



Water & Sewage
Pumping and
Treatment Engineers

The Pump People

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City Ranger Submersible Sewage Pumps

*****Technical Data Sheet

General Characteristics

Ideal pumps for domestic sewage or small guest house/hotel being able to handle normal domestic waste and toilet outlets. These are popular in our own Sewage Packaged Pumping Stations that offer an inexpensive solution to many pumping problems. Light weight and inexpensive price lends these pumps for many uses including water features, storm water pumping and other waste products having up to 2" soft solids. The incorporated float switch is adjustable giving various pumping depths.

Motor - 240/220v, 1ph, 50Hz with a floatswitch connected to the motor, capacitor inside motor cover, sleeve of 304 stainless steel, motor drive shaft 416 stainless steel. Automatic thermal cut out relay, induction motor to class F, IP68. Supplied with 5 metres of H07 RN-F neoprene cable.

Pumps - Single vane impeller of 304 stainless steel fitted on the MC12/50 & MC10/50. Vortex S/Steel impeller on all the others inside a cast iron body and standing on 304 stainless steel

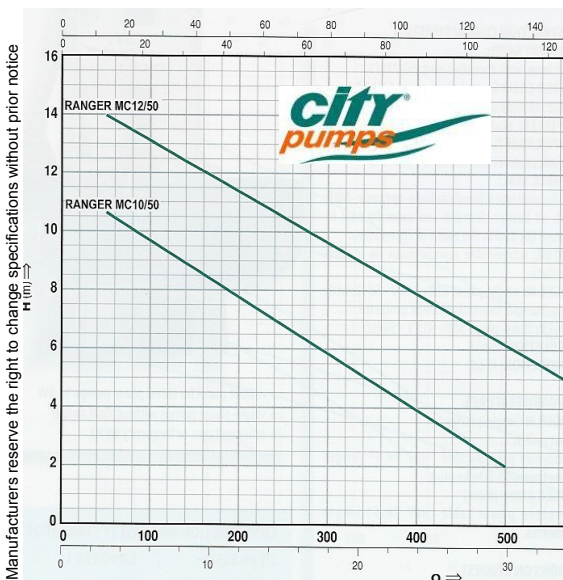
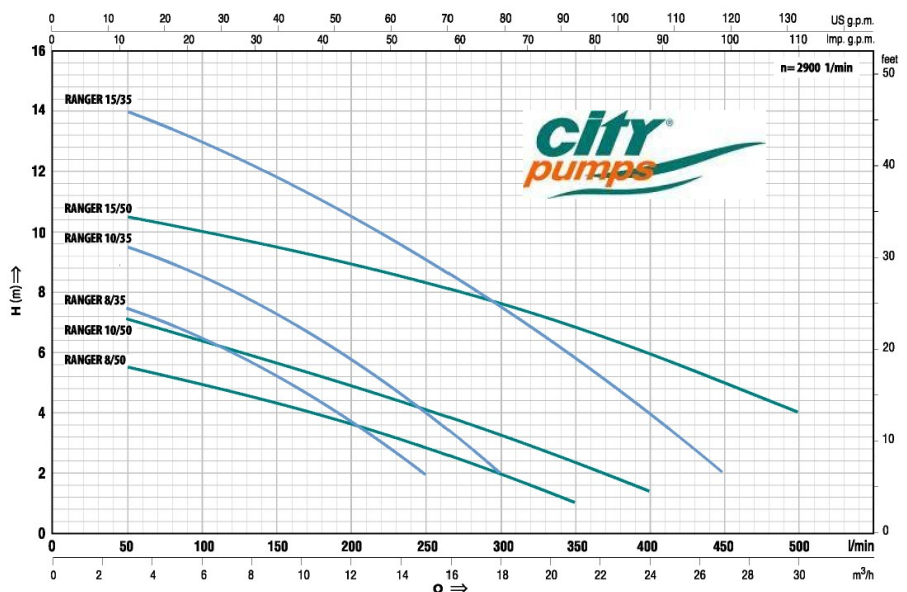
Further Technical Specifications

Motors
MC12/50, 15/50 & 15/35 1.1kW, 1.5HP,
MC10/50, 10/35 & 10/50 0.75 kW, 1 HP, 5.2 Amps,
2900 RPM, Capacitor 20uF 450v.
08/35 & 08/50 0.6 kW, 0.85 HP, 3.5 Amps, 2900 RPM,
Capacitor 16uF 450v.

Maximum fluid temperature -50 deg C. non-abrasive.
Max. operating immersion depth - 5 metres.
Min. operating immersion depth - 300mm.
Maximum passage of suspended soft solids of 50mm dia.
(not suitable for high fibre objects e.g. sanitary towels or disposable nappies).



legs. Double mechanical seal of silicon carbide/silicon carbide on the pump side and a sealing ring on the motor side in an oil bath.



Outlets

MC10/50, MC12/50, 08/50, 10/50 & 15/50 2" female BSP ; 15/35, 10/35 & 08/35 1.5" female BSP, all are directed upwards.

Visit our website for details of our full range of pumps and accessories. www.amospumps.co.uk

Manufacturers reserve the right to change specifications without prior notice

Leaflet City Ranger June 06

FLOW CHART

Q = Flow rate H = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

TYPE		POWER		m ³ /h l/min	0	3	6	9	12	15	18	21	24	27	30	36
Single-phase	Three-phase	kW	HP													
RANGER 8/35M	—	0.60	0.85	H metres	8.4	7.5	6.5	5.2	3.7	2						
RANGER 10/35M	RANGER 10/35	0.75	1		10	9.5	8.5	7.2	5.8	4	2					
RANGER 15/35M	RANGER 15/35	1.1	1.5		15	14	13	11.8	10.5	9	7.5	6	4	2		
RANGER 8/50M	—	0.60	0.85		6	5.5	5	4.4	3.6	2.8	2	1				
RANGER 10/50M	RANGER 10/50	0.75	1		7.5	7	6.5	5.8	5	4	3.2	2.4	1.5			
RANGER 15/50M	RANGER 15/50	1.1	1.5		11	10.5	10	9.5	9	8.3	7.5	6.8	6	5	4	
RANGER MC 10/50M	RANGER MC 10/50	0.75	1		12	10.7	9.7	8.7	7.8	6.8	5.9	5	4	3	2	
RANGER MC 12/50M	RANGER MC 12/50	1.5	1.5		15	14	13	12.3	11.5	10.5	9.7	8.8	8	7	6.2	4.5

DIMENSIONS AND WEIGHTS

TYPE		PORT DN	passage of solid bodies	kg	
Single-phase	Three-phase			1~	3~
RANGER 8/35M	—	1 1/2"	Ø 35 mm	12.4	-
RANGER 10/35M	RANGER 10/35			13.5	12.1
RANGER 15/35M	RANGER 15/35			15.7	14.6
RANGER 8/50M	—	2"	Ø 50 mm	13.4	-
RANGER 10/50M	RANGER 10/50			13.9	12.1
RANGER 15/50M	RANGER 15/50			16.1	15.0

CONSTRUCTION CHARACTERISTICS

DELIVERY BODY: cast iron, with threaded port ISO 228/1.

MOTOR CASING: stainless steel AISI 304.

BASE: stainless steel AISI 304.

IMPELLER: stainless steel AISI 304.

MOTOR SHAFT: stainless steel EN 10088-3 - 1 .4104.

DOUBLE SEAL:

mechanical seal silicon carbide-ceramic -NBR, with oil barrier chamber and inner lip seal to protect the seal in the event of dry running.

MOTOR:

submersible asynchronous for continuous duty.

RANGER M: single-phase 220÷240 V - 50 Hz with capacitor and thermal overload protector.

RANGER: three-phase 380÷415 V - 50 Hz.

INSULATION: class F.

PROTECTION: IP 68.

STANDARD FEATURES:

RANGER M (single-phase)

Float switch.

Neoprene power cable "H07 RN-F" length **5 metres**

RANGER (three-phase)

Neoprene power cable "H07 RN-F" length **5 metres**.

OPTIONS ON REQUEST

10 metres of power cable.