

Graco's char-resistant hose is designed to reduce 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 Rated to IPX6, an international standard for performance in waterwash applications



Technical specifications





InvisiPac Tank-Free Hot Melt Delivery System

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Electrical Service	200-240 Vac, 1-ph, 50/60 Hz 200-240 Vac, 3-ph, 50/60 Hz	200-240 Vac, 1-ph, 50/60 Hz 200-240 Vac, 3-ph, 50/60 Hz
	, , ,	, 1 ,
	400-480 Vac, 3-ph, w/Neutral, 50/60 Hz	400/480 Vac, 3-ph, w/Neutral, 50/60 Hz
T T	200-240 Vac, 3-ph, w/Neutral, 50/60 Hz	400/230 Vac, 3-ph, w/Neutral, 50/60 Hz
Time to Temperature	Less than 10 minutes*	Less than 15 minutes*
Melt Rate / Constant Throughput*	25 lb/hr (11.3 kg/hr)	50 lb/hr (22.6 kg/hr)
Pump	Pneumatic Piston, 12:1	Pneumatic Piston, 12:1
Operating Pneumatic Pressure Range	20-100 psi / 1.4-7 bar / 0.14-0.69 MPa	20-100 psi / 1.4-7 bar / 0.14-0.69 MPa
Operating Fluid Pressure Range	240-1200 psi / 16-83 bar / 1.6-8 MPa	240-1200 psi / 16-83 bar / 1.6-8 MPa Control
Temperature Range	38-204°C (100-400°F)	38-204°C (100-400°F)
Ambient Temperature Range	0-50°C (32-122°F)	0-50°C (32-120°F)
Channels	Up to 6	Up to 6
Maximum Gun Wattage Per Channel	400 W	400 W
Input Capability	4 inputs (0-30Vdc)	4 inputs (0-30Vdc)
Output Capability	4 outputs (240Vac, 24Vdc, 2A)	4 outputs (240Vac, 24Vdc, 2A)
Machine Weight	85 lb (34 kg)	105 lb (48 kg)
Machine Dimensions (WxHxD)	20.7 x 38.4 x 16.9 in	19.0 x 42 x 16.5 in
	(526 mm x 975 mm x 429 mm)	(483 mm x 1067 mm x 419 mm)
Glue shape	Pellets	Pellets
Max. Vacuum Transfer Hose Length	30 ft (9.1 m)	30 ft (9.1 m)
(horizontal x vertical)	20 ft x 10 ft (6.1 m x 3.0 m)	20 ft x 10 ft (6.1 m x 3.0 m)
Vacuum Operating Pneumatic		
Pressure Range	40-80 psi / 2.8-5.5 bar / 0.28-0.55 MPa	40-80 psi / 2.8-5.5 bar / 0.28-0.55 MPa
Vacuum Air Consumption at 40 psi	9.5 scfm (intermittent duty; 4% @ 25 lb/hr)	9.5 scfm (intermittent duty; 4% @ 25 lb/hr)
Vacuum Air Consumption at 80 psi	17.2 scfm (intermittent duty; 4% @ 25 lb/hr)	17.2 scfm (intermittent duty; 4% @ 25 lb/hr)
Approvals and Standards	UL499, CSA88, CE, ISO 9001	UL499, CSA88, CE, ISO 9001

InvisiPac GS35 Plug-Free Hot Melt Adhesive Applicator

invisii do dooo i lag i loo liot ivit	nt Adriosivo Applioatoi		
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	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		
Graco engineered, factory installed			
Electrical Service	200-240 Vac, 50/60 Hz, 400 W		
Approvals and Standards	UL499, CSA88, CE, ISO 9001		

^{*} Melt rates typical for packaging grade adhesives. Actual melt rates may vary due to chemistry and other factors.



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

For detailed dimensions and configurations, see instruction manuals 3A2347, 333347 and 3A2805 available on www.graco.com.



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. Graco provides equipment for 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.

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