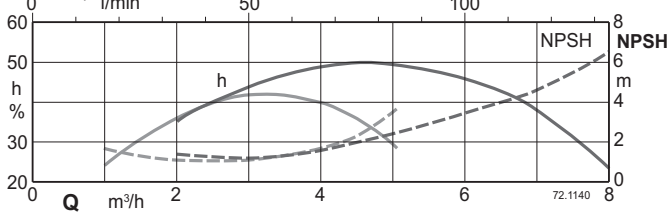
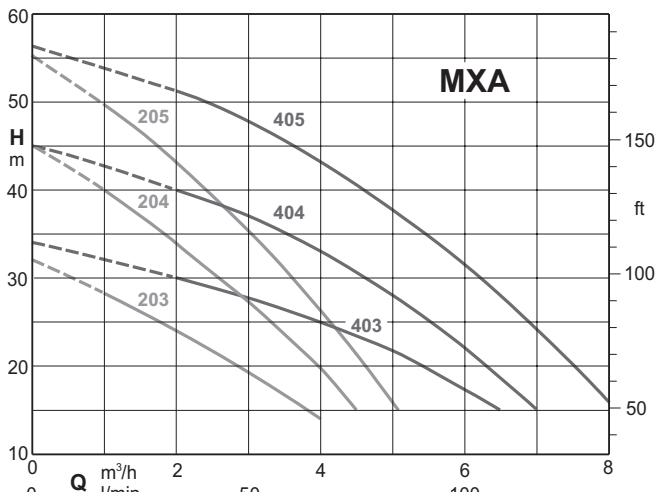
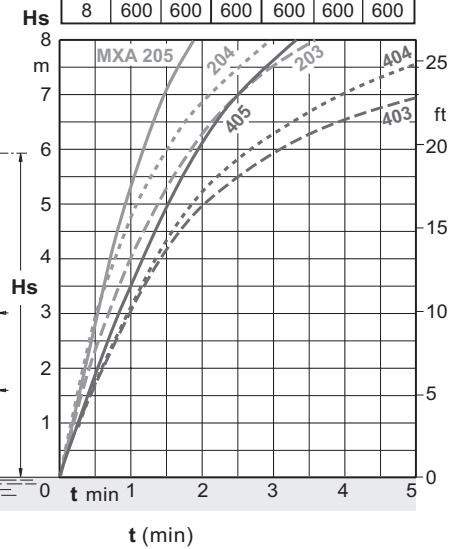
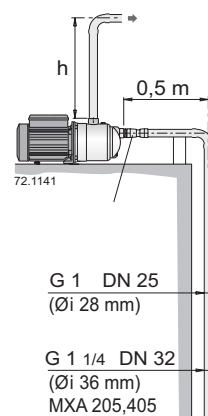


Coverage chart $n \approx 2800$ rpm



H₂O, T = 20°C,
 Pa = 1000 hPa (mbar)
 50 Hz (n ≈ 2800 1/min)

| H _s (m) ≤ | h (mm) | | | | | |
|----------------------|--------|-----|-----|-----|-----|-----|
| | 203 | 204 | 205 | 403 | 404 | 405 |
| 2 | 100 | 100 | 500 | 100 | 100 | 500 |
| 4 | 200 | 200 | 500 | 450 | 450 | 500 |
| 6 | 450 | 450 | 500 | 600 | 600 | 600 |
| 8 | 600 | 600 | 600 | 600 | 600 | 600 |



Horizontal multi-stage self-priming close coupled pumps

Construction

Horizontal multi-stage, self-priming, close coupled pump.
 Single-piece barrel casing in chrome-nickel stainless steel, with front suction port above pumps axis and radial delivery at top.
 Stages in Noryl.

Applications

For water supply systems.
 For domestic use, for garden use and irrigation.

Operating conditions

Liquid temperature: 0 °C to +35 °C.
 Ambient temperature up to 40° C.
 Suction lift up to 8 m.
 Maximum permissible pressure in the pump casing: 8 bar.
 Continuous service (S3 60% for 1.5 kW single-phase pumps).

Motor

2-pole induction motor, 50 Hz ($n \approx 2800$ 1/min).
MXA: three-phase 230/400 V \pm 10%.
MXAM: single-phase 230 V \pm 10%, with thermal protector.
 Capacitor inside the terminal box.
 Insulation class F.
 Protection IP54
IE2 efficiency class for single-phase motors up to 1,1 kW.
IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).
 Constructed in accordance with EN 60034-1; EN 60034-30-1.
 EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.
 Frequency 60 Hz (as per 60 Hz data sheet).
 IP protection: IP55

Designation

MXAM 204/A
 MXA = Series
 M = Singlephase version (no indication: threephase)
 2 = Rated capacity in m³/h
 04 = Number of impellers
 /A = It refers to a revision

Materials

| Component | Material |
|-----------------|--|
| Pump casing | Chrome-nickel steel 1.4301 EN 10088 (AISI 304) |
| Casing cover | Chrome-nickel steel 1.4301 EN 10088 (AISI 304) |
| Shaft | Steel 1.4104 EN 10088 (AISI 430F) |
| Plug | Chrome-nickel steel 1.4305 EN 10088 (AISI 303) |
| Suction casing | Noryl PPO-GF20 |
| Stage casing | Noryl PPO-GF20 |
| Impeller | Noryl PPO-GF20 |
| Mechanical seal | Carbon - Ceramic - NBR |

Coverage chart n ≈ 2900 rpm

Single-phase

| | | | | | Q = Flow | | | | | | | |
|------------|------|------|------|------|----------|--------------------|----|------|------|------|------|------|
| | | | | | m³/h | 0 | 1 | 2 | 3 | 4 | 4,5 | 5 |
| Model | 230V | P2 | | P1 | l/min | | | 16,6 | 33,3 | 50 | 66,6 | 75 |
| | | A | kW | HP | kW | H (m) = Total head | | | | | | |
| MXAM 203 | 3 | 0,37 | 0,5 | 0,57 | | 32 | 28 | 24 | 19 | 14 | - | - |
| MXAM 204/A | 4,5 | 0,55 | 0,75 | 0,78 | | 45 | 40 | 34 | 27 | 20 | 15 | - |
| MXAM 205/A | 5,7 | 0,75 | 1 | 1,01 | | 55,5 | 50 | 43 | 35,5 | 26,5 | 21,5 | 15,5 |

Three-phase

| | | | | | Q = Flow | | | | | | | |
|-----------|------|------|------|------|--------------------|------|----|------|------|------|------|------|
| | | | | | m³/h | 0 | 1 | 2 | 3 | 4 | 4,5 | 5 |
| Model | 230V | 400V | P2 | | l/min | | | 16,6 | 33,3 | 50 | 66,6 | 75 |
| | | A | kW | HP | H (m) = Total head | | | | | | | |
| MXA 203 | 2,4 | 1,4 | 0,37 | 0,5 | | 32 | 28 | 24 | 19 | 14 | - | - |
| MXA 204/A | 2,8 | 1,6 | 0,55 | 0,75 | | 45 | 40 | 34 | 27 | 20 | 15 | - |
| MXA 205/B | 3,7 | 2,2 | 0,75 | 1 | | 55,5 | 50 | 43 | 35,5 | 26,6 | 21,4 | 15,5 |

Single-phase

| | | | | | Q = Flow | | | | | | | | | |
|------------|------|------|------|------|----------|--------------------|----|------|------|------|------|------|-----|-----|
| | | | | | m³/h | 0 | 2 | 3 | 4 | 5 | 6 | 6,5 | 7 | 8 |
| Model | 230V | P2 | | P1 | l/min | | | 33,3 | 50 | 66,6 | 83,3 | 100 | 108 | 117 |
| | | A | kW | HP | kW | H (m) = Total head | | | | | | | | |
| MXAM 403/A | 4,5 | 0,55 | 0,75 | 0,78 | | 34 | 30 | 28 | 25 | 22 | 17 | 15 | - | - |
| MXAM 404/A | 5,7 | 0,75 | 1 | 1,01 | | 45 | 40 | 37 | 33 | 28 | 22 | 19 | 15 | - |
| MXAM 405/A | 7 | 1,1 | 1,5 | 1,44 | | 56 | 51 | 47,5 | 42,5 | 36,5 | 30 | 26,5 | 23 | 14 |

Three-phase

| | | | | | Q = Flow | | | | | | | | | |
|-----------|------|------|------|------|--------------------|----|----|------|------|------|------|------|-----|-----|
| | | | | | m³/h | 0 | 2 | 3 | 4 | 5 | 6 | 6,5 | 7 | 8 |
| Model | 230V | 400V | P2 | | l/min | | | 33,3 | 50 | 66,6 | 83,3 | 100 | 108 | 117 |
| | | A | kW | HP | H (m) = Total head | | | | | | | | | |
| MXA 403/A | 2,8 | 1,6 | 0,55 | 0,75 | | 34 | 30 | 28 | 25 | 22 | 17 | 15 | - | - |
| MXA 404/B | 3,5 | 2 | 0,75 | 1 | | 45 | 40 | 37 | 33 | 28 | 22 | 19 | 15 | - |
| MXA 405/A | 4,5 | 2,6 | 1,1 | 1,5 | | 56 | 51 | 47,5 | 42,5 | 36,5 | 30 | 26,5 | 23 | 14 |

P1: Maximum power input.

P2: Rated motor power output.

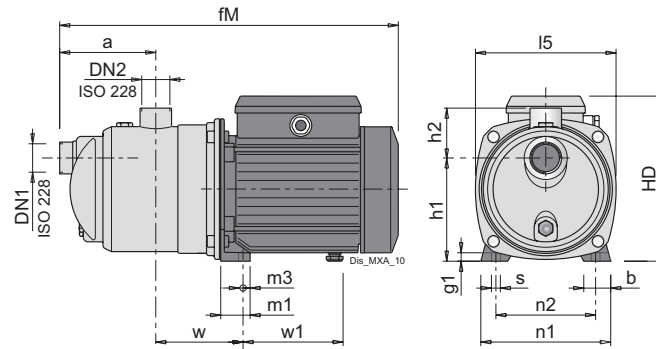
Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

For flow rates greater than 4 m³/h use a G1 1/4 suction pipe (DN 32).

Tolerances according to UNI EN ISO 9906:2012

Dimensions and weights



| TYPE | ISO 228 | | mm | | | | | | | | | | | | | | | kg |
|-----------|---------|-----|-----|----|-----|----|-----|----|-----|-------|------|-----|-----|-----|-----|-----|-----|--------|
| | DN1 | DN2 | a | b | fM | g1 | h1 | h2 | HD | l5 | m1 | m3 | n1 | n2 | s | w | w1 | Weight |
| MXA 203 | G 1 | G 1 | 115 | 30 | 362 | 10 | 116 | 61 | 176 | 161 | 33 | 8 | 146 | 112 | 9 | 102 | 102 | 6.8 |
| MXA 204/A | G 1 | G 1 | 115 | 30 | 691 | 10 | 116 | 61 | 192 | 161 | 33 | 8 | 146 | 112 | 9 | 112 | 112 | 8.9 |
| MXA 205/B | G 1 1/4 | G 1 | 140 | 33 | 462 | 11 | 152 | 68 | 225 | 213.5 | 37.5 | 9.5 | 185 | 155 | 9.5 | 147 | 147 | 12.8 |
| MXA 403/A | G 1 | G 1 | 115 | 30 | 391 | 10 | 116 | 61 | 192 | 161 | 33 | 8 | 146 | 112 | 9 | 112 | 112 | 8.8 |
| MXA 404/B | G 1 | G 1 | 115 | 30 | 391 | 10 | 116 | 61 | 192 | 161 | 33 | 8 | 146 | 112 | 9 | 112 | 112 | 10.8 |
| MXA 405/A | G 1 | G 1 | 140 | 33 | 462 | 11 | 152 | 68 | 225 | 213.5 | 37.5 | 9.5 | 185 | 155 | 9.5 | 147 | 147 | 14.5 |

| TYPE | ISO 228 | | mm | | | | | | | | | | | | | | | kg |
|------------|---------|-----|-----|----|-----|----|-----|----|-----|-------|------|-----|-----|-----|-----|-----|-----|--------|
| | DN1 | DN2 | a | b | fM | g1 | h1 | h2 | HD | l5 | m1 | m3 | n1 | n2 | s | w | w1 | Weight |
| MXAM 203 | G 1 | G 1 | 115 | 30 | 362 | 10 | 116 | 61 | 176 | 161 | 33 | 8 | 146 | 112 | 9 | 102 | 102 | 6.8 |
| MXAM 204/A | G 1 | G 1 | 115 | 30 | 691 | 10 | 116 | 61 | 192 | 161 | 33 | 8 | 146 | 112 | 9 | 112 | 112 | 10 |
| MXAM 205/A | G 1 1/4 | G 1 | 140 | 33 | 462 | 11 | 152 | 68 | 225 | 213.5 | 37.5 | 9.5 | 185 | 155 | 9.5 | 147 | 147 | 12.8 |
| MXAM 403/A | G 1 | G 1 | 115 | 30 | 391 | 10 | 116 | 61 | 192 | 161 | 33 | 8 | 146 | 112 | 9 | 112 | 112 | 9.9 |
| MXAM 404/A | G 1 | G 1 | 115 | 30 | 391 | 10 | 116 | 61 | 192 | 161 | 33 | 8 | 146 | 112 | 9 | 112 | 112 | 10.9 |
| MXAM 405/A | G 1 | G 1 | 140 | 33 | 462 | 11 | 152 | 68 | 225 | 213.5 | 37.5 | 9.5 | 185 | 155 | 9.5 | 147 | 147 | 14.6 |