



DIGITAL FLOW METER

www.dgflow.co.kr



DIGITAL FLOW CO.,LTD.

HOW ARE YOU?

Thank you for your interest in **Digital Flow Co., Ltd.**
and also for your encouragement.

We are a manufacturer of fuel dispenser, flow meters and flow control counters.

We are working hard to provide high quality products through constant investment and R&D since its establishment in 2009.

We develop and produce oval gear flow meters and turbine flow meters with homegrown technologies.

Our direct responses help satisfy the diverse needs of global customers, thus having our products exported to many countries worldwide including Thai and India starting with Finland in 2011.

We are committed at Digital Flow Co., Ltd. to providing high quality products on the basis of rich experiences and know-hows in the engineering and the manufacturing of various types of flow meters, counters and sensors.

With trustworthiness as the backbone of our corporate activities, we are determined to build Digital Flow as a reliable partner that always works hard while innovating manufacturing technologies and accelerating processes.

We ask for your continuous support and guidance.

Thank you.

Sincerely, Digital Flow

2009

Established Digital Flow Co., Ltd.
Manufactured the first oval gears produced by aluminum extrusion.

2010

Started selling the oval gear flow meters produced by homegrown technologies.

2011

- 01** Started exporting to Finland.
- 02** Started selling the micro oval gear flow meters to domestic market.
- 07** Developed the fuel flow meters for cars that measures 5-150 liters per hour.
- 08** Started selling the smallest size of oval gear flow meters in domestic market.
- 10** Obtained a certification of product-specific approved exporter.

2012

- 05** Start exporting flow meter for portable fuel dispenser to Thailand.
- 06** Started exporting to India.
- 10** Started producing flow meters for automobile fuel injection nozzle (CRDI).

2014

- 03** Started exporting portable fuel dispenser to Myanmar.
- 06** Selection to Promising Export Firm.

2013

- 02** Started exporting to Germany.
- 08** Started exporting to Turkey.
- 09** Started exporting to Estonia.
- 12** Achieve \$1 million export tower of the year 2014 (KITA).
- 08** Obtained a UL25A (FLAMABLE-LIQUID METERS) certification of DGT-010.
- 09** Signed a long-term supply agreement for the flow meters for portable fuel dispenser.

2015

2016

- 03** Completed the development of fuel dispenser.

- 03** Completed the development of fuel dispenser.

2017

TURBINE FLOW METER

DGTT-015S



ACCURACY (STANDARD INSTALLATION POSITION)	±0.5%
MAXIMUM WORKING PRESSURE	300kgf/cm ²
FLUID & AMBIENT TEMPERATURE	-40 to 80°C
FLOW-RATE RANGE	400 ~ 5,000 L/H
PULSE UNIT	0.00277 L/P (361 P/L)
POWER VOLTAGE	3 ~ 24V DC
OUTPUT SIGNAL	PULSE OUT (NPN Open Collector)
CONNECTION	PT3/4 (External Thread)
MAIN MATERIALS	Rotor-Polyamide+Ferrite Casing-304 Stainless Steel Shaft-316 Stainless Steel

DG-100 DIGITAL FLOW CONTROLLER

DG-100



DISPLAY	2 LINE 9 DIGIT DISPLAY
INPUT POWER	AC 100~240V / DC12V
INPUT SIGNAL	V, O.C, PA Pulse, 4~20mA, COIL SENSOR
EXTERNAL COMMUNICATIONS	RS485, RS232C
THE OUTPUT SIGNAL	Pulse Output Calibration Pulse Output 4 ~ 20mA Output
CONTROL	Relay Output (High, Low)

UL CERTI MODEL DGT-010



ITEM		Model
		DGT-010AI
MEASURABLE FLUID	MAJOR FLUIDS	Kerosene, Gasoline, Diesel, Light Oil, Heavy Oil
ACCURACY (STANDARD INSTALLATION POSITION)		±0.5%
MAXIMUM WORKING PRESSURE		10Kgf/cm ² (150psi)
FLUID & AMBIENT TEMPERATURE		-40 to 60°C (Gasoline)
FLOW-RATE RANGE (±1% RS)		20 - 600 L/H
PULSE UNIT		0.00241L/P (415P/L)
POWER VOLTAGE		3 - 24V DC
OUTPUT SIGNAL		NPN Open Collector
CONNECTION		NPT1/2 (Internal Thread)
MAIN MATERIALS		Rotor : Coated Aluminum Casing : Coated Aluminum O-ring : NBR (PAKER N1500) Shaft : 316 Stainless Steel

FUEL DISPENSER FLOW METER DGT-025AI



ITEM		Model
		DGT-025AI
MEASURABLE FLUID	MAJOR FLUIDS	Kerosene, Gasoline, Diesel, Light Oil, Heavy Oil
ACCURACY (STANDARD INSTALLATION POSITION)		±0.3%
MAXIMUM WORKING PRESSURE		10kgf/cm ² (150psi)
FLUID & AMBIENT TEMPERATURE		-40 to 150°C
FLOW-RATE RANGE (±1% RS)		4L/M ~85L/M
PULSE UNIT		0.00061L/P(1640P/L)
POWER VOLTAGE		3 - 24V DC
OUTPUT SIGNAL		NPN Open Collector(A, B Phases)
MAIN MATERIALS		Rotor: Coated Aluminum Casing : Coated Aluminum O-ring : Viton Shaft : 316 Stainless Steel

PORTABLE FUEL DISPENSER

Parts of DISPENSER



MODEL : DCD-21

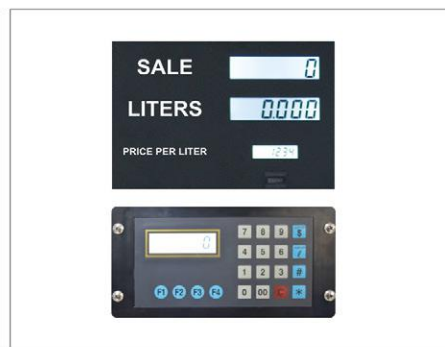
2PUMP 1NOZZLE TYPE

MODEL : DCD-41

4PUMP 1NOZZLE TYPE



The flow meter is high quality.



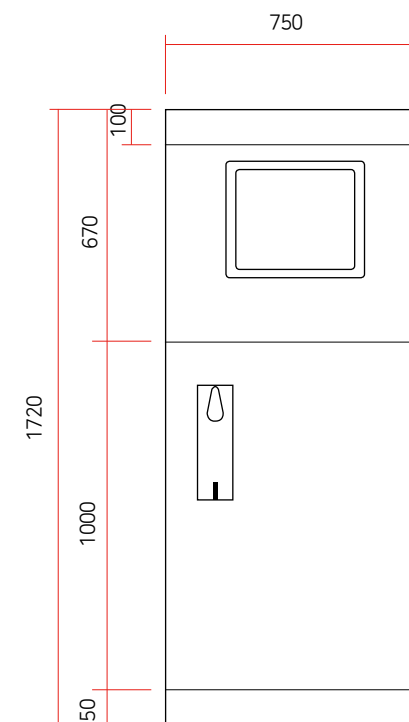
The display and preset.



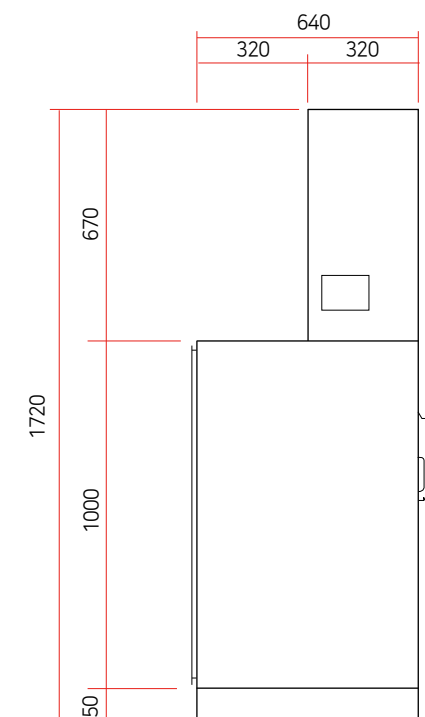
Rotary Vane Pump.

PORTABLE FUEL DISPENSER

Dimensions & Specifications



* Size and unit millimeter.



* Size and unit millimeter.

TYPE

TYPE	2PUMP 1NOZZLE, 4PUMP 1NOZZLE
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POWER

POWER REQUIREMENT	AC 200~240V, 50/60Hz(DC12V 25A)
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FLOWRATE

DELIVERY SPEED	Speed Standard Speed : 7ℓ /min, High Speed :16ℓ/min
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*Note - The delivery speed is effected by oil products, suction conditions and size of hose, nozzle, swivel and solenoid valve.

PUMP AND MOTOR(SUCTION MODEL)

PUMP	Self Primed Suction Type, Rotary Vane Type, Bypass Valve, Steel Filter
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FLOW METER

TYPE	Oval gear positive displacement meter
MEASURING ACCURACY	±0.3%

DISPLAY

TYPE	LCD Display with Backlight
READOUT	Sale:6digits(999,999)/Liter(GALLON):6digits(999,999) /Unit price:6digits(9,999)

NOZZLE & HOSE

NOZZLE	Automatic Shut-Off Nozzle
HOSE	Standard Speed : 1/2"X5m, Single Swivel. High speed : 3/4" X 5m, Single Swivel.

OPERATING ENVIRONMENT

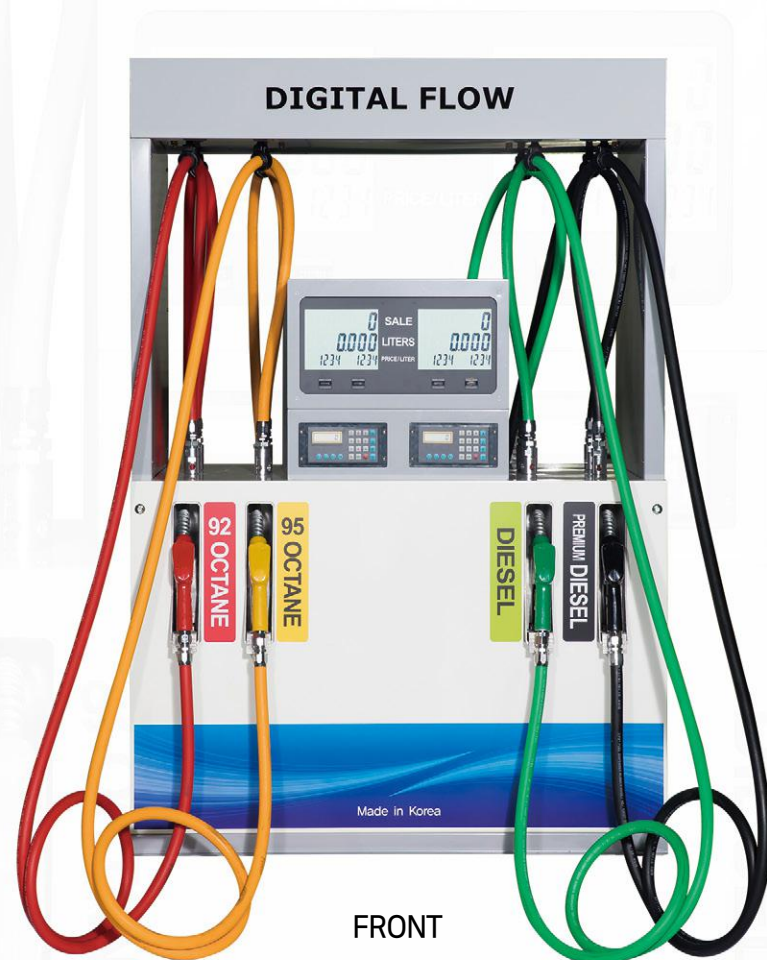
TEMPERATURE	-25°C / -77°F ~ +60°C/+140°F
RELATIVE HUMIDITY	5~95%(Under no Condensign)

FUEL CAPACITY

DRUM	200L
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FUEL DISPENSER

MODEL : DCD-048 (4PUMP 8NOZZLE TYPE)



FRONT



INSIDE

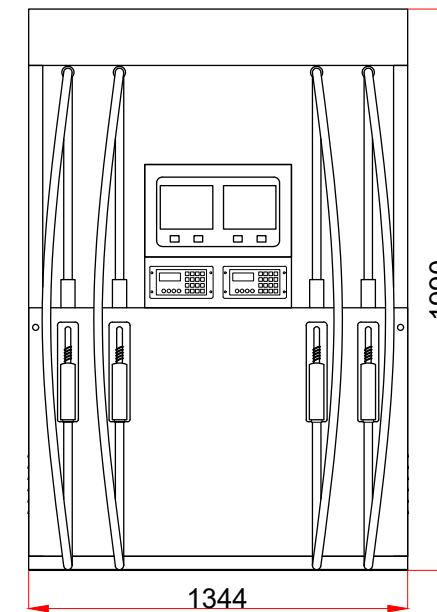
Disadvantages of Piston Type Flowmeter

1. The structure is complicated and the failure rate is high.
2. Deviation due to temperature (due to cylinder expansion and contraction) is large.
3. Oil scale is build up in the cylinder and the flow rate value changes continuously.
Therefore, you should reset calibration at every six months.
4. The accuracy is $\pm 0.5\%$

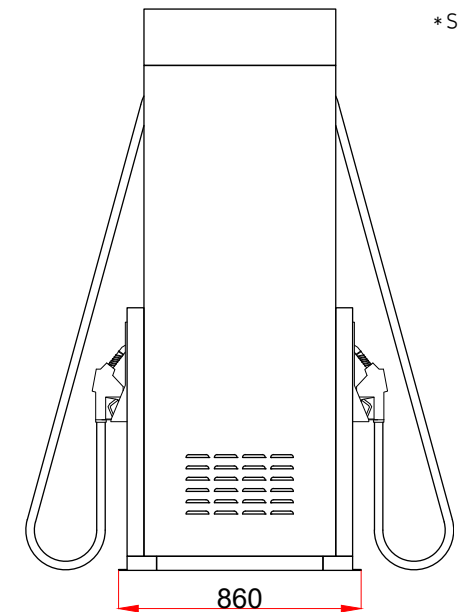
Advantages of Oval Gear Type Flow Meter

1. The structure is simple and the failure rate is really low.
2. There is no deviation by temperature.
3. It is rotating type so there is no oil scale build up.
So once you set calibration, you do not need to set it again.
4. The accuracy is $\pm 0.3\%$

Dimensions & Specifications



FRONT



SIDE

* Size and unit millimeter.

TYPE

TYPE	4 PUMP 8NOZZLE
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POWER

POWER REQUIREMENT	AC 220V $\pm 10\%$, 50/60Hz
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CONNECTION

SUCTION CONNECTION	1-1/2" Flexible pipe
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FLOWRATE

DELIVERY SPEED	Standard Speed : 40ℓ /min, High Speed :60ℓ /min
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*Note - The delivery speed is effected by oil products, suction conditions and size of hose, nozzle, swivel and solenoid valve.

PUMP AND MOTOR(SUCTION MODEL)

PUMP	Self Primed Suction Type, Gear Type with Air Separator, Bypass Valve, Steel or Paper Filter
MOTOR	ATEX, 3/4 HP or 1HP-Explosion-Proof Type Continuos duty motor with overload protection

FLOW METER

TYPE	Oval gear positive displacement meter
MEASURING ACCURACY	$\pm 0.3\%$ (5ℓ/min~Qmax)

DISPLAY

TYPE	LCD Display with Backlight
READOUT	Sale : 7 digits(9,999,999) Liter, GALLON : 7 digits(9,999,999) Unit price : 5 digits(99,999)
SELF-DIAGNOSIS	Checking function followed by OIML regulation Stop operation automatically if failed

TOTALIZER

EMC	7 Digits	RUNNING TOTAL	12 Digits	SHIFT TOTAL	12 Digits
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NOZZLE & HOSE

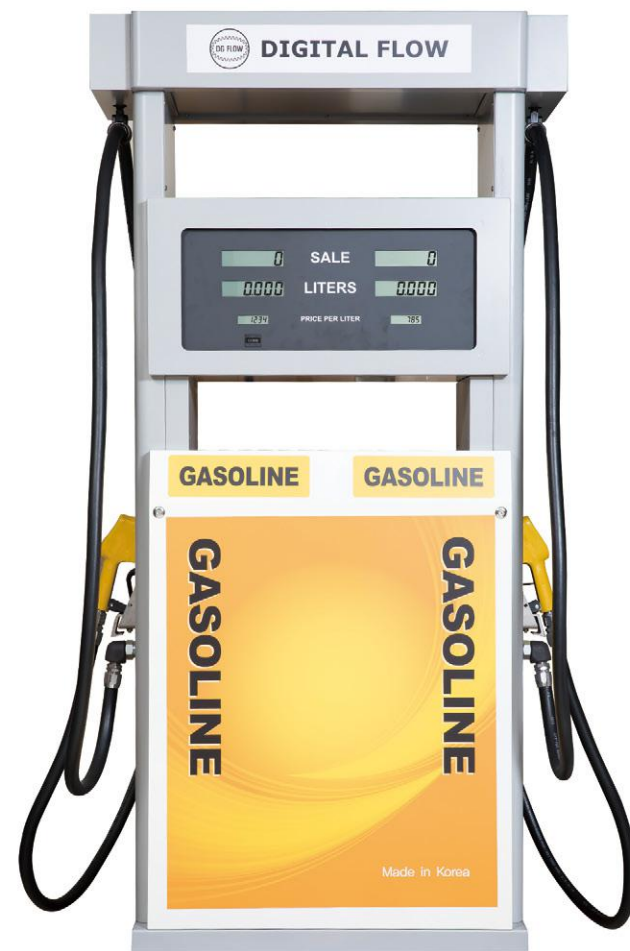
NOZZLE	Automatic Shut-Off Nozzle
HOSE	Standard Speed : 3/4"X5m, Single Swivel. High speed : 1" X 5m, Single Swivel(OPTION)

OPERATING ENVIRONMENT

TEMPERATURE	-25°C / -77°F ~ +55°C/+131°F
RELATIVE HUMIDITY	5~95%(Under no Condensign)

FUEL DISPENSER

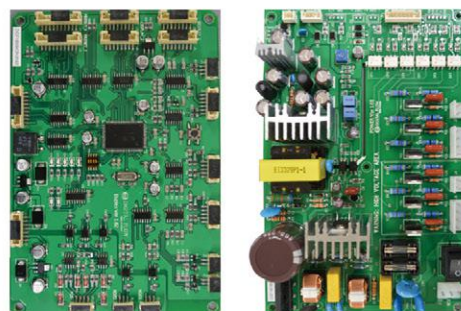
Parts of DISPENSER



The flow meter is high quality.



The display and preset.



The main board and the power supply.



Gear pump is an efficient.

FUEL DISPENSER

Model Type

MODEL : DCD-012 1PUMP 2NOZZLE TYPE

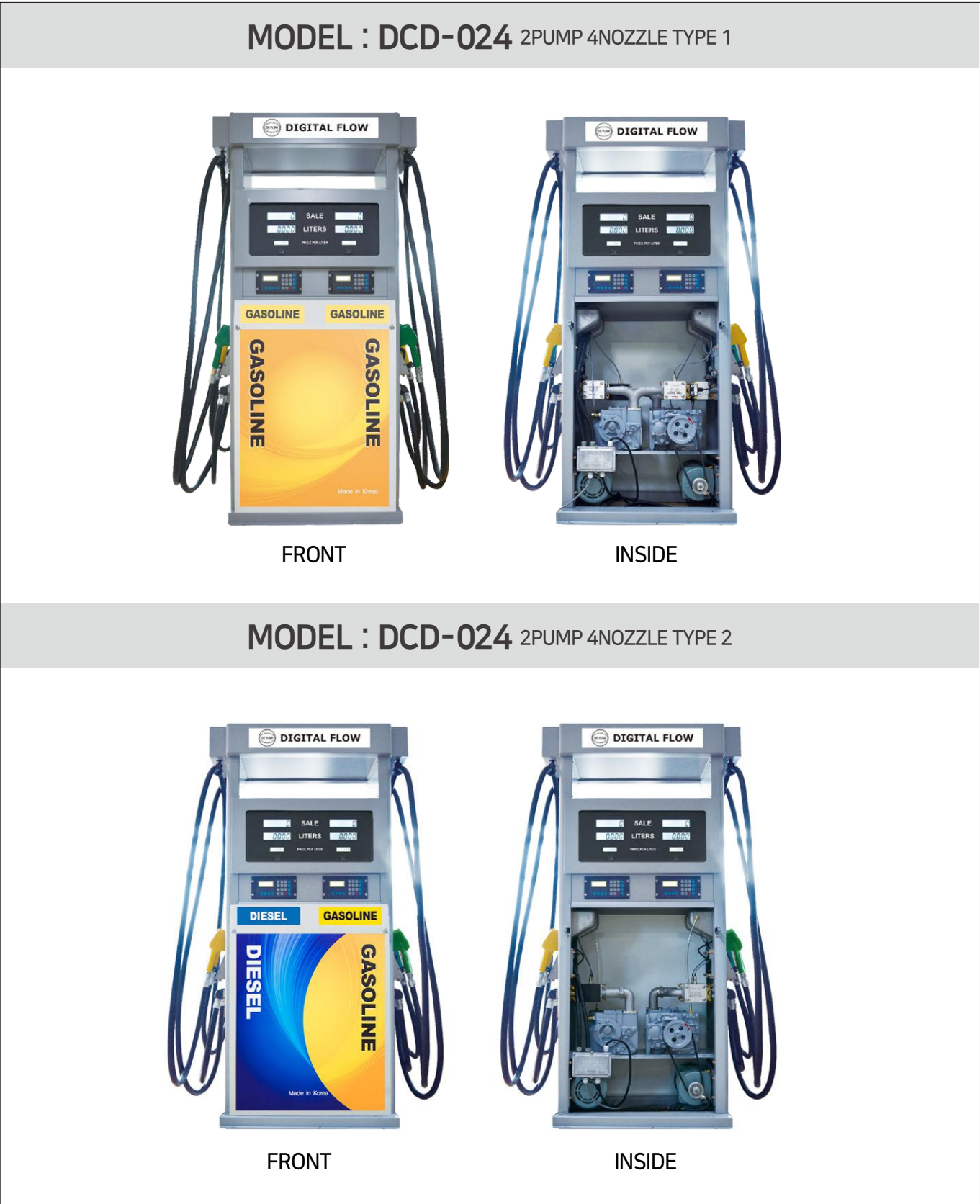


MODEL : DCD-022 2PUMP 2NOZZLE TYPE



FUEL DISPENSER

Model Type



FUEL DISPENSER

Specifications

TYPE

TYPE	1PUMP 2NOZZLE, 2PUMP 2NOZZLE, 2PUMP 4NOZZLE				
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POWER

POWER REQUIREMENT	AC 220V±10%, 50/60Hz				
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Connection

SUCTION CONNECTION	1-1/2" Flexible Pipe				
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Flowrate

DELIVERY SPEED	Standard Speed : 40ℓ /min, High Speed :60 ℓ /min				
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*Note - The delivery speed is effected by oil products, suction conditions and size of hose, nozzle, swivel and solenoid valve.

PUMP AND MOTOR(SUCTION MODEL)

PUMP	Self Primed Suction Type, Gear Type with Air Separateor, Bypass Valve, Steel or Paper Filter				
MOTOR	ATEX, 3/4 HP or 1HP-Explosion-proof type / Continuos duty motor with overload protection				

FLOW METER

TYPE	Oval gear positive displacement meter				
MEASURING ACCURACY	±0.3%(5ℓ /min~Qmax)				

DISPLAY

TYPE	LCD Display with Backlight				
READOUT	Sale : 6digits(999,999) / Liter(GALLON) : 6digits(999,999) / Unit price : 4digits(9,999)				
SELF-DIAGNOSIS	Checking fucntion followed by OIML regulation / Stop operation automatically if failed				

TOTALIZER

EMC	7 Digits	RUNNING TOTAL	12 Digits	SHIFT TOTAL	12 Digits
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NOZZLE & HOSE

NOZZLE	Automatic Shut-Off Nozzle				
HOSE	Standard Speed : 3/4"X5m, Single Swivel. / High Speed : 1" X 5m, Single Swivel(OPTION)				

OPERATING ENVIRONMENT

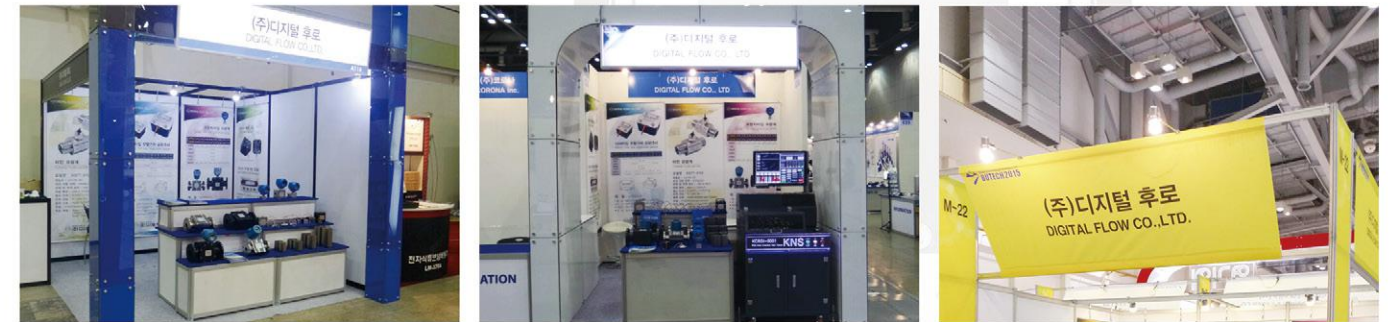
TEMPERATURE	-25°C / -77°F ~ +55°C/+131°F				
RELATIVE HUMIDITY	5~95%(Under no Condensign)				

CERTIFICATION



EXHIBITION

Domestic exhibition



Overseas exhibition



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