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ZoomLock® PUSH

PUSH-TO-CONNECT REFRIGERANT FITTINGS

ZoomLock® PUSH Push-to-Connect Refrigerant Fittings

Catalog K-2, August 2020



ENGINEERING YOUR SUCCESS.

PARKER SAFETY GUIDE FOR SELECTING AND USING ZOOMLOCK FITTINGS AND RELATED ACCESSORIES

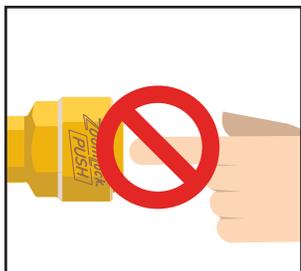
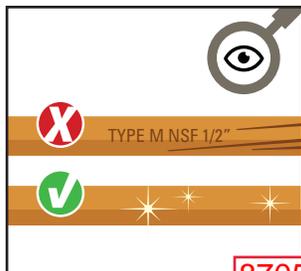
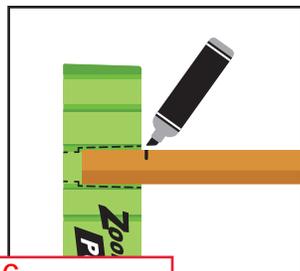
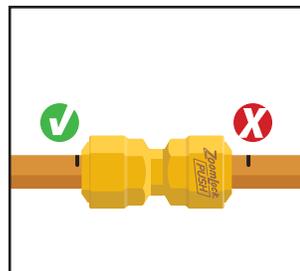
WARNING

FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS, IMPROPER SELECTION OR IMPROPER USE OF ZOOMLOCK FITTINGS AND RELATED ACCESSORIES (“PRODUCTS”) CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. POSSIBLE CONSEQUENCES OF FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric power lines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping copper line.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion from flammable liquids.

BEFORE SELECTING OR USING ANY OF THESE PRODUCTS, IT IS IMPORTANT THAT YOU READ AND FOLLOW THE INSTALLATION INSTRUCTIONS.

KEY STEPS FOR SAFETY

 <p>KEEP FINGERS OUT OF FITTINGS</p>	 <p>PROPER TUBE SELECTION & P</p>	 <p>MARK DEPTH</p>	 <p>CHECK TUBE DEPTH</p>
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WARNING – USER RESPONSIBILITY

Failure or improper selection or improper use of the products described in this document can cause death, personal injury and property damage.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

For safety information see the Safety Guide at www.parker.com/safety or call 1-800-CParker.

OFFER OF SALE

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed “Offer of Sale” elsewhere in this document or available at www.parker.com.

ZoomLock PUSH

Push-to-Connect Refrigerant Fittings

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Compatible Components

To make a system convenient to install, ODM x ODM ZoomLock compatible components are available including:

- » Ball Valves
- » Moisture and Liquid Indicators
- » Solenoid Valves
- » Filter-Driers



ATTENTION!

WARRANTY COULD BE VOID IF ZOOMLOCK PUSH IS NOT APPLIED PER INSTRUCTIONS! CAREFULLY READ ALL INSTALLATION INSTRUCTIONS (SEE PAGE 9) AND WATCH VIDEOS.



ZoomLockPUSH.com



Connect Copper with a Simple PUSH!

ZoomLock®
PUSH

PUSH-TO-CONNECT REFRIGERANT FITTINGS

HVAC/R pros know that time is money. ZoomLock® PUSH push-to-connect refrigerant fittings allow contractors to successfully make clean, leak-free



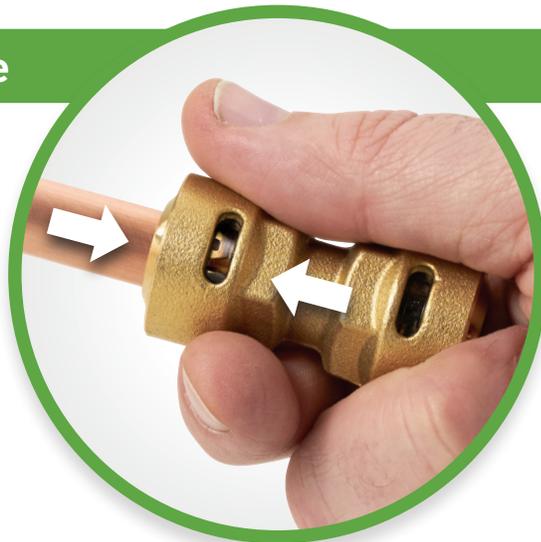
connections on HVAC/R systems in seconds, without the use of a brazing torch or press tool and jaw.

ZoomLock PUSH eliminates brazing, flames, fire spotters, and the risks associated with installation of traditional HVAC/R fittings.

ZoomLock PUSH offers a way for contractors to connect refrigerant lines in seconds, boosting efficiency while providing the safety and reliability you expect from Parker.

The ZoomLock PUSH Advantage

- » No press tool or jaws needed
- » Fast and easy install
- » Cleaner system installs
- » Secure, leak-free connections
- » Safer conditions, no fire hazards
- » No hot-work permits
- » No need to nitrogen-purge
- » Flexible access to job sites



HELPING YOUR BUSINESS WIN MORE BUSINESS™

ZoomLock PUSH

Push-to-Connect Refrigerant Fittings



Applications

- » High Pressure HVAC/R

Product Parameters

- » **Continuous Operating Temperature:**
250°F / 121°C
- » **O-Ring Temperature Rating:**
-40°F to +300°F
-40°C to +149°C
- » **Maximum Rated Pressure (MRP):**
700 psi / 48 bar
- » **Minimum Burst Pressure (UL 207):**
2,100 psi / 145 bar
- » **Vacuum Pressure Capability:**
500 Microns
- » **External Leak Rate:**
<0.1 Ounces of Helium per Year at Operating Pressure Range
- » **Vibration Resistance:**
Conforms to UL109
- » **Size Availability (Inches):**
1/4, 3/8, 1/2, 5/8, 3/4, 7/8

Fitting Materials

- » **Fitting Body:**
Refrigerant Grade Copper, per ASTM-B75 or ASTM-B743
- » **O-Ring:**
HNBR

Fitting Warranty

- » Read page 11 for more details.

Compatibility

- » **Approved Oils:** POE
- » **Approved Tubing Materials:**
Copper to Copper Connections
- » **Approved Tubing Tolerance:**
ASTM B280, UNI EN 12735
- » **Approved Copper Tubing Types:**
Hard Copper (Drawn)
- 1/4" – 7/8" Type ACR, M, L, K
Soft Copper (Annealed)
- 1/4" – 7/8" Type ACR, L, K

Approved Refrigerants

- » R134a, R410A

Agency Approvals and Certifications

- » UL Listed SA7511
Approved use for field and factory installations
- » ASHRAE-15, ANSI 15, ASME B31.5, ANSI 31.5

ZoomLock PUSH is NOT approved for use with HCFCs, i.e., R-22 (chlorinated refrigerants).

Refer to ZoomLockPUSH.com for the latest approved refrigerants list.

ZoomLock PUSH

Push-to-Connect Refrigerant Fittings

COUPLINGS

R410A OPTIMIZED



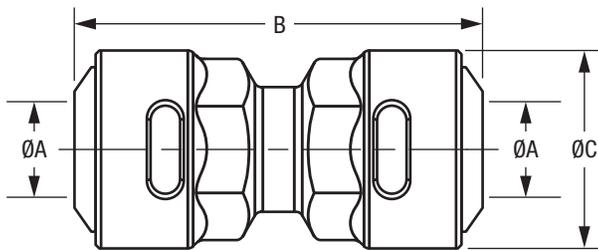
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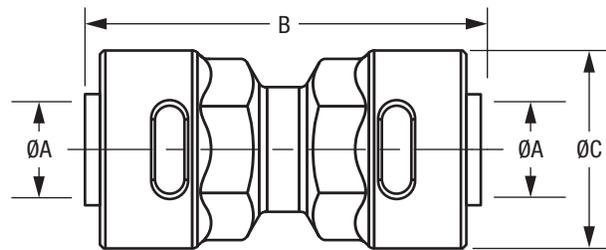
Size (Inches)	Part Number	Description	Dimensions					
			A		B		C	
			Inch	mm	Inch	mm	Inch	mm
1/4	777100	PZKP-C4-HNBR	0.26	6.65	1.89	48	0.79	20
3/8	777101	PZKP-C6-HNBR	0.38	9.70	1.97	50	0.95	24
1/2	777102	PZKP-C8-HNBR	0.51	13.0	2.13	54	1.06	27
5/8	777103	PZKP-C10-HNBR	0.64	16.2	2.24	57	1.18	30
3/4	777104	PZKP-C12-HNBR	0.76	19.3	2.58	65.5	1.46	37
7/8	777105	PZKP-C14-HNBR	0.89	22.5	2.62	66.5	1.57	40

Size (Inches)	Part Number	Description	Dimensions					
			A		B		C	
			Inch	mm	Inch	mm	Inch	mm
1/4	777133	PZKPR-C4	0.26	6.65	1.89	48	0.79	20
3/8	777134	PZKPR-C6	0.38	9.70	1.97	50	0.95	24
1/2	777135	PZKPR-C8	0.51	13.0	2.13	54	1.06	27
5/8	777136	PZKPR-C10	0.64	16.2	2.24	57	1.18	30
3/4	777137	PZKPR-C12	0.77	19.5	2.58	65.5	1.46	37
7/8	777138	PZKPR-C14	0.89	22.6	2.62	66.5	1.57	40

Dimensions



Dimensions



ZoomLock **PUSH**

Push-to-Connect Refrigerant Fittings

ELBOWS - 90 degree

R410A OPTIMIZED



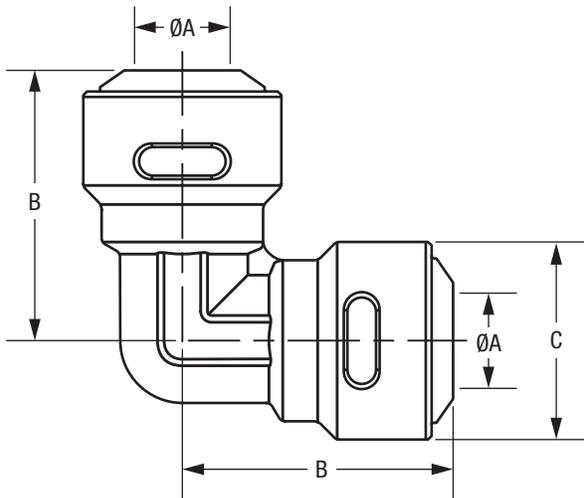
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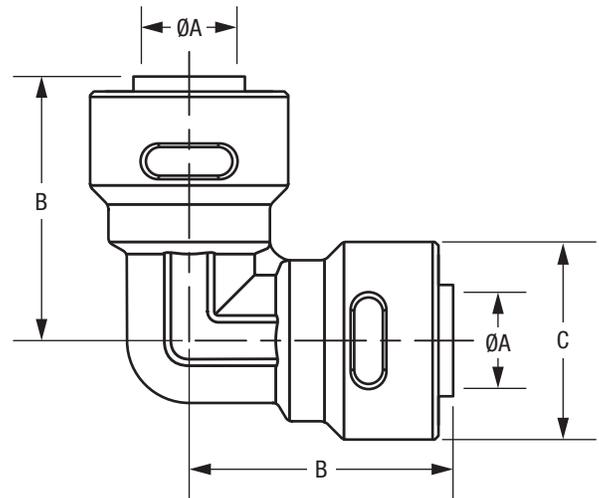
Size (Inches)	Part Number	Description	Dimensions					
			A		B		C	
			Inch	mm	Inch	mm	Inch	mm
1/4	777110	PZKP-90E4-HNBR	0.26	6.65	1.16	29.5	0.79	20
3/8	777111	PZKP-90E6-HNBR	0.38	9.70	1.26	32	0.95	24
1/2	777112	PZKP-90E8-HNBR	0.51	13.0	1.42	36	1.06	27
5/8	777113	PZKP-90E10-HNBR	0.64	16.2	1.54	39	1.18	30
3/4	777114	PZKP-90E12-HNBR	0.76	19.3	1.73	44	1.46	37
7/8	777115	PZKP-90E14-HNBR	0.89	22.5	1.77	45	1.57	40

Size (Inches)	Part Number	Description	Dimensions					
			A		B		C	
			Inch	mm	Inch	mm	Inch	mm
1/4	777143	PZKPR-90E4	0.26	6.65	1.16	29.5	0.79	20
3/8	777144	PZKPR-90E6	0.38	9.70	1.26	32	0.95	24
1/2	777145	PZKPR-90E8	0.51	13.0	1.42	36	1.06	27
5/8	777146	PZKPR-90E10	0.64	16.2	1.54	39	1.18	30
3/4	777147	PZKPR-90E12	0.77	19.5	1.73	44	1.46	37
7/8	777148	PZKPR-90E14	0.89	22.6	1.77	45	1.57	40

Dimensions



Dimensions



ZoomLock PUSH

Push-to-Connect Refrigerant Fittings

SAE FLARE ADAPTERS

R410A OPTIMIZED



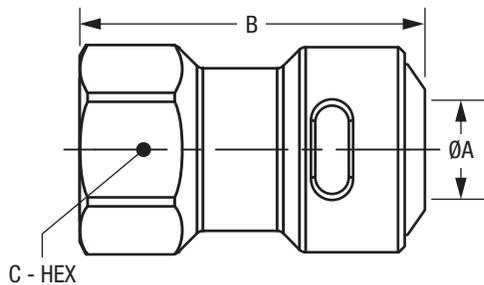
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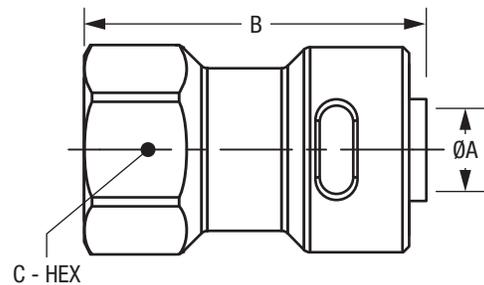
Size Inches	Part Number	Description	Dimensions						SAE Threads (UNF)
			A		B		C		
			Inch	mm	Inch	mm	Inch	mm	
1/4	777106	PZKP-F4-HNBR	0.26	6.65	1.52	38.5	0.67	17	7/16-20
3/8	777107	PZKP-F6-HNBR	0.38	9.70	1.63	41.5	0.87	22	5/8-18
1/2	777108	PZKP-F8-HNBR	0.51	13.0	1.83	46.5	0.95	24	3/4-16
5/8	777109	PZKP-F10-HNBR	0.64	16.2	2.09	53	1.06	27	7/8-14

Size Inches	Part Number	Description	Dimensions						SAE Threads (UNF)
			A		B		C		
			Inch	mm	Inch	mm	Inch	mm	
1/4	777139	PZKPR-F4	0.26	6.65	1.52	38.5	0.67	17	7/16-20
3/8	777140	PZKPR-F6	0.38	9.70	1.63	41.5	0.87	22	5/8-18
1/2	777141	PZKPR-F8	0.51	13.0	1.83	46.5	0.95	24	3/4-16
5/8	777142	PZKPR-F10	0.64	16.2	2.09	53	1.06	27	7/8-14

Dimensions



Dimensions

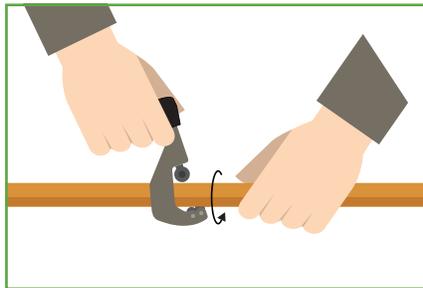


ZoomLock **PUSH**

Push-to-Connect Refrigerant Fittings

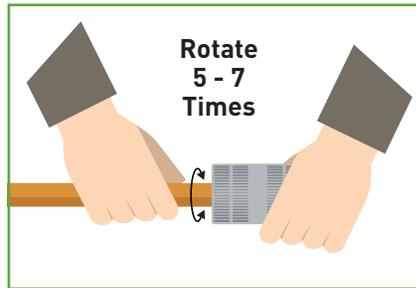
INSTALLATION OF FITTING

⚠ CAUTION: Do not insert fingers in to the grip ring inside the fitting. Immediate emergency medical attention may be required for removal.



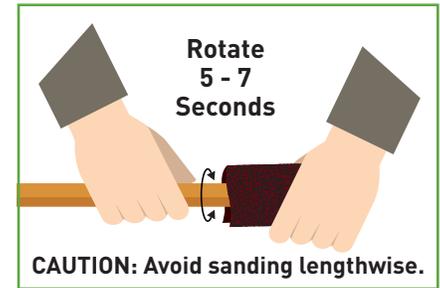
STEP 1 - CUT COPPER TUBE

Cut copper tube using a commercially available tube cutter. Verify tube cutter is properly maintained and wheel is sharp. **DO NOT** use any type of saw as this creates a sharp surface that will cut the o-ring.



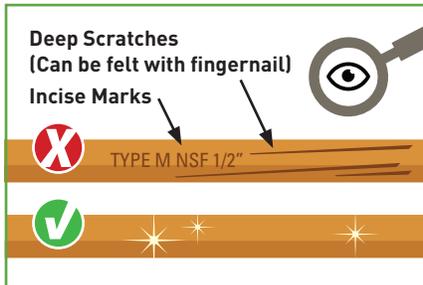
STEP 2 - DEBURR

ALL tubing MUST have the outer diameter **deburred** prior to ZoomLock PUSH fitting installation. Rotate tool back-and-forth 5 - 7 times to remove all sharp edges and burrs. **Perform this step BEFORE** sanding.



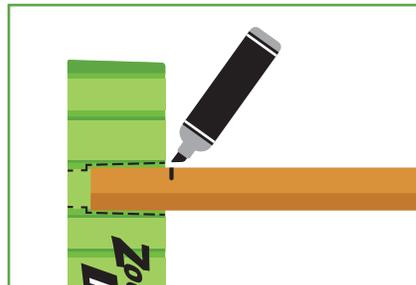
STEP 3 - SAND and CLEAN

ALL tubing must be SANDED and CLEANED. Use a general purpose hand pad or sand cloth. **SAND tube in RADIAL DIRECTION** as shown with arrows for 5 - 7 seconds or 10 - 14 times back-and-forth. Remove residual debris from tube end.



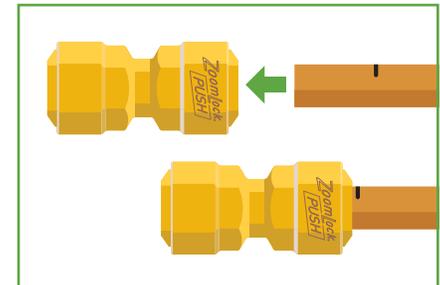
STEP 4 - INSPECT TUBE

INSPECT copper tube AFTER sanding. Assure there are **NO VISIBLE SCRATCHES, INCISE MARKS, TUBE DEFECTS OR TUBE OUT OF ROUND.** Area of importance is within 1½ inches from tube end. If scratches are present, cut off affected areas and repeat Steps 2 and 3 or sand thoroughly to remove.



STEP 5 - MARK DEPTH

Using the depth gauge (provided in the ZoomLock PUSH Installation Kit, P/N 777091) determine the correct insertion depth. Mark the tubing with permanent depth. Mark the tubing with permanent depth on every tube.



STEP 6 - PUSH INTO FITTING

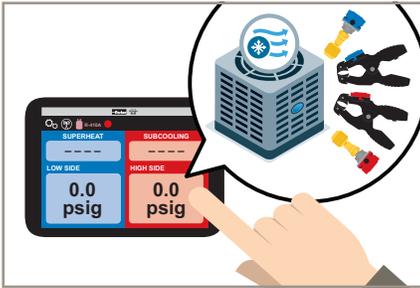
Push the tube into the fitting. Use the mark to assure insertion depth and secure fit.

ZoomLock PUSH

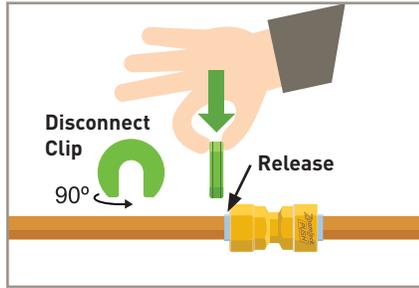
Push-to-Connect Refrigerant Fittings

REMOVAL OF FITTING (Removable Fittings Only)

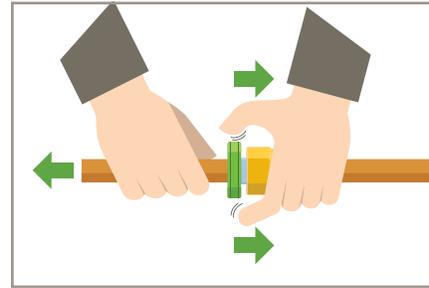
⚠ CAUTION: Removal of fittings while system is under pressure can result in serious injury.



STEP 1 - ISOLATE OR REMOVE SYSTEM CHARGE



STEP 2 - INSERT CLIP



STEP 3 - PRESS RELEASE

NOTE:

1. ZoomLock PUSH Removable fittings are not designed for repeated reinstallations. Observing the removal instructions above, the fittings can be removed.
2. Care should be taken when connecting copper tubing to avoid using damaged copper or fittings.
3. Fittings and linesets should be inspected with other components during routine annual maintenance checks.

INSTALLATION PARTS and ACCESSORIES



Installation Kit

3 piece ZoomLock PUSH installation kit includes depth gauge, permanent marker, and Scotch-Brite® general purpose hand pad. Tubing cutter and deburring tool sold separately.

- » **Description:** PZKP-IK
- » **Part Number:** 777091



Removal Tools

Removal tools for 1/4" - 7/8" sizes of ZoomLock PUSH removable fittings.

- » **Description:** PZKPR-RT
- » **Part Number:** 777090

OFFER OF SALE

The items described in this document and other documents and descriptions provided by Parker Hannifin Corporation, its subsidiaries and its authorized distributors ("Seller") are hereby offered for sale at prices to be established by Seller. This offer and its acceptance by any customer ("Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any item described in its document, when communicated to Seller verbally, or in writing, shall constitute acceptance of this offer. All goods or work described will be referred to as "Products".

1. **Terms and Conditions.** Seller's willingness to offer Products, or accept an order for Products, to or from Buyer is expressly conditioned on Buyer's assent to these Terms and Conditions and to the terms and conditions found on-line at www.parker.com/saleterms/. Seller objects to any contrary or additional term or condition of Buyer's order or any other document issued by Buyer.

2. **Price Adjustments; Payments.** Prices stated on the reverse side or preceding pages of this document are valid for 30 days. After 30 days, Seller may change prices to reflect any increase in its costs resulting from state, federal or local legislation, price increases from its suppliers, or any change in the rate, charge, or classification of any carrier. The prices stated on the reverse or preceding pages of this document do not include any sales, use, or other taxes unless so stated specifically. Unless otherwise specified by Seller, all prices are F.O.B. Seller's facility, and payment is due 30 days from the date of invoice. After 30 days, Buyer shall pay interest on any unpaid invoices at the rate of 1.5% per month or the maximum allowable rate under applicable law.

3. **Delivery Dates; Title and Risk; Shipment.** All delivery dates are approximate and Seller shall not be responsible for any damages resulting from any delay. Regardless of the manner of shipment, title to any products and risk of loss or damage shall pass to Buyer upon tender to the carrier at Seller's facility (i.e., when it's on the truck, it's yours). Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferral of shipment at Buyer's request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's changes in shipping, product specifications or in accordance with Section 13, herein.

4. **Warranty.** Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of ten years (R410A Optimized) and five years (Removable) from the date of delivery to Buyer. This warranty is made only to Buyer and does not extend to anyone to whom Products are sold after purchased from Seller. The prices charged for Seller's products are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **DISCLAIMER OF WARRANTY: THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED HEREUNDER. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

5. **Claims; Commencement of Actions.** Buyer shall promptly inspect all Products upon delivery. No claims for shortages will be allowed unless reported to the Seller within 10 days of delivery. No other claims against Seller will be allowed unless asserted in writing within 60 days after delivery or, in the case of an alleged breach of warranty, within 30 days after the date within the warranty period on which the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale (other than an action by Seller for any amount due to Seller from Buyer) must be commenced within thirteen months from the date of tender of delivery by Seller or, for a cause of action based upon an alleged breach of warranty, within thirteen months from the date within the warranty period on which the defect is or should have been discovered by Buyer.

6. **LIMITATION OF LIABILITY.** UPON NOTIFICATION, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE. **IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT**

SELLER'S WRITTEN CONSENT, EVEN IF SELLER HAS BEEN NEGLIGENT, WHETHER IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.

7. **Contingencies.** Seller shall not be liable for any default or delay in performance if caused by circumstances beyond the reasonable control of Seller.

8. **User Responsibility.** The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.

9. **Loss to Buyer's Property.** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

10. **Special Tooling.** A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

11. **Buyer's Obligation; Rights of Seller.** To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest. Seller shall have a security interest in, and lien upon, any property of Buyer in Seller's possession as security for the payment of any amounts owed to Seller by Buyer.

12. **Improper use and Indemnity.** Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

13. **Cancellations and Changes.** Orders shall not be subject to cancellation or change by Buyer for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with notice to Buyer.

14. **Limitation on Assignment.** Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

15. **Entire Agreement.** This agreement constitutes the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive

expression of the terms of the agreement. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.

16. **Waiver and Severability.** Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.

17. **Termination.** This agreement may be terminated by Seller for any reason and at any time by giving Buyer thirty (30) days written notice of termination. In addition, Seller may by written notice immediately terminate this agreement for the following: (a) Buyer commits a breach of any provision of this agreement (b) the appointment of a trustee, receiver or custodian for all or any part of Buyer's property (c) the filing of a petition for relief in bankruptcy of the other Party on its own behalf, or by a third party (d) an assignment for the benefit of creditors, or (e) the dissolution or liquidation of the Buyer.

18. **Governing Law.** This agreement and the sale and delivery of all Products hereunder shall be deemed to have taken place in and shall be governed and construed in accordance with the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement. Disputes between the parties shall not be settled by arbitration unless, after a dispute has arisen, both parties expressly agree in writing to arbitrate the dispute.

19. **Indemnity for Infringement of Intellectual Property Rights.** Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this Agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any Product sold hereunder. The foregoing provisions of this Section shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

20. **Taxes.** Unless otherwise indicated, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of Products.

21. **Equal Opportunity Clause.** For the performance of government contracts and where dollar value of the Products exceed \$10,000, the equal employment opportunity clauses in Executive Order 11246, VEVRAA, and 41 C.F.R. §§ 60-1.4(a), 60-741.5(a), and 60-250.4, are hereby incorporated.



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