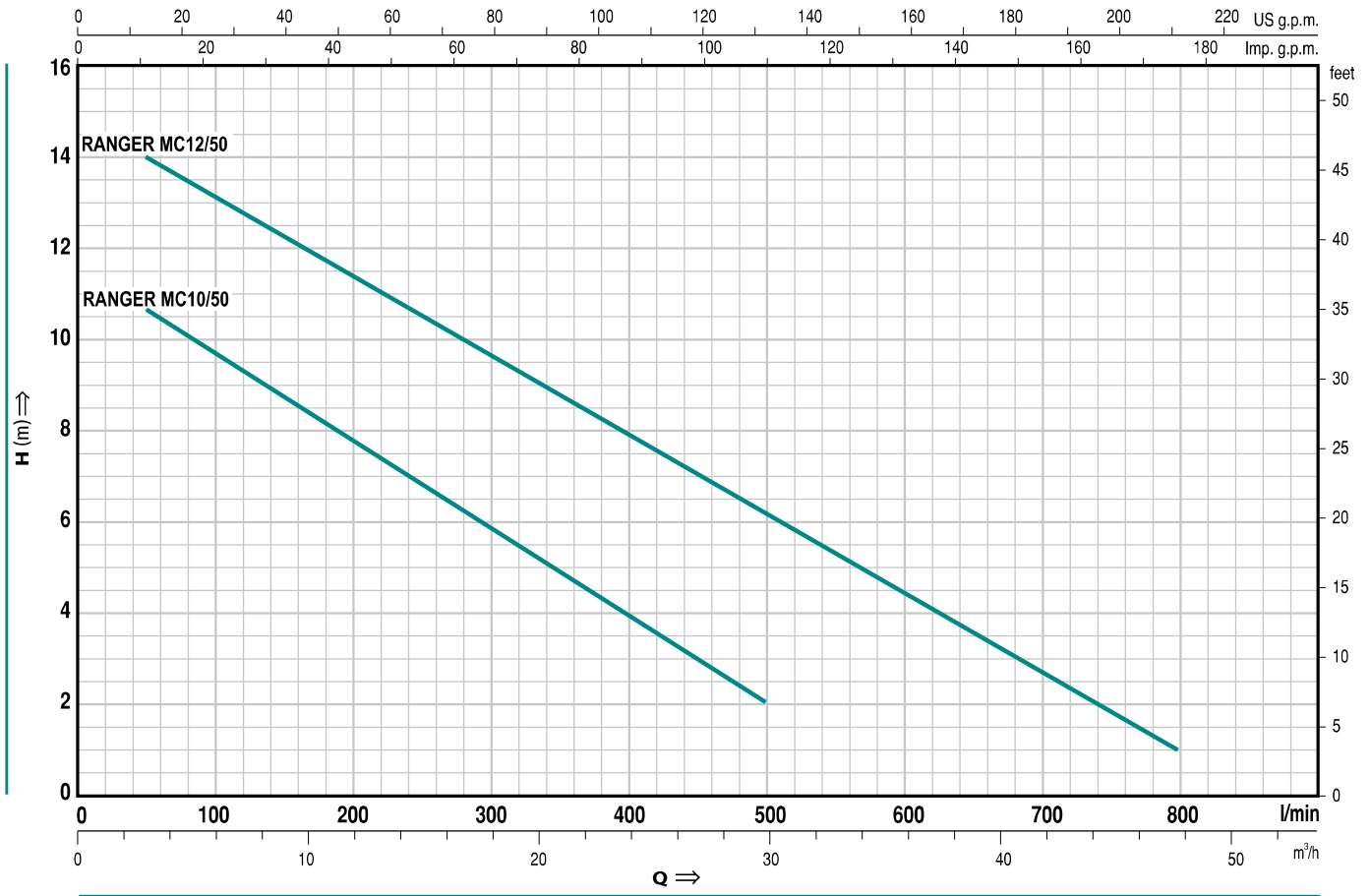




RANGER MC

DOUBLE-CHANNEL submersible pumps



Q = Flow rate H = Total manometric head

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

| TYPE | | POWER | | m³/h l/min | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 36 | 42 | 48 |
|------------------|-----------------|-------|-----|---------------|----|------|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Single-phase | Three-phase | kW | HP | | 0 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 |
| RANGER MC 10/50M | RANGER MC 10/50 | 0.75 | 1 | H metres | 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 | 1.1 | 1.5 | | 15 | 14 | 13 | 12.3 | 11.5 | 10.5 | 9.7 | 8.8 | 8 | 7 | 6.2 | 4.5 | 2.7 | 1 |

DIMENSIONS AND WEIGHTS

| TYPE | | PORT DN | passage of solid bodies | DIMENSIONS mm | | | | | | | | | kg | |
|------------------|-----------------|------------|-------------------------------|---------------|----|-----|-----|-----|----|------------|-----|-----|------|------|
| Single-phase | Three-phase | | | a | b | c | h | h1 | d | e | p | ∅ | 1~ | 3~ |
| RANGER MC 10/50M | RANGER MC 10/50 | 2" | ∅ 50 mm | 110 | 90 | 150 | 410 | 153 | 55 | adjustable | 500 | 500 | 14.3 | 13.3 |
| RANGER MC 12/50M | RANGER MC 12/50 | | | 120 | 97 | 163 | 430 | 158 | 65 | | | | 16.5 | 14.3 |





RANGE OF PERFORMANCE

Flow rate up to 800 l/min (48 m³/h)

Head up to 15 m

LIMITS OF USE

Depth up to 5 m

Liquid temperature up to + 40°C

Passage of suspended solid bodies up to
Ø 50 mm

For continuous duty: minimum immer-
sion 290 mm from pump base

INSTALLATION AND USE

RANGER MC SUBMERSIBLE PUMPS ARE RECOMMENDED FOR DRAINING DIRTY WATER AND SEWAGE IN THE DOMESTIC AND CIVIL SECTORS. THEY ARE EQUIPPED WITH A "DOUBLE-CHANNEL" STAINLESS STEEL IMPELLER WHICH ALLOWS THE PUMPING OF LIQUIDS CONTAINING SUSPENDED SOLID BODIES WITH DIMENSIONS UP TO Ø 50mm AND SHORT FIBRES. THEY ARE IDEAL FOR PUMPING DRAINAGE WATER, SEWAGE OR WASTE WATER FOR A SINGLE DWELLING, AND FOR CLEARING SUFACE OR NUISANCE WATER, EVEN IF MUDDY. THESE PUMPS ARE OUTSTANDING IN THEIR RELIABILITY IN FIXED INSTALLATIONS WITH AUTOMATIC OPERATION.

GUARANTEE 2 YEARS subject to our general terms of sale.

CONSTRUCTION CHARACTERISTICS

- **DELIVERY BODY:** cast iron, with threaded port ISO 228/1.
- **MOTOR CASING:** stainless steel AISI 304.
- **BASE:** stainless steel AISI 304.
- **IMPELLER:** double-channel in 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 MC M: single-phase 220÷240 V - 50 Hz with capacitor and thermal overload protector.
RANGER MC: three-phase 380÷415 V - 50 Hz.
- **INSULATION:** class F.
- **PROTECTION:** IP 68.

STANDARD FEATURES:

RANGER MC M (single-phase)

- Float switch.
- Neoprene power cable "H07 RN-F" length 5 metres with Schuko plug.

RANGER MC (three-phase)

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

OPTIONS ON REQUEST

⇒ 10 metres power cable. N.B. required for outdoor



- use to comply with standard EN 60335-2-41
- ⇒ control box for three-phase pumps 1.1 kW
- ⇒ single-phase pumps without float switch
- ⇒ other voltages or frequency 60 Hz

CONSTRUCTION AND SAFETY STANDARDS

EN 60 335-1

EN 60034-1

IEC 335-1

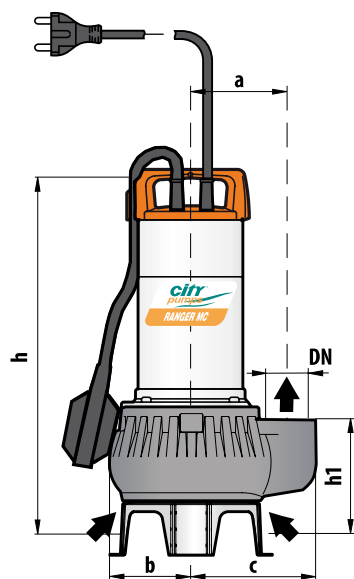
IEC 34-1

CEI 61-150

CEI 2-3



DIMENSIONS



Typical single-phase installation

