Instructions-Parts



GRACO

332544D

ΕN

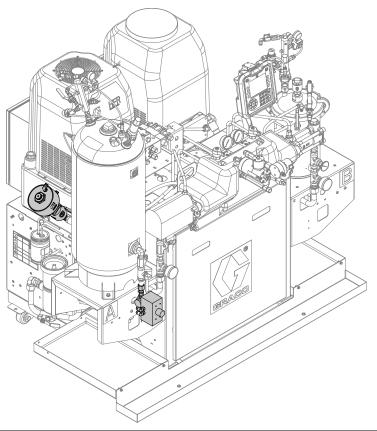
For the draining of stagnant prepoly material and the restoring of new prepoly material. For professional use only.

Not approved for use in explosive atmospheres or hazardous locations.

1000 psi (7 MPa, 69 bar) Maximum Working Pressure



Important Safety Instructions Read all warnings and instructions in this manual and in both the HFR for NVH Foam-Cart and HFR for NVH Foam-Modular manuals.Save all instructions.



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Related Manuals

Manuals are available at www.graco.com. Manuals below are in English:

3A1792	DV Series Dispense Valves, Instructions-Parts
3A1961	HFR for NVH Foam-Modular, Setup-Operation
3A2797	HFR for NVH Foam-Cart, Setup-Operation

Models

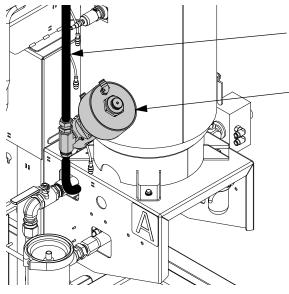
HFR for NVH Foam - Cart Kits

Part No.	Description
24T180	Prepoly refresh with fill valve, NVH Cart Models
24T181	Prepoly refresh without fill valve, NVH Cart Models

HFR for NVH Foam - Modular Kits

Part No.	Description
24T202	Prepoly refresh with fill valve, NVH Modular Models
24T203	Prepoly refresh without fill valve, NVH Modular Models

Typical Installation



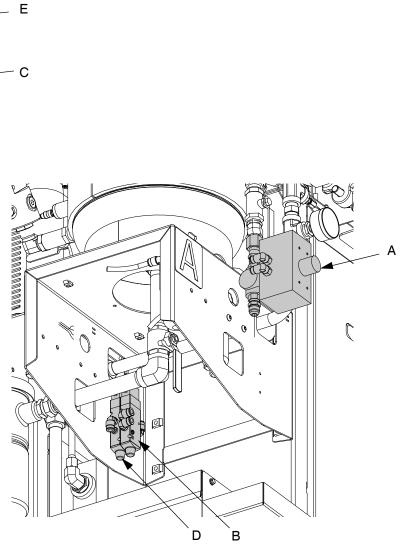


FIG. 1: Typical Installation

Key:

- A Prepoly Refresh Assembly
- B Prepoly Refresh Power Valve
- C Autofill Valve
- D Autofill Valve Power Valve
- E Header (by others)

Overview

The prepoly refresh kit operates by the following sequence.

NOTE: If there is an overlap between the prepoly refresh event and another scheduled event, the prepoly refresh will finish prior to starting the next scheduled event.

NOTE: The prepoly refresh only operates in Night Mode.

- 1. The sequence is activated either manually or by a scheduled event.
- 2. The system will set inline temperature to the prepoly refresh material temperature.
- 3. The system will perform a cold start.
- 4. Once the cold start is complete, the prepoly refresh assembly will activate and allow the material inside the tank to flow into the customer's material supply system at a maximum pressure set by the maximum outlet pressure.
- 5. The tank will empty to the low level sensor.
- 6. The prepoly refresh assembly will return to the initial state and allow material from the customer's mate rial supply system to flow back into the tank.
- 7. The tank will fill to the middle sensor.
- 8. The system will automatically switch back to Night Mode.

The following are the actions that would cause the pre poly refresh sequence to stop.

Action	Tank Refilled
Manually Canceled	No
Standby or Disabled Mode Selected	No
Power Button	No
Red Stop Key	No
Shot, Operator, or Sequence Mode Selected	Yes (If auto fill is active)

Installation



TOXIC FUMES HAZARD:

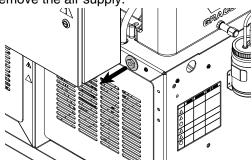
Always wear respirators, protective clothing, and chemically impermeable gloves when servicing equipment.

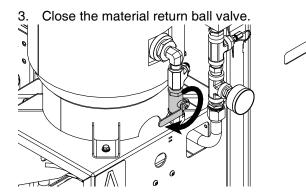
SKIN INJECTION HAZARD:

Follow the **Pressure Relief Procedure** before servicing equipment.

NVH - Cart

- 1. Perform the **Shutdown** procedure found within the HFR for NVH Foam Cart manual.
- 2. Remove the air supply.

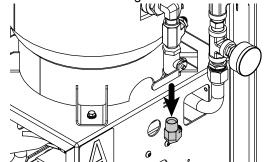




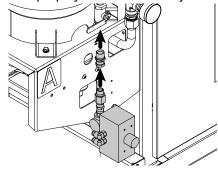
4. Remove the return line.

NOTICE

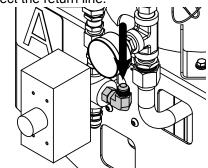
The return line will have chemical inside that will leak out when the return line is loosened. To avoid chemical spills that may cause damage or injury, place a waste container underneath the return line when removing it from the system. 5. Remove the fitting.

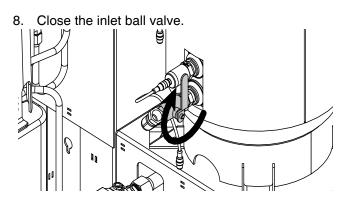


6. Install the prepoly refresh assembly.

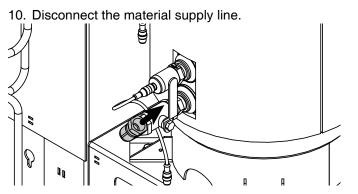


7. Connect the return line.

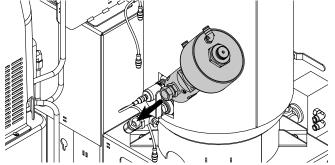




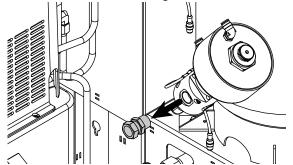
9. Close or depressurize the material supply line.



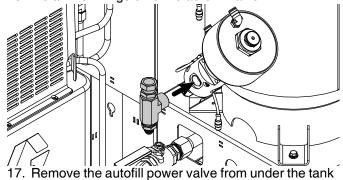
11. Install the autofill valve on the tank if applicable.



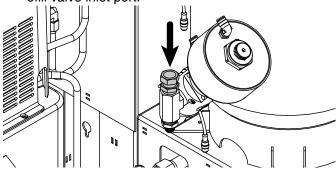
12. Remove the swivel fitting.



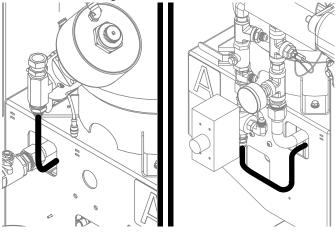
13. Install the fittings onto the autofill valve.



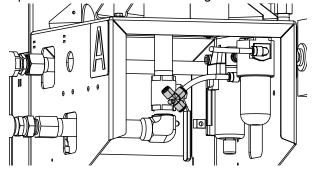
14. Install the material supply line to the 3/4 in. NPT aut ofill valve inlet port.

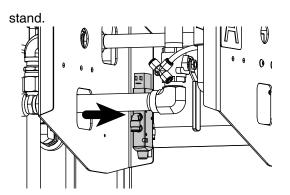


15. Install the stainless steel braided hose from the bot tom port of the prepoly refresh assembly to the aut ofill valve. Route the hose underneath the tank stand mounting bracket.

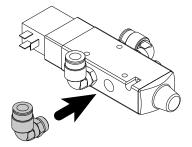


16. Remove the air line from the filter to the autofill power valve. Install the tee fitting onto the airline.

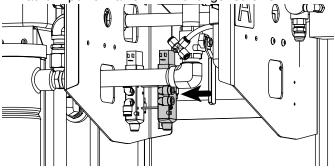




18. Remove the plug and install the air fitting.



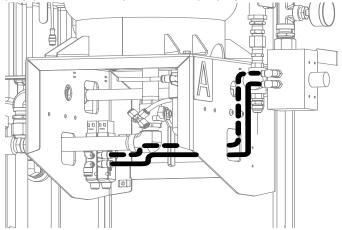
19. Attach the prepoly refresh power valve on top of the autofill power valve with the longer screws.



20. Connect air lines from port 1 of both power valves to the tee fitting.

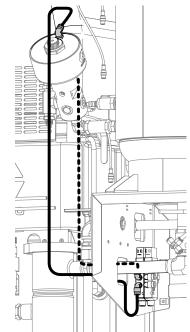
21. Connect the air lines from the prepoly refresh power valve to the prepoly refresh assembly.

NOTE: Connect port 2 of the prepoly power valve to port 2 of the prepoly refresh valve and port 4 of the pre poly power valve to port 4 of the prepoly refresh valve.

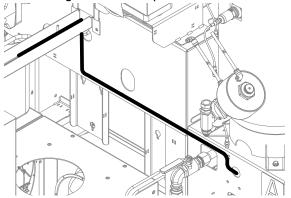


22. Connect air lines from the autofill valve to the autofill power valve. Refer to the DV Series Dispense Vales manual for additional details.

NOTE: Connect port 2 of the autofill power valve to the air-to-close air inlet of the autofill valve and port 4 of the autofill power valve to the air-to-open of the autofill valve.

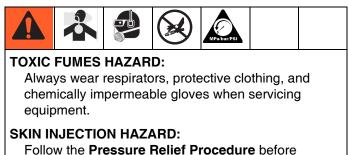


- 23. Connect the prepoly refresh power valve cable to the prepoly refresh power valve.
- 24. Route the prepoly refresh power valve cable. Follow the existing autofill valve power cable.

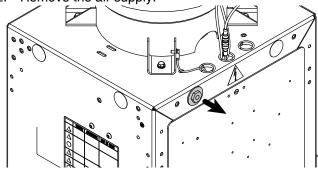


- 25. Disconnect the autofill valve power cable from the extension cable found within the trough. Connect the splitter (121807).
- 26. Connect both power valve cables to the splitter.
- 27. Open all ball valves.
- 28. Connect the air supply.

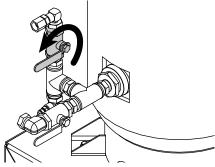
NVH - Modular



- servicing equipment.
- 1. Perform the **Shutdown** procedure found within the HFR for NVH Foam Modular manual.
- 2. Remove the air supply.



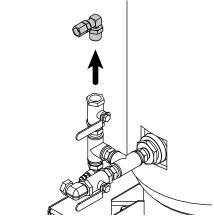
3. Close the material return ball valve.



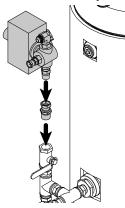
4. Remove the return line.

NOTICE

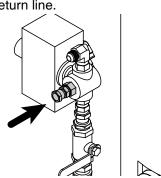
The return line will have chemical inside that will leak out when the return line is loosened. To avoid chemical spills that may cause damage or injury, place a waste container underneath the return line when removing it from the system. 5. Remove the fitting.



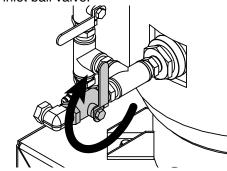
6. Install the prepoly refresh assembly.



7. Connect the return line.

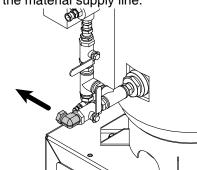


8. Close the inlet ball valve.

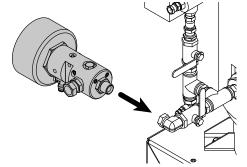


9. Close or depressurize the material supply line.

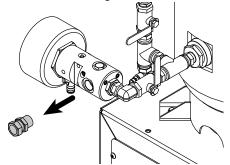
10. Disconnect the material supply line.



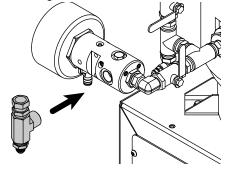
11. Install the autofill valve on the tank if applicable.



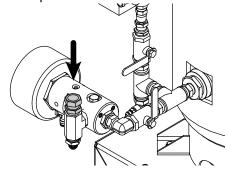
12. Remove the swivel fitting.



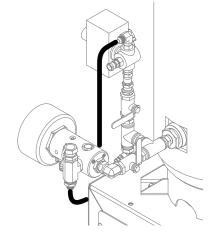
13. Install the fittings onto the autofill valve.



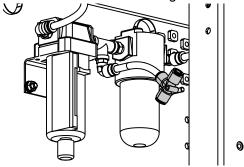
14. Install the material supply line to the 3/4 in. NPT aut ofill valve inlet port.



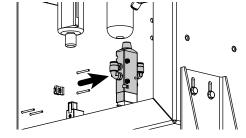
15. Install the stainless steel braided hose from the bot tom port of the prepoly refresh assembly to the aut ofill valve. Route the hose underneath the tank stand mounting bracket.



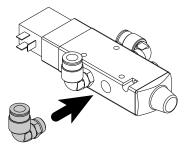
16. Remove the air line from the filter to the autofill power valve. Install the tee fitting onto the airline.



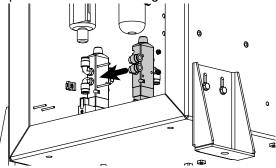
17. Remove the autofill power valve from under the tank stand.



18. Remove the plug and install the air fitting.

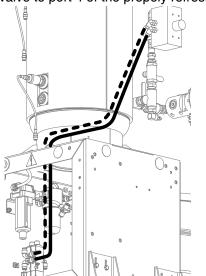


19. Attach the prepoly refresh power valve on top of the autofill power valve with the longer screws.



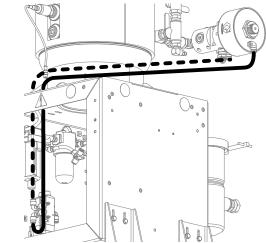
- 20. Connect air lines from port 1 of both power valves to the tee fitting.
- 21. Connect the air lines from the prepoly refresh power valve to the prepoly refresh assembly.

NOTE: Connect port 2 of the prepoly power valve to port 2 of the prepoly refresh valve and port 4 of the pre poly power valve to port 4 of the prepoly refresh valve.



22. Connect air lines from the autofill valve to the autofill power valve. Refer to the DV Series Dispense Vales manual for additional details.

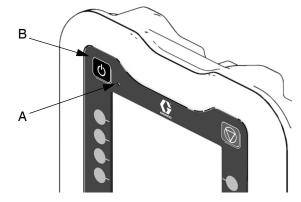
NOTE: Connect port 2 of the autofill power valve to the air-to-close air inlet of the autofill valve and port 4 of the autofill power valve to the air-to-open of the autofill valve.



- 23. Connect the prepoly refresh power valve cable to the prepoly refresh power valve.
- 24. Route the prepoly refresh power valve cable. Follow the existing autofill valve power cable to the FCM located on the panel.
- 25. Disconnect the autofill valve power cable from the FCM. Connect the splitter (121807).
- 26. Connect both power valve cables to the splitter.
- 27. Open all ball valves.
- 28. Connect the air supply.

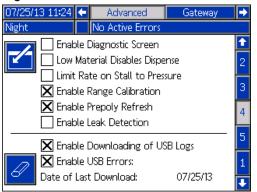
Setup

To begin using the ADM, the machine must be on and enabled. To verify the machine is enabled, verify the System Status Indicator Light (A) is illuminated green. If the System Status Indicator Light is not green, press the ADM Power On/Off Button (B),



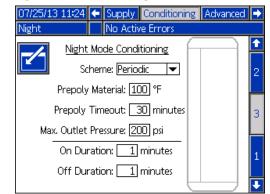
NOTE: The blue token (24M560) must be installed to enable the prepoly refresh feature.

- 1. Press of to select Night mode.
- 2. Press to enter Setup mode.
- 3. Navigate to Advanced Screen 4.



- 4. Press \checkmark to enter the screen.
- Select and activate the "Enable Prepoly Refresh" option.
- 6. Press **to** exit the screen.

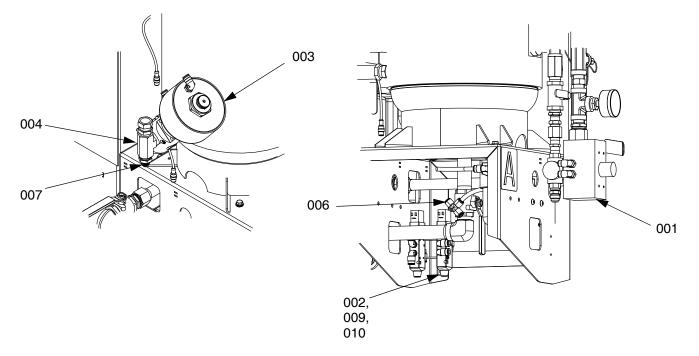
7. Navigate to Conditioning Screen 3.



8. Define the prepoly refresh settings. See **Condition ing Screen 3**, page 21, for more detail.

Parts

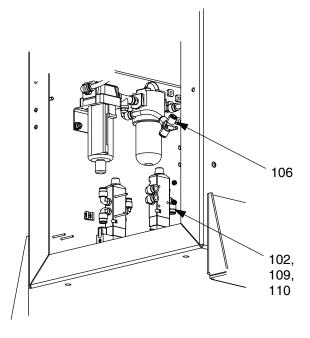
24T180, 24T181

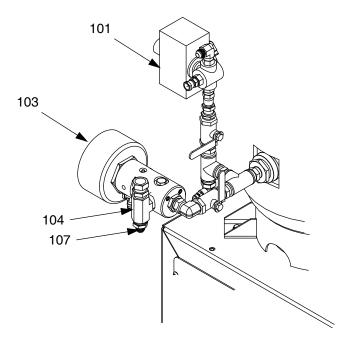


			Qua	ntity
Ref	Part	Description	24T180, KIT, refresh, autofill	24T181, KIT, refresh, no autofill
001	24T184	VALVE, prepoly refresh, NVH cart	1	1
002	24T185	VALVE, assembly, refresh power, NVH	1	1
003	24M419	KIT, refill, HFR, NVH, A-side	1	
004	C20900	FITTING, tee, 3/4x3/4 NPT	1	1
005 🛠	054106	TUBE, plyeth 0.375 OD	8 ft	8 ft
006	U70137	FITTING, tee, 3/8 tube push-lock	1	1
007	124286	FITTING, adapter, 3/4NPTm x 8 JICm	1	1
008 �	16C531	HOSE, assy, SST braid, 1/2x48	1	1
009	122955	HARNESS, m12 x mini din	1	1
010	123673	HARNESS, ext, m12xm12, 5pinx5pin, mxf	1	1
011 🛠	121807	CONNECTOR, splitter	1	1

Parts not shown.

24T202, 24T203

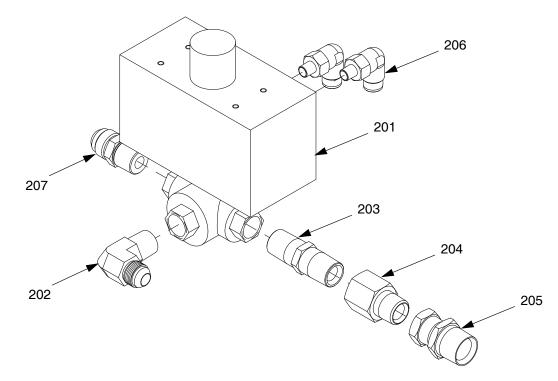




		Quanti		ntity
Ref	Part	Description	24T202, KIT, refresh, autofill	24T203, KIT, refresh, no autofill
101	24T186	VALVE, prepoly refresh, NVH modular	1	1
102	24T185	VALVE, assembly, refresh power, NVH	1	1
103	24M419	KIT, refill, HFR, NVH, A-side	1	
104	C20900	FITTING, tee, 3/4x3/4 NPT	1	1
105 🛠	054106	TUBE, plyeth 0.375 OD	8 ft	8 ft
106	U70137	FITTING, tee, 3/8 tube push-lock	1	1
107	124286	FITTING, adapter, 3/4NPTm x 8 JICm	1	1
108 🛠	16C531	HOSE, assy, SST braid, 1/2x48	1	1
109	122955	HARNESS, m12 x mini din	1	1
110	123673	HARNESS, ext, m12xm12, 5pinx5pin, mxf	1	1
111 🛠	121807	CONNECTOR, splitter	1	1

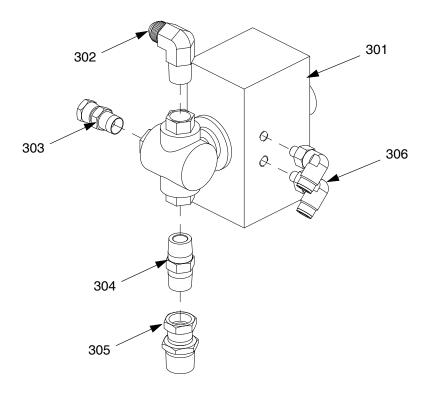
Parts not shown.

Valve, NVH Cart



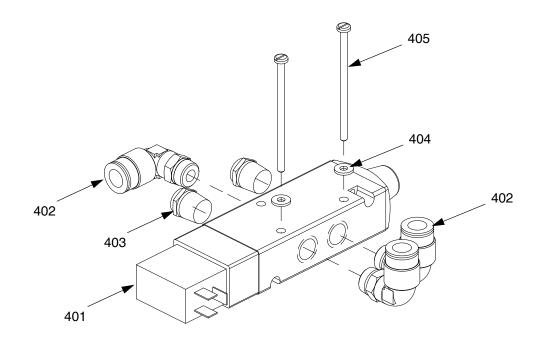
Ref	Part	Description	Quantity
201	16W136	VALVE, ball, 3-way, 1/2NPT, double action	1
202	121486	FITTING, elbow, male, 1/2JICx1/2NPT	1
203	156877	FITTING, nipple, long	1
204	114499	FITTING, adapter	1
205	121282	FITTING, swivel, straight, 1/2fx3/4m	1
206	125383	FITTING, elbow, 1/8NPT, 3/8tube, brass	2
207	120304	FITTING, nipple, straight	1

Valve, NVH Modular



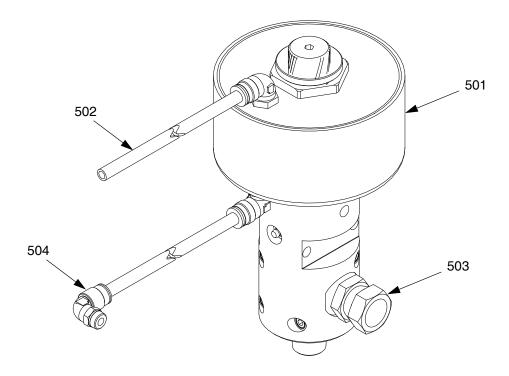
Ref	Part	Description	Quantity
301	16W136	VALVE, ball, 3-way, 1/2NPT, double action	1
302	121486	FITTING, elbow, male, 1/2JICx1/2NPT	1
303	126329	FITTING, swivel, 3/4-16 JICx1/2NPT	1
304	114373	FITTING, nipple, 1/2 NPT, SST hex	1
305	121282	FITTING, swivel, straight, 1/2fx3/4m	1
306	125383	FITTING, elbow, 1/8NPT, 3/8tube, brass	2

Power Valve



Ref	Part	Description	Quantity
401	120900	VALVE, solenoid, 3 way	1
402	121018	FITTING, elbow, male, swivel, 1/4 NPT	3
403	121021	MUFFLER, 1/4 NPT	2
404	107016	WASHER, plain	2
405	108405	SCREW, machined, panhead	2

24M419

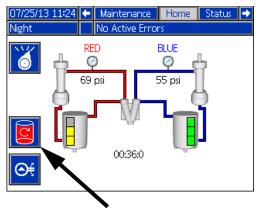


Ref	Part	Description	Quantity
501	V1M350	APPLICATOR, ball seat, 3/4"	1
502	054106	TUBE, plyeth 0.375 OD	6 ft
503	121018	FITTING, elbow, male, swivel, 1/4 NPT	1
504	112268	SWIVEL, union	1

Appendix A - ADM Screens Overview

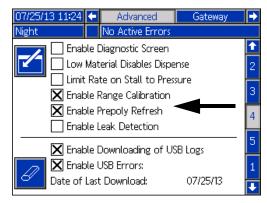
Home Screen

This screen is shown in Night Mode and has the addi tional icon for activating the prepoly refresh manually. The icon is enabled in both periodic and time based night modes.



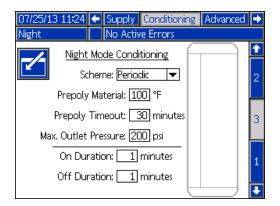
Advanced Screen 4

This screen has the additional option of activating the prepoly refresh.



Conditioning Screen 3

Periodic Night Mode Conditioning Screen



• Scheme: Select between either Time or Periodic modes. Time mode will activate the prepoly refresh at the set time and day specified. Periodic (or man ual) mode will activate the prepoly refresh only by

pressing en the Home Screen when in Night mode.

NOTE: The manual activate prepoly refresh but

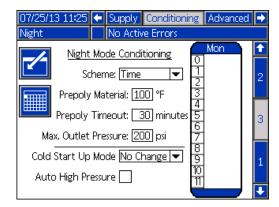
ton, I is available for either Scheme selected.

- **Prepoly Material:** Sets the material temperature during a prepoly refresh.
- **Prepoly Timeout:** Sets the time limit of the prepoly refresh. If the process times out, it will cancel the prepoly refresh and return to Night Mode.

NOTE: The tank will not refill.

• Max. Outlet Pressure: Sets the maximum pressure of the material that will be returned back into the customer's material supply. This pressure should not exceed the material supply maximum working pressure.

Time Based Night Mode Conditioning Screen



Technical Data

Prepoly Refresh Kit	US	Metric		
Maximum operating pressure*	200 psi	1.4 MPa, 14 bar		
Air pressure operating range	80-100 psi	0.5-0.7 MPa, 5.5-7 bar		
Maximum fluid operating temperature	180° F	82° C		
Inlet/Outlet Sizes				
DV valve, air open size		3/8 in. tube		
DV valve, air close size		3/8 in. tube		
DV valve, fluid inlet size		3/4 in. npt (f)		
DV valve, fluid outlet size		3/4 in. npt (m)		
3-way ball valve, air size		3/8 in. tube		
3-way ball valve, fluid inlet size		1/2 in. npt (f)		
3-way ball valve, fluid outlet size		1/2 in. npt (f)		
Materials of Construction**				
Wetted materials on all models		Stainless steel, tungsten carbide, chemical resistant fluoro elastomer rubber, UHMWPE, PTFE		
Weight				
24T180, 24T202	29 lb.	13 kg		
24T181, 24T203	14 lb.	14 lb. 6 kg		
Notes				
* Pressure should not exceed the mate	rial supply maximum working	g pressure.		

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

FOR GRACO CANADA CUSTOMERS

The Parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présente document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés, à la suite de ou en rapport, directement ou indirectement, avec les procédures concernées.

Graco Information

Sealant and Adhesive Dispensing Equipment

For the latest information about Graco products, visit www.graco.com. For patent information, see www.graco.com/patents.

TO PLACE AN ORDER, contact your Graco distributor, go to www.graco.com and select "Where to Buy" in the top blue bar, or call to find the nearest distributor. If calling from the US: 800-746-1334 If calling from outside the US: 0-1-330-966-3000

All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 332544

Graco Headquarters: Minneapolis International Offices: Belgium, China, Japan, Korea

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