730 Drive with 720R/RX pumphead



700 series cased pump

Features and benefits

- Colour display and intuitive menu structures provide visual status indication and minimal key presses
- Flow rates from 0.12 L/h (0.03 USGPH) to 3300 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™ control options











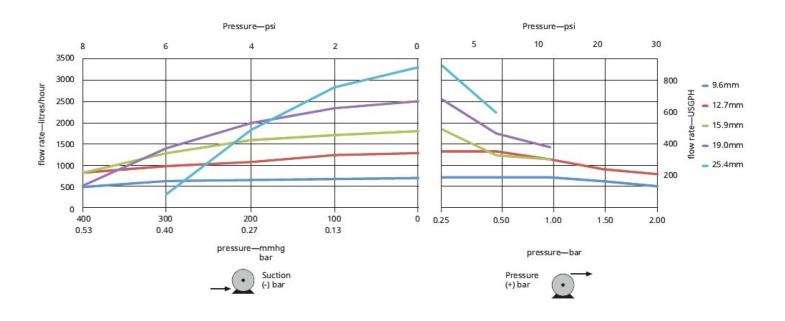




730 Drive with 720R/RX pumphead performance

720KX TOUT-FOILET E.	0.25 bar (3.6 ps		0.5 bar (8 psi)		1 bar (15 psi)	e bore and	flow rates — L/h (USGPH) 1.5 bar (22 psi)		2 bar (30 psi)		
720R/RX twin pumpheads	Max speed (rpm)*	-	Max speed (rpm)*	Max	Max speed (rpm)*	Max flow	Max speed (rpm)*	Max flow	Max speed (rpm)*	Max flow	
9.6 mm (0.4")	300*	700 (185)	300*	700 (185)	300*	700 (185)	250	590 (156)	200	470 (124)	
12.7 mm (0.5")	300*	1300 (343)	300*	1300 (343)	250	1100 (291)	200	870 (230)	175	760 (201)	
15.9 mm (0.6")	300*	1800 (476)	200	1200 (317)	175	1100 (291)					
19.0 mm (0.7")	300*	2500 (660)	200	1700 (449)	160	1390 (367)					
25.4 mm (1.0")	300*	3300 (872)	200	2200 (581)							

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



Technical specifications

	730 Drive with 720R/RX pumphead				
Pumphead number of rollers	4				
Pumphead number of channels	1				
Max. flow rate	3300 L/h				
Min. flow rate	0.12 L/h				
Max. flow rate	872 USGPH				
Min. flow rate	0.03 USGPH				
Drive speed control ratio	3600:1				
Drive speed	0.1 - 360 rpm				
Operating temperature range	5 °C to 40 °C				
Operating temperature range	40 °F to 104 °F				
Weight	31.5 kg				
Weight	69.4 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	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 40 °C (104 °F)				
Drive noise	85dB(A) at 1m				
Max. altitude	2000 m				
Drive power supply	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				

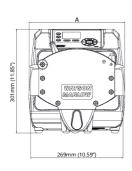
Materials of construction

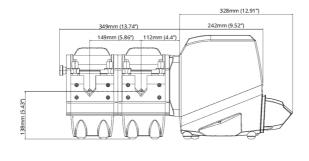
	730 Drive with 720R/RX pumphead					
Driveshaft	Stainless steel 440C					
Drive casework	Pressure die-cast aluminium LM24, Pressure die-cast aluminium LM6					
Drive casework coating	Alocrom pre-treatment, Exterior grade polyester powder coat					
Guide roller assembly	MoS2 filled Nylon 6 (Nylatron)					
Drive keypad/HMI	Polyester					
Pumphead front/back plates	Aluminium					
Drive rear blanking plate	Stainless steel 316					
Pumphead body assembly	Aluminium					
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron)					
Pumphead rotor assembly	Aluminium, Stainless steel					
Pumphead track	Aluminium					
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.

730 Drive with 720R/RX pumphead dimensions





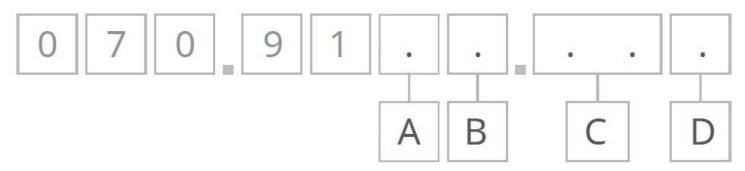
	Dimension A
720RX	279 mm (11")

Control options

Key to pump di	rive models														
730SN 730UN 730DuN 73		730Bp	730BpN 730US			ous			730DuS		730Er	ıΝ	730	PnN	
Standard IP66 /	Universal IP66 /	Digital Universal IP66 /	Bus Pump / Pro	ofibus IP66	Unive	rsal S0	CADA / IP	266 / E	Digital Uni	versal SCAD	A / Ethe	rNet/IP /	' IP66 /	PROFINET	® / IP66
NEMA 4X	NEMA 4X	NEMA 4X	/ NEMA 4X		NEMA	4X		I	P66 / NEM	1A 4X	NEN	IA 4X		/NEMA 4X	
Manual control	l														
Pump drives	730UN	730UN 730DuN			730BpN 730		730US	730	DuS	730E	nN 7	730PnN			
ntuitive keypad ar	nd colour display		√		/ /		√	V			٠,	/			
Choice of flowrate	or speed display		√				√		√		٠,	√			√
ull calibration witl	h choice of flow units	5	√				√	√			٠,	/	√		✓
MemoDose functio	on		√				√				٠,	√			
Auto restart facility	1		✓	✓			✓		√	√	,	✓			✓
Guard switch detec	ction		✓	✓			✓			✓	,	/ /			✓
eak detection				✓			✓	✓		✓	√		✓		✓
Dipensing (Networ	k Control)														
Remote contro	I														
Pump drives							1:	730SN	1 730UI	730DuN	730BpN	730US	730Du	S 730EnN	730P
•	stop, leak detector a	and pressure switch inpu	t (via contact clo	sure or 5 V	TTL to	24 V)			1	1				1	
		and pressure switch inpu				,			+ -			_	_		+ -
		gle input (via contact clo											<u> </u>		+
		gle input (via 110 V indus		,					+ -	1		_			
	_	hand-switch or logic inpu							1			1	1		+
		s through 24 V, 30 W rela							1	· /		•	<u> </u>		+
		s through 110 V relays	,-						+ -	<u> </u>		_			+
Remote pressure/f									+			•	<u> </u>		
Analogue speed													_		
Pump drives	u control				7200	CNI	730UN	7:	200N	730BpN	730US	7200)c -	730EnN	730Pn
	innuta 0 10 V az 4 3	2 mm A								/30Bpiv	_			JOEIIIN	/30FI
	inputs; 0-10 V or 4-20	JIIIA				-	✓ ✓	-	<i>y</i>		✓ ✓	✓ ✓		+	
Analogue outputs;		annest of disabases are	-ms\			-		-	√		'			+	
		ement of diaphragm pun	ips)			-	√	-	√				-	+	
Tacho frequency o	-20 mA or 0-1000Hz*					\dashv		_				+	_	_	
·	-20 IIIA 01 0-1000H2"														
Security		72051	7201111	7200			7200		720		72006	<u> </u>	720F N		20 D N.
Pump drives		730SN	730UN	730D	-		730Bp	·			730DuS	30DuS 730EnN ✓		/:	30PnN
3-level security PIN		/	√				✓		`	/					<u> </u>
Network comm	nunication														
Pump drives		730SN	730UN		730DuN 730		730Bpl	pN 730US		US			30EnN	73	30PnN
RS485 network cor											√				
Digital pump co	ommands (Profik	ous / EtherNet/IP)													
Pump drives				730	SN	730	UN	730D	uN 7	/30BpN	730US	730Du	IS 7:	30EnN	730Pn
PROFIBUS® DP V0										✓					
PROFINET® (CC-B	& Netload Class III)														✓
EtherNet/IP™														✓	
Communication sp	eeds from 9.6 kbits/	s up to 12000 kbits/s								✓					
Network speed: 10/100 Mbps - Full Duplex Operation														✓	
Network speed: 10	0 Mbps - Full Duplex	Operation													✓
Auto-detect bus sp	eed									✓					
Speed set point									√					√	√
Speed feedback										✓				√	✓
Flow calibration function										√				V	✓
Hours run										√				V	✓
Revolution counter										√				V	✓
evolution counter							İ		i	√				V	√
				1					i	√				V	√
eak detection	m														
Revolution counter eak detection ow fluid level alar Diagnostic feedbac										✓				✓	✓
eak detection ow fluid level alar										✓				✓ ✓	✓
eak detection ow fluid level alar Diagnostic feedbac										V					

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

Product codes



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 4X12	E0: 720RE	E: EU mains plug				
5: Du		X0: 720R/RX	A: American mains plug				
6: Bp		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:

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 user's 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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27 November 2023