DOVER
FUELING SOLUTIONS

Dispenser Technology – Wayne Helix 6000-II

Product Enhancements

Apr-2022

DFS *Worldwide* Brands

Wayne OPW ClearView
TOKHEIM ProGauge fairbanks

DOVER FUELING SOLUTIONS

Our Mission

WE ARE

OUR VALUES

A Collaborative Entrepreneurial Spirit

Winning Through Customers

Engaging in High Ethical Standards, Openness and Trust

Fostering Expectations for Results

Respecting and Valuing People

WE ARE

OUR VISION

Enabling the evolution of consumer experience in fueling and convenience retail.

WE ARE

OUR MISSION

A leading global provider of advanced customer-focused technologies, services and solutions in the fuel and convenience retail industries.

DOVER FUELING SOLUTIONS

WE ARE

OUR CULTURE

A team committed to doing great things, collaborating to deliver exceptional business results for our customers. We are accountable, results driven and create value, through innovation, continuous improvement and execution excellence.

WE ARE

CULTIVATING EXCELLENCE

Aligned

Accountable

Engaged

Problem Solvers

Customer-Centric

Celebratory in Success

Execution Champions

DFS *Worldwide* Brands

Wayne FUELING SYSTEMS · OPW FUEL MANAGEMENT SYSTEMS · ClearView · TOKHEIM · ProGauge · fairbanks

Meet Wayne Helix 6000-II

Product Enhancements

Our Innovative Wayne Technology Re-Imagined

Helix 6000-II
Full Hose Retraction

Leveraging decades of hydraulic innovation, we have re-imagined the Helix 6000 model and designed a new and improved fuel pump packed with leading technology for reliable performance.

Our innovative modular design, quality materials and best of the best components ensures superior nozzle availability and low TCO.

Say Hello to Wayne Helix 6000-II

Reliable Performance through Technology Leadership offering True Modularity and Configuration Flexibility

- Innovative design with superior technology and long-lasting quality from field-proven best of the best componentry and corrosion resistant materials ensuring durability and reliable performance
- Intelligent modular design with models for wide range of fluids, flow rates and options to suit any site or application
- Modern reliable design that provides accurate metering and a long life with less service interventions for low total cost of ownership

Technology Leadership to the Core!

Our innovative design, quality materials and best of the best components ensures reliable performance for superior nozzle availability and low TCO

- True Wayne innovation with advanced IoT technology connecting the dispenser to the cloud and our powerful DX platform for monitoring and advanced remote management capabilities for low TCO
- Reliable electronics and certified metering accuracy from field-proven technology delivering exceptional stability for minimal drift
- Robust hydraulic system with field-proven gear pump technology and quality materials for excellent fluid compatibility delivering reliable performance for superior nozzle availability
- A safe investment for years to come with future-proofing modularity and our durable design that benefits from field-proven components and corrosion resistant materials for a lifetime of reliable performance

Helix 6000-II

What's New?

True Wayne Innovation providing Remote Connectivity and Reliable Performance for Superior Nozzle Availability from Wayne Technology Leadership

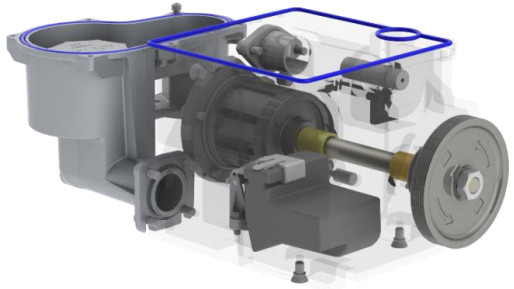
- Improved hydraulic system based on field-proven gear-pump technology in new stack arrangement for reduced vibration & noise.
- Improved nozzle availability from enhanced durability with suction stack redesigned with cast-iron pulley and self-tensioning belt technology for reduced wear and better TCO.
- Improved user experience with redesigned hose retraction for long reach with less pull force required.
- Improved maintainability with better access, patented double-bump tube connections and external filter-pot as standard.
- Advanced IoT technology connecting the dispenser to the cloud and our powerful DX Platform for advanced management capabilities for low TCO

Improved Hydraulic Suction System

Improved hydraulic system based on field-proven best of the best gear-pump technology in new arrangement for reduced vibration & noise with same reliability & performance

- New stack arrangement

- New cast-iron pulley & self-tensioning belt system



- New sealed connection

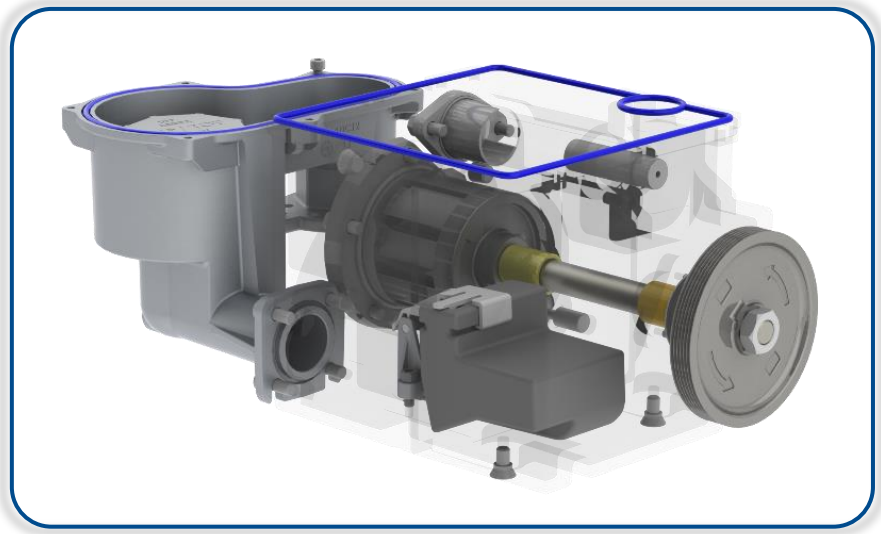
- Improved TCO with reliable performance and reduced wear & tear

Suction Gear Pump

Our field-proven best of the best gear pump technology offer more efficient fueling with less noise and reduced risk of leaks compared with competitive designs

Less vibration & noise

- Gear pump cause less vibration than vane-style pumps resulting in less noise and less vibration, reducing the risk of leaks caused by vibration strain on tube assembles and bracketry. Our design offer additional stability from the positioning of the pumping unit below the motor for a lower point of gravity.

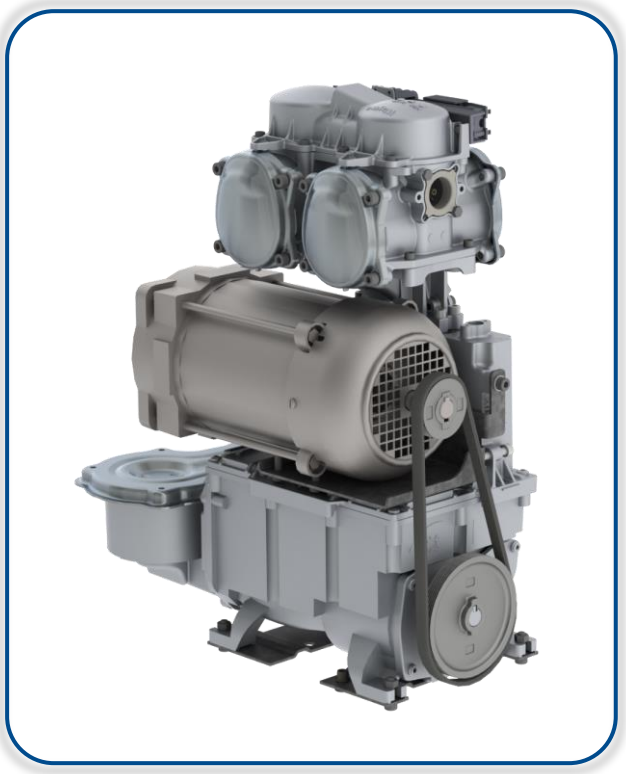


Versatility for all fuel types

- Our hydraulic system is designed with quality materials incl flour silicone seals for excellent fluid resilience for durability with all fuel types in a broad range of temperatures.

High Capacity Pumping Unit

Designed for high-capacity flow using positive displacement gear pump technology for reliability and lowest TCO.



- **Designed for reliability in all conditions**
  Robust versatile design with superior lifetime performance from durable materials and high-quality componentry including fuel resistant seals compatible with a broad range of fuels for reliable performance in a wide temperature range

- **Optimal performance from maintenance free design**
  Compact self-lubricating design with guided path for moving parts to avoid wear for enduring operation. Engineering excellence with less operational vibration from aluminum housing, cast-iron pulley and self-tensioning belt technology for minimal wear and easy maintainability.

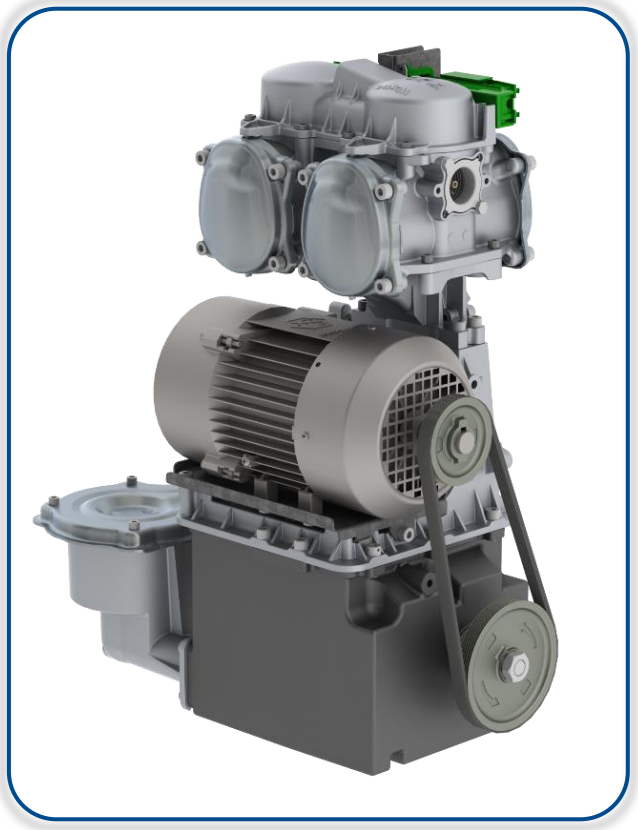
DFS is standardizing on gear pump technology for both retail and high flow capacity dispensers, as gear pump technology offers better durability and reliability than vane-style pumps, offering superior performance and low TCO

Maintenance free design

- Our maintenance free self-lubricating gear pump has guided path for moving parts to prevent breakdown and repairs. No blade to replace from wear as gear pumps avoids the friction between the housing and the blade seen with vane-style pumps.

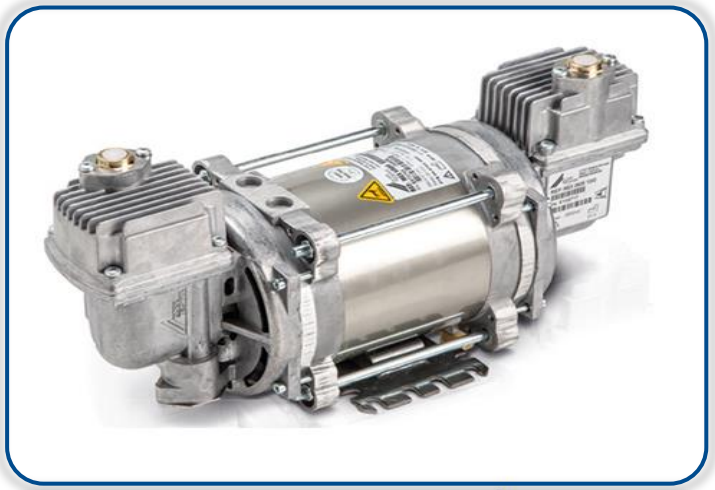
Self-tensioning belt

- Engineering excellence with less operational vibration with cast-iron pulley and self-tensioning belt that reduces heat from belt friction for minimal wear to ensure durability.



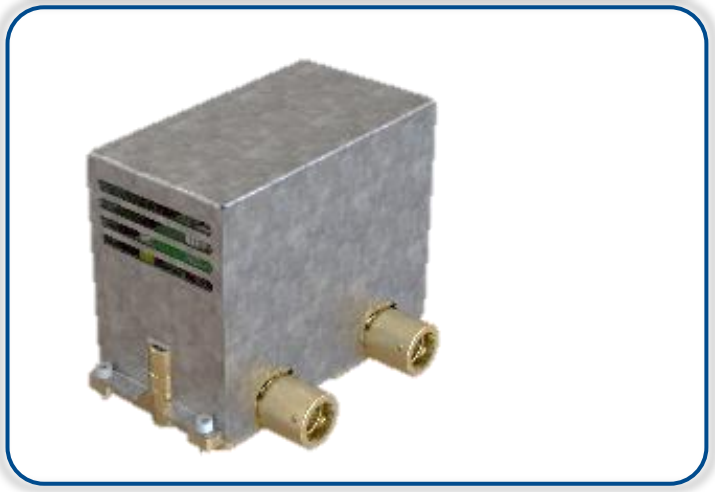
Stage II Vapour Recovery

Improved stage II vapour recovery (VR2) system with direct drive form combined motor and pump unit, eliminating belt used on alternative system, avoiding wear & tear for low TCO



Electronic Vapour Recovery (EVR)

- Robust field-proven electronic VR2 system to ensure environmental compliance from reliable vapour recovery performance.



Self-Calibrating Electronic Vapour Recovery (SC-EVR)

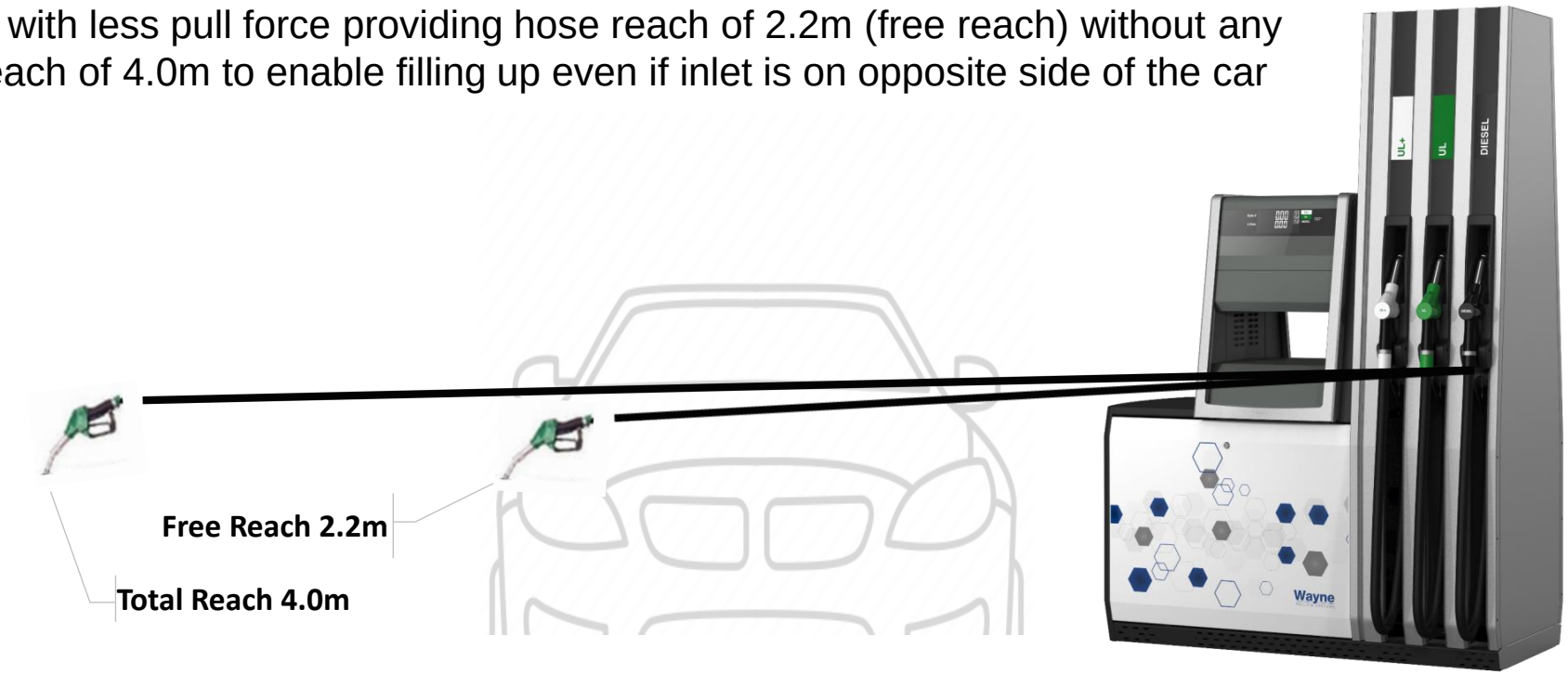
- Field-proven VFM technology providing an automatic vapour recovery monitoring system that continuously checks the recovery performance and proactively regulates the vapour flow in a closed loop system to ensure compliance with environmental codes.

Improved hose retraction system for better user experience that requires less pull force for long reach

- Field-proven design improved to require less pull force, offering minimal wear & tear and ease of use even for long reach
- Users benefit from long reach with less pull force providing hose reach of 2.2m (free reach) without any need for pull force and total reach of 4.0m to enable filling up even if inlet is on opposite side of the car

Hose Reach

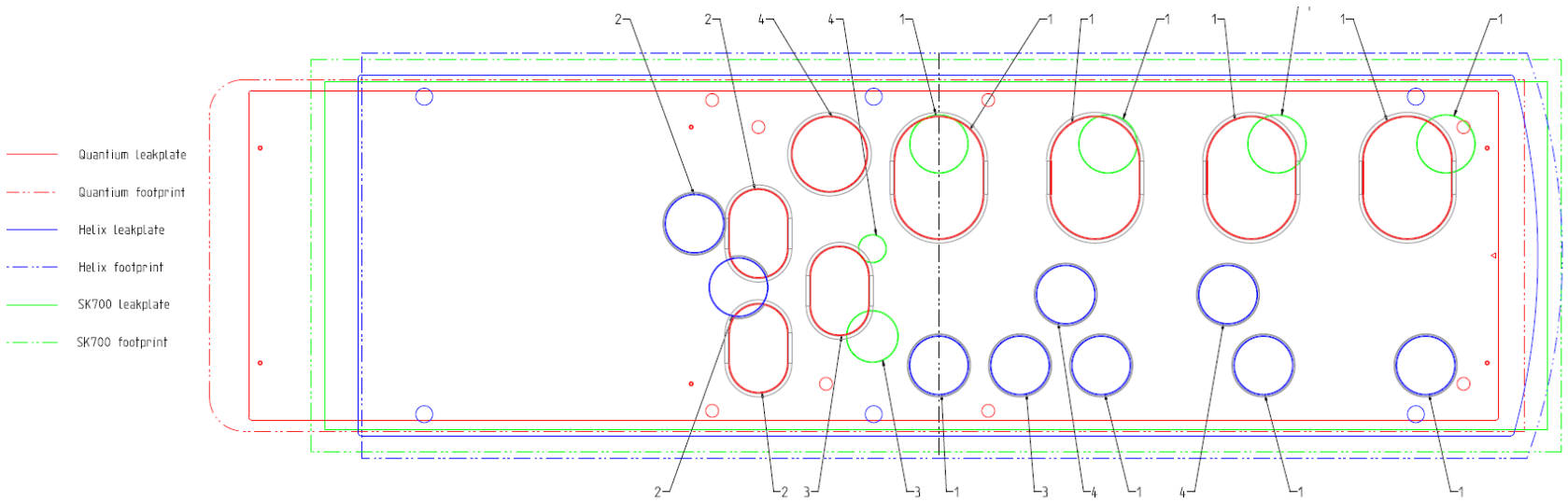
- Free reach is measured from the dispenser to its furthest nozzle reach at a height of 1 meter without engaging the retraction system
- Total reach is measured from the dispenser to the fullest pull of the nozzle at a height of 1 meter

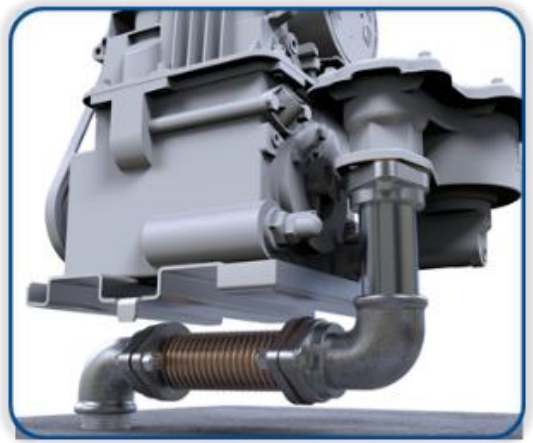


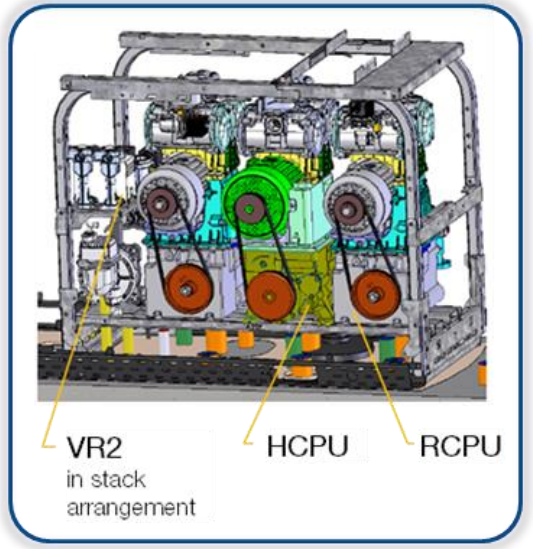
Inlet Positions

Helix 6000 II standardizes on the positioning of inlet connections

- Improved height underneath stacks for connection to riser pipework
- Inlet position is opposite current Helix stack. Optional pump replacement kit for low cost of change without pipework modification







Helix 6000 II features an optimized design with minor changes in footprint

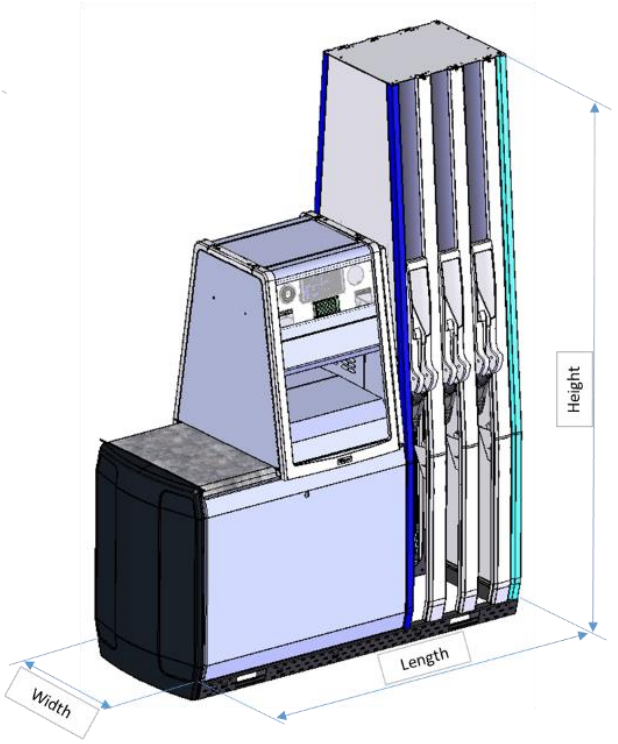
- Optional adaptor plates available for secure fixation and low cost of change

Helix 6000

Configuration	Height	Length	Width
11-11	2050	1067	600
22-22		1207	
33-33		1347	
44-44		1759	
55-55		2109	

Helix 6000-II

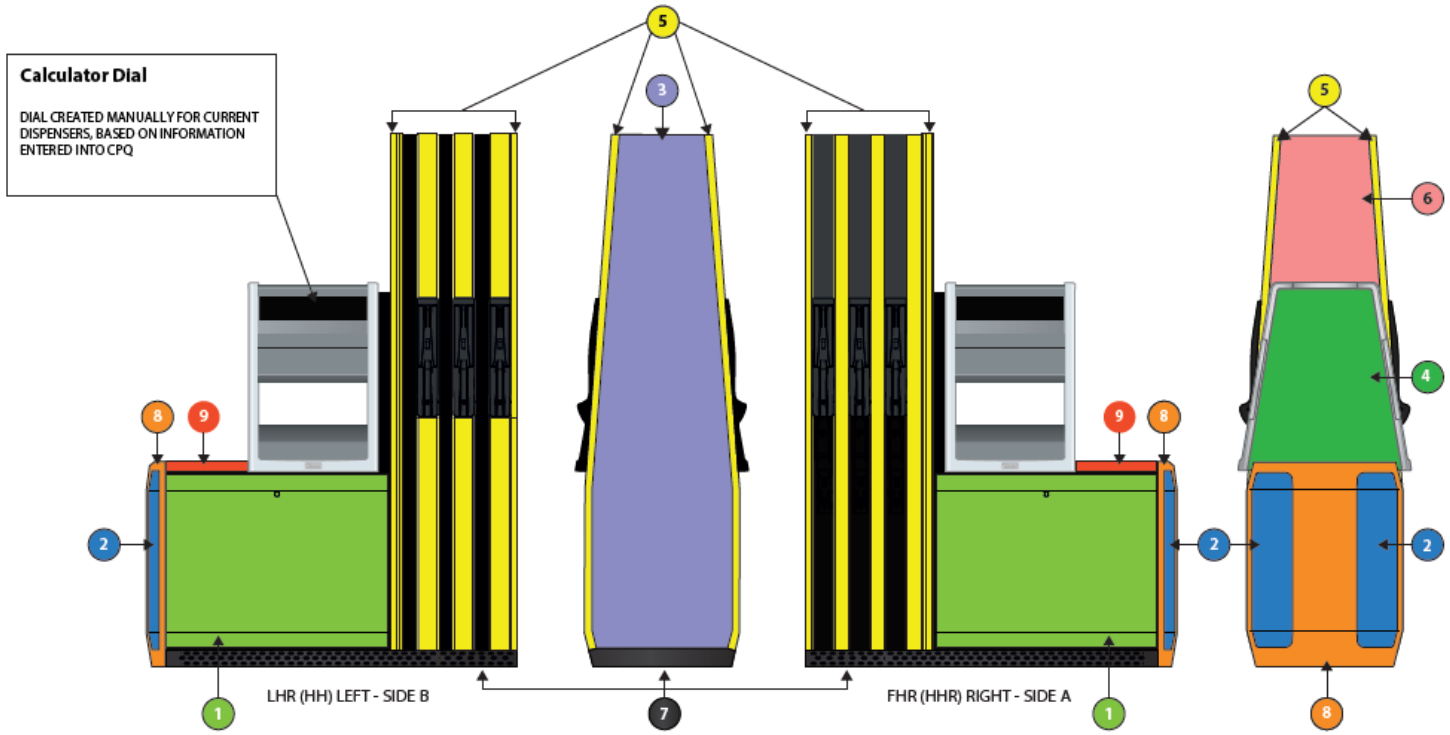
Configuration	Height	Length	Width
1-2-1 (2F1C)	2050	920	600
2-4-2 (2F2C)		1060	
3-6-3 (3F3C)		1440	
4-8-4 (4F4C)		1820	
5-10-5 (5F5C)		2200	



Designed with field-proven quality components and corrosion resistant materials for a lifetime of reliability

Number	Material	Details
1	Hardened glass	No risk of yellowing and hardened to withstand accidental nozzle impact
2	Coloured injected moulded plastic	Nozzle boot plastic specified for continuous expose to fuel and chemical vapours and liquids without significant fading. Plastic is coloured through to maintain colour despite scratches
3	Powder painted hot dipped galvanized steel	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard
4	Powder painted Aluminum	Aluminum protected with high quality paint for protection to C4 standard
5	Powder painted hot dipped galvanized steel	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard
6	Powder painted hot dipped galvanized steel	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard
7	Powder painted hot dipped galvanized steel with Vinyl Wrap	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard. Logo and design provided through vinyl wrapping
8	Powder painted hot dipped galvanized steel	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard

Greater flexibility for customer branding with same trusted corrosion protection through our leading paint technology



Colour reference (refer to DETAIL A)

	No.	Name	Customisable	Code
	1	Hydraulic Door	Yes	RAL
	2	Small Side Panels (Kidneys)	Yes	RAL
	3	Large Column	Yes	RAL
	4	Bezel Cover (option)	Yes	RAL
	5	Nozzle Panels	Yes	RAL
	6	Top Tech Column	Yes	RAL
	7	Base Frame	2 OPTIONS	RAL7021 / SHELL GREY
	8	Side Panel	Yes	RAL
	9	Hydraulic Top Panel	Yes	RAL

What's New - Summary

Wayne Helix 6000-II

- True Wayne innovation with advanced IoT technology connecting the dispenser to the cloud and our powerful DX platform for remote monitoring and advanced management capabilities for low TCO
- Improved hydraulic system based on field-proven gear pump technology in new stack arrangement for reduced noise & vibration
- Stage II vapour recovery in stack arrangement for better service access. New field-proven vapour flow meter and same field-proven direct drive VR pump eliminating belt wear & tear.
- New field-proven high capacity pumping unit for very high-speed flowrates. Same stack size as the retail capacity pumping unit to offer full flexibility. Allows for fewer pumping units in some very high-speed model configurations.
- Minor changes to footprint. New standard position of inlets. Improved height underneath stack for connections to riser pipework for minimal cost of change.
- Redesigned FHR full hose retraction with improved ease of use
- Greater flexibility for customer branding and strong corrosion protection from our leading paint technology

© 2018 Dover Fueling Solutions. All rights reserved. DOVER, the DOVER D Design, DOVER FUELING SOLUTIONS, and other trademarks referenced herein are trademarks of Delaware Capital Formation. Inc./Dover Corporation, Dover Fueling Solutions UK Ltd. and their affiliated entities.