# 730 Drive with 720RE Pumphead

700 series cased pump

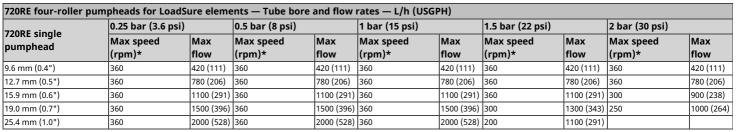
#### Features and benefits

- Color display and intuitive menu structures provide visual status indication and minimal key presses
- Flow rates from 0.12 L/h (0.03 USGPH) to 3,300 L/h (872 USGPH)
- 3,600:1 speed control range from 0.1 to 360 rpm in 0.1 rpm increments
- Keypad incorporates 3-level security PIN lock
- IP66 (NEMA 4X) cased pumps
- Dual voltage 115/230 V 50/60 Hz
- Remote Analogue/Digital, RS485, PROFIBUS®, PROFINET®, SCADA and EtherNet/IP<sup>™</sup> control options

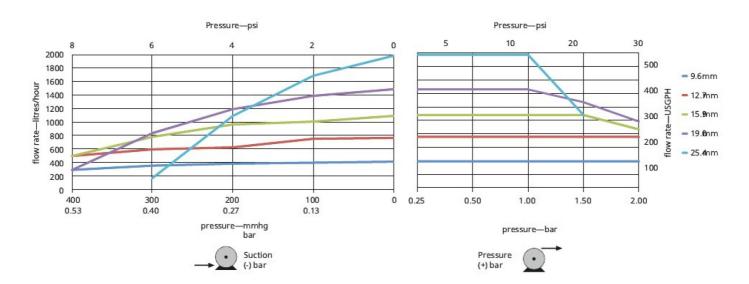




#### 730 Drive with 720RE Pumphead performance



\*The maximum speed is reduced at increased discharge pressures to ensure safe running of the pump







#### **Technical specifications**

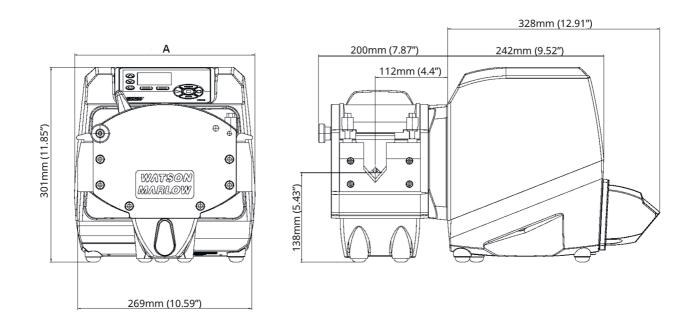
	730 Drive with 720RE Pumphead					
Pumphead number of rollers	4					
Pumphead number of channels	1					
Max. flow rate	2000 L/h					
Min. flow rate	0.12 L/h					
Max. flow rate	528 USGPH					
Min. flow rate	0.03 USGPH					
Drive speed control ratio	3600:1					
Drive speed	0.1 - 360 rpm					
Operating temperature range	5 to 40 °C					
Operating temperature range	40 to 104 °F					
Weight	25 kg					
Weight	55.1 lbs					
Drive weight	18.5 kg					
Drive weight	40.8 lbs					
Control types	EtherNet/IP™, PROFIBUS®, PROFINET®, Remote Analogue/Digital, RS485, SCADA					
Drive control options	BpN, DuN, DuS, EnN, PnN, SN, UN, US					
Drive standards	CE, cETLus, C-Tick, IRAM, NSF/ANSI 61 (for Marprene tubing and loadsure elements)					
Drive ingress protection	IP66, NEMA 4X					
Drive humidity	(Non-condensing) 80% up to 31°C (88°F), decreasing linearly to 50% at 40C (104F)					
Drive noise	85dB(A) at 1m					
Max. altitude	2000 m					
Drive power supply	100 to 120 V/200 to 240 V 1ph 50/60 Hz 350 VA, 100 V to 120 V/200 V to 240 V 1ph 50/60 Hz 350 VA					
Compatible tubing bore size	9.6, 12.7, 15.9, 19, 25.4 mm					
Compatible tubing wall thickness	4.8 mm					

### Materials of construction

	730 Drive with 720RE Pumphead					
Driveshaft	Stainless steel 440C					
Drive casework	Pressure die-cast aluminum LM24, Pressure die-cast aluminum LM6					
Drive casework coating	Alocrom pre-treatment, Exterior grade polyester powder coat					
Guide roller assembly	MoS2 filled Nylon 6 (Nylatron)					
Drive keypad/HMI	Polyester					
Pumphead front/back plates	Aluminum					
Drive rear blanking plate	Stainless steel 316					
Pumphead body assembly	Aluminum					
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron)					
Pumphead rotor assembly	Aluminum, Stainless steel					
Pumphead track	Aluminum					
Spindles	Stainless steel					
Springs	Stainless steel					
Switch-plate	ABS PA-765					

Information listed covers the complete range.

For detailed specifications of individual models/components refer to user manual or contact WMFTS representative.



	Dimension A
720RE	314 mm (12.4 ")

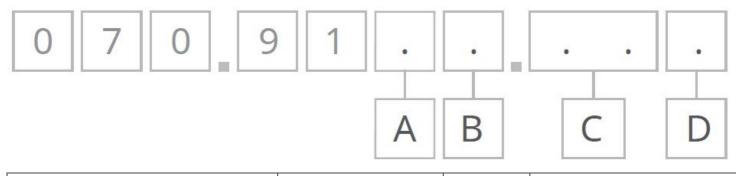
## **Control options**

## Key to pump drive

models																				
730SN	730UN	730DuN					730	OUS			730D	uS	73			730EnN			730PnN	
Standard IP66 / NEMA 4X	Universal IP66 / NEMA 4X	Digital Unive NEMA 4X	sal IP66 ,	/ Bus Pump / Profibus Universal SCAI IP66 / NEMA 4X / NEMA 4X						l Unive NEMA	rsal SCA 4X		EtherNet/IP / IP66 / NEMA 4X			PROFINET® / IP66 /NEMA 4X				
Manual control		[··-···		1			<i>p</i> · · ·			I				1						
Pump drives 730SN						730SN 730UN		730DuN		730BpN		730US		730Du	IS	730En	۱N	730PnN		
Intuitive keypad and colour display							√						10020		J		100			
Choice of flowrate or speed display							▼ ▼		v v					<b>v</b> J			<b>v</b>			
Full calibration with cho	✓	- -	v ✓					√ √			- -	•								
MemoDose function	✓	v		· ·		-														
Auto restart facility	1	<b>v</b>		<b>√</b>		1		-	V V		✓			✓						
Guard switch detection					<b>v</b>		<b>√</b>			1		✓		<b>v</b>	<b>v</b>		1		1	
Leak detection					<b>v</b>	√			1		~	· v		✓			<b>√</b>			
Dipensing (Network Control)											1									
Remote control										Ľ										
Pump drives										730SN	730	UN 7	30DuN	730BpN	730US	730D	uS	730EnN	730PnN	
Configurable start/stop	, leak detector and	pressure swite	h input (\	/ia contact cl	a contact closure or 5 V T			 TL to 24 V)			1	-		<u> </u>				<b>√</b>	<b>v</b>	
Configurable start/stop														1	<b>v</b>	~	$\neg$		1	
Direction change and a											~	~		1	1	1	$\neg$		1	
Direction change and a					,									1	<b>v</b>	~	$\neg$		1	
Remote operation of M	lemoDose (foot/har	nd-switch or lo	gic input)								~	~			<b>v</b>	~			1	
Four configurable digit	al status outputs th	rough 24 V, 30	W relays								~	~				1				
Four configurable digit	al status outputs th	rough 110 V re	lays												<b>v</b>	✓				
Remote pressure/flow	sensors																	√	V	
Analogue speed co	ontrol																			
Pump drives							730SN	N	730UN	730	DuN	73	0BpN	730US	730D	uS i	730E	nN 7	/30PnN	
Fully configurable inpu	ts; 0-10 V or 4-20 m	A				_			1	1			-	1	~	/				
Analogue outputs; 0-10	) V, 4-20 mA								1	1	<b>v</b>		<b>√</b>		1					
Keypad/analogue input	t scaling (replaceme	ent of diaphrag	m pumps	s)						1					1					
Tacho frequency outpu	it; 0-1478 Hz								<b>v</b>	1										
2x sensor inputs 4-20 mA or 0-1000Hz*																	√	~	/	
Security																				
Pump drives		730SN	73	OUN	730D	DuN		7	30BpN	730US			730	730DuS 73		EnN		730Pn	N	
3-level security PIN loc	k	<b>v</b>	✓		<b>v</b>			1	,	✓ ·			✓	✓				<b>v</b>	<b>v</b>	
Network communi	ication																			
Pump drives			730SN	730U	N	73	0DuN		730	)BpN		730U	S	730DuS	73	30EnN		730P	nN	
RS485 network control						1		_						<b>√</b>						
Digital pump comr	mands (Profibus	/ EtherNet	IP)	<u>.</u>																
Pump drives						730	SN	730	DUN	730Du	N	730B	рN	730US	730Du	S 7	'30Er	nN  7:	30PnN	
PROFIBUS® DP V0												<b>√</b>								
PROFINET® (CC-B & Ne	etload Class III)																	✓		
EtherNet/IP™																<b>√</b>	· .			
Communication speeds	s from 9.6 kbits/s u	to 12000 kbits	s/s									√								
Network speed: 10/100	Mbps - Full Duplex	Operation														<b>√</b>	/			
Network speed: 100 Mb	<u> </u>	eration																<b>√</b>		
Auto-detect bus speed												✓								
Speed set point												✓				<b>√</b>	<u> </u>	✓		
Speed feedback								L				<b>√</b>				<b>√</b>		<b>√</b>		
Flow calibration function						<u> </u>		⊢				✓					, 	<b>∨</b>		
Hours run						<u> </u>		⊢				✓				<b>'</b>	, 	<b>∨</b>		
Revolution counter						<u> </u>		⊢				✓				<b>∕</b>		<b>∨</b>		
Leak detection						<u> </u>						✓				<b>/</b>	,	<b>√</b>		
Low fluid level alarm						<u> </u>						✓						✓		
Diagnostic feedback								⊢				✓ ✓				<b>∨</b>		V		
Flow Totaliser Sensor scaling																		マ マ マ		
Dispensing (Network Control)								┣─				-						<b></b> /		
Jispensing (Network Control)								L							1					

\*Range of 3rd party pressure/flow sensors supported—see compatible sensor list on www.wmftg.com/literature

#### **Product codes**



A	В	с	D
Model	Ingress Protection	Pumphead	Plug options
3: S	N: IP66/ NEMA 4X	00: 720R	U: UK mains plug
4: U	S: SCADA IP66/ NEMA 4X <sup>1,2</sup>	E0: 720RE	E: EU mains plug
5: Du		X0: 720R/RX	A: American mains plug
6: Вр		EX: 720RE/RX	K: Australia mains plug
8: En			R: Argentina mains plug
9: Pn			C: Swiss mains plug
			D: India/ South Africa mains plug
			B: Brazilian mains plug
Notes:			

NOLES.

1. U and Du models only

2. Only available with American mains plug

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains and reserves the right to alter specifications without notice. It is the users responsibility to ensure product suitability for use within their application. Watson-Marlow, LoadSure, Pumpsil, PureWeld XL, Bioprene, Marprene are registered trademarks of Watson-Marlow Limited. Tri-Clamp is a registered trademark of Alfa Laval Corporate AB. GORE and STA-PURE are registered trademarks of W.L. Gore and Associates. Please state the product code when ordering pumps and tubing.

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