Franklin Electric

# MHp SERIES 50 HZ

## HORIZONTAL MULTISTAGE SELF-PRIMING PUMPS



FPS

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# MHp – Horizontal multistage self-priming pumps

Watch the YouTube videos:



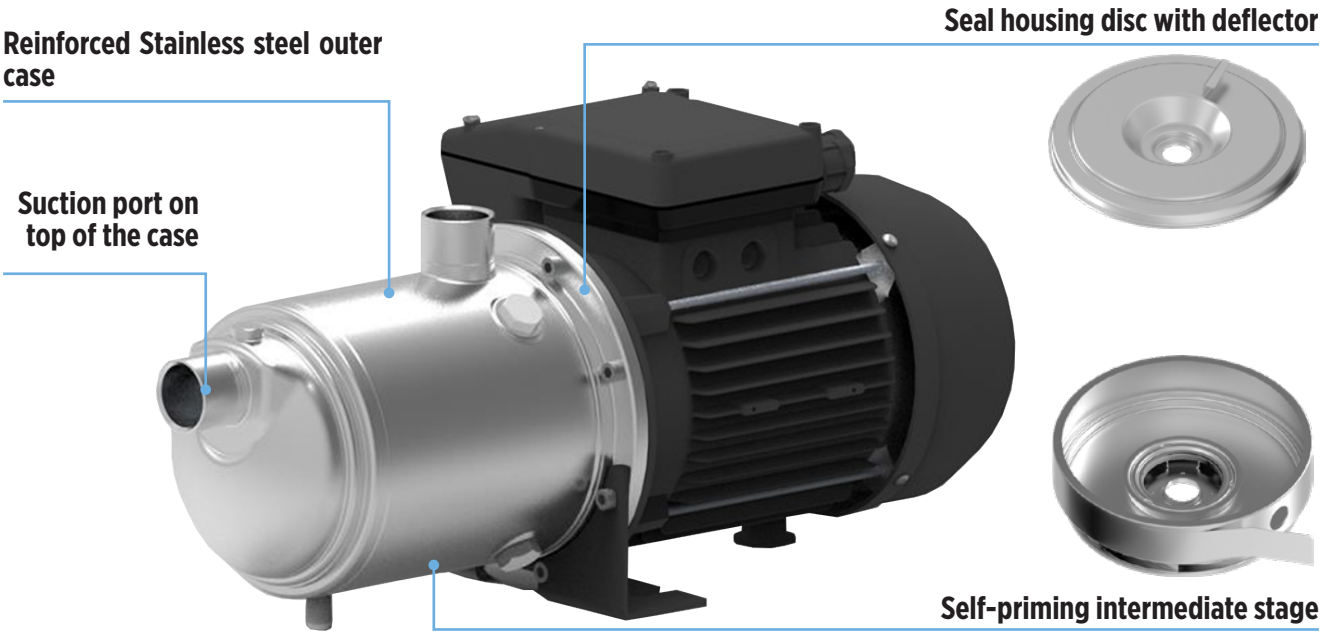

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Select your pump now:

Pump selector

# MHp – Horizontal multistage self-priming pumps




**New model designed to ensure high performance in every application.**

## Features and benefits

### MECHANICAL SEAL SIC/SIC/EPDM
Outstanding strength and durability, engineered even for the most demanding conditions

### PRIMING CAPACITY IN ANY SITUATION
Smart design due to the self-priming intermediate stage which moves air bubbles outside

### SUITABLE FOR INDUSTRIAL APPLICATION
HVAC, fertigation, cooling systems, pressure boosting

### HIGH PROTECTION OF MECHANICAL SEAL
Seal housing disc with deflector which protects mechanical seal from air bubbles

### REDUCED RISK OF DOWNTIME
Thanks to the new priming system

## Technical data

- Models:
  - MHp 3/04, 3/05, 3/06, 3/07
  - MHp 5/04, 5/05, 5/06, 5/07
- Flow: up to 7.8 $m^3/h$
- Total Head: up to 82 m
- Motor power: 0.55 - 1.5 kW
- Maximum suction height : 8 m
- Maximum working pressure: 10 bar
- Maximum liquid temperature:
  - Single-phase 55 °C
  - Three-phase 85 °C

Pressure boosting in residential buildings

Heating and conditioning

Fertigation

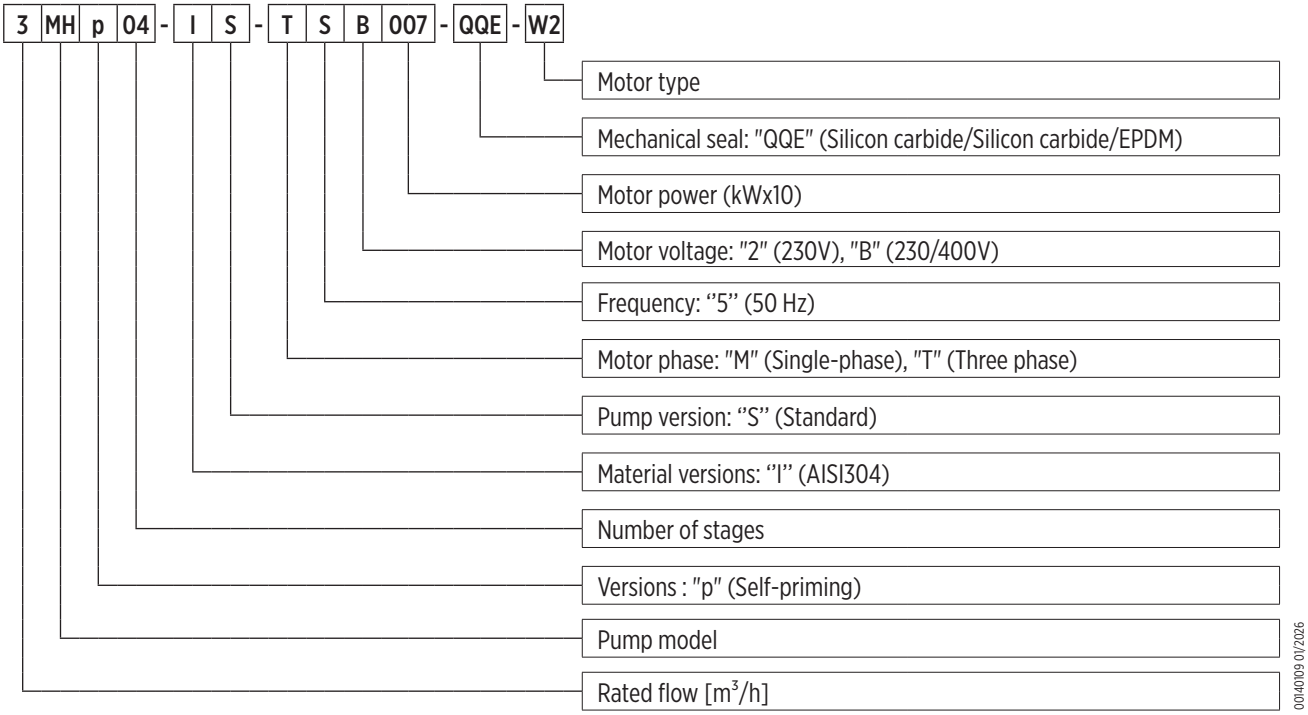
General industry

# MHp – Horizontal multistage self-priming pumps

## GENERAL FEATURES

| Model | | 3 | 5 |
|---|---|---|---|
| Rated flow [m³/h] | | 3 | 5 |
| Maximum liquid temperature [°C] | Single-phase | 55 °C | |
| | Three-phase | 85 °C | |
| Max. ɲ hydraulic | | 45,5 | 56,8 |
| Flow range [m³/h] | | 1,5 - 4 | 2 - 7 |
| Maximum working pressure [bar] | | 10 | |
| Material versions | | I (AISI 304) | |
| Hydraulic connections (dimensions) | Rp (inlet - outlet) - Standard | 1"x 1" | |

## PRODUCT IDENTIFICATION CODE




00140109 01/2026

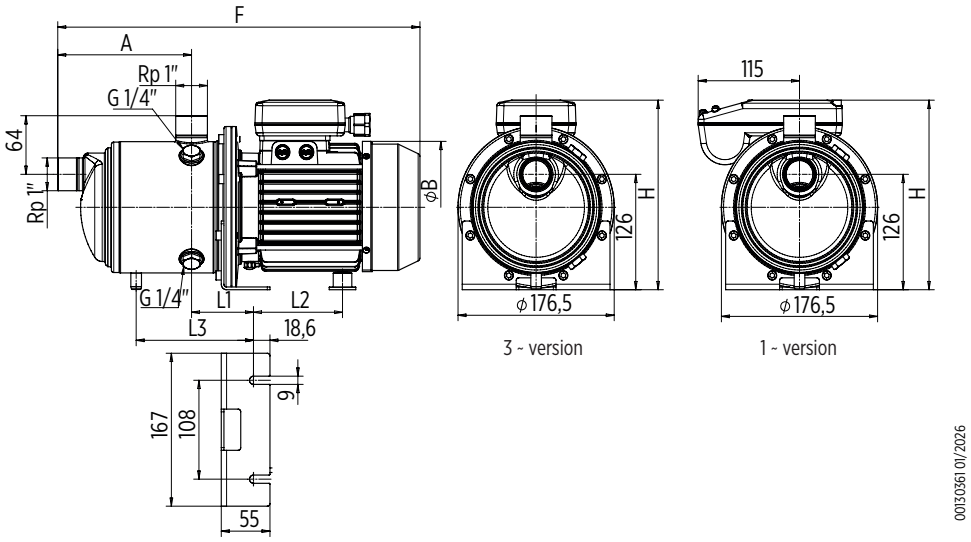
# Technical data

## 1 ~ ELECTRIC PUMP TECHNICAL DATA

| Pump model | Motor size | Motor nominal power | | Input power | Capacitor 450 V | Input current [A] | Dimensions [mm] | | | | | | | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | [kW] | [HP] | [kW] | [µF] | 220-240 V | A | F | ØB | H | L1 | L2 | L3 | |
| **3MHp04-I-M52005-QQE** | 71 | 0,55 | 0,75 | 0,76 | 16 | 3,7 | 127 | 388 | 137 | 195 | 70 | 121 | - | 12,6 |
| **3MHp05-I-M52007-QQE** | 71 | 0,75 | 1 | 0,91 | 20 | 4,3 | 151 | 412 | 137 | 195 | 70 | 121 | - | 13,2 |
| **3MHp06-I-M52011-QQE** | 80 | 1,1 | 1,5 | 1,13 | 30 | 5,4 | 175 | 436 | 154 | 205 | 70 | 128 | - | 17,2 |
| **3MHp07-I-M52011-QQE** | 80 | 1,1 | 1,5 | 1,28 | 30 | 6 | 199 | 460 | 154 | 205 | 70 | 128 | 180 | 17,8 |
| | | | | | | | | | | | | | | |
| **5MHp04-I-M52011-QQE** | 80 | 1,1 | 1,5 | 1,1 | 30 | 5,3 | 127 | 388 | 154 | 205 | 70 | 128 | - | 16,2 |
| **5MHp05-I-M52011-QQE** | 80 | 1,1 | 1,5 | 1,32 | 30 | 6,2 | 151 | 412 | 154 | 205 | 70 | 128 | - | 16,8 |
| **5MHp06-I-M52015-QQE** | 80 | 1,5 | 2 | 1,53 | 40 | 7,3 | 175 | 478 | 154 | 205 | 70 | 128 | - | 19,8 |
| **5MHp07-I-M52015-QQE** | 80 | 1,5 | 2 | 1,74 | 40 | 8,2 | 199 | 502 | 154 | 205 | 70 | 128 | 180 | 20,2 |

## 3 ~ ELECTRIC PUMP TECHNICAL DATA

| Pump model | Motor size | Motor nominal power | | Input power | Input current [A] | | Dimensions [mm] | | | | | | | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | [kW] | [HP] | [kW] | 220-240 V | 380-415 V | A | F | ØB | H | L1 | L2 | L3 | |
| **3MHp04-I-T5B007-QQE** | 71 | 0,75 | 1 | 0,72 | 2,4 | 1,4 | 127 | 408 | 137 | 195 | 70 | 120.6 | - | 12,2 |
| **3MHp05-I-T5B007-QQE** | 71 | 0,75 | 1 | 0,87 | 2,7 | 1,6 | 151 | 432 | 137 | 195 | 70 | 120.6 | - | 12,6 |
| **3MHp06-I-T5B011-QQE** | 80 | 1,1 | 1,5 | 1,1 | 3,6 | 2,1 | 175 | 477 | 154 | 205 | 70 | 128 | - | 16,8 |
| **3MHp07-I-T5B011-QQE** | 80 | 1,1 | 1,5 | 1,3 | 4 | 2,3 | 199 | 501 | 154 | 205 | 70 | 128 | 180 | 17,4 |
| | | | | | | | | | | | | | | |
| **5MHp04-I-T5B011-QQE** | 80 | 1,1 | 1,5 | 1,1 | 3,6 | 2,1 | 127 | 429 | 154 | 205 | 70 | 128 | - | 15,8 |
| **5MHp05-I-T5B011-QQE** | 80 | 1,1 | 1,5 | 1,3 | 4 | 2,3 | 151 | 453 | 154 | 205 | 70 | 128 | - | 16,2 |
| **5MHp06-I-T5B015-QQE** | 80 | 1,5 | 2 | 1,5 | 5 | 2,9 | 175 | 478 | 162 | 205 | 70 | 128 | - | 18 |
| **5MHp07-I-T5B015-QQE** | 80 | 1,5 | 2 | 1,72 | 5,5 | 3,2 | 199 | 502 | 162 | 205 | 70 | 128 | 180 | 18,4 |




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# MHp 3 - Hydraulic performance at 50 Hz

## SINGLE-PHASE

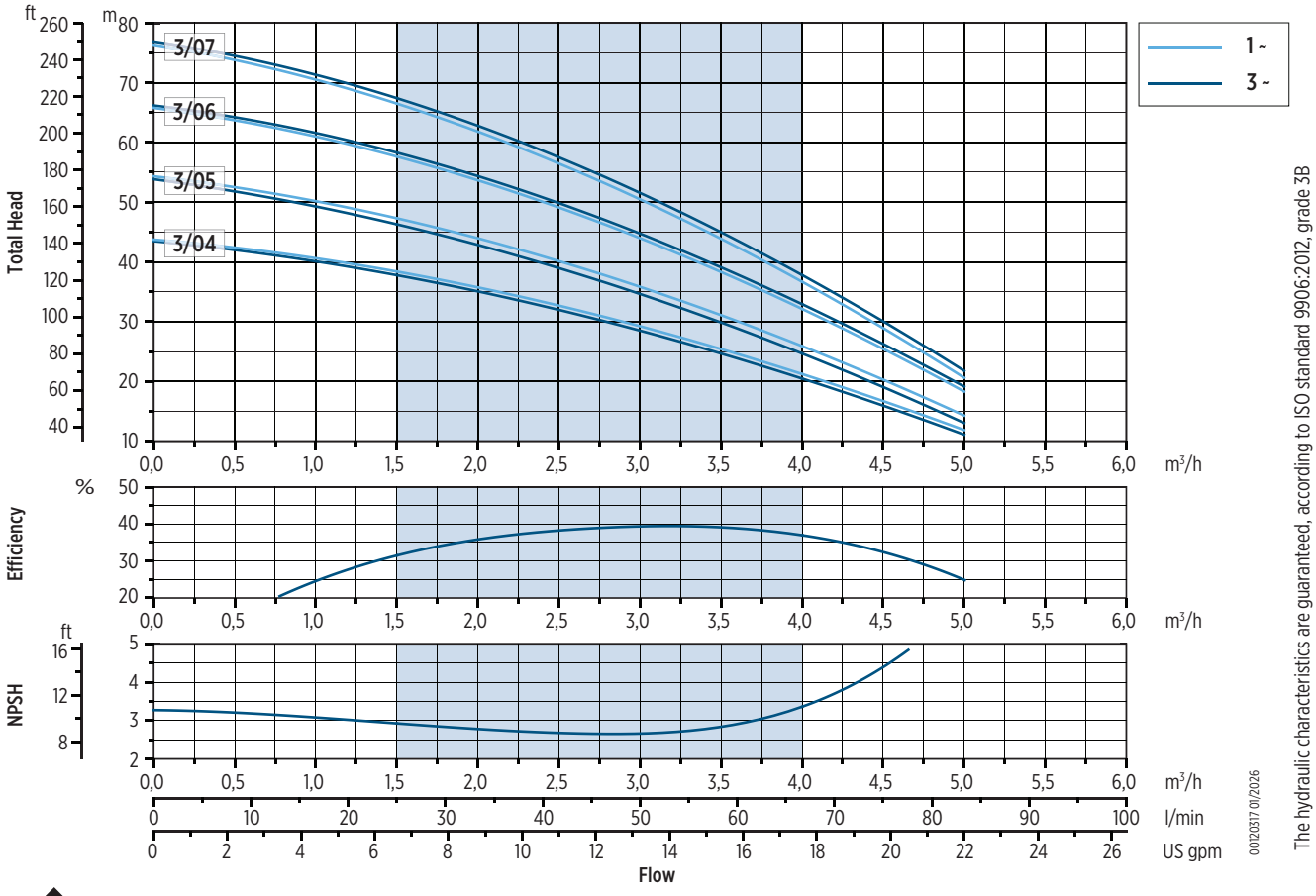
| Pump model | Rated power | | Q = Delivery | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | l/min 0 | 16,6 | 25 | 28,3 | 41,7 | 50 | 66,7 | 83,3 |
| | | | $m^3/h$ 0 | 1 | 1,5 | 1,7 | 2,5 | 3 | 4 | 5 |
| | | | US gpm 0 | 4,4 | 6,6 | 7,5 | 11 | 13,2 | 17,6 | 22 |
| | [kW] | [HP] | H = Total meters head of water column [m] | | | | | | | |
| 3MHp04-I-M52005-QQE | 0,55 | 0,75 | 43,5 | | 38,4 | 37,4 | 32,5 | 29 | 21,4 | |
| 3MHp05-I-M52007-QQE | 0,75 | 1 | 54,1 | | 47,3 | 46,1 | 39,9 | 35,6 | 26,1 | |
| 3MHp06-I-M52011-QQE | 1,1 | 1,5 | 65,5 | | 57,7 | 56,1 | 48,9 | 43,7 | 32,4 | |
| 3MHp07-I-M52011-QQE | 1,1 | 1,5 | 76 | | 66,5 | 64,7 | 56,2 | 50,1 | 37 | |

Application range

## THREE-PHASE

| Pump model | Rated power | | Q = Delivery | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | l/min 0 | 16,6 | 25 | 28,3 | 41,7 | 50 | 66,7 | 83,3 |
| | | | $m^3/h$ 0 | 1 | 1,5 | 1,7 | 2,5 | 3 | 4 | 5 |
| | | | US gpm 0 | 4,4 | 6,6 | 7,5 | 11 | 13,2 | 17,6 | 22 |
| | [kW] | [HP] | H = Total meters head of water column [m] | | | | | | | |
| 3MHp04-I-T5B007-QQE | 0,75 | 1 | 43,3 | | 37,8 | 36,8 | 31,8 | 28,3 | 20,7 | |
| 3MHp05-I-T5B007-QQE | 0,75 | 1 | 53,6 | | 46,3 | 45 | 38,7 | 34,4 | 24,9 | |
| 3MHp06-I-T5B011-QQE | 1,1 | 1,5 | 65,9 | | 58,3 | 56,8 | 49,6 | 44,5 | 33,2 | |
| 3MHp07-I-T5B011-QQE | 1,1 | 1,5 | 76,5 | | 67,4 | 65,7 | 57,2 | 51,2 | 38,1 | |

Application range



# MHp 5 – Hydraulic performance at 50 Hz

## SINGLE-PHASE

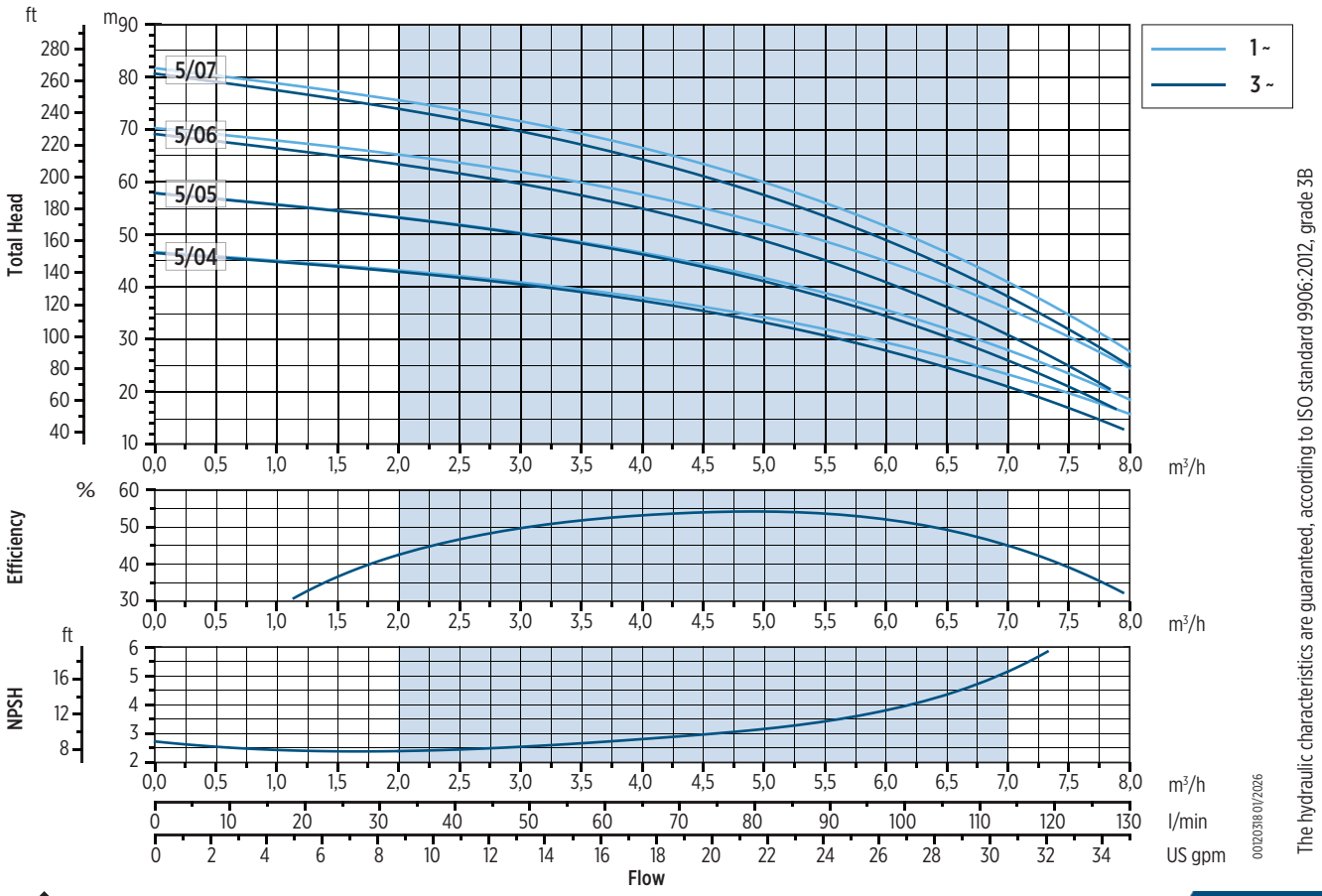
| Pump model | Rated power | | Q = Delivery | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | l/min 0 | 28,3 | 33,3 | 41,7 | 50 | 66,7 | 100 | 116,7 | 133,3 |
| | | | $m^3/h$ 0 | 1,7 | 2 | 2,5 | 3 | 4 | 6 | 7 | 8 |
| | | | US gpm 0 | 7,5 | 8,8 | 11 | 13,2 | 17,6 | 26,4 | 30,8 | 35,2 |
| | [kW] | [HP] | H = Total meters head of water column [m] | | | | | | | | |
| 5MHp04-I-M52011-QQE | 1,1 | 1,5 | 46,6 | | 43,1 | 41,9 | 40,7 | 38 | 29,6 | 23,2 | |
| 5MHp05-I-M52011-QQE | 1,1 | 1,5 | 57,9 | | 53,2 | 51,7 | 50,1 | 46,5 | 35,8 | 27,8 | |
| 5MHp06-I-M52015-QQE | 1,5 | 2 | 70,3 | | 65,2 | 63,4 | 61,7 | 57,6 | 45,2 | 35,7 | |
| 5MHp07-I-M52015-QQE | 1,5 | 2 | 81,7 | | 75,5 | 73,4 | 71,4 | 66,5 | 51,9 | 40,7 | |

Application range

## THREE-PHASE

| Pump model | Rated power | | Q = Delivery | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | l/min 0 | 28,3 | 33,3 | 41,7 | 50 | 66,7 | 100 | 116,7 | 133,3 |
| | | | $m^3/h$ 0 | 1,7 | 2 | 2,5 | 3 | 4 | 6 | 7 | 8 |
| | | | US gpm 0 | 7,5 | 8,8 | 11 | 13,2 | 17,6 | 26,4 | 30,8 | 35,2 |
| | [kW] | [HP] | H = Total meters head of water column [m] | | | | | | | | |
| 5MHp04-I-T5B011-QQE | 1,1 | 1,5 | 46,4 | | 42,9 | 41,6 | 40,4 | 37,3 | 27,9 | 20,9 | |
| 5MHp05-I-T5B011-QQE | 1,1 | 1,5 | 57,8 | | 53,2 | 51,6 | 50 | 46,2 | 34,6 | 25,8 | |
| 5MHp06-I-T5B015-QQE | 1,5 | 2 | 69,1 | | 63,4 | 61,4 | 59,5 | 54,9 | 41,1 | 30,7 | |
| 5MHp07-I-T5B015-QQE | 1,5 | 2 | 80,7 | | 73,9 | 71,6 | 69,5 | 64,3 | 49,2 | 37,9 | |

Application range





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