

NASH TC/TCM Series Two Stage Liquid Ring Vacuum Pumps

Industry Workhorses

NASH liquid ring vacuum pumps produced by Gardner Denver Nash have been known for more than 100 years as tireless workhorses, designed to stand up to the rigorous, nonstop demands of the harshest industrial environments. Built better than industry standards, NASH pumps are known for their reliability.

The TC/TCM pumps are manufactured to ISO 9001:2000 standards and are ATEX compliant. Our commitment to excellence and customer service extends from manufacturing and installation to technical assistance and beyond. Service and distribution centers are located throughout the world, offering quality service and support for Nash products.

Vacuum technology

The TC/TCM liquid ring vacuum pumps were created for the chemical, petrochemical and power industries as well as other high vacuum applications. They are designed to operate at very low suction pressure levels (less than 10 torr) with low vapor pressure seal liquids. In many applications, this translates into considerable operational savings by reducing the number of stages on hybrid systems. For example, a three stage jet system with glycol as motive and seal liquid can be reduced to a two stage system.

These pumps, with their integral two stage rotors, are able to condense process vapors and to recover or dispose of them. The result is a highly reliable and efficient vacuum pump.



Basic Specifications NASH TC/TCM						
Vacuum range	to 27 mbar abs. (0.8 in HgA)					
Mechanical seals*	Single, double and cartridge					
Hydrotest pressure (ductile iron pumps)	6 bar abs. (75 psig) standard					
Hydrotest pressure (stainless steel pumps)	12 bar abs. (150 psig)					
Capacity	170 to 3,740 m³/hr (100 to 2,200 CFM)					
Construction material	Ductile iron, stainless steel					

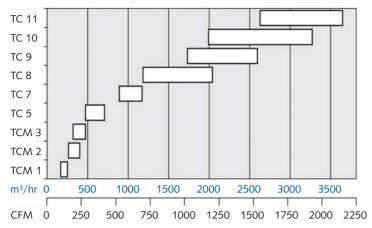
Mechanical seals are standard on stainless steel TC(M) 1 - 8 models Optional on others

Features	Benefits			
New, patented air/water separation design**	Improved efficiency			
Integral two stage impeller	High reliability, can attain high vacuum without additional components			
Shrouded rotor bades	Strength and reliability			
Removable bearing bracket	Easier maintenance			
O-ring and gasket sealing options**	Optimum sealing to your specifications			
ATEX compliant	Meets today's industry standards			
100% performance tested	Trouble-free start-up and operation			
2 years warranty and over 100 years of experience	Peace of mind			

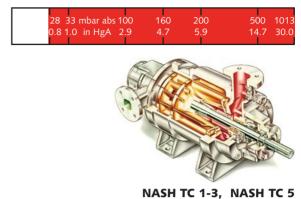
^{**} TC 8, TC 9, TC 10 and TC 11 only

NASH TC/TCM Series World Class Design and Performance

Performance: Suction Capacity



Performance: Vacuum Range

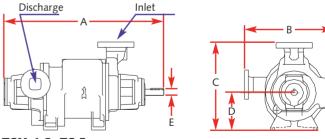




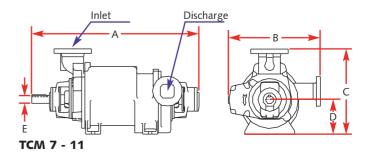
Dimensions

all dimensions are approximate; technical data subject to change

an annensions are approximate, technical data subject to change									
Pump	Α	В	С	D	E	Inlet Flange	Discharge Flange		
Model	mm	mm	mm	mm	mm	mm	mm		
	inches	inches	inches	inches	inches	inches	inches		
TC 11	2060	1005	1080	480	95	200	150		
	81	40	43	19	3.7	8	6		
TC 10	1942	1132	940	457	85	200	150		
	76.4	44.6	37	18	3.35	8	6		
TC 9	1862	1056	890	432	85	200	150		
	73.3	41.6	35	17	3.34	8	6		
TC 8	1552	846	737	356	80	150	100		
	61.1	33.3	29	14	3.15	6	4		
TC 7	1282	702	654	330	60	150	100		
	51	28	26	13	2.4	6	4		
TC 5	1022	572	559	241	41	100	80		
	40.3	22.5	22	9.5	1.6	4	3		
TCM 3	981	435	451	200	38	50	50		
	38.6	17.1	17.8	7.9	1.5	2	2		
TCM 2	937	435	451	200	38	50	50		
	36.9	17.1	17.8	7.9	1.5	2	2		
TCM 1	791	397	394	165	35	50	50		
	31.1	15.6	15.5	6.5	1.4	2	2		



TCM 1-3, TC 5





Gardner Denver Nash is a division of Gardner Denver, Inc. The histories of NASH and elmo provide more than 100 years of experience as the world's leading supplier of liquid ring vacuum pumps, compressors and systems.

Other NASH Products:

2BE4 / P2620

- Large liquid ring vacuum pumps with superior corrosion resistance
- Top discharge capability which eliminates need for trench
- Self-recirculating seal water, reducing need for external seal water source
- Capacity: 6,800 to 39,000 m³/h (4,000 to 23,000 CFM)
- Vacuum: to 160 mbar abs. (25" HgV)



Vectra XL, GL

- Liquid ring vacuum pumps and compressors
- Available in feature rich budget designs (XL or GL)
- Designed to handle high back pressure requirements
- Capacity: 34 to 6,796 m³/h (20 to 4,000 CFM)
- Vacuum: to 33 mbar abs. (29"+ HgV)



Vectra SX

- Liquid ring vacuum pumps and compressors
- · Available in monoblock or lantern design
- Water handling version for large amounts of liquid carryover
- Capacity: 35 to 260 m³/h (20 to 155 CFM)
- Vacuum: to 33 mbar abs. (29"+ HgV)



Service for Liquid Ring Pumps

We have the know-how, the experience and the specialists: We provide professional service to keep your pumps running and efficient for decades. Our Service Centers are located in:

- Australia
- Brazil
- China
- Germany

- Korea
- The Netherlands
- Singapore
- South Africa United Kingdom
- USA



- Wide range of liquid ring compressors for many applications: flare-gas, Chlorine and Vinyl Chlorine Monomer (VCM) recovery, etc.
- Handling of highly toxic, explosive and corrosive gases
- Single and two stage models available
- Capacity: 100 to 3,740 m³/h (60 to 2,200 SCFM)
- Compression: to 15 bar abs. (200 PSIG)



Gardner Denver Nash has many ISO 9001 certifications.



Gardner Denver Nash has an extensive network of sales offices and representatives all over the world.

Nash - Zweigniederlassung der Gardner Denver **Deutschland GmbH**

Katzwanger Straße 150 90461 Nuremberg, Germany Phone: +49 911 1454-0 +49 911 1454-6935 nash.de@gardnerdenver.com

www.GDNash.com



Order-No.: LRP:B-PB120-A1-EN 2.0/08-2011 Printed in Germany ©2011 All Rights Reserved; All data subject to change