

# Pump Data Sheet - Magnetex

Company: Magnetex Pumps M-28426

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## Pump:

Model: ML541

Type: MP

Synch speed: 3600 rpm

Magnet: N40-Nd

Specific Speeds:

Speed: 3520 rpm

Dia: 4.4 in

Size: 2 x 1.5 x 6

Ns: ---

Nss: ---

Dimensions:

Suction: 2 in

Discharge: 1.5 in

## Pump Limits:

Temperature: -112 °F

Pressure: 150 psi g

Sphere size: ---

Power: 6.25 hp

Eye area: ---

## Search Criteria:

Flow: 100 US gpm

Head: 50 ft

## Fluid:

ethanol

SG: 0.87

Viscosity: 15 cP

Temperature: -112 °F

Vapor pressure: 0 psi a

Atm pressure: 14.7 psi a

Viscosity correction: Flow x 0.978 / Head x 0.978 / Eff x 0.855

NPSHa: ---

## Motor:

Standard: NEMA

Enclosure: TEFC

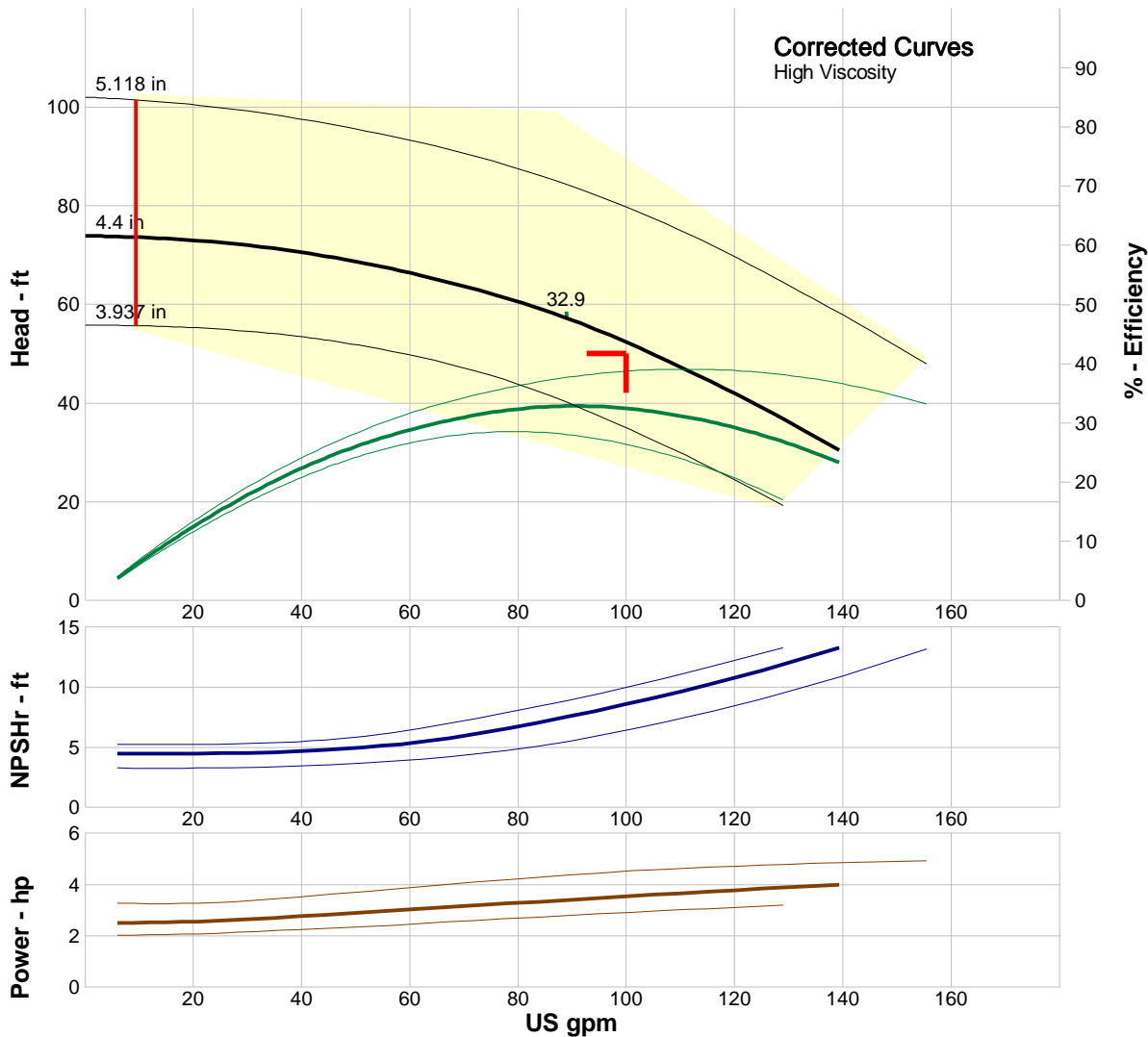
Size: 5 hp

Speed: 3600

Frame: 184T

Sizing criteria: Max Power on Design Curve

---- Data Point ----	
Flow:	100 US gpm
Head:	51.9 ft
Eff:	31.7%
Power:	3.54 hp
NPSHr:	8.68 ft
---- Design Curve ----	
Shutoff head:	73.9 ft
Shutoff dP:	27.8 psi
Min flow:	9.25 US gpm
BEP:	32.9% @ 88.9 US gpm
NOL power:	
	3.99 hp @ 139 US gpm
-- Max Curve --	
Max power:	
	4.93 hp @ 155 US gpm



## Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
120	3520	41.7	28.9	3.78	10.8
100	3520	51.9	31.7	3.54	8.68
80	3520	60.1	31.7	3.29	6.86
60	3520	66.3	28.7	3.03	5.38
40	3520	70.4	22.1	2.77	4.73



"Since 1985 our passion has been your process reliability and profitability."

M-28426

MAG DRIVE SEAL-LESS PUMP

THE HERBAL CENTER

TECHNICAL SPECIFICATIONS							
MODEL		LIQUID	CAPACITY	TOTAL HEAD	S.G.	TEMP oF	VISC IN cP
ML541-N40N-180TC		ETHANOL	100 GPM	50 FT	0.87	-112	15
MOTOR HP	RPM	ENCLOSURE	FRAME	CASING	IMPELLER	SHAFT	GASKETS
5	3600	CL.1, DIV. 1	184TC	316 SS	316 SS	316 SS	PTFE
PH/HZ/VOLTS	SERV. FACTR	DUTY	MOTOR MFR	REAR CSG	BUSH BRG	THR RINGS	SHAFT SLV
3/60/230-460	1.15	CONT.	WEG OR EQUAL	316 SS	SiC	SiC	SiC-X
SUCT PRES	DISCH. PRES	VAPOR PRES	NPSH AVAIL	NPSH REQ'D	BRG HSG LUBE	MAGNETS	MOUTH RING
ADVISE	18.8 + suction psi g	0 psi a	ADVISE	9 Ft.	N/A	Nd	N/A

PRICE AND DELIVERY						
ITEM	QTY	PART # / DESCRIPTION	UNIT WT.	UNIT PRICE	EXTENDED PRICE	SHIPMENT LEAD TIME
1	1	ML541-N40N-180TC PUMP AND MOTOR ASSEMBLY	200#	\$6,975.00	\$6,975.00	STOCK 2-4 Wks. ARO
2	1	OPTIONAL Dry Run Protection PMP-25 Watt Monitor	8#	\$743.00	\$743.00	STOCK

FLANGED CONNECTIONS ARE RAISED FACE ANSI DIMENSIONS WITH FINISH PER ISO STANDARDS. PRICES ARE FOB HOUSTON, TX. PAYMENT TERMS TO BE DETERMINED UNLESS CUSTOMER HAS AN ESTABLISHED ACCOUNT WITH MPI. All Items are Subject to Prior Sale. Taxes and Tariffs Extra. Quotation valid for thirty days unless stated otherwise in written correspondence.

This quotation and any resultant order is subject to Magnatex Pumps, Inc.'s approval and acceptance, and standard terms and conditions including those limiting warranties, unless other terms and conditions are specifically agreed to by Magnatex Pumps, Inc. in writing.

E-MAIL: [inquiries@magnatexpumps.com](mailto:inquiries@magnatexpumps.com) WEBSITE: [www.magnatexpumps.com](http://www.magnatexpumps.com)

## MAGNATEX STANDARD TERMS AND CONDITIONS

**LEGAL EFFECT:** Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of the Quotation and any order resulting therefrom and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of any order resulting from this Quotation.

The rights of Buyer hereunder shall neither be assignable nor transferable, except with the written consent of Seller.

Any order resulting from this Quotation cannot be cancelled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modifications of any order resulting from this Quotation or revision of product must be paid by Buyer.

In addition to the rights and remedies conferred upon Seller by any contract resulting from this Quotation, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of any order resulting from this Quotation if Buyer is in default in the performance of such order or of any other contract or order with Seller.

**PRICES:** Quotations which have been approved by Magnatex Pumps, Inc. are firm for acceptance within thirty (30) days from date of such approved quotation. Orders received without quotation will be billed at the price prevailing at the time of acceptance by the home office. The company reserves the right to correct clerical and stenographic errors at any time. The approved price is firm providing that full information permitting fabrication is received by Magnatex Pumps, Inc. promptly after receipt of the order, and further providing Magnatex Pumps, Inc. is permitted to make shipment of the order when ready. If shipment of the complete order is delayed at the customer's request, the price of the unshipped portion will be that prevailing at the time of that shipment. The price of items purchased by Magnatex Pumps, Inc. for resale such as motors, etc., will at all times be that prevailing at the time of shipment.

All contracts and sales shall be governed by the laws of the State of Texas and shall be deemed to be made within Texas. Any acceptance of a contract to sell or of sale shall be made only at the home office of Magnatex Pumps, Inc. at Houston, Texas.

**TERMS OF PAYMENT:** Unless otherwise specified in this Quotation, the terms of payment shall be as follows: On all orders under \$100,000, net cash, within thirty (30) days after shipment. On all orders over \$100,000, as follows: 15% on submittal of drawings; 25% on release to manufacture; 50% at time of shipment; 10% 30 days after shipment.

These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment, in cash, prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for, but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all costs and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

**TAXES:** All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect to manufacture, sales, or delivery, all of which shall be paid by Buyer unless included in the purchase price at the proper rate or a proper exemption certificate is furnished.

**ACCEPTANCE:** This Quotation is not an offer. All offers to purchase, quotations and contracts of sale are subject to final acceptance by Magnatex Pumps, Inc.

**DELIVERY:** Except as otherwise specified in this Quotation, delivery will be F.O.B. point of shipment. In the absence of exact shipping instructions, Seller will use its discretion regarding best means of shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit Seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing within ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

**TITLE & LIEN RIGHTS:** The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

**STANDARD WARRANTY:** Seller warrants product of its own manufacture against defects in materials and workmanship under normal use, and service for one (1) year from date of installation or startup, but not more than eighteen (18) months after date of shipment. Accessories and components not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty. Notice of the alleged defect must be given to Seller in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of same during the warranty period. Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective as alleged. No allowances will be made for repairs or alterations effected without specific written authorization from Seller.

If requested by Seller, such product or part thereof must be promptly returned to the manufacturer prior to any attempted repair; or sent to an authorized service station designated by the manufacturer. All shipping expenses are to be prepaid by the Buyer. Seller accepts no responsibility for loss or damage in transit of goods, nor will any warranty claim be considered unless the returned goods are received intact and undamaged as a result of shipment. Repaired or replaced material returned to customer will be shipped F.O.B. Magnatex Pumps, Inc., Houston Texas.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty of the product being repaired. This warranty applies to the repaired or replaced part and is not extended to the product or any other component of the product being repaired.

Under the terms of this warranty, Seller shall not be responsible nor liable for: (a) Consequential, collateral or special losses or damages. (b) Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect, or misuse of said equipment. (c) Labor charges, loss or damage resulting from the supplying of defective part(s) or improper repairs by unauthorized person(s). (d) Damage caused by abrasive materials, chemicals, scale deposits, corrosion, lightning, improper voltage or mishandling.

Seller reserves the right to substitute new equipment and/or improve the part(s) on any equipment judged defective without further liability. All repairs and/or services performed by Seller, not adjusted as covered by this warranty, will be charged in accordance with the current equipment and service prices.

This warranty is VOID unless the purchaser provides protective storage, installs and maintains the equipment in accordance with manufacturer's instructions.

Credit will NOT be allowed nor shipment accepted on any part(s) or equipment returned unless prior approval in writing has been obtained.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLER AND ANY OTHER WARRANTIES EXPRESS, IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE, ARE HEREBY SPECIFICALLY EXCLUDED.

No employee of the Seller and no agent, dealer or distributor has any authority to change or enlarge the terms of this warranty to obligate the Seller to other than strictly the terms of this written warranty.

**LIABILITY LIMITATIONS:** Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture, improper application, or otherwise. The aggregate total liability of Seller in connection with the performance of this order, whether for breach of contract or warranty, negligence, indemnity, or otherwise shall in no event exceed the contract price. Buyer agrees to indemnify and hold harmless Seller from all claims by third parties in excess of these limitations. No warranty is made or implied covering resistance to or effects of corrosion or erosion of any type irrespective of the cause thereof, unless made in writing by Magnatex Pumps, Inc.

Since the compliance with the various Federal, State and Local laws and regulations concerning occupational health and safety and pollution are affected by the use, installation and operation of the equipment and other matters over which the Seller has no control, the Seller assumes non responsibility for compliance with those laws and regulations, whether by way of indemnity, warranty or otherwise.

**Magnatex Pumps, Inc., Houston TX 77008**