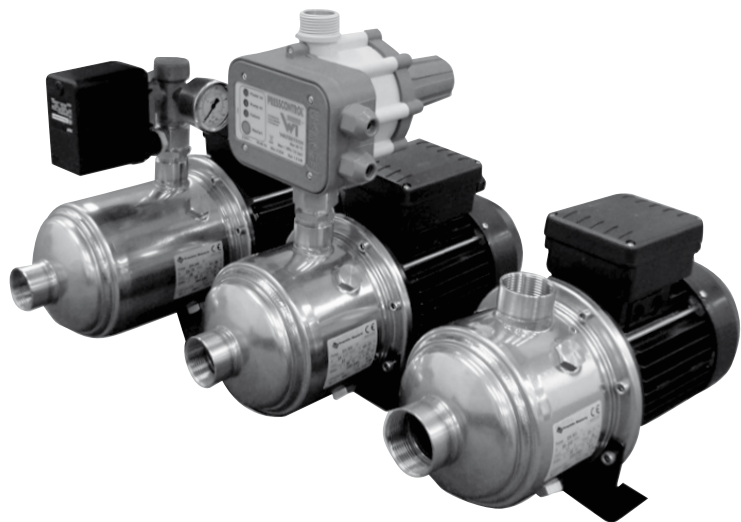


FPS
MH series



**Horizontal
Stainless Steel
Multistage Pumps**

3, 6, 9 m³/h



Franklin Electric

Horizontal Multistage Pumps

50 Hz Stainless Steel

3-9 m³/h



FPS

MH series

The new MH Series, multi-stage booster pump is designed to meet your pressure boosting needs. The stainless steel construction offers high performance in a wide variety of applications.

Applications:

- Small domestic and industrial systems / Domestic water supply
- Water distribution / Pressure boosting
- Irrigation / Gardening / Sprinklers / Rainwater collection
- Industrial plants / Wash down unit
- Other various installations

Features:

- Compact close-coupled design, robust and rust resistant / Superior efficiency and performances
- Heavy duty oversize motor shaft
- Body, impellers and diffuser made of 300 series SS for maximum durability
- Easy maintenance
- Robust ball bearing fitted into the motor bracket for greater longevity
- Single-phase models come with AU/NZ plug

Specifications:

- Capacities up to 14 m³/h at 50 Hz. Available in 3 flow rates: 3, 5 and 9 m³/h
- Heads up to 10 bar, at 50 Hz.
- Suction inlet 1.25" BSP MH 3/5 - 1.5" BSP MH 9
- Discharge outlet 1" BSP MH 3/5 - 1.25" BSP MH 9
- Maximum working pressure 10 bar
- Maximum ambient temperature 40 °C
- Liquid temperature range -15 °C to 110 °C
- Asynchronous, TEFC, Class F insulation, IP55 protection motor
- Capacitor inside terminal box
- Single-phase motors with built-in thermal relay

Model Number Explanation

Example: 3AMH2B-51

3 = m³/h

AMH = Series

2 = # of Stages

B = BSP Threads

51 = 50 Hz Single-phase
(53-Three-phase)

Options:

- PressControllers
- Pressure switch and tank
- Check valves
- Pump bases and covers

Horizontal Multistage Pumps

50 Hz Stainless Steel MH 3 Specifications

Technical data 50Hz

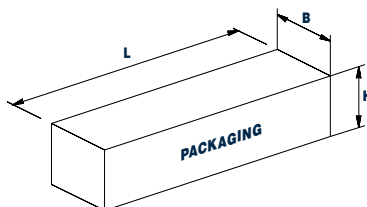
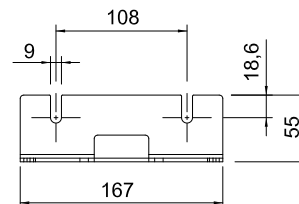
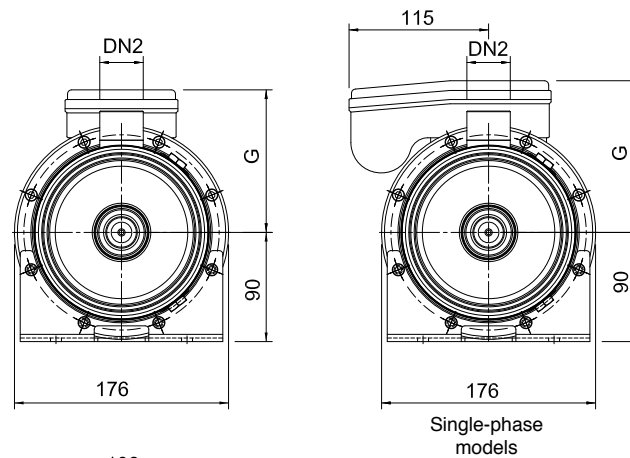
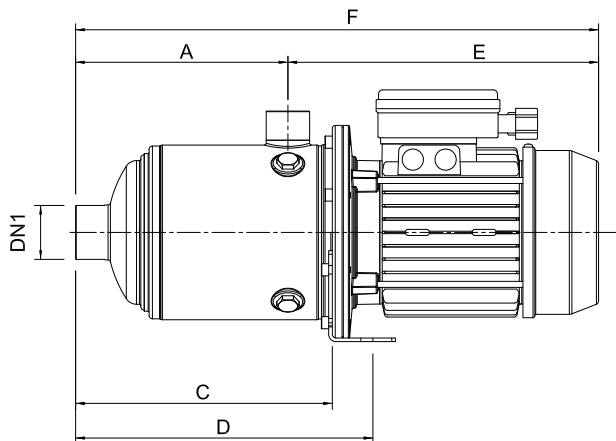
| Single-phase 220-240 V 50 Hz | | Three-phase 380-415 V 50 Hz | | Number of Stages | Motor Power | | Input Power | Internal Capacitor | | Rated Current | | |
|---------------------------------|-------------|--------------------------------|-------------|---------------------|----------------|------|----------------|-----------------------|-----|-----------------|-----------------------------------|-----------------|
| Model No. | Order No. | Model No. | Order No. | | kW | HP | | kW | µF | V | Single-phase 220-240 V 50Hz | Three-phase |
| | | | | | | | | | | 220-240 V 50 Hz | 380-415 V 50 Hz | 380-415 V 50 Hz |
| 3AMH2B-51 | 96141003102 | 3AMH2B-53 | 96141003302 | 2 | 0.33 | 0.45 | 0.44 | 16 | 450 | 2.5 | 2.4 | 1.4 |
| 3AMH3B-51 | 96141003103 | 3AMH3B-53 | 96141003303 | 3 | 0.45 | 0.6 | 0.59 | 16 | 450 | 3.0 | 2.6 | 1.5 |
| 3AMH4B-51 | 96141003104 | 3AMH4B-53 | 96141003304 | 4 | 0.55 | 0.75 | 0.75 | 16 | 450 | 3.7 | 2.9 | 1.7 |
| 3AMH5B-51 | 96141003105 | 3AMH5B-53 | 96141003305 | 5 | 0.75 | 1 | 0.90 | 16 | 450 | 4.3 | 3.1 | 1.8 |
| 3AMH6B-51 | 96141003106 | 3AMH6B-53 | 96141003306 | 6 | 0.9 | 1.2 | 1.14 | 30 | 450 | 5.4 | 4.3 | 2.5 |
| 3AMH7B-51 | 96141003107 | 3AMH7B-53 | 96141003307 | 7 | 1.1 | 1.5 | 1.29 | 30 | 450 | 6.0 | 4.7 | 2.7 |
| 3AMH8B-51 | 96141003108 | 3AMH8B-53 | 96141003308 | 8 | 1.3 | 1.8 | 1.46 | 30 | 450 | 6.9 | 5.5 | 3.2 |
| 3AMH9B-51 | 96141003109 | 3AMH9B-53 | 96141003309 | 9 | 1.5 | 2 | 1.61 | 30 | 450 | 7.5 | 5.9 | 3.4 |

Single-phase motors: 220-240 V ± 5 % / 50 Hz. Thermal protection built into the motor.

Three-phase motors: 380-415 V ± 5 % / 50 Hz. Thermal protection to be provided into the starter panel by the installer.

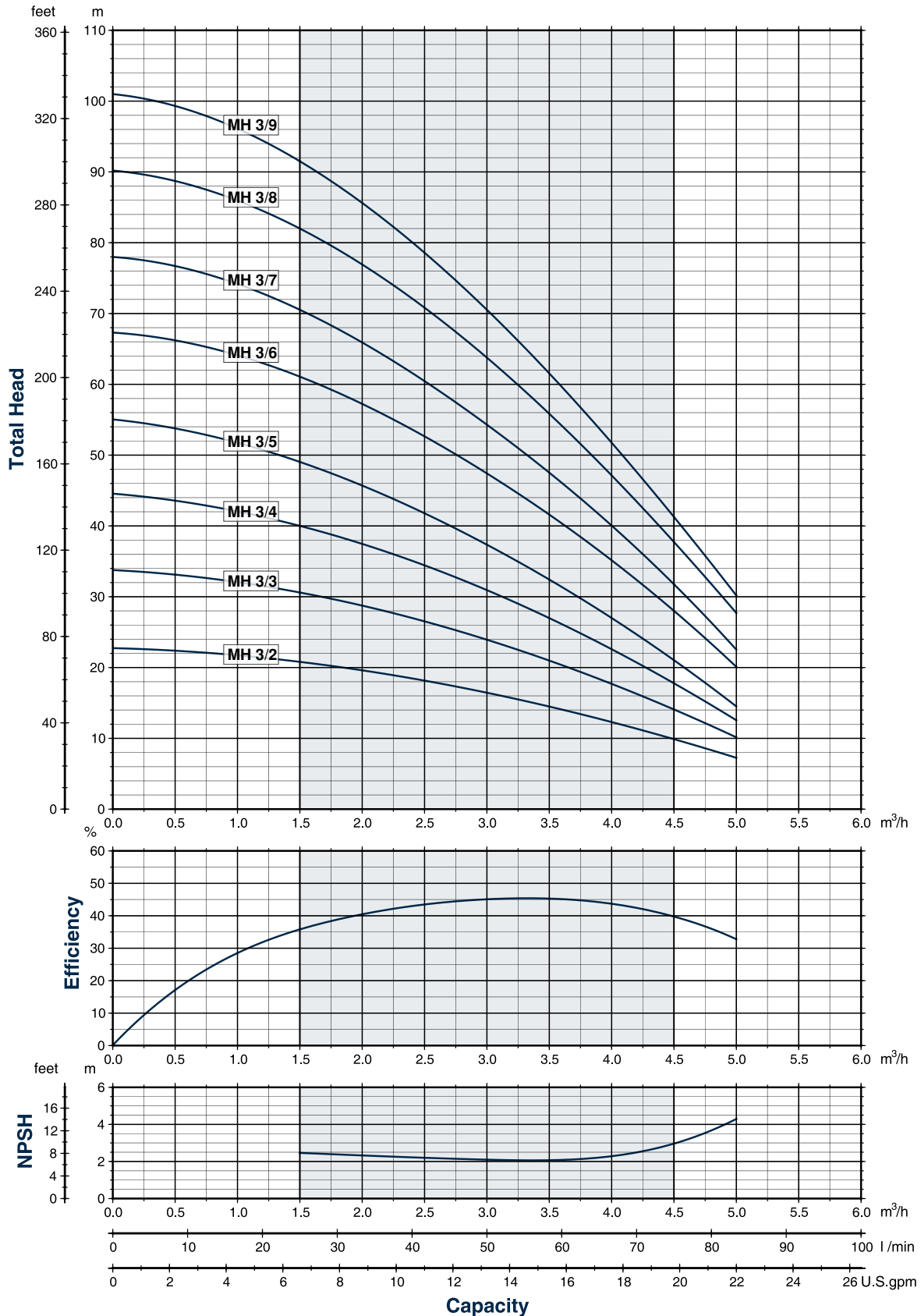
Dimensions and weights

| Single-phase 220-240 V 50 Hz | Three-phase 380-415 V 50 Hz | Dimensions | | | | | | | | Packaging | | | | |
|---------------------------------|--------------------------------|------------|---------|---------|---------|---------|---------|---------|--------------|-----------|---------|---------|---------|-------------|
| Model No. | Order No. | A mm | E mm | C mm | D mm | F mm | G (mm) | | DN1 | DN2 | L mm | B mm | H mm | Weight (kg) |
| | | | | | | | 1-phase | 3-phase | | | | | | |
| 3AMH2B-51 | 3AMH2B-53 | 103 | 256 | 139.6 | 173 | 359 | 120 | 118 | BSP 1.25" | BSP 1" | 500 | 200 | 260 | 10.5 |
| 3AMH3B-51 | 3AMH3B-53 | 103 | 256 | 139.6 | 173 | 359 | 120 | 118 | | | 500 | 200 | 260 | 10.6 |
| 3AMH4B-51 | 3AMH4B-53 | 127 | 256 | 163.6 | 197 | 383 | 120 | 118 | | | 500 | 200 | 260 | 11.1 |
| 3AMH5B-51 | 3AMH5B-53 | 151 | 256 | 187.6 | 221 | 407 | 120 | 118 | | | 500 | 200 | 260 | 11.6 |
| 3AMH6B-51 | 3AMH6B-53 | 175 | 256 | 211.6 | 245 | 431 | 120 | 118 | | | 500 | 200 | 260 | 14.0 |
| 3AMH7B-51 | 3AMH7B-53 | 199 | 256 | 235.6 | 269 | 455 | 120 | 118 | | | 610 | 220 | 260 | 14.6 |
| 3AMH8B-51 | 3AMH8B-53 | 223 | 300 | 259.6 | 293 | 523 | 125 | 125 | | | 610 | 220 | 260 | 18.1 |
| 3AMH9B-51 | 3AMH8B-53 | 247 | 300 | 283.6 | 317 | 547 | 125 | 125 | | | 610 | 220 | 260 | 18.7 |



Horizontal Multistage Pumps

50 Hz Stainless Steel MH 3 Specifications



Horizontal Multistage Pumps

50 Hz Stainless Steel MH 5 Specifications

Technical data 50Hz

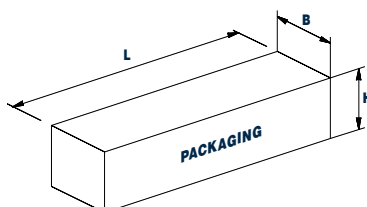
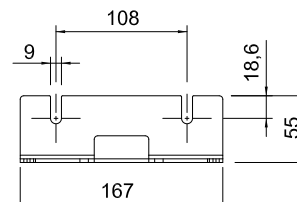
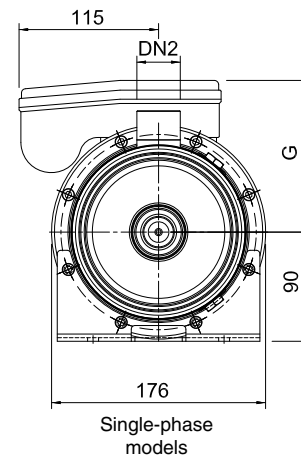
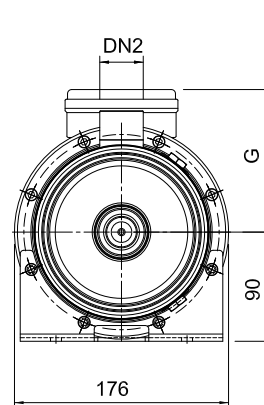
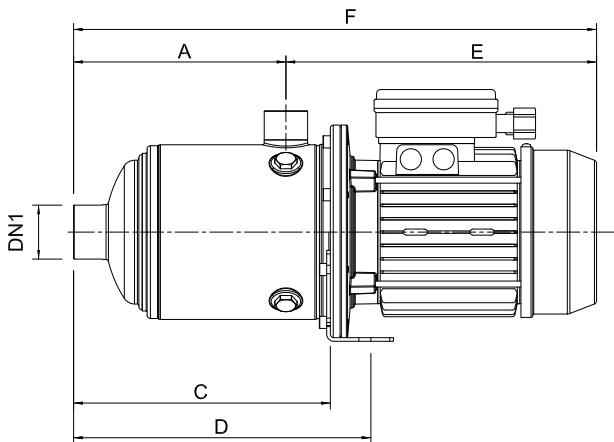
| Single-phase 220-240 V 50 Hz | | Three-phase 380-415 V 50 Hz | | Number of Stages | Motor Power | | Input Power | | Internal Capacitor | | Rated Current | | |
|---------------------------------|-------------|--------------------------------|-------------|---------------------|----------------|------|----------------|----|-----------------------|--------------------|-----------------|-----------------|--|
| Model No. | Order No. | Model No. | Order No. | | kW | HP | kW | μF | V | Single-phase | Three-phase | | |
| | | | | | | | | | | 220-240 V 50 Hz | 220-240 V 50 Hz | 380-415 V 50 Hz | |
| 5AMH2B-51 | 96141005102 | 5AMH2B-53 | 96141005302 | 2 | 0.45 | 0.6 | 0.58 | 16 | 450 | 3.0 | 2.6 | 1.5 | |
| 5AMH3B-51 | 96141005103 | 5AMH3B-53 | 96141005303 | 3 | 0.55 | 0.75 | 0.80 | 16 | 450 | 3.9 | 2.9 | 1.7 | |
| 5AMH4B-51 | 96141005104 | 5AMH4B-53 | 96141005304 | 4 | 0.9 | 1.2 | 1.10 | 30 | 450 | 5.3 | 4.3 | 2.5 | |
| 5AMH5B-51 | 96141005105 | 5AMH5B-53 | 96141005305 | 5 | 1.1 | 1.5 | 1.33 | 30 | 450 | 6.2 | 4.7 | 2.7 | |
| 5AMH6B-51 | 96141005106 | 5AMH6B-53 | 96141005306 | 6 | 1.3 | 1.8 | 1.56 | 30 | 450 | 7.3 | 5.7 | 3.3 | |
| 5AMH7B-51 | 96141005107 | 5AMH8B-53 | 96141005307 | 7 | 1.5 | 2 | 1.79 | 30 | 450 | 8.2 | 6.2 | 3.6 | |
| 5AMH8B-51 | 96141005108 | 5AMH8B-53 | 96141005308 | 8 | 1.5 | 2 | 2.00 | 30 | 450 | 8.9 | 6.6 | 3.8 | |
| - | - | 5AMH9B-53 | 96141005309 | 9 | 1.85 | 2.5 | 2.30 | - | - | - | 7.1 | 4.1 | |

Single-phase motors: 220-240 V ± 5 % / 50 Hz. Thermal protection built into the motor.

Three-phase motors: 380-415 V ± 5 % / 50 Hz. Thermal protection to be provided into the starter panel by the installer.

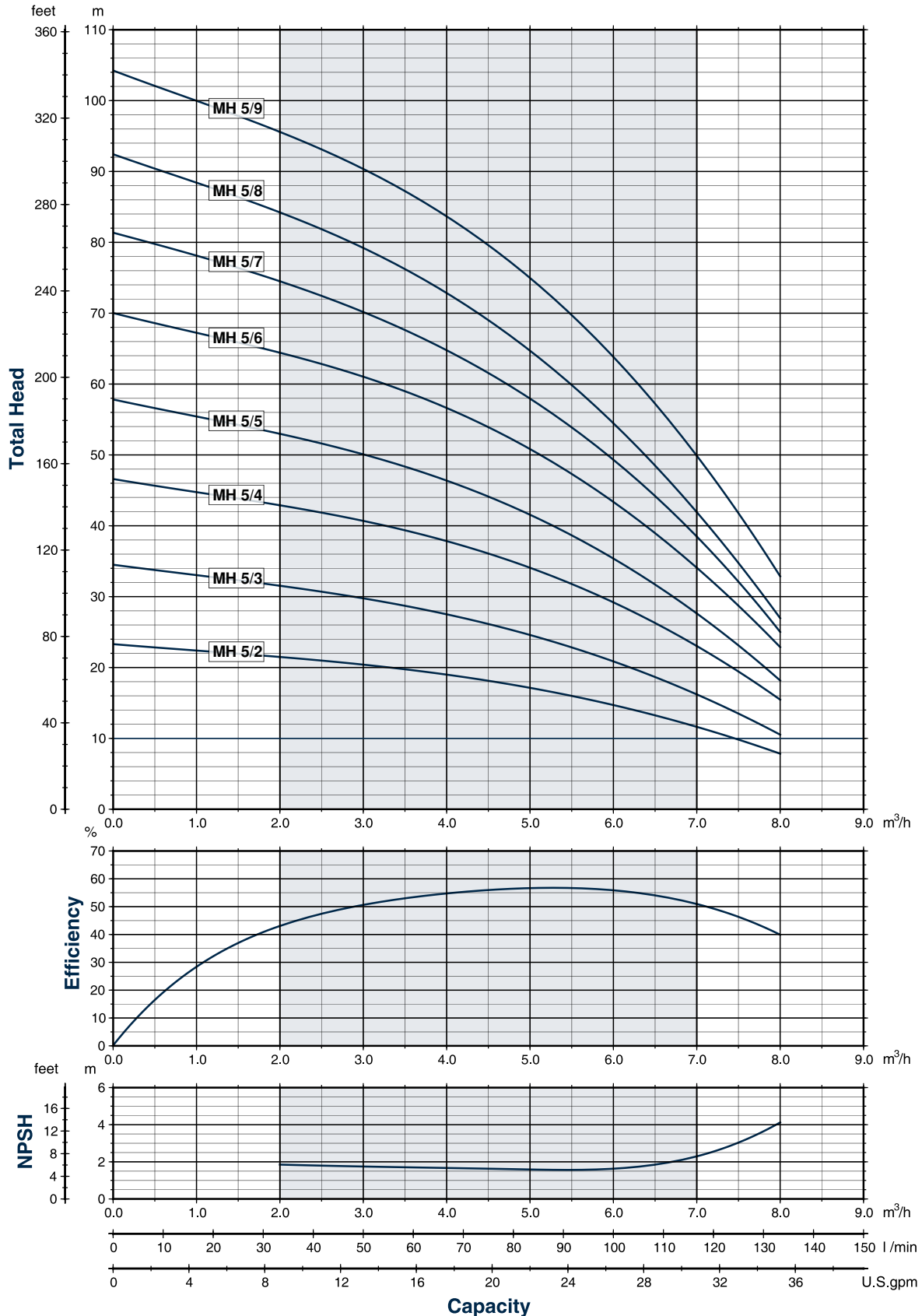
Dimensions and weights

| Single-phase 220-240 V 50 Hz | Three-phase 380-415 V 50 Hz | Dimensions | | | | | | | | Packaging | | | | |
|---------------------------------|--------------------------------|------------|---------|---------|---------|---------|---------|---------|--------------|-----------|---------|---------|---------|-------------|
| Model No. | Model No. | A mm | E mm | C mm | D mm | F mm | G (mm) | | DN1 | DN2 | L mm | B mm | H mm | Weight (kg) |
| | | | | | | | 1-phase | 3-phase | | | | | | |
| 5AMH2B-51 | 5AMH2B-53 | 103 | 256 | 139.6 | 173 | 359 | 120 | 118 | BSP 1.25" | BSP 1" | 500 | 200 | 260 | 10.5 |
| 5AMH3B-51 | 5AMH3B-53 | 103 | 256 | 139.6 | 173 | 359 | 120 | 118 | | | 500 | 200 | 260 | 10.6 |
| 5AMH4B-51 | 5AMH4B-53 | 127 | 256 | 163.6 | 197 | 383 | 120 | 118 | | | 500 | 200 | 260 | 13.0 |
| 5AMH5B-51 | 5AMH5B-53 | 151 | 256 | 187.6 | 221 | 407 | 120 | 118 | | | 500 | 200 | 260 | 13.5 |
| 5AMH6B-51 | 5AMH6B-53 | 175 | 300 | 211.6 | 245 | 475 | 125 | 125 | | | 610 | 220 | 260 | 17.1 |
| 5AMH7B-51 | 5AMH7B-53 | 199 | 300 | 235.6 | 269 | 499 | 125 | 125 | | | 610 | 220 | 260 | 17.7 |
| 5AMH8B-51 | 5AMH8B-53 | 223 | 300 | 259.6 | 293 | 523 | 125 | 125 | | | 610 | 220 | 260 | 18.2 |
| - | 5AMH9B-53 | 247 | 300 | 283.6 | 317 | 547 | 125 | 125 | | | 610 | 220 | 260 | 18.7 |



Horizontal Multistage Pumps

50 Hz Stainless Steel MH 5 Specifications



Horizontal Multistage Pumps

50 Hz Stainless Steel MH 9 Specifications

Technical data 50Hz

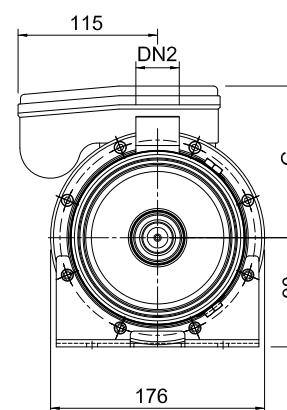
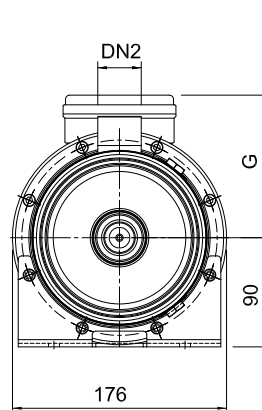
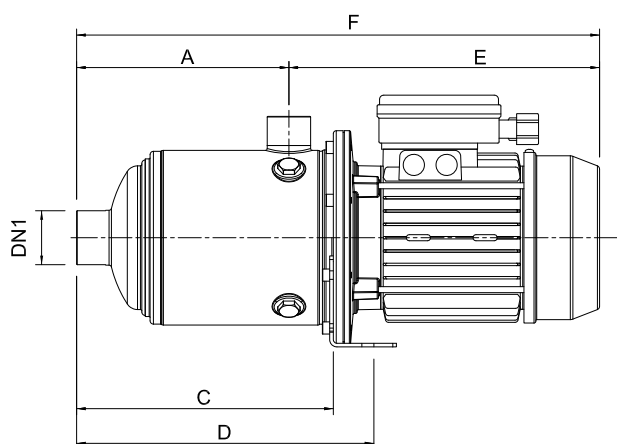
| Single-phase 220-240 V 50 Hz | | Three-phase 380-415V 50Hz | | Number of Stages | Motor Power | | Input Power | | Internal Capacitor | | Rated Current | | |
|---------------------------------|-------------|------------------------------|-------------|---------------------|----------------|-----|----------------|-----|-----------------------|------------------------------------|-----------------|-----|--|
| Model No. | Order No. | Model No. | Order No. | | kW | HP | kW | μF | V | Single-phase 220-240 V 50 Hz | | | |
| | | | | | | | | | | 220-240 V 50 Hz | Three-phase | | |
| | | | | | | | | | | 220-240 V 50 Hz | 380-415 V 50 Hz | | |
| 9AMH2B-51 | 96141009102 | 9AMH2B-53 | 96141009302 | 2 | 0.75 | 1 | 0.90 | 1.6 | 450 | 4.3 | 3.1 | 1.8 | |
| 9AMH3B-51 | 96141009103 | 9AMH3B-53 | 96141009303 | 3 | 1.1 | 1.5 | 1.37 | 30 | 450 | 6.4 | 4.7 | 2.7 | |
| 9AMH4B-51 | 96141009104 | 9AMH4B-53 | 96141009304 | 4 | 1.5 | 2 | 1.77 | 30 | 450 | 8.2 | 6.1 | 3.5 | |
| - | - | 9AMH5B-53 | 96141009305 | 5 | 1.85 | 2.5 | 2.21 | - | - | - | 6.9 | 4.0 | |
| - | - | 9AMH6B-53 | 96141009306 | 6 | 2.2 | 3 | 2.61 | - | - | - | 7.8 | 4.5 | |

Single-phase motors: 220-240 V ± 5 % / 50 Hz. Thermal protection built into the motor.

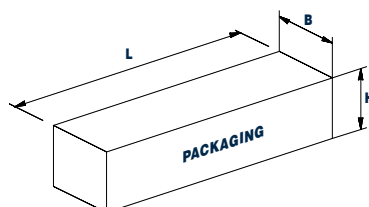
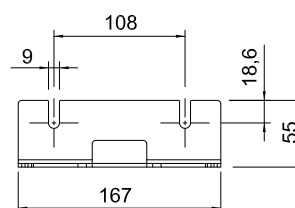
Three-phase motors: 380-415 V ± 5 % / 50 Hz. Thermal protection to be provided into the starter panel by the installer.

Dimensions and weights

| Single-phase 220-240 V 50 Hz | Three-phase 380-415 V 50 Hz | Dimensions | | | | | | | | Packaging | | | | |
|---------------------------------|--------------------------------|------------|---------|---------|---------|---------|---------|---------|-------------|--------------|---------|---------|---------|-------------|
| Model No. | Model No. | A mm | E mm | G mm | D mm | F mm | G (mm) | | DN1 | DN2 | L mm | B mm | H mm | Weight (kg) |
| | | | | | | | 1-phase | 3-phase | | | | | | |
| 9AMH2B-51 | 9AMH2B-53 | 118 | 260 | 158.6 | 192 | 378 | 120 | 118 | BSP 1.5" | BSP 1.25" | 500 | 200 | 260 | 10.8 |
| 9AMH3B-51 | 9AMH3B-53 | 118 | 260 | 158.6 | 192 | 378 | 120 | 118 | | | 500 | 200 | 260 | 12.8 |
| 9AMH4B-51 | 9AMH4B-53 | 148 | 304 | 188.6 | 222 | 452 | 125 | 125 | | | 610 | 220 | 260 | 16.5 |
| - | 9AMH5B-53 | 178 | 304 | 218.6 | 252 | 482 | 125 | 125 | | | 610 | 220 | 260 | 17.2 |
| - | 9AMH6B-53 | 208 | 304 | 248.6 | 282 | 512 | 125 | 125 | | | 610 | 220 | 260 | 17.8 |

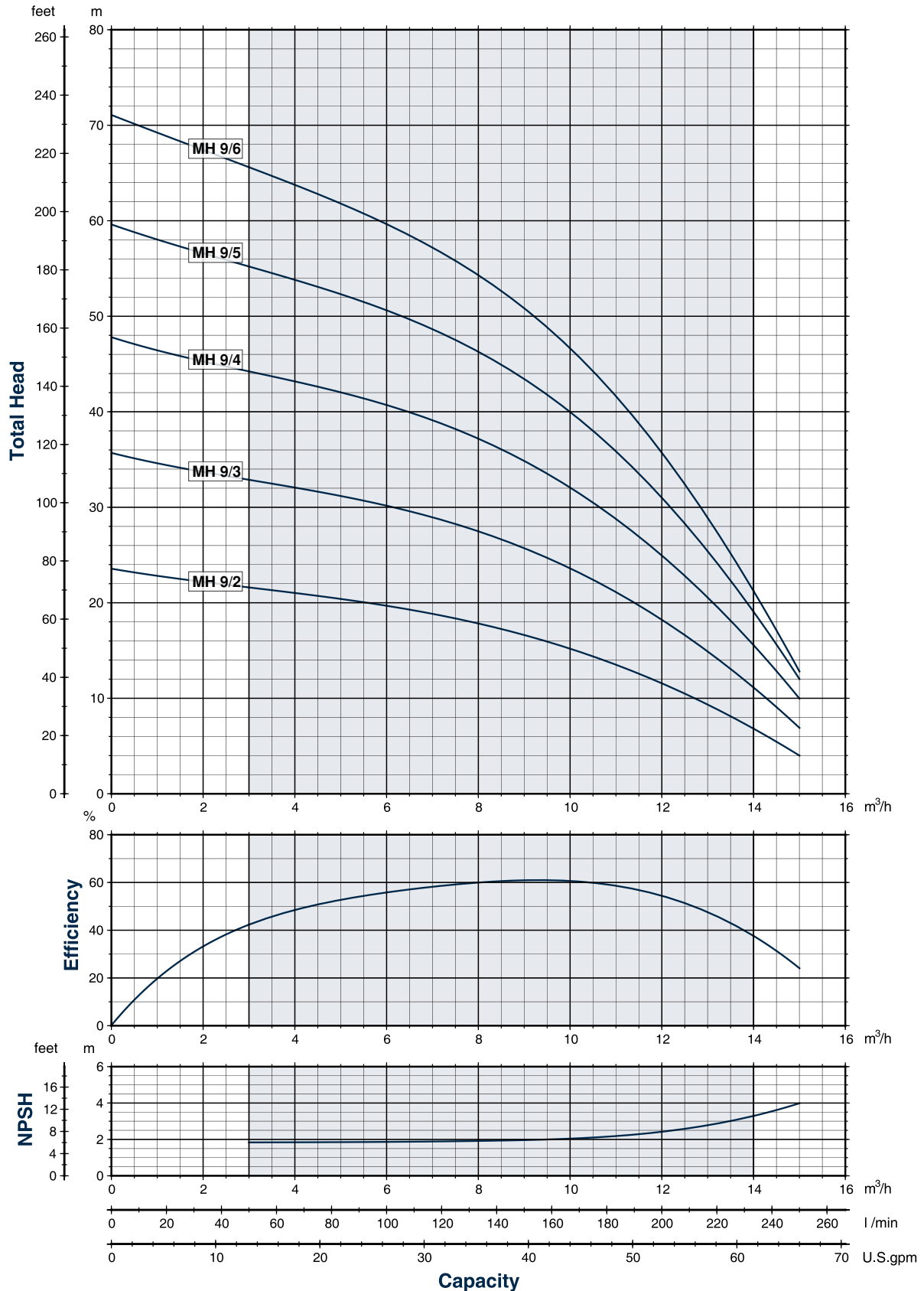


Single-phase
models



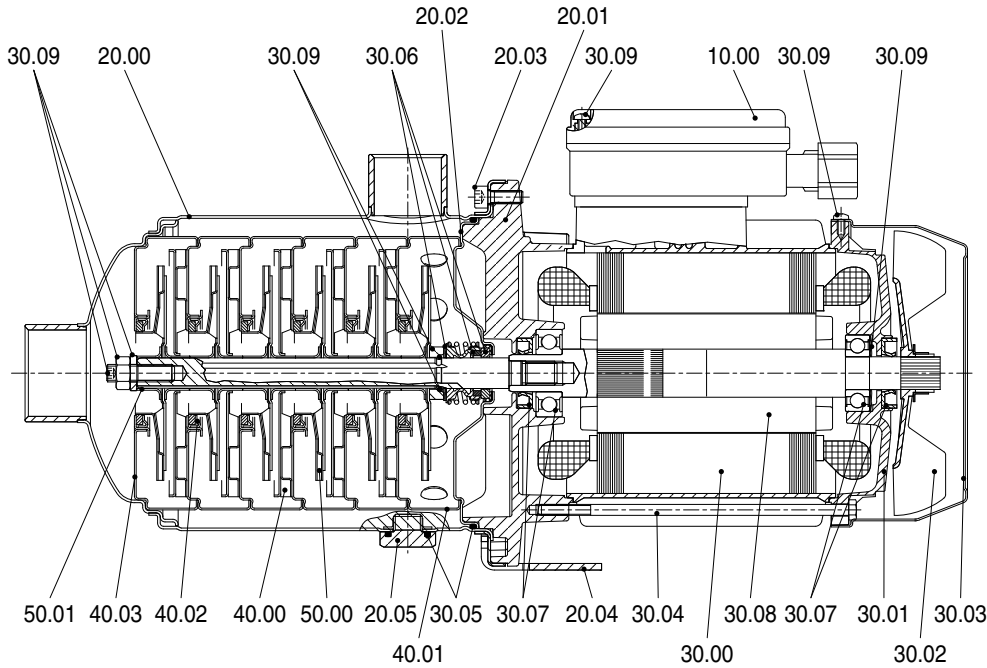
Horizontal Multistage Pumps

50 Hz Stainless Steel MH 9 Specifications



Horizontal Multistage Pumps

50 Hz Stainless Steel Materials of Construction



| Ref. N. | Description |
|---------|--|
| 10 00 | Terminal box cover |
| 20 00 | Pump casing |
| 20 01 | Motor bracket |
| 20 02 | Seal housing |
| 20 03 | Screws for pump casing |
| 20 04 | Support foot |
| 20 05 | Filling and drain plug with O-Ring (2 pcs) |
| 30 00 | Motor housing and stator |
| 30 01 | Bearing housing |
| 30 02 | Fan |
| 30 03 | Fan cover |
| 30 04 | Tie rod |

| Ref. N. | Description |
|---------|---|
| 30 05 | Kit O-Rings (3 pcs) |
| 30 06 | Kit mechanical seals (3 pcs) |
| 30 07 | Kit ball bearings and lip seal (2+2pcs) |
| 30 08 | Rotor and pump shaft |
| 30 09 | Kit screws, nut and washers |
| 40 00 | Stage housing and diffuser |
| 40 01 | Last stage with holes |
| 40 02 | Floating neck ring assembly |
| 40 03 | Initial stage housing |
| 50 00 | Impeller |
| 50 01 | Impeller spacers (2 pcs) |

| MATERIAL IN CONTACT WITH THE LIQUID | | | | |
|-------------------------------------|-------------------------|---------------------|----------|----------|
| Pos. | Parts Descriptions | Type | Material | |
| | | | Aisi | Din / En |
| 20.00 | Pump casing | Stainless steel | AISI 304 | 1.4301 |
| 20.02 | Seal housing | Stainless steel | AISI 304 | 1.4301 |
| 20.05 | Filling and drain plug | Stainless steel | AISI 304 | 1.4301 |
| 30.05 | O-Ring | EPDM | | |
| 30.06 | Mechanical seal | Ceramic/Carbon/EPDM | | |
| 30.08 | Pump shaft | Stainless steel | AISI 304 | 1.4301 |
| 30.09 | Screws and washers | Stainless steel | AISI 304 | 1.4301 |
| 40.00 | Diffuser/s | Stainless steel | AISI 304 | 1.4301 |
| 40.01 | | | | |
| 40.03 | | | | |
| 50.00 50.01 | Impeller/s with spacers | Stainless steel | AISI 304 | 1.4301 |



Franklin Electric

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