



Quantium 400T



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- Optimised ergonomics
- Compact design
- Best-in-industry components



Quantium 400
best-in-industry
components
for the first really global
high-hose multi-product
fuel dispenser





In the ever-challenging environment of the retail petroleum industry, the need to improve the efficiency of service stations is a permanent objective. Customer satisfaction and loyalty are the priorities, and outstanding performance and service are the essential key to attaining them.

The revolutionary Quantum T family of fuel dispensers has been conceived as the best response yet to this challenge. Through design innovation and the use across the range of a common core of the highest-performance components the industry has to offer we have established a universal platform which we believe will exceed your current and future expectations.

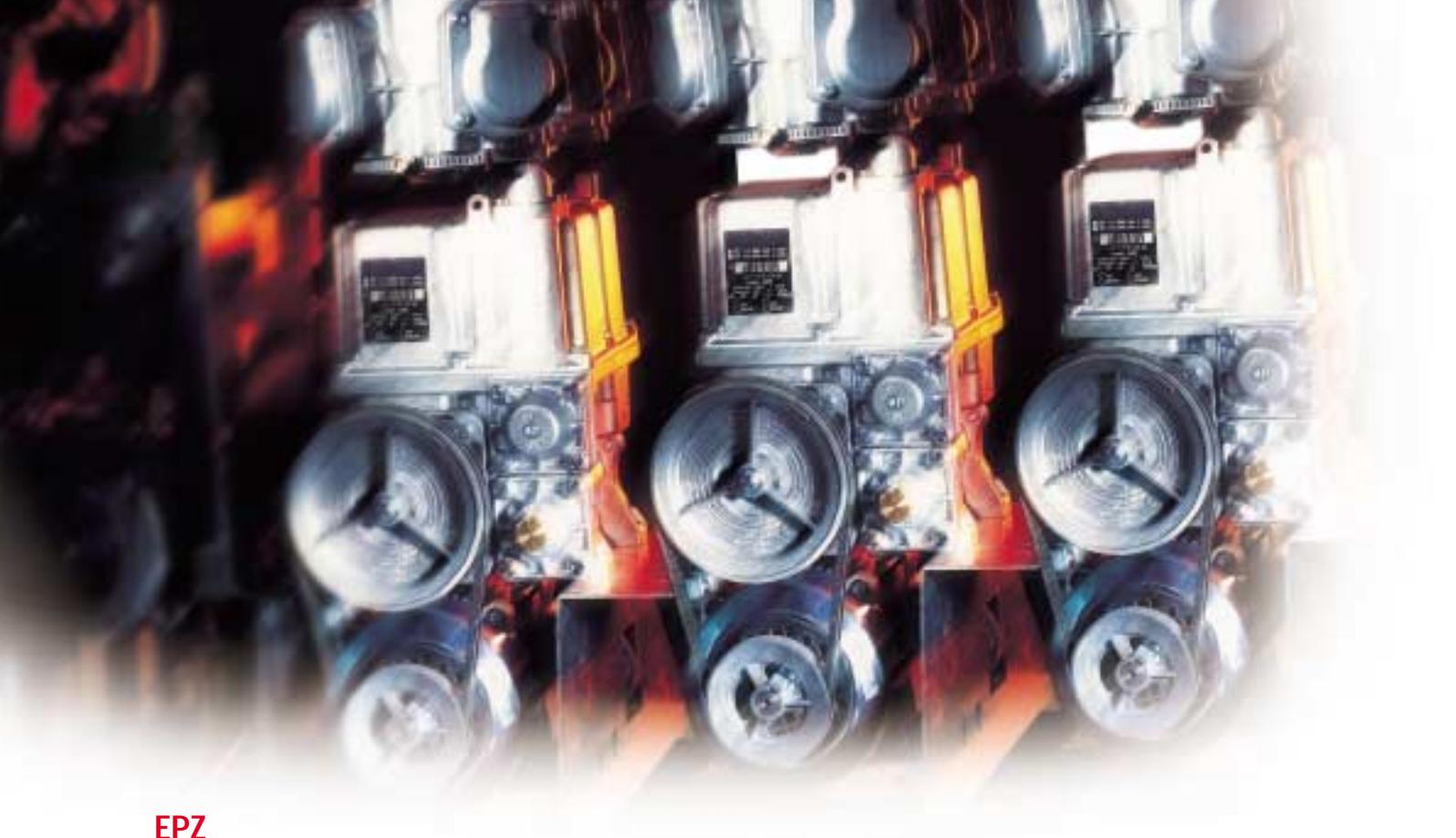
Modular design

The modular basic design of the Quantum 400T dispenser interfaces with a comprehensive set of peripherals and options (including payment terminals and multimedia devices) to offer levels of flexibility unmatched anywhere in the industry. Future-proof solutions with full plug-in capability for downstream product enhancements mean that we can guarantee our customers best-in-industry technology now and going forward, not to mention the lowest possible ownership costs.

Best-in-industry components for unmatched ergonomics

Built using proven components, the Quantum 400T is an industry reference in terms of ergonomics and performance. The EPZ pump and the MA 26 meter device are twinned with the WWC T1 calculator at the heart of the dispenser, making Quantum 400T the most advanced, most reliable offer in the market-place.





EPZ

The high performance suction pump

This pumping unit has become standard equipment within the Tokheim Group. It has proved its reliability and performance time and again in the toughest conditions and most hostile environments throughout the globe.

The pump operation speed can be modified by simply swapping the motor pulley, enabling the same unit to deliver both standard flows of 40 l/min. or 80 l/min.

This unit uses a rotary vane pump with carbon blades that produce exceptional suction power even when the pump is dry. Air elimination to extreme tolerances is provided by a patented, fully static device using a vortex effect.



Low electrical power consumption makes this unit a cost-effective solution.

Technical specifications

	40 l/min.	80 l/min.
Pump speed	450 rpm	650 rpm
Max. flow	40 l/min.	80 l/min.
Min. flow	5 l/min.	8 l/min.
Noise level	68 dB	72 dB
Bypass pressure	1.8 bar	2 bar
Power on motor	370 W	550 W
Min. dry suction	400 mbar	500 mbar
Min. wet suction	700 mbar	700 mbar
Air elimination	According to OIML, CEE 77.313 regulation	
Strainer	70 μ	
Bypass pressure adjustment	1.2 bar to 2.5 bar (about 0.1 bar per turn of the by-pass adjustment screw)	

MA 26

The high accuracy piston meter

The MA 26 piston meter integrates the MP T1 pulser. It features a four-cylinder sleeved body in which four pistons drive two connecting rods, guaranteeing enhanced reliability.



A valve actuated by the crankshaft travels along a linear axis to connect the cylinders successively with the meter inlet and outlet. The valve is mounted between a slide plate built into the meter body and a

gasket making a seal with the manifold. The slide plate has four ports, each opening onto one of the four cylinders. The connection between the gasket and the outlet manifold is realised using a teflon diaphragm which prevents any mixing between intake and exhaust.

Technical specifications

Cylinder capacity	0.7 l/rev.
Maximum flow	80 l/min.
Minimum flow	5 l/min.
Accuracy	± 0.3 %
Maximum service pressure	2 bar
Adjusting device action around neutral positions	± 1.1 %



Base models

- Standard speed (40 l/min.), one through four products
- Very high speed (130 l/min.)
- LPG one- and two-hose,
- Master + satellite
- High speed (80 l/min.) as one product within a multi-product (one through four products).

Standard features

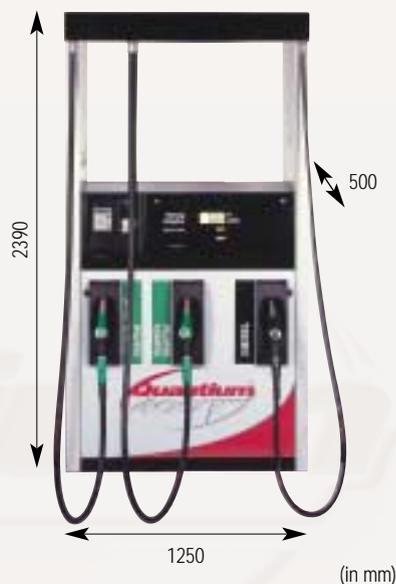
- Lane-oriented, with high hose handling
- Three-phase, 400V/50 Hz motors (same motor for suction pumps and VR vacuum pumps)
- Solenoid control valve (24V) allowing 2-stage (preset application) configurations
- Vapour recovery retrofittable
- OPTimum ready
- Corrosion-resistant chassis and panels with built-in driptray
- 3/4" ZVA automatic nozzle for standard speed (40 l/min.) & high speed (80 l/min.)
- 1" ZVA nozzle with truck spout for very high speed (130 l/min.) and master/satellite models
- Boesekoop nozzle for LPG
- DN16 for standard speed non-VR models (Elaflex or Goodyear)
- Coaxial European vapour recovery hoses for VR (Elaflex or Goodyear)
- DN19 for high speed non-VR models (Elaflex or Goodyear)
- DN21 for very high speed models (Elaflex) or DN25 (Goodyear)

Optional features

- Vapour recovery (upgradeable to the newly introduced Tokheim ECVR-Self-Calibrating System)
- VR status LED
- Programming switch
- Single-phase motor
- Alternate lighted Ferranti-Packard display
- Preset push buttons
- Unit price display per product
- Product-indication lights
- Indication lamps
- Speaker
- IR remote control compatible
- Mechanical totalizers on pulser
- Electromechanical totalizers
- Full range of nozzle options
- Full range of LPG nozzle options (Elaflex, Nettuno, URG)
- Full range of hose options
- Air vent
- Hydraulic inlet options
- Pressure feed
- Mouvex air separator
- Ground frame

Environmental conditions

Ambient temperature:	-25°C to +55°C for standard configuration -40°C to +40°C with the Ultra Low Temperature kit
Temperature of fluid:	-25°C to +25°C
Viscosity of fluid:	$< 10^{-4} \text{ m}^2/\text{s}$
Relative humidity:	5% to 95% non condensing
Climate:	Marine, tropical, industrial and polar
Altitude:	From sea level to 2000m



Tokheim Worldwide



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Tokheim Corporation, including its subsidiaries is the world's leading manufacturer and servicer of electronic and mechanical petroleum dispensing systems. These systems include petroleum dispensers and pumps, marketing systems, retail automation systems including point-of-sale (POS) systems, dispenser payment or "pay-at-the-pump" terminals, replacement parts and upgrade kits. Tokheim's state of the art dispensing solutions can be found in every state domestically and in over 145 countries within North America, Latin America, Europe, Africa, Asia and the Middle East. For complete information, contact us or your local distributor.



All Tokheim products must be installed and used in conformance with any and all applicable jurisdictional, local, municipal, district, county, provincial, regional, national, and international building, fire, safety and fuel-dispensing codes, laws, rules, ordinances and/or requirements, including, but not limited to, the requirements set forth in the National Fire Protection Association *Automotive & Marine Service Station Code NFPA30A* and the *National Electric Code NFPA70*. No Tokheim products including, but not limited to, fuel dispensers, shall be used for direct fueling of aircraft without first obtaining the safety and other equipment necessary to ensure product purity. As Tokheim regularly improves its products to better respond to evolving market and regulatory requirements, it reserves the right to change any of the specifications of its products at any time without prior notice. All sales of Tokheim products are subject to the laws of the State of Indiana of the United States of America. All sales of Tokheim products are also subject to Tokheim's standard warranty, which standard warranty is set forth in Tokheim U.S. Warranty Policy, Form 5777.

Corporate Headquarters

Tokheim Corporation

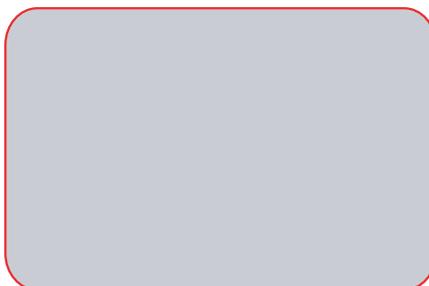
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