

PHX-55 Proportioner

Hydraulic, Heated, Plural Component Proportioner For spraying Polyurethane Foam and Coatings For Professional Use Only

Not approved for use in explosive atmosphere locations

Addendum to PHX-40 Service Manual

Ref. # MN-04027 Revision 1.0 December 15, 2016

CE

Polyurethane Machinery Corp.

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Before installing the PH Series Proportioner and start-up, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information in order to know and understand the operation and the conditions of use of the PH Series Proportioner. All of the information is aimed at improving user safety and avoiding possible breakdowns from the incorrect use of the PH Series Proportioner.



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WARRANTY

Polyurethane Machinery Corporation (hereinafter "PMC") provides this **LIMITED WARRANTY** (hereinafter "Warranty") to the original purchaser (hereinafter "Customer") covering this equipment and the original PMC manufactured accessories delivered with the equipment (hereinafter "Product") against defects in material or workmanship of the Product (hereinafter "Defect" or "Defective") for a period of one (1) year from the date of first purchase as shown on the original PMC invoice (hereinafter "Warranty Period").

If during the Warranty Period under normal use, the Product is suspected by Customer to be Defective in material or workmanship, it is Customer's responsibility to contact PMC and return the Product to PMC as directed by PMC, freight prepaid. If PMC determines that the Product is Defective and that such Defect is covered by this Warranty, PMC will credit Customer for the reasonable freight charges incurred by Customer in returning the Defective Product to PMC, and PMC (or its authorized agent) will, at PMC's option, repair or replace the Product, subject to the following:

<u>Original Invoice</u>: The original invoice must be kept as proof of the date of first sale and the Product serial number. The Warranty does not cover any Product if the Original Invoice appears to have been modified or altered, or when the serial number on the Product appears to have been altered or defaced.

<u>Product Maintenance:</u> It is the Customer's responsibility to maintain the Product properly. See your maintenance schedule and owner's manual for details. The Warranty does not cover an improperly maintained Product.

<u>Non-PMC Components and Accessories:</u> Non-PMC manufactured components and accessories that are used in the operation of the Product are not covered by this Warranty. Such components and accessories shall be subject to the warranty offered to the Customer, if any, by the original manufacturer of such component or accessory.

<u>Other Warranty Exclusions:</u> The Warranty does not cover any Product that PMC determines has been damaged or fails to operate properly due to misuse, negligence, abuse, carelessness, neglect, or accident. By way of example only, this includes:

- Normal wear and tear.
- Improper or unauthorized installation, repair, alteration, adjustment or modification of the product.
- Use of heating devices, pumping equipment, dispensers, or other parts or accessories with the product that have not been approved or manufactured by PMC.
- Failure to follow the operating instructions and recommendations provided by PMC.
- Cosmetic damage.
- Fire, flood, "acts of God," or other contingencies beyond the control of PMC.



THE WARRANTY DESCRIBED HEREIN IS THE EXCLUSIVE REMEDY FOR THE CUSTOMER AND IS IN LIEU OF ALL OTHER WARRANTIES. EXPRESS. IMPLIED. STATUTORY OR OTHERWISE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES ARE HEREBY DISCLAIMED. TO THE FULLEST EXTENT PERMITTED BY LAW, PMC SHALL NOT BE RESPONSIBLE, WHETHER BASED IN CONTRACT. TORT (INCLUDING, WITHOUT LIMITATION, **NEGLIGENCE**). WARRANTY OR ANY OTHER LEGAL OR EQUITABLE GROUNDS, FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, LOST PROFITS, SPECIAL, PUNITIVE OR EXEMPLARY DAMAGES, WHETHER TO PERSON OR PROPERTY, ARISING FROM OR RELATING TO THE PRODUCT, EVEN IF PMC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES.

<u>Non-Warranty Service by PMC:</u> If PMC determines that the suspected Defect of the Product is not covered by this Warranty, disposition of the Product will be made pursuant to the terms and conditions of PMC's written estimate on a time and materials basis.

<u>Continuing Warranty for Products Repaired or Replaced under Warranty:</u> Following the repair or replacement of a Product covered by this Warranty, such Product will continue to be subject to the original Warranty for the remainder of original Warranty Period or for three (3) months from the repair or replacement date, whichever is longer.

<u>No Rights Implied:</u> Nothing in the sale, lease or rental of any Product by PMC shall be construed to grant any right, interest or license in or under any patent, trademark, copyright, trade secret or other proprietary right or material owned by anyone; nor does PMC encourage the infringement of same.

<u>Exclusive Warranty:</u> This writing is the final, complete, and exclusive expression of the Warranty covering the Product. Any statements made by PMC, its employees or agents that differ from the terms of this Warranty shall have no effect. It is expressly understood that Customer's acceptance of this Warranty, by performance or otherwise, is upon and subject solely to the terms and conditions hereof, and any additional or different terms and conditions proposed or expressed by Customer or anyone, whether in writing or otherwise, are null and void unless specifically agreed to in writing by an Officer of PMC.



SAFETY AND HANDLING

This chapter contains important information on the safety, handling, and use of your PH Series Proportioner.



Before installing the PH Series Proportioner and start-up, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information in order to know and understand the operation and the conditions of use of the PH Series Proportioner. All of the information is aimed at improving user safety and avoiding possible breakdowns from the incorrect use of the PH Series Proportioner.

WARNING! Presents information to alert of a situation that might cause serious injuries if the instructions are not followed.

CAUTION! Presents information that indicates how to avoid damage to the Proportioner or how to avoid a situation that could cause minor injuries.

NOTE! Is relevant information of a procedure being carried out.

Careful study of this manual will enable the operator to know the characteristics of the PH Series Proportioner and the operating procedures. By following the instructions and recommendations contained herein, you will reduce the potential risk of accidents in the installation, use or maintenance of the PH Series Proportioner; you will provide a better opportunity for incident-free operation for a longer time, greater output and the possibility of detecting and resolving problems quickly and simply.

Keep this document for future consultation of useful information at all times. If you lose this manual, ask for a new copy from your PMC Distributor or go online and visit our web site at www.polymac-usa.com.

The PH Series Proportioner has been designed and built for the application of polyurea chemical systems, polyurethane foam chemical systems, and some two-component epoxy systems.



WARNING! The design and configuration of the PH Series Proportioner does not allow its use in potentially explosive atmospheres, or the pressure and temperature limits described in the technical specifications of this manual to be exceeded.

Always use liquids and solvents that are compatible with the unit. If in doubt, consult your PMC Distributor.

When working with the PH Series Proportioner, it is recommended that the operator wear suitable clothing and elements of personal protection, including, without limitation, gloves, protective goggles, safety footwear, and face masks. Use breathing equipment when working with the PH Series Proportioner in enclosed spaces or in areas with insufficient ventilation. The introduction and follow-up of safety measures must not be limited to those described in this manual. Before starting up the PH Series Proportioner, a comprehensive analysis must be made of the risks derived from the products to be dispensed, the type of application, and the working environment.



To prevent possible injury caused by incorrect handling of the raw materials and solvents used in the process, carefully read the Material Safety Data Sheet (MSDS) provided by your supplier.

Deal with the waste caused according to current regulations.

To avoid damage caused by the impact of pressurized fluids, do not open any connection or perform maintenance work on components subject to pressure until the pressure has been completely eliminated.

Use suitable protection when operating, maintaining or being present in the area where the equipment is functioning. This includes, but is not limited to, the use of protective goggles, gloves, shoes and safety clothing and breathing equipment.

The equipment includes components that reach high temperatures and can cause burns. Hot parts of the equipment must not be handled or touched until they have cooled completely.

To prevent serious injury through crushing or amputation, do not work with the equipment without the safety guards installed on the moving parts. Make sure that all the safety guards are correctly reinstalled at the end of the repair or maintenance work of the equipment.



TECHNICAL SPECIFICATIONS

<u>Electrical</u>

Main Voltage:	3 x 208-230V, 50/60Hz
Electrical Consumption:	107 A @ 3 x 230V
Material Heater Power:	21 kW
Hose Transformer Power:	5 KVA (120 V)
Electrical Motor Power:	7.5 HP
Frequency:	60 Hz



CAUTION! Inside the console is a Terminal Strip for connecting the main power (wire not supplied) to the PH Series Proportioner. This electrical connection must be made only by a qualified electrician.

Mechanical

Maximum working pressure:	3,500 psi (241 bar)
Maximum production ratio 1:1:	3.5 GPM (13 LPM)
Maximum hose length:	410 ft (123 m)
Approximate weight (Hydraulic Tank empty):	655 lbs (297 kg)
Approximate weight (Hydraulic Tank full @ 20 gal (76 liters)	795 lbs (360 kg)
Dimensions (English):	_40in W x 26in D x 53.5in H
Dimensions (Metric) (101e	cm W x 66cm D x 136cm H)



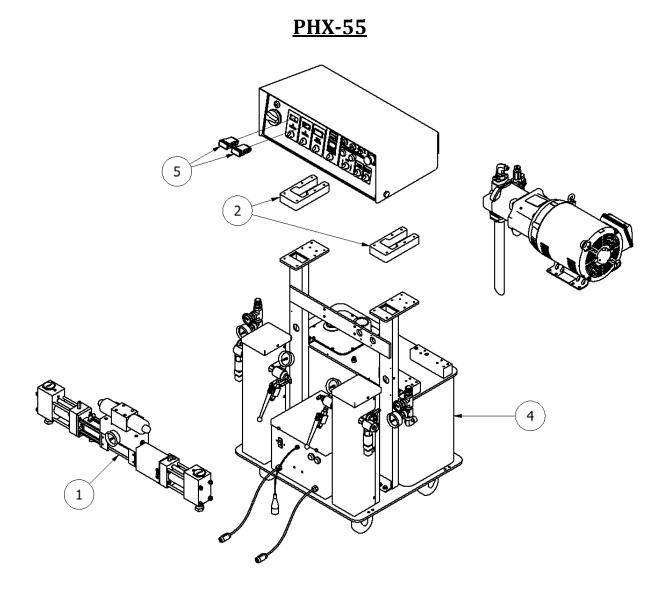
REPLACEMENT KITS

All replacement kits for the PHX-40 are compatible with the PHX-55 with the exception of the Hydraulic Cylinder Rebuild Kit (KT-05025). See chart below for details.

Hydraulic Cylinder Rebuild Kit, PH-55 (KT-05025-55)			
PART NUMBER	QTY	DESCRIPTION	
HI-05025-1	2	U-Cup	
HI-05025-2	2	Back-up Ring, Piston	
HI-05025-3	1	Wear Ring	
HI-05025-4	2	Rod Wiper	
HI-05025-5	2	Shaft Seal	
HI-05025-6	2	Back-up Ring, Bushing	
200195	2	O-ring	
OR-00039A	2	O-ring	
OR-00040A	2	O-ring	



PART IDENTIFICATION



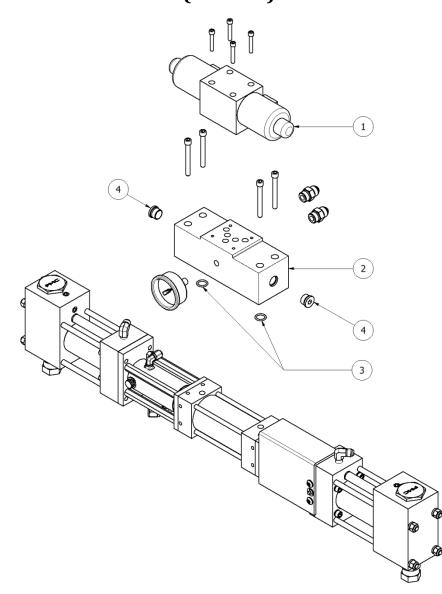
PH-55			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PL-55	PUMP LINE ASSEMBLY, PH55
2	2	200181	CONSOLE MOUNTING BRACKET, PH55
3	1	ML-55	MOTOR LINE ASY; 7.5HP, 3PH, 60HZ
4	1	FR-55-1	FRAME/TANK ASSEMBLY, PH55
5	1	200509	TEMPERATURE CONTROLLER, PH(X)-55





Pump Line Assembly

(200500)

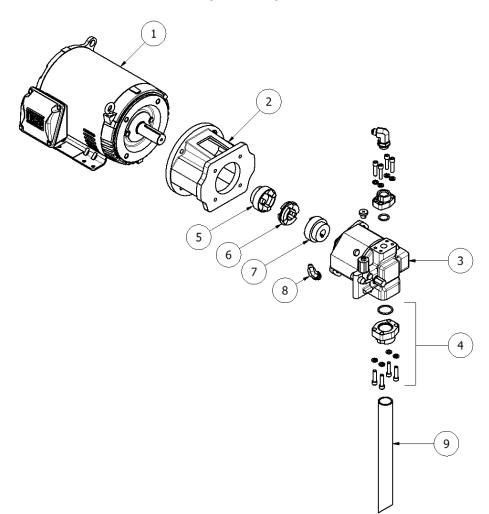


PART LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	200194	DIRECTIONAL VALVE, PH-55
2	1	200184	HV HYDRAULIC MANIFOLD, PH-55
3	1	200195	O-RING, 114, VITON
4	2	HI-05033	3/4-16 O-RING PLUG



Motor Line Assembly

(ML-55)



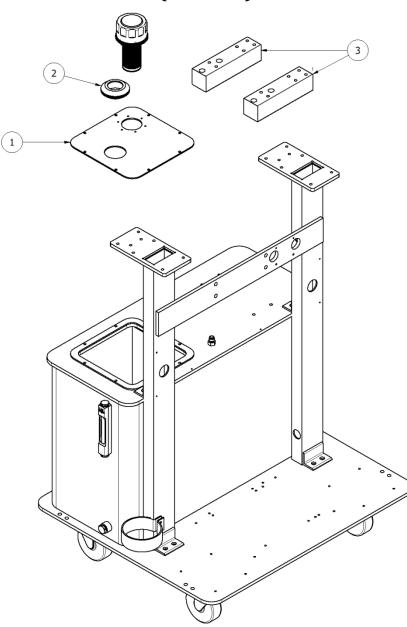
MOTOR LINE ASSEMBLY (ML-55)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	200185	7.5 WEG MOTOR, PH55
2	1	200188	BELL HOUSING, 2-BOLT, PH55
3	1	200192	28CC PUMP, PH55
4	1	200187	1-1/4" NPT FLANGE
5	1	200189	MAGNALOY HUB, PH55
6	1	200191	COUPLING INSERT, 3/4" BORE
7	1	200190	MAGNALOY COUPLING, 7/8 X 1/5
8	1	200193	FITTING, 8 ORB X 6 JIC MALE ELBOW
9	1	200182	1.25X16 BLACK PUPE FOR HYDRAULIC, PH55



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Frame Assembly

(FR-55-1)



FR-55-1			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	200180	TANK LID, PH55
2	1	200186	GROMMET MODIFIED 1-5/8"
3	2	200183-4	HV MOTOR BRACKET, PH55