

# Oildyne 550 Series Hydraulic Power Units

Pressures to 207 bar (3000 psi) Flow to 14.4 lpm (3.8 gpm) aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding



ENGINEERING YOUR SUCCESS.



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### 550 Series Hydraulic Power Units

The 550 Series combines the features and benefits our customers and markets have requested in a durable and economical package. The integral motor, pump and reservoir are complemented with a full line of Parker D03/NG6 and cartridge valve options. Add a linear or rotary actuator and you have a complete hydraulic system solution for your application.

These high quality power units are ideal for industrial machine tool clamping circuits, dock levelers, food processing, hose crimping, scissor lift, presses, and a myriad of AC applications. Let them go to work for you.

Your local Parker sales representative will be pleased to provide further information.

### **Typical Applications**

- Machine tool clamping
- Dock levelers
- Man lifts
- Scissors lifts
- Wheelchair lifts
- Trash compactors
- Hose crimpers
- Boat lifts
- Presses
- Commercial ovens

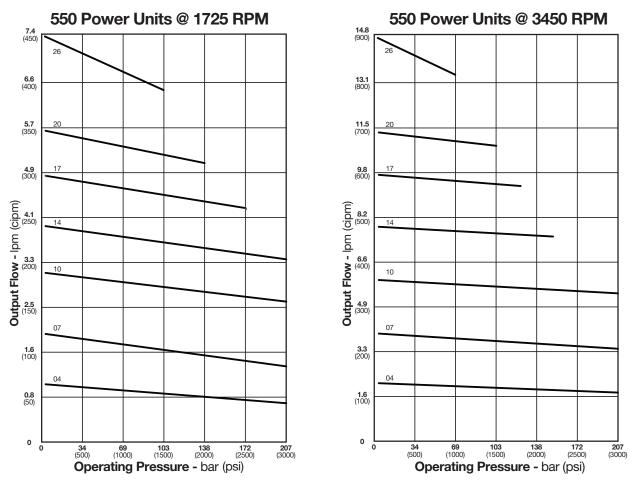


### **Features**

- Numerous motors from .67 to 4 kW (.5 to 3 HP)
- 7 pump sizes flows from 1 to 14.4 lpm (.25 to 3.8 gpm)
- Externally adjustable relief valve
- Variety of reservoirs
- 207 bar (3000 psi) capability
- D03/NG6 pad or standard P and T ports
- Vertical and horizontal mounting







Performance data based on ATF @ 21°C (70°F)

	Nomina	al GPM	Pressure Bar (PSI)					
Pump Size	@1725	@3450	34 (500)	69 (1000)	103 (1500)	138 (2000)	172 (2500)	207 (3000)
04	1⁄4		.50 HP	.50 HP	.50 HP	.50 HP	.50 HP	.75 HP
04		1/2	.50 HP	.50 HP	.50 HP	.75 HP	1.0 HP	1.5 HP
07	1/2		.50 HP	.50 HP	.50 HP	.75 HP	1.0 HP	1.0 HP
07		1	.50 HP	.75 HP	1.0 HP	1.5 HP	2.0 HP	2.0 HP
10	3⁄4		.50 HP	.50 HP	.75 HP	1.0 HP	1.5 HP	1.5 HP
10		1 ½	.75 HP	1.0 HP	1.5 HP	2.0 HP	3.0 HP	3.0 HP
14	1		.50 HP	.75 HP	1.0 HP	1.5 HP	2.0 HP	2.0 HP
14		2	1.0 HP	1.5 HP	2.0 HP	3.0 HP		
17	1 1⁄4		.50 HP	1.0 HP	1.5 HP	2.0 HP	2.0 HP	
17		2 1/2	1.0 HP	2.0 HP	3.0 HP			
20	1 1/2		.50 HP	1.0 HP	1.5 HP	2.0 HP		
20		3	1.0 HP	2.0 HP	3.0 HP			
26	1.9		.75 HP	1.5 HP	2.0 HP			
26		3.8	1.5 HP	3.0 HP				

### Motor Horsepower Recommendations at Flow/Pressure

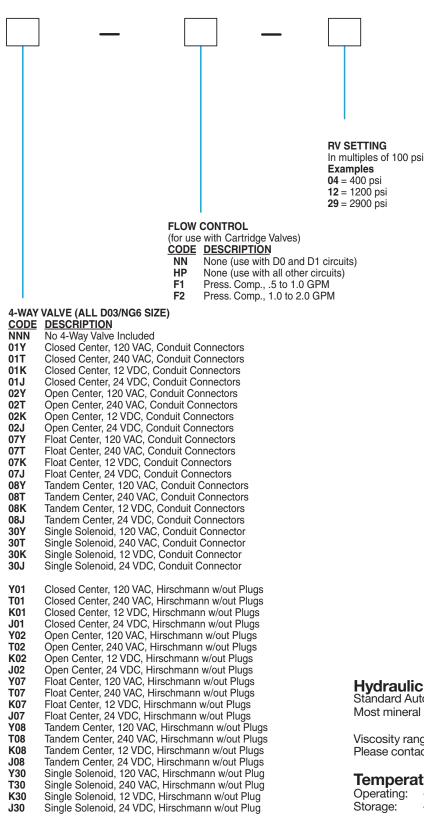
Note: Performance data is for reference only



## **Standard Product Ordering Code**

550		_	
550 POWER UNIT - includes relief valve			
MOTOR SELECTION - TEFC           Single Phase = 115/230 VAC, 60 HZ           Three Phase = 230/460 VAC, 60 HZ           CODE HP RPM PHASE           TC         .50         1725         Single           TD         .50         1725         Three           TM         .50         3450         Single           TT         .50         3450         Single           TT         .50         3450         Three           TE         .75         1725         Single           TW         .75         3450         Single           TW         .75         3450         Single           TW         .75         3450         Three           TJ         1.0         1725         Single           TK         1.0         1725         Single           TW         1.0         3450         Three           TP         1.0         3450         Single           TW         1.0         3450         Single           TK         1.5         1.725         Single           TW         1.0         3450         Single           TX         1.5	ACEMENT / (.04 in <sup>3</sup> /rev) / (.07 in <sup>3</sup> /rev)	CIRC	UIT
14 2.29 cc/rev 17 2.79 cc/rev 20 3.28 cc/rev 26 4.26 cc/rev	/ (.14 in³/rev) / (.17 in³/rev) / (.20 in³/rev) / (.26 in³/rev)		al PO Check Manifold (Manapak) Directional Control Valves) ank Ports
06 11 16	RESERVOIR VOLUME2 Liter0.5 Gallon Steel4 Liter1.0 Gallon Steel6 Liter1.5 Gallon Steel19 Liter5.0 Gallon Steel2 Liter0.5 Gallon Plastic4 Liter1.0 Gallon Plastic6 Liter1.5 Gallon Plastic10 Liter2.5 Gallon Plastic10 Liter2.5 Gallon Plastic	<ul><li>S2 24 VDC, Normally Clos</li><li>S3 120 VAC, Normally Clo</li></ul>	outlet port check valve: sed, Conduit Connector sed, Conduit Connector sed, Conduit Connector sed, Conduit Connector n, Conduit Connector n, Conduit Connector en, Conduit Connector
	<b>Note:</b> 19 liter (5 gallon) steel reservoir can be mounted vertically only. All others are vertical and horizontal ready	<ul> <li>P1 12 VDC, Normally Clos</li> <li>P2 24 VDC, Normally Clos</li> <li>P3 120 VAC, Normally Clo</li> <li>P4 240 VAC, Normally Clo</li> <li>P5 12 VDC, Normally Ope</li> <li>P6 24 VDC, Normally Ope</li> <li>P7 120 VAC, Normally Ope</li> <li>P8 240 VAC, Normally Ope</li> </ul>	ed, DIN Connector sed, DIN Connector sed, DIN Connector n, DIN Connector n, DIN Connector en, DIN Connector





#### **Hydraulic Fluids:**

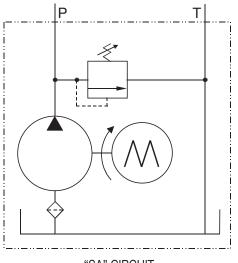
Standard Automatic Transmission Fluid (ATF) Most mineral based hydraulic fluids

Viscosity range: 32-64 cSt (150-300 SSU) at 38°C (100°F) Please contact Parker Oildyne to discuss any alternate fluids.

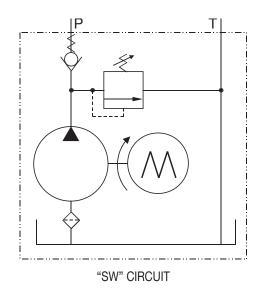
#### **Temperature Ranges:**

Operating: -7 to 60°C (+20 to 140°F) -10 to 60°C (+14 to 140°F)



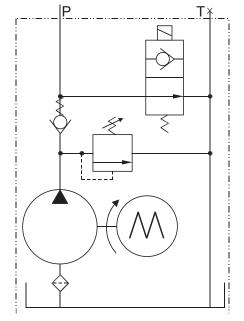


"SA" CIRCUIT



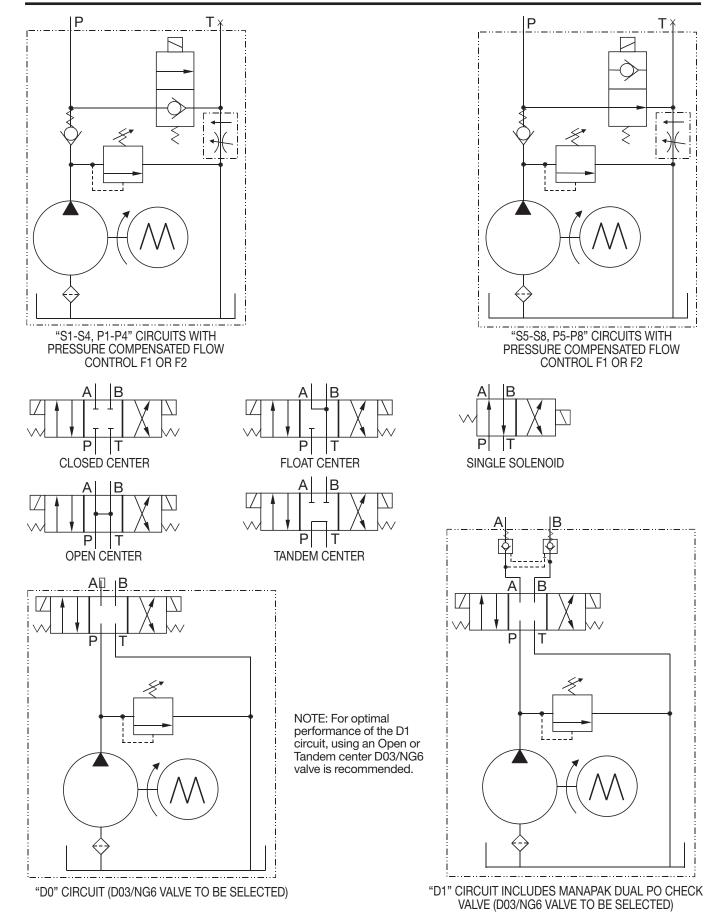
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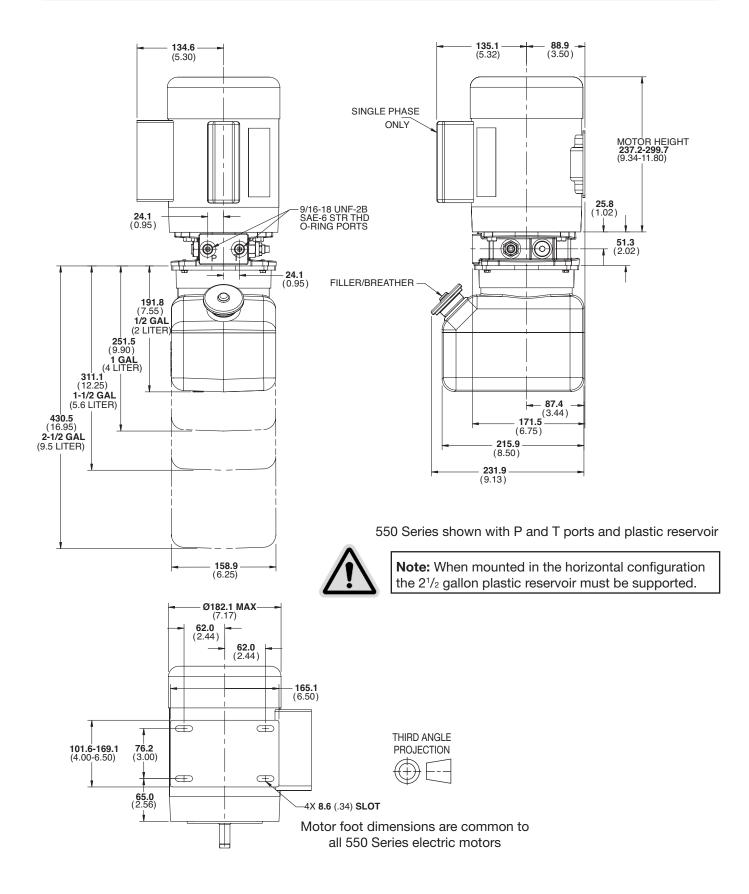
"S1-S4, P1-P4" CIRCUITS



"S5-S8, P5-P8" CIRCUITS

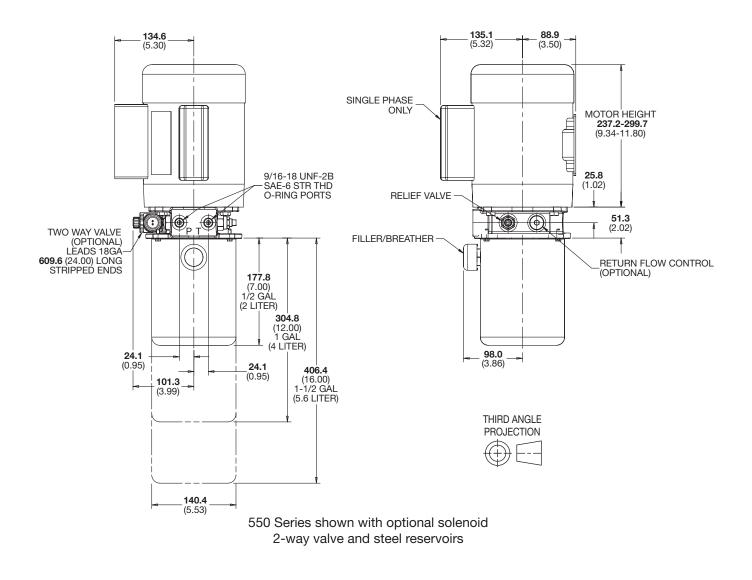






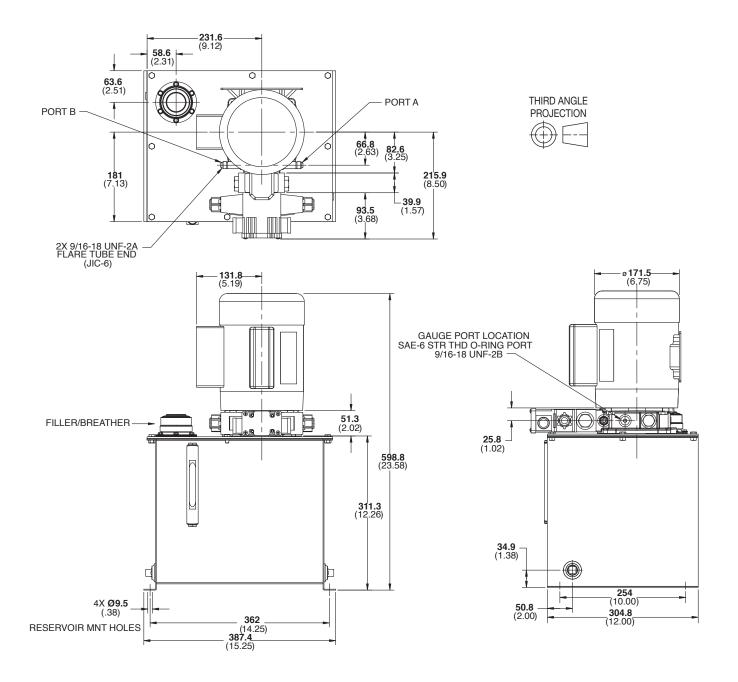
Note: All dimensions in mm (inches).





Note: All dimensions in mm (inches).





550 Series shown with 19 liter (5 gallon) steel reservoir and NG6/D03 valves

Note: All dimensions in mm (inches).



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2. <u>Price: Payment</u>. Prices stated on Seller's Quote are valid for thirty (30) days, except as explicitly otherwise stated therein, and do not include any sales, use, or other taxes or duties unless specifically stated. Seller reserves the right to modify prices to adjust for any raw material price fluctuations. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). Payment is subject to credit approval and payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified by Seller's Credit Department). Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law.

3. <u>Shipment; Delivery; Title and Risk of Loss</u>. All delivery dates are approximate. Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the shipment carrier at Seller's facility. Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' 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 acts or omissions.

4. <u>Warranty</u>. Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of normal use, whichever occurs first. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer: <u>DISCLAIMER OF WARRANTY</u>: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

5. <u>Claims</u>; <u>Commencement of Actions</u>. Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to the Seller within ten (10) days of delivery. No other claims against Seller will be allowed unless asserted in writing within thirty (30) days after delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the defect is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

6. LIMITATION OF LIABILITY. IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE WITHIN A REASONABLE PERIOD OF TIME. IN NO EVENT IS SELLER LIABLE 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, WHETHER BASED 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. <u>User Responsibility</u>. 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 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 Products or systems.

8. 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, will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the items 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.

**9.** <u>Special Tooling</u>. 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 has the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

10. <u>Buyer's Obligation; Rights of Seller</u>. To secure payment of all sums due or otherwise, Seller retains a security interest in all Products delivered to Buyer and this agreement is deemed to be 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.

11. Improper Use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs (including attorney fees and defense costs), 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, application, design, specification 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 Products; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

12. <u>Cancellations and Changes</u>. Buyer may not cancel or modify or cancel any order 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.

13. <u>Limitation on Assignment</u>. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

14. <u>Force Majeure</u>. Seller does not assume the risk and is not liable for delay or failure to perform any of Seller's obligations by reason of events or circumstances beyond its reasonable control (hereinafter "Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

15. <u>Waiver and Severability</u>. Failure to enforce any provision of this agreement will not invalidate 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.

16. <u>Termination</u>. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate this agreement, in writing, if Buyer: (a) breaches any provision of this agreement (b) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or one if filed by a third party (d) makes an assignment for the benefit of creditors; or (e) dissolves its business or liquidates all or a majority of its assets.

17. <u>Governing Law</u>. This agreement and the sale and delivery of all Products are 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.

18. <u>Indemnity for Infringement of Intellectual Property Rights</u>. Seller is not liable 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 refund the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller is not liable 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 constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights

19. <u>Entire Agreement</u>. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged. The terms contained herein may not be modified unless in writing and signed by an authorized representative of Seller.

20. <u>Compliance with Laws</u>. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards of care, including those of the United Kingdom the United States of America, and the country or countries in which Buyer may operate; including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act") and the U.S. Food Drug and Cosmetic Act ("FDCA"),each as currently amended, and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), and agrees to indemnify and hold harmless Seller from the consequences of any violation of such provisions by Buyer, its employees or agents. Buyer acknowledges that it is familiar with the provisions of the U.K. Bribery Act, the FDA, and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly to any governmental official, any foreign political party or official thereof, any candidate for foreign political office, or any commercial entity or person, for the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller.