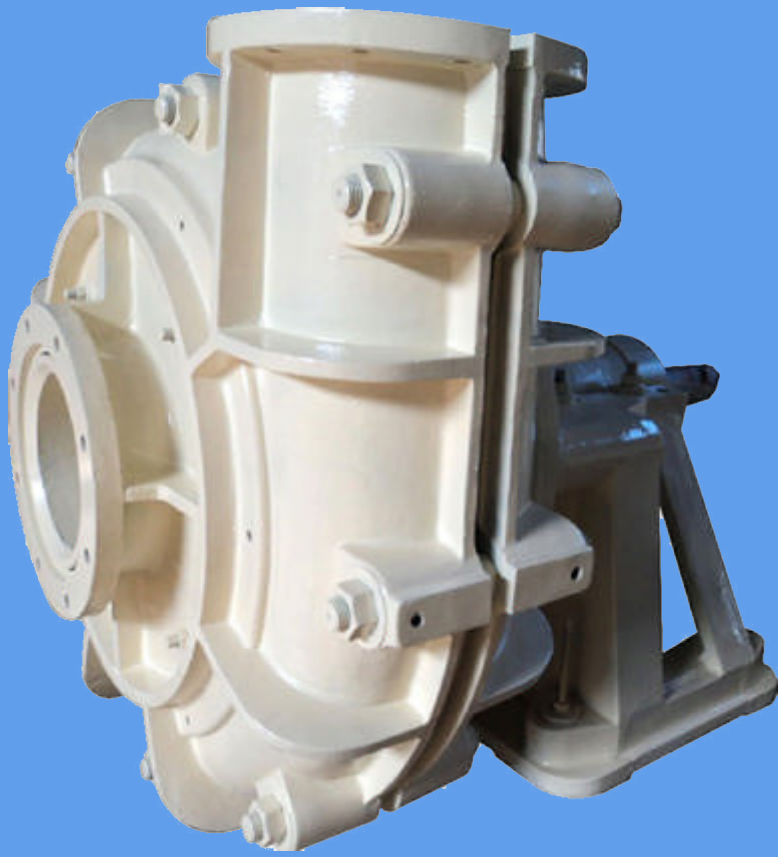


**MST**



# MAH SLURRY PUMPS

**BTS**  
ENGINEERING

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# MAH HORIZONTAL SLURRY PUMPS

**Heavy duty, horizontal slurry pumps.** High efficiency transfer of abrasive and high density slurries with extended wear life and reliable service intervals.

## VERSATILE HEAVY DUTY SOLUTION

Milestone MAH series pumps are heavy duty horizontal slurry pumps designed to handle the transfer of abrasive and high density slurries in mining and heavy industry.

MAH pumps feature a rugged cast iron construction with replaceable wear liners available in 27% chrome white iron, rubber or urethane to suit a wide range of applications, slurry types and consistencies.

Pumps are available in sizes ranging from 1 inch (25mm) to 18 inch (450mm) discharge and feature high efficiency performance capable of flow rates from 10.8 to 6500 m<sup>3</sup>/hour (48-28600USGPM) and heads up to 125 metres (410ft) for high head models.

All Milestone MAH slurry pumps are designed to be interchangeable with the most common slurry pump footprints used by the mining industry.

MAH pumps are manufactured using the highest quality materials to ensure reliability and extended service life in heavy duty applications.

MAH pumps are manufactured with a rugged cast iron outer casing which features reinforcing ribs for excellent high pressure strength and safety.

## WEAR LINERS

A range of replaceable wear liners are available in 27% chrome white iron, rubber or urethane to suit the requirements of specific applications and slurry types. Wear liners are easily replaced when required by simply removing the front cover plate bolts and sliding off the front cover. This allows minimal downtime and simple servicing for maintenance staff.

## IMPELLERS

The impeller features pumpout vanes on the rear face to prevent recirculation. Impellers are available in 27% chrome white iron or rubber to suit the requirements of the pumped product and are easily accessible by simply removing the front cover plate bolts and sliding off the front cover.

## EXTERNAL IMPELLER ADJUSTMENT

An external impeller adjustment bolt is located under the bearing assembly and is easily accessible. This allows for changes to be made to the impeller clearance to maximise efficiency and service life without removing the front cover plate or disconnecting pipework or the bearing assembly. The system allows quick and simple adjustments to be made to compensate for wear and changes in operating conditions and duty points.

**MILESTONE MAH 2x1.5B  
HORIZONTAL SLURRY PUMP**



**MILESTONE 4x3EHH**





MAH pumps are fitted with heavy duty bearing assemblies with angular contact bearings in the wet end and single or double row deep groove roller bearings in the drive end. Bearings are grease lubricated as standard and are available with the option of oil lubrication to meet customer requirements. Bearing assemblies are fitted to the bearing frame with four through bolts allowing for quick removal and simple servicing.

#### **SHAFT SEALING OPTIONS**

Pumps are fitted with packed gland type shaft seals as standard with PTFE packing and pumped product lubrication. Optional external clean water lubrication is available as an option to suit applications where product lubrication is not viable.

#### **MECHANICAL SEAL**

A range of mechanical seals are available to replace the packed gland shaft seal. Adaptor plates can be easily fitted to match the requirements of specific types of mechanical seals and seals are available in a wide range of materials.

#### **EXPELLER**

MAH pumps are fitted with an expeller as standard which reduces seal face pressure and reduces recirculation to extend seal life and reduce impeller wear.

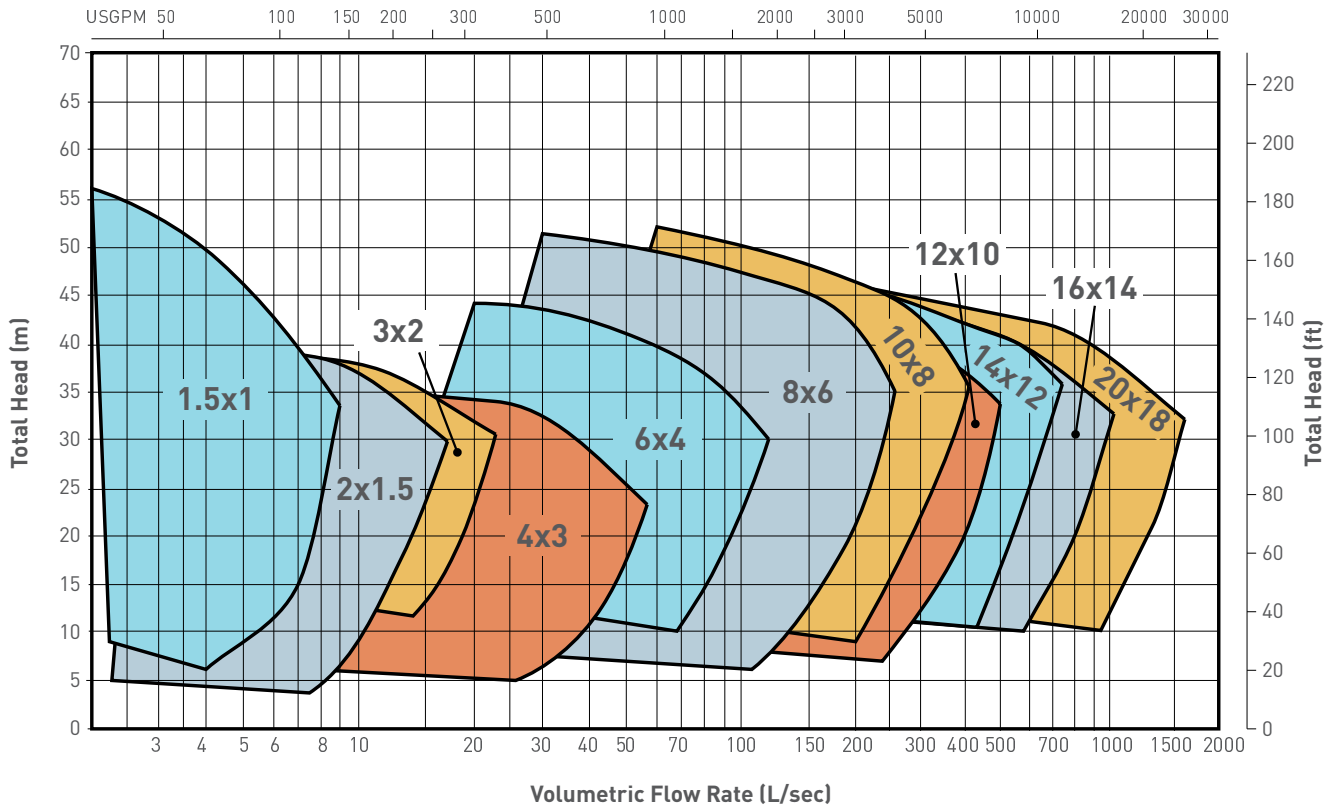
#### **100% INTERCHANGEABLE**

All MAH spare parts are fully interchangeable with the most common slurry pump design in the mining industry. High quality Milestone spare parts can be fitted into existing pumps to improve performance and extend service life.

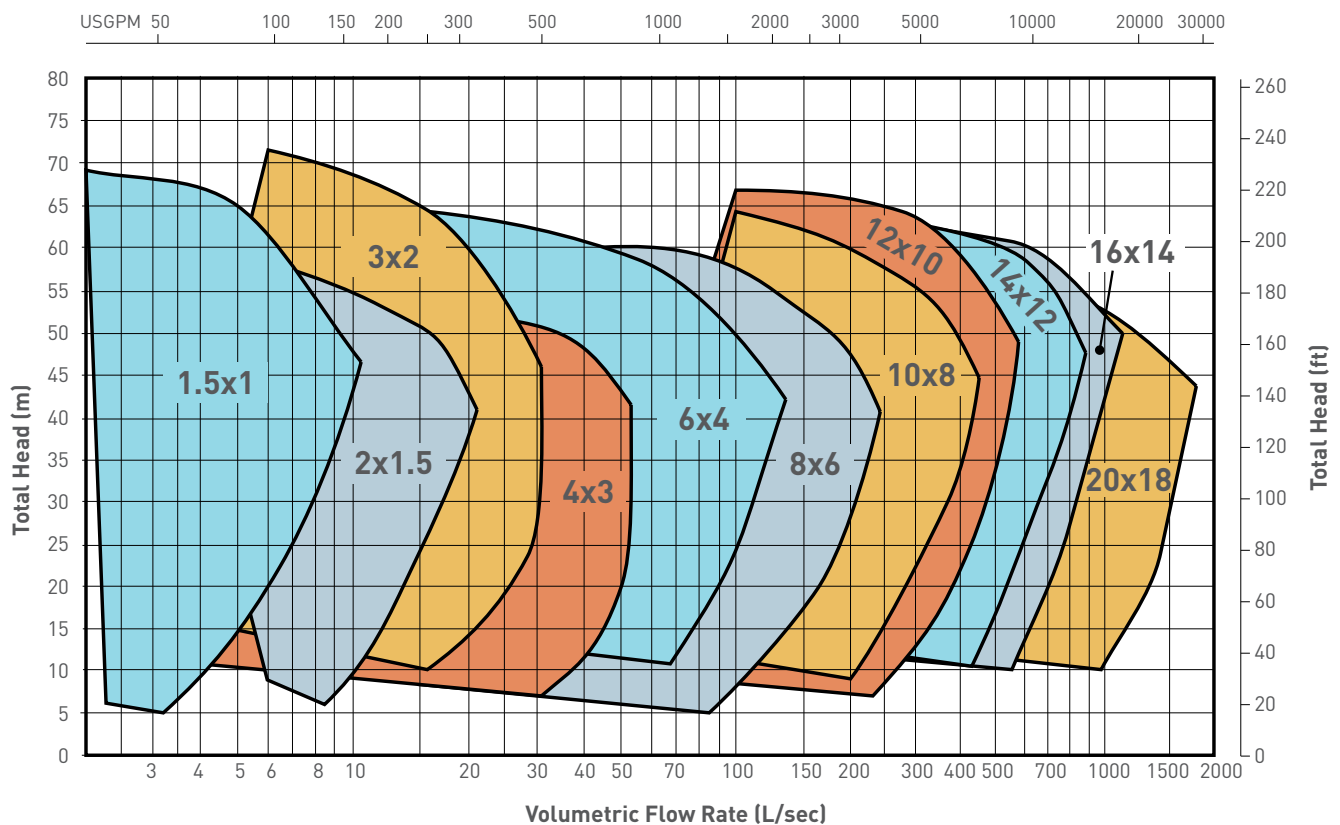
Milestone MAH Horizontal Slurry Pumps are 100% fully interchangeable with the most common slurry pump design in the mining industry.

# PUMP PERFORMANCE

## RUBBER LINED PUMPS

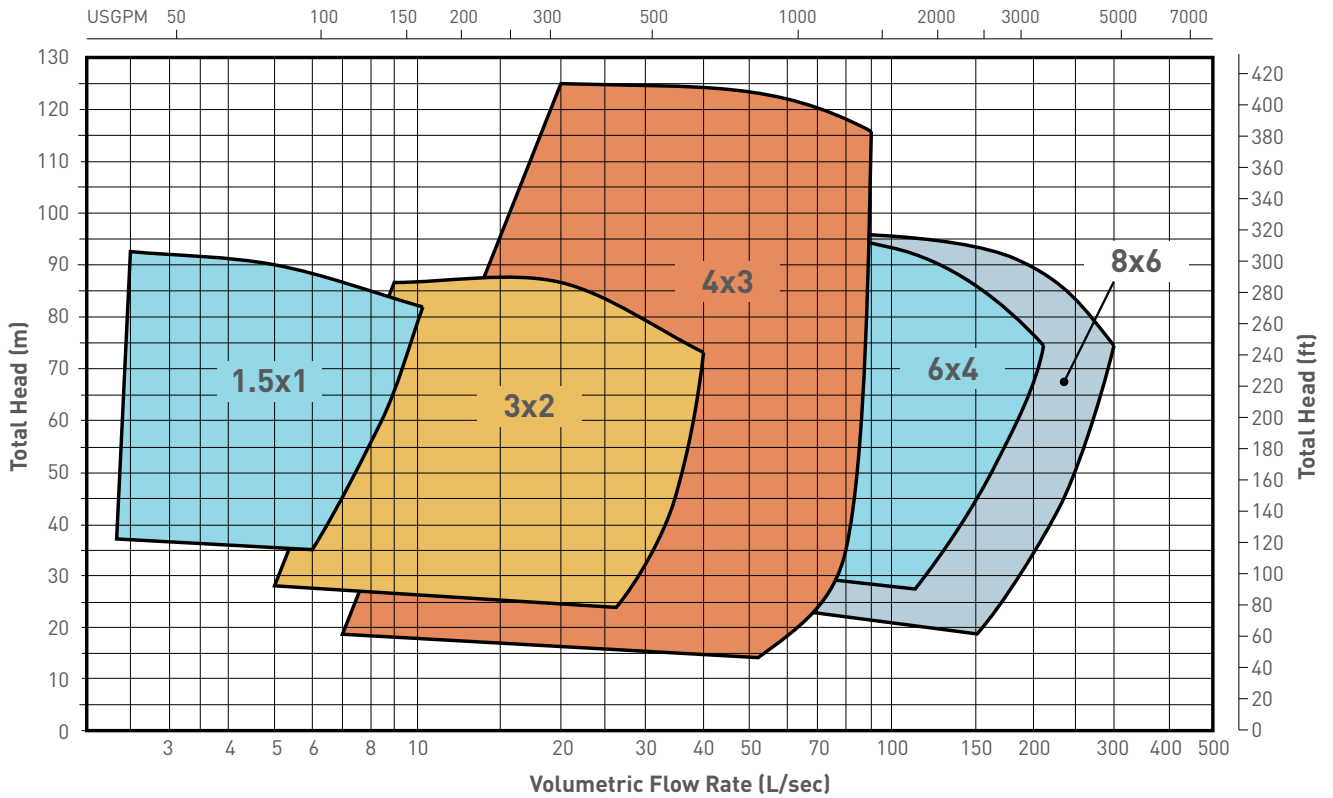


## METAL LINED PUMPS



Performance curves are for clean, cold water only. Contact us to discuss pump selections for specific applications.

# HIGH HEAD PUMPS



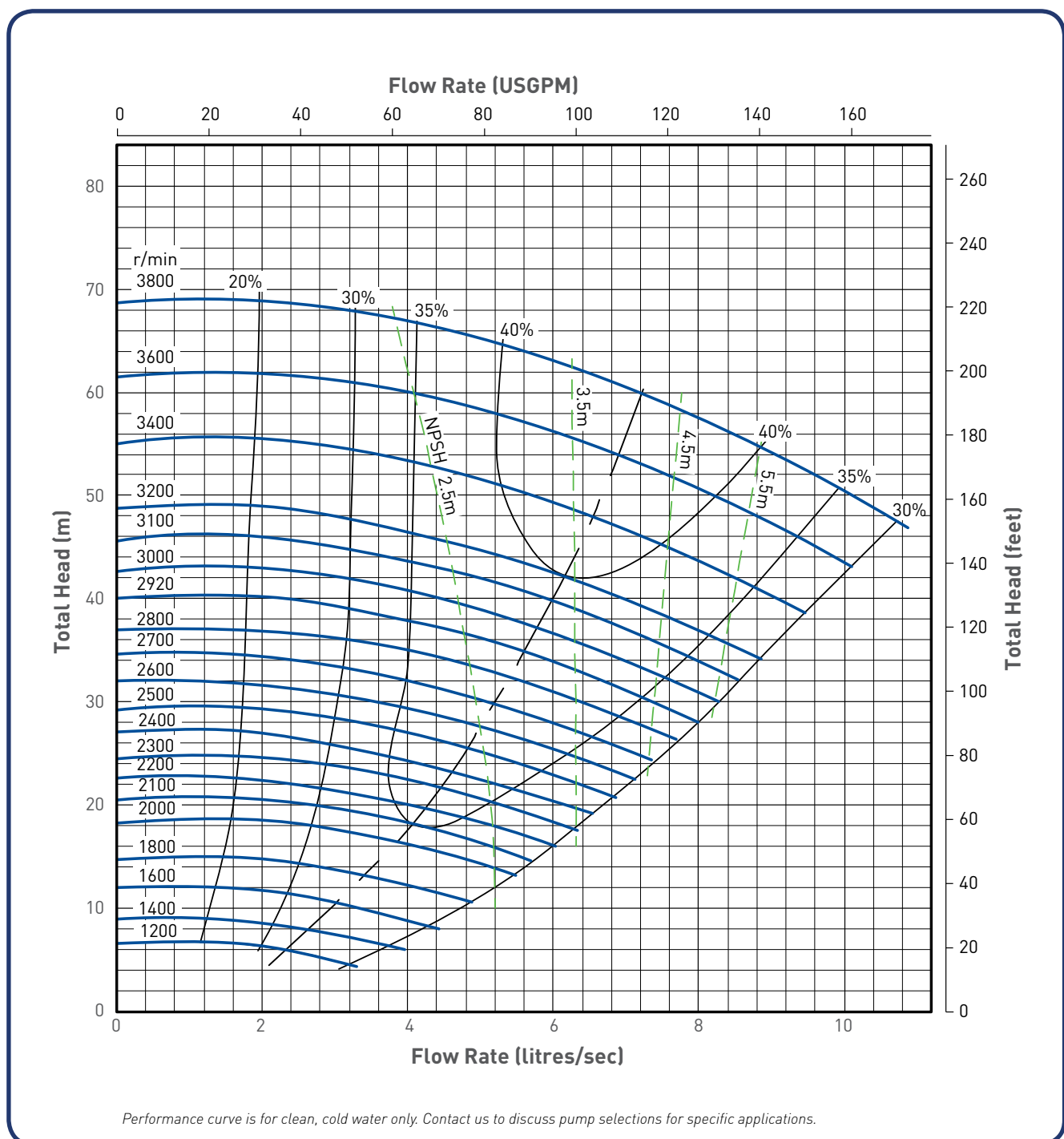
**MILESTONE 6x4FHH  
HIGH HEAD SLURRY PUMP.**

# MAH 1.5x1

## METAL LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material     | Impeller/ Vane Dia. (mm) | Wear Liner Material   |
|--------------------|---------------|----------------|------------------------|----------|--------------|-----------------------|--------------------------|-----------------------|
| 32/25              | B             | 15             | 14                     | B1127    | 5            | 27% Chrome White Iron | 159/152                  | 27% Chrome White Iron |

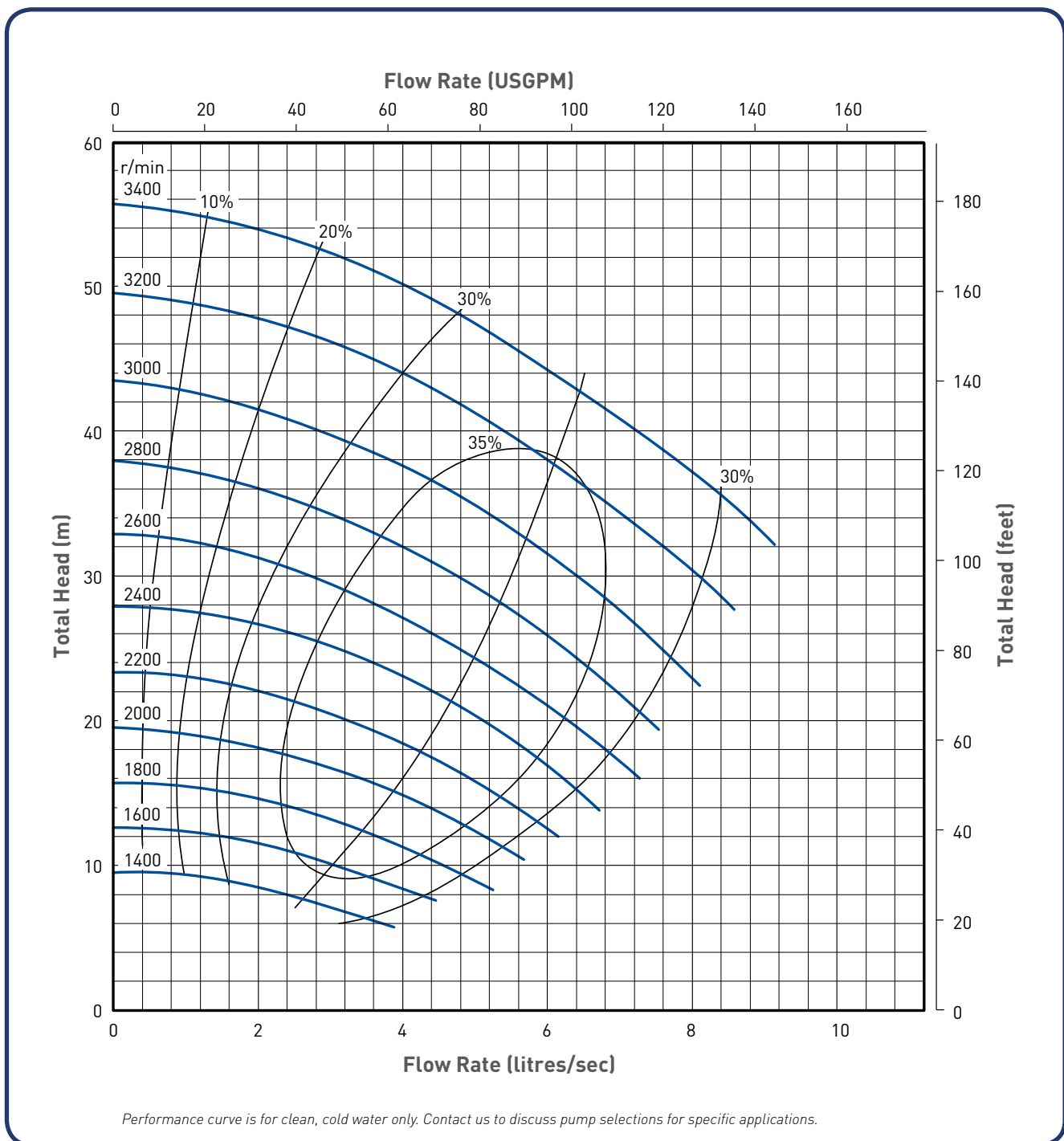


# MAH 1.5x1

## RUBBER LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material               | Impeller/ Vane Dia. (mm) | Wear Liner Material |
|--------------------|---------------|----------------|------------------------|----------|--------------|---------------------------------|--------------------------|---------------------|
| 32/25              | B             | 15             | 20                     | B1052    | 5            | Rubber Lined High Tensile Steel | 159/152                  | Rubber              |
|                    |               |                |                        |          |              |                                 |                          |                     |
|                    |               |                |                        |          |              |                                 |                          |                     |



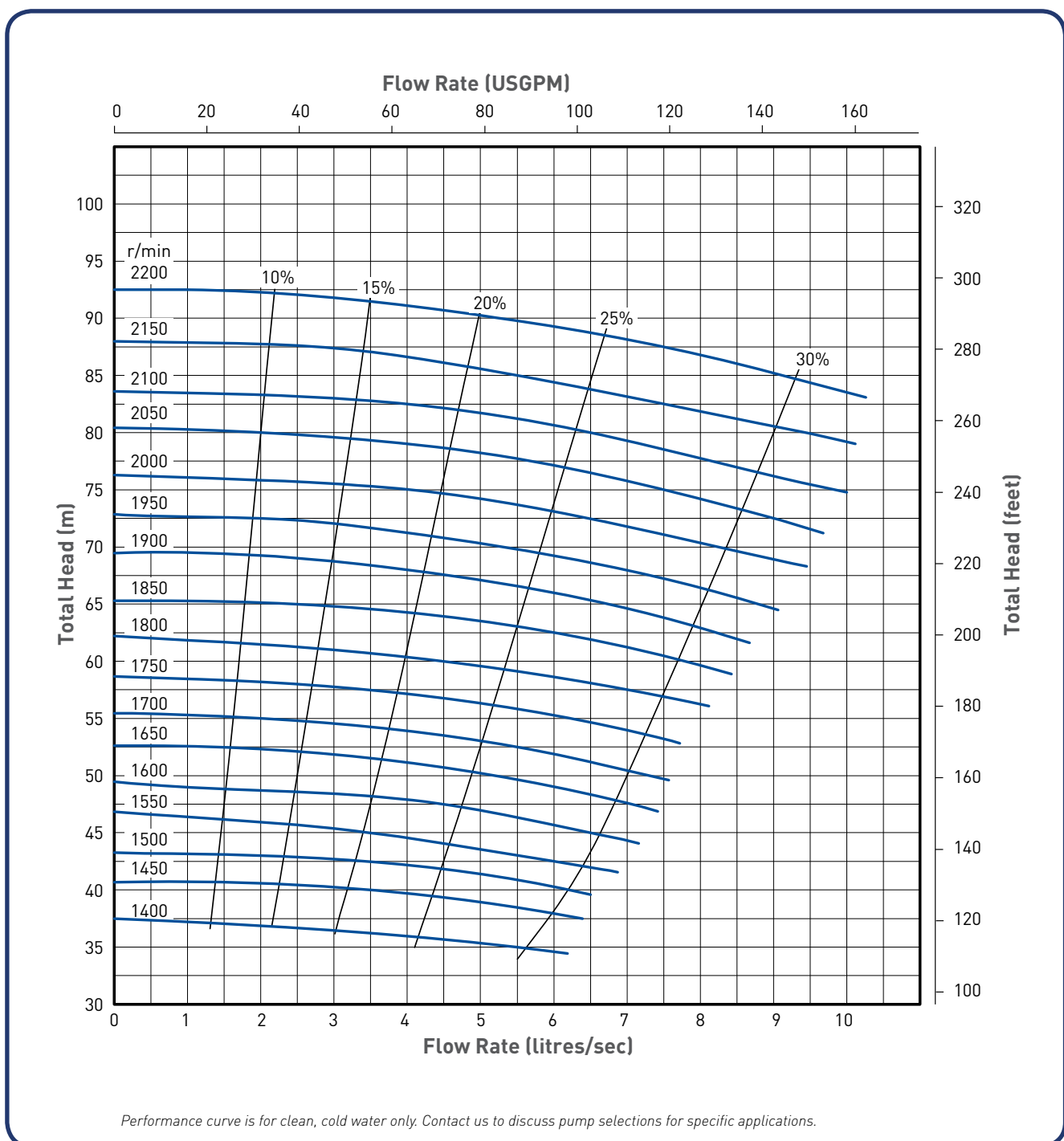


# MHH 1.5x1

## HIGH HEAD SLURRY PUMP

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material     | Impeller/ Vane Dia. (mm) | Wear Liner Material   |
|--------------------|---------------|----------------|------------------------|----------|--------------|-----------------------|--------------------------|-----------------------|
| 32/25              | C             | 30             | 16                     | MCH1127  | 5            | 27% Chrome White Iron | 343/330                  | 27% Chrome White Iron |
|                    |               |                |                        |          |              |                       |                          |                       |
|                    |               |                |                        |          |              |                       |                          |                       |



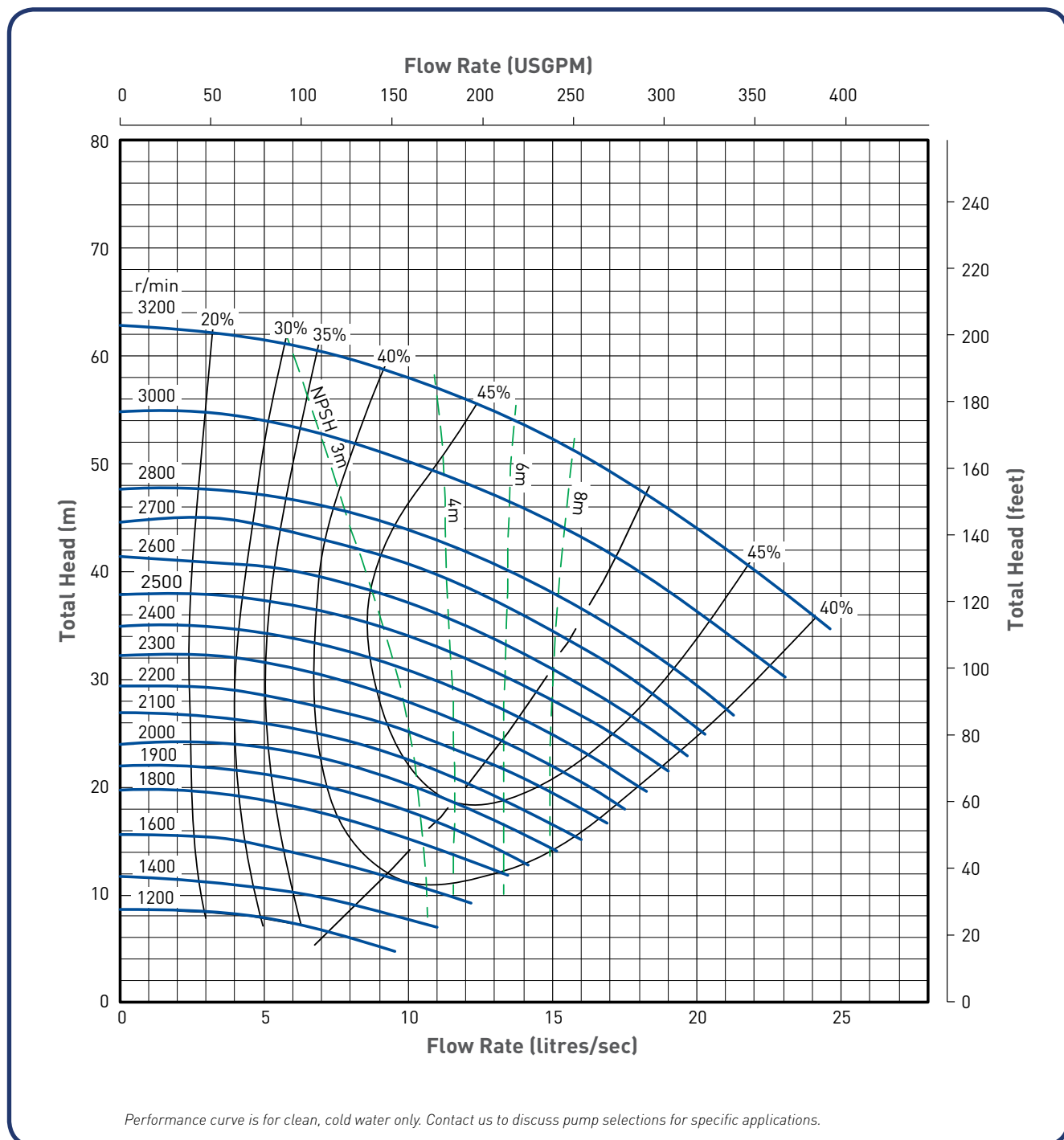


# MAH 2x1.5

## METAL LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material        | Impeller/ Vane Dia. (mm) | Wear Liner Material      |
|--------------------|---------------|----------------|------------------------|----------|--------------|--------------------------|--------------------------|--------------------------|
| 50/32              | B             | 15             | 19                     | B15127   | 5            | 27% Chrome<br>White Iron | 184                      | 27% Chrome<br>White Iron |
|                    |               |                |                        |          |              |                          |                          |                          |
|                    |               |                |                        |          |              |                          |                          |                          |



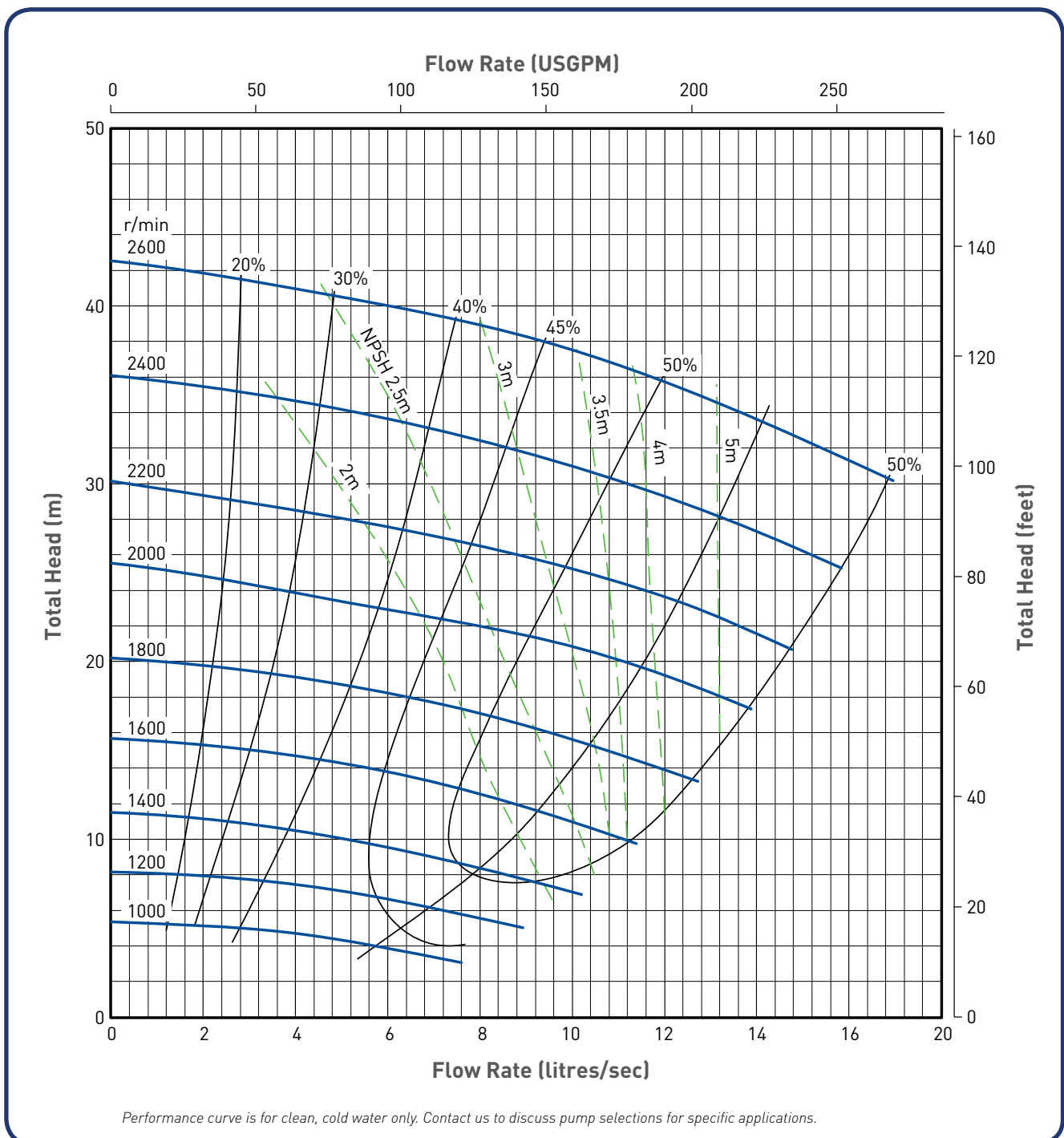
Performance curve is for clean, cold water only. Contact us to discuss pump selections for specific applications.

# MAH 2x1.5

## RUBBER LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material               | Impeller/ Vane Dia. (mm) | Wear Liner Material |
|--------------------|---------------|----------------|------------------------|----------|--------------|---------------------------------|--------------------------|---------------------|
| 50/32              | B             | 15             | 16                     | B15127   | 5            | Rubber Lined High Tensile Steel | 180                      | Rubber              |
|                    |               |                |                        |          |              |                                 |                          |                     |
|                    |               |                |                        |          |              |                                 |                          |                     |

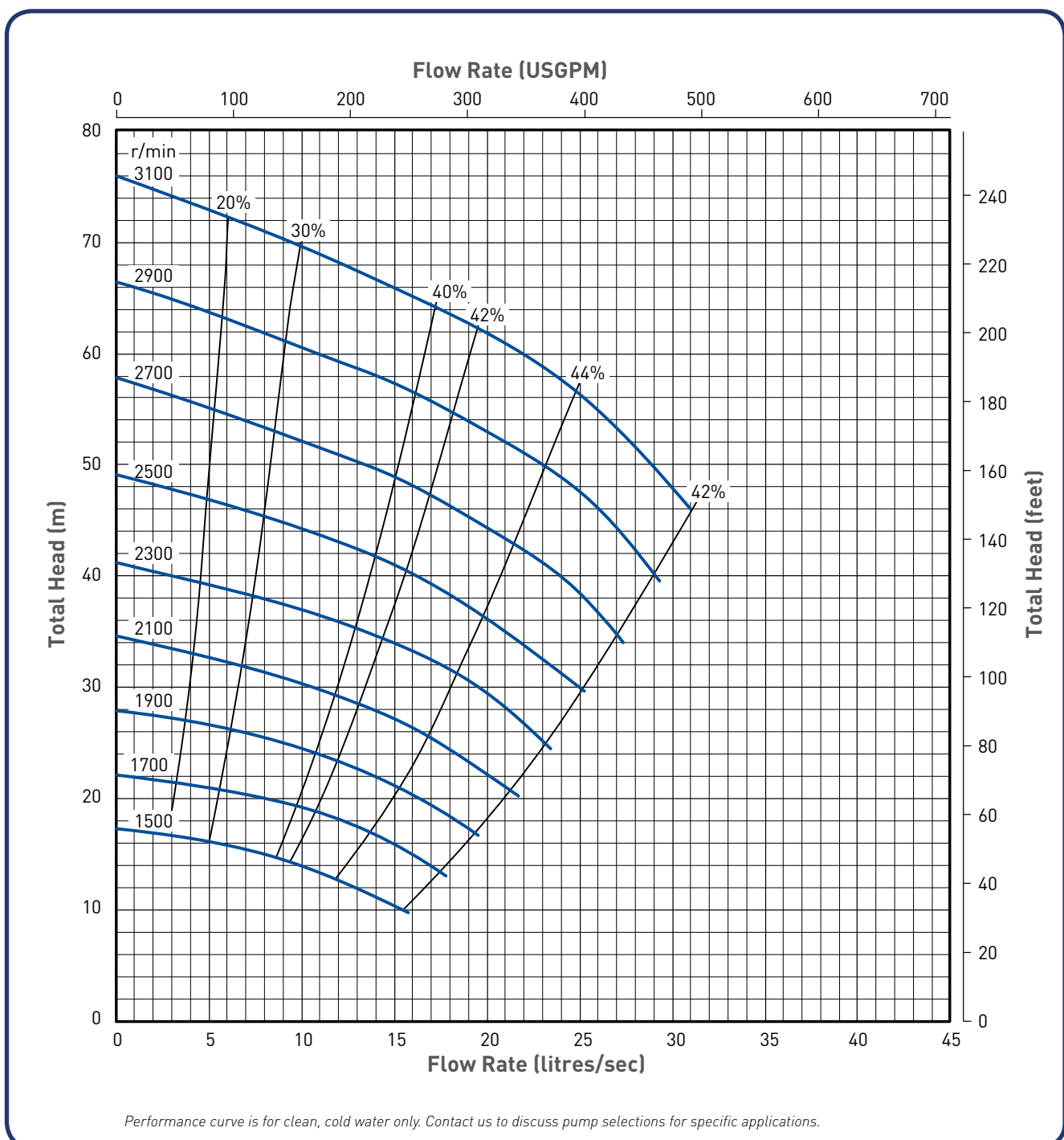


# MAH 3x2

## METAL LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material        | Impeller/ Vane Dia. (mm) | Wear Liner Material      |
|--------------------|---------------|----------------|------------------------|----------|--------------|--------------------------|--------------------------|--------------------------|
| 75/50              | C             | 30             | 25                     | C2147    | 5            | 27% Chrome<br>White Iron | 214                      | 27% Chrome<br>White Iron |
|                    |               |                |                        |          |              |                          |                          |                          |
|                    |               |                |                        |          |              |                          |                          |                          |

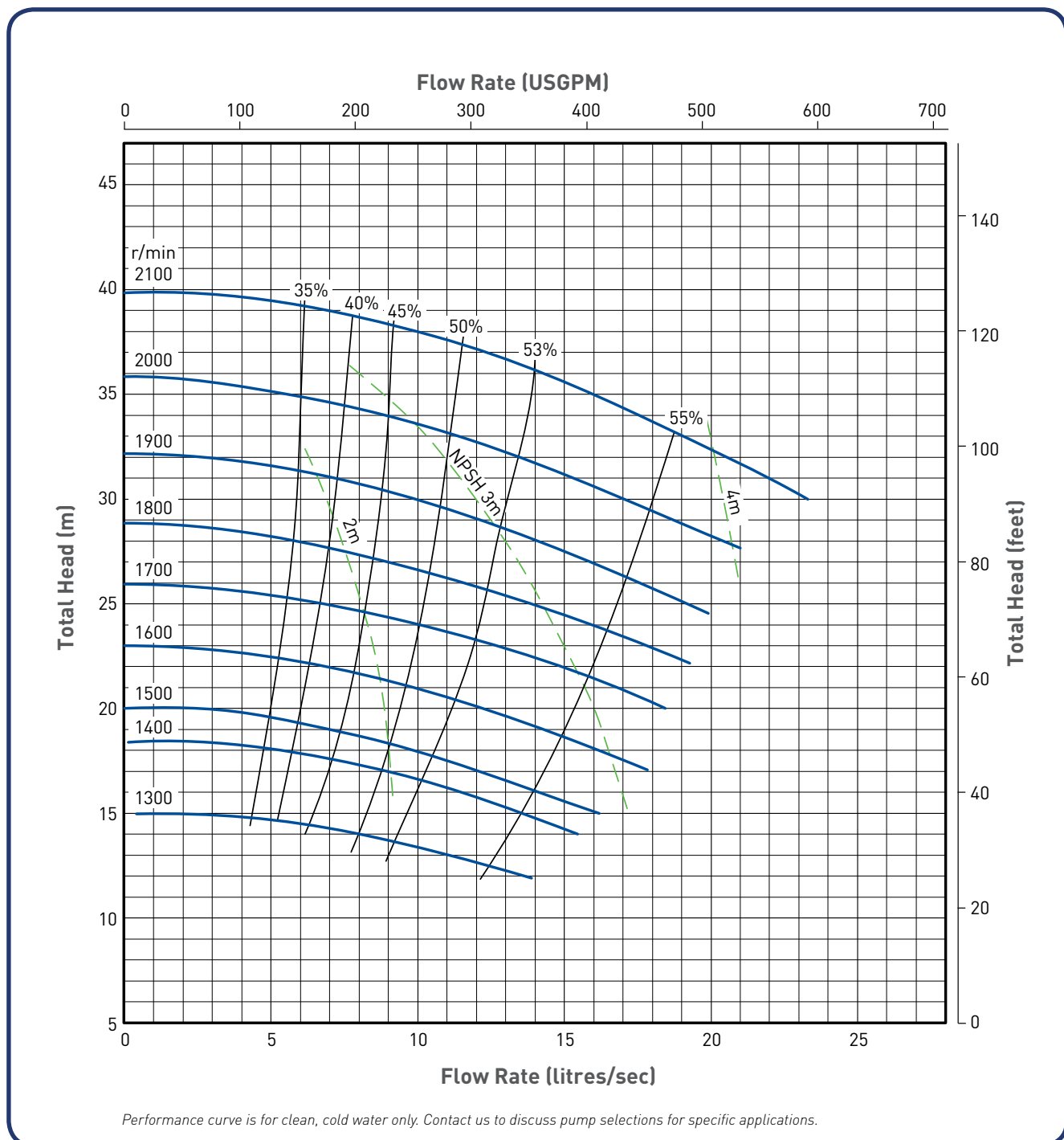


# MAH 3x2

## RUBBER LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/<br>Inlet (mm) | Bearing<br>Frame | Max Power<br>(kW) | Max<br>Particle<br>Size (mm) | Impeller | No. of<br>Vanes | Impeller<br>Material                  | Impeller/<br>Vane Dia.<br>(mm) | Wear Liner<br>Material |
|-----------------------|------------------|-------------------|------------------------------|----------|-----------------|---------------------------------------|--------------------------------|------------------------|
| 75/50                 | C                | 30                | 21                           | C2127    | 5               | Rubber Lined<br>High Tensile<br>Steel | 215                            | Rubber                 |
|                       |                  |                   |                              |          |                 |                                       |                                |                        |
|                       |                  |                   |                              |          |                 |                                       |                                |                        |

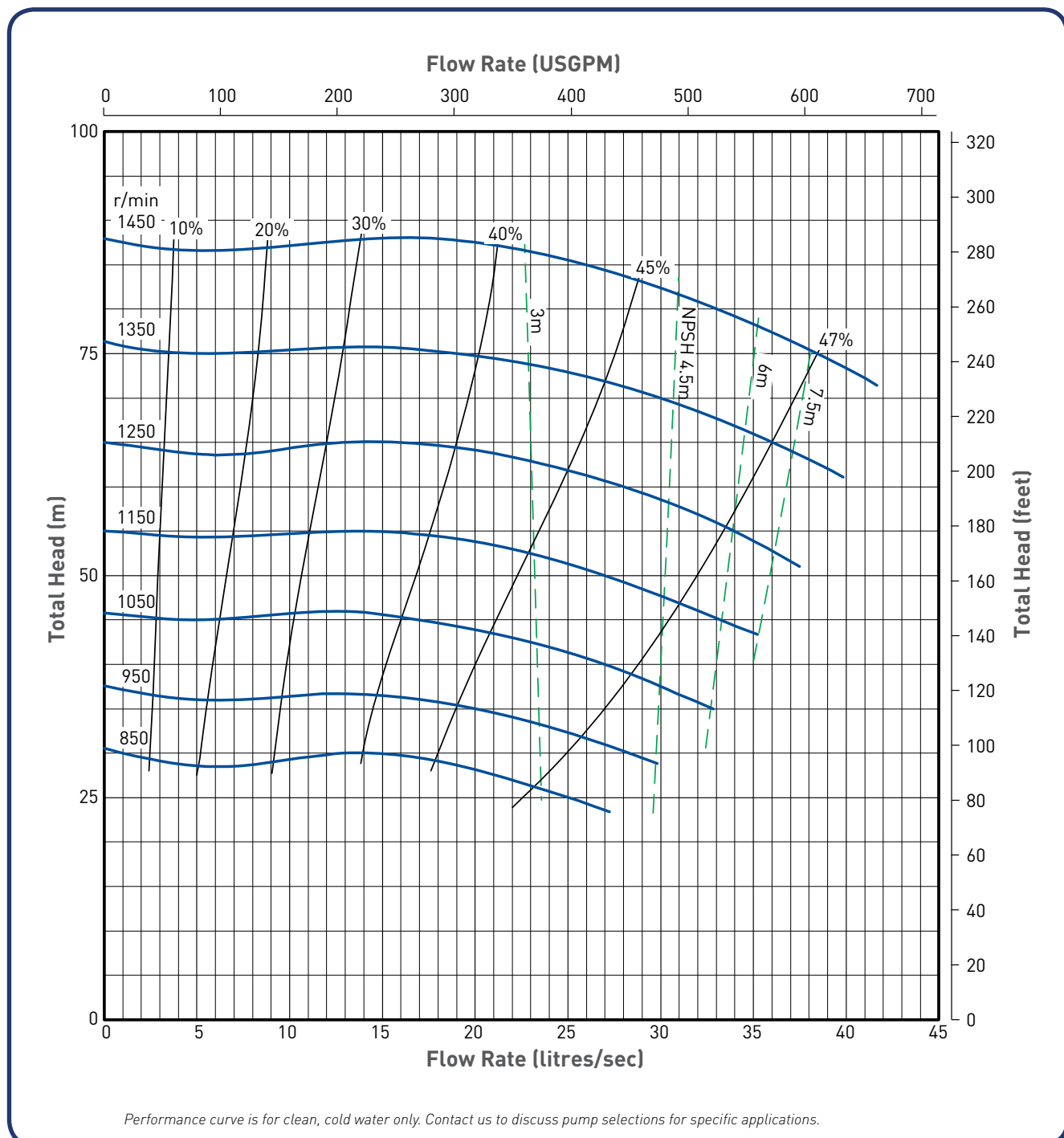


# MHH 3x2

## HIGH HEAD SLURRY PUMP

### PUMP SPECIFICATIONS

| Outlet/<br>Inlet (mm) | Bearing<br>Frame | Max Power<br>(kW) | Max<br>Particle<br>Size (mm) | Impeller | No. of<br>Vaness | Impeller<br>Material     | Impeller/<br>Vane Dia.<br>(mm) | Wear Liner<br>Material   |
|-----------------------|------------------|-------------------|------------------------------|----------|------------------|--------------------------|--------------------------------|--------------------------|
| 75/50                 | D                | 60                | 31                           | MDH2147  | 5                | 27% Chrome<br>White Iron | 476/457                        | 27% Chrome<br>White Iron |
|                       | X (320)          | 60                |                              |          |                  |                          |                                |                          |
|                       |                  |                   |                              |          |                  |                          |                                |                          |

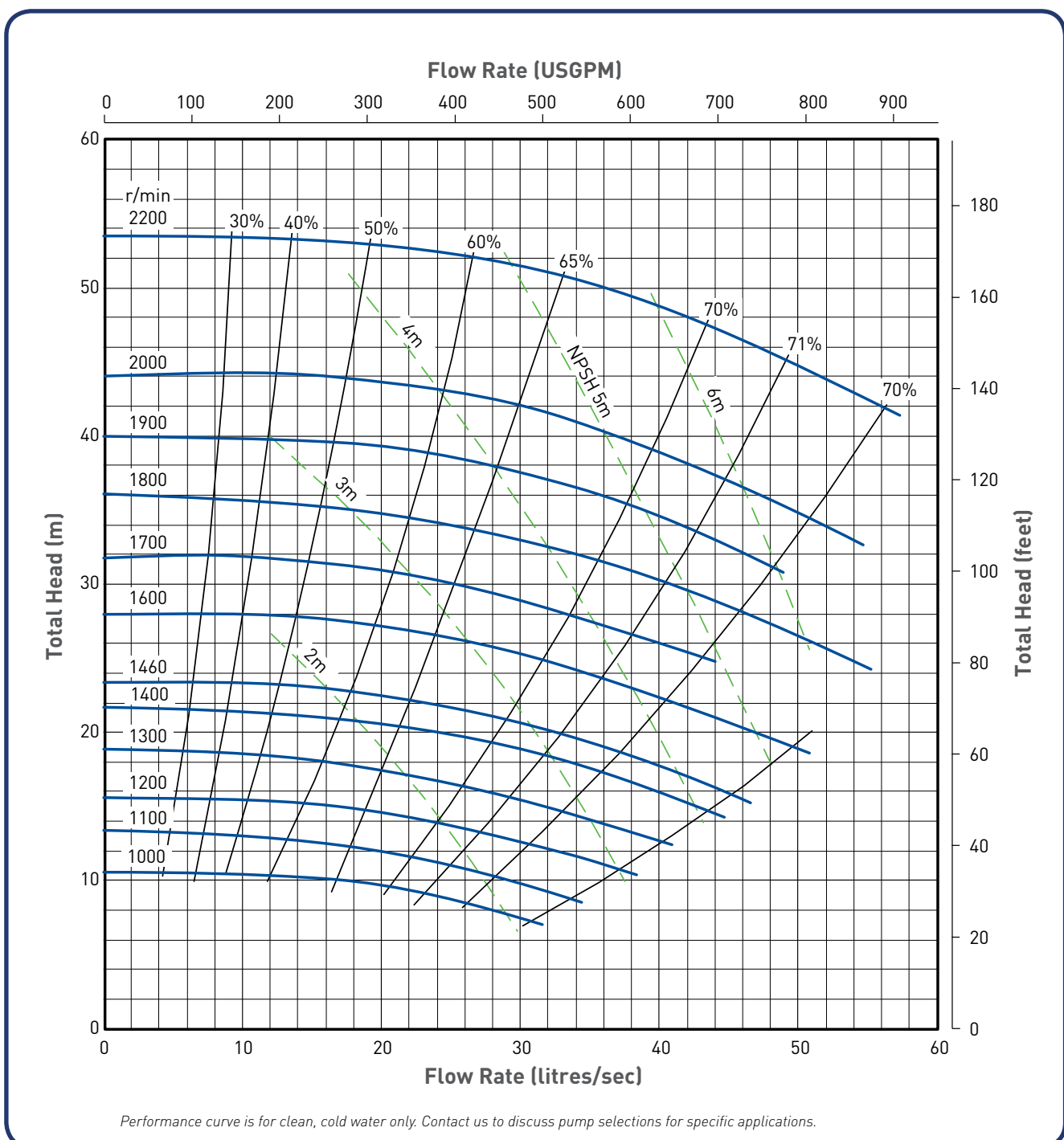


# MAH 4x3

## METAL LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material     | Impeller/ Vane Dia. (mm) | Wear Liner Material   |
|--------------------|---------------|----------------|------------------------|----------|--------------|-----------------------|--------------------------|-----------------------|
| 100/75             | C             | 60             | 18                     | D3147    | 5            | 27% Chrome White Iron | 245                      | 27% Chrome White Iron |
|                    | D             | 30             |                        |          |              |                       |                          |                       |

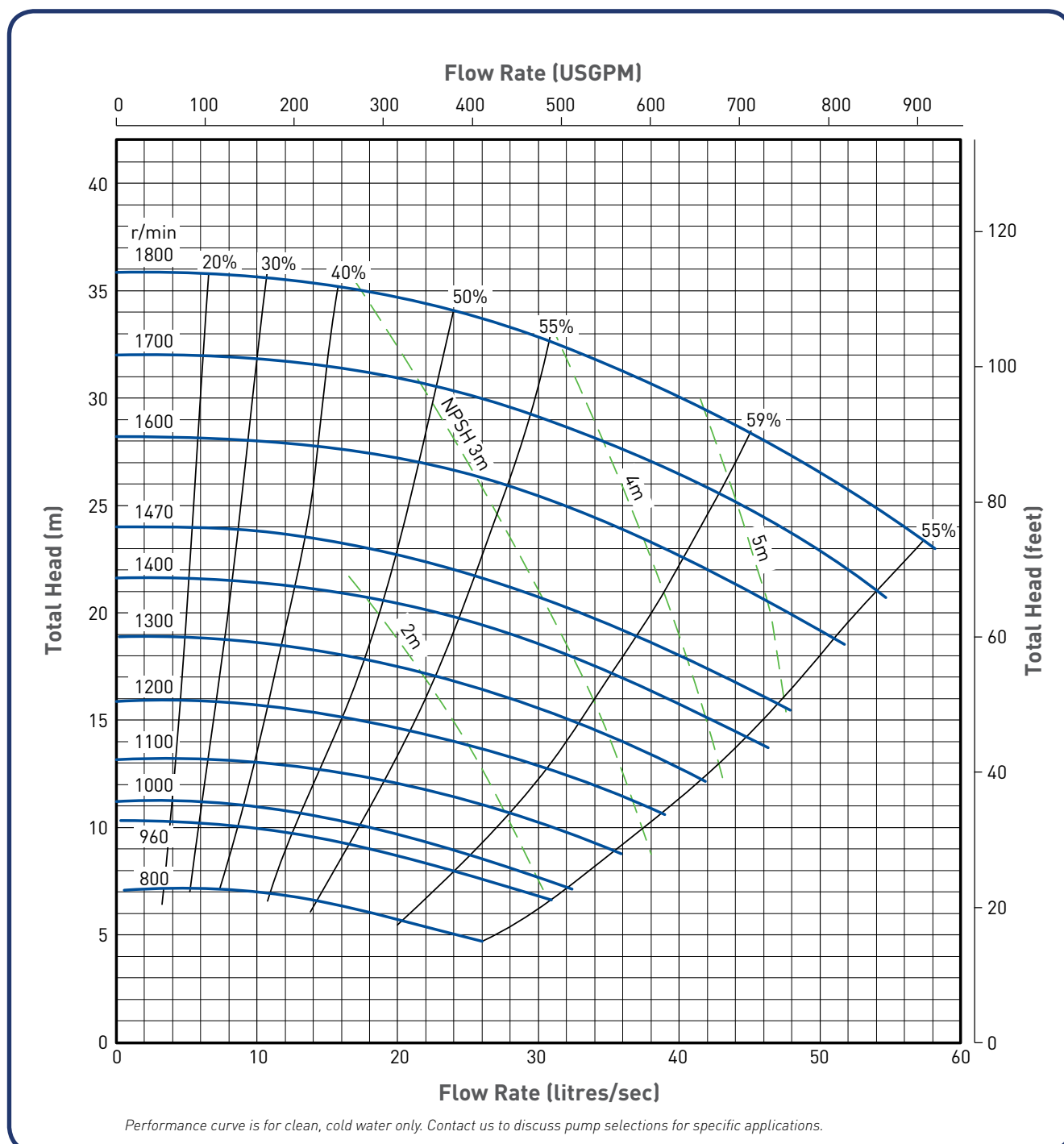


# MAH 4x3

## RUBBER LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/<br>Inlet (mm) | Bearing<br>Frame | Max Power<br>(kW) | Max<br>Particle<br>Size (mm) | Impeller | No. of<br>Vanes | Impeller<br>Material                  | Impeller/<br>Vane Dia.<br>(mm) | Wear Liner<br>Material |
|-----------------------|------------------|-------------------|------------------------------|----------|-----------------|---------------------------------------|--------------------------------|------------------------|
| 100/75                | C                | 30                | 28                           | D3147    | 5               | Rubber Lined<br>High Tensile<br>Steel | 245                            | Rubber                 |
|                       |                  |                   |                              |          |                 |                                       |                                |                        |
|                       |                  |                   |                              |          |                 |                                       |                                |                        |



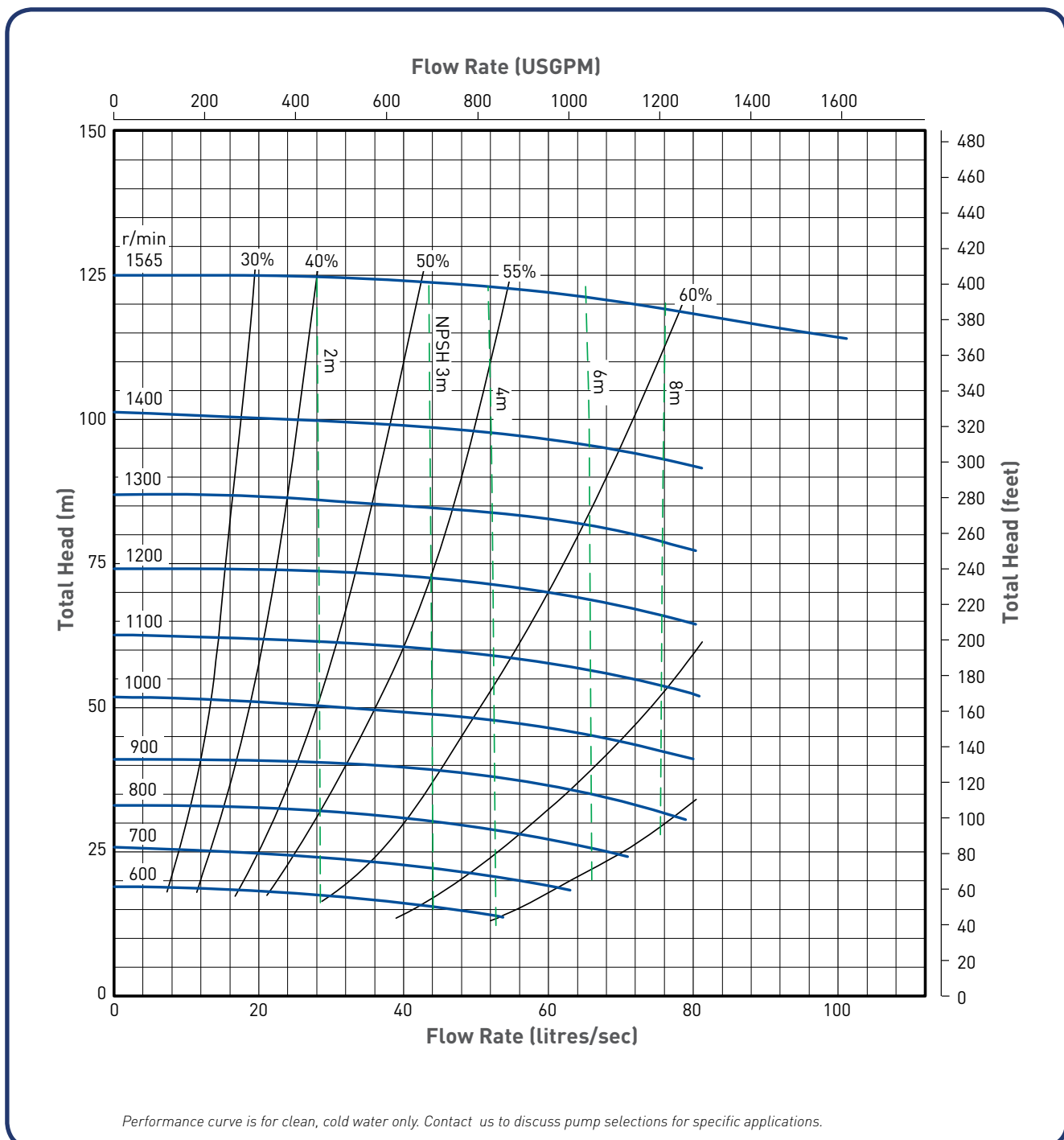


# MHH 4x3

## HIGH HEAD SLURRY PUMP

### PUMP SPECIFICATIONS

| Outlet/<br>Inlet (mm) | Bearing<br>Frame | Max Power<br>(kW) | Max<br>Particle<br>Size (mm) | Impeller | No. of<br>Vaness | Impeller<br>Material     | Impeller/<br>Vane Dia.<br>(mm) | Wear Liner<br>Material   |
|-----------------------|------------------|-------------------|------------------------------|----------|------------------|--------------------------|--------------------------------|--------------------------|
| 100/75                | E                | 120               | 38                           | MEH3147  | 5                | 27% Chrome<br>White Iron | 518/508                        | 27% Chrome<br>White Iron |
|                       | X (406)          | 300               |                              |          |                  |                          |                                |                          |

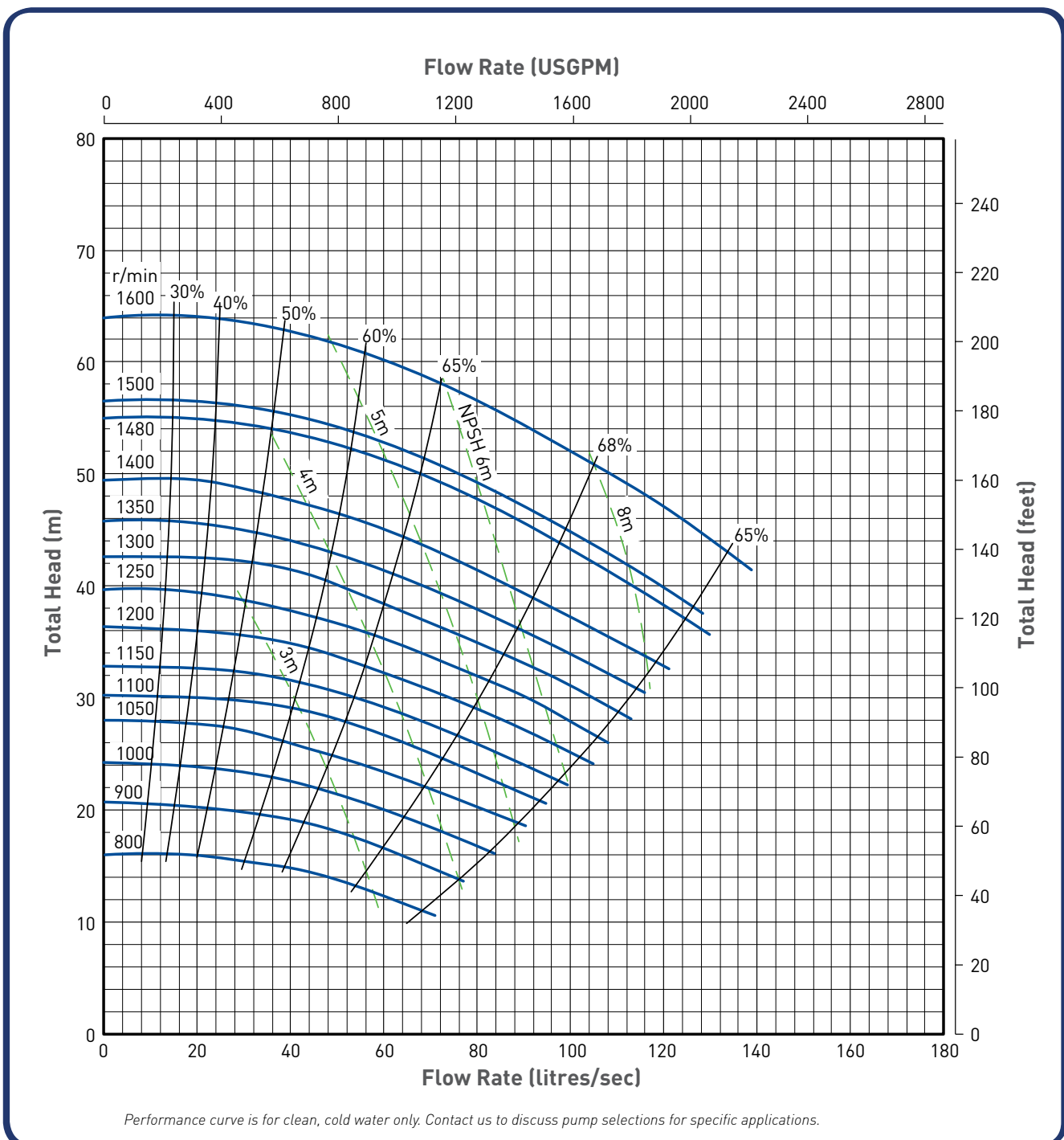


# MAH 6x4

## METAL LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material     | Impeller/ Vane Dia. (mm) | Wear Liner Material   |
|--------------------|---------------|----------------|------------------------|----------|--------------|-----------------------|--------------------------|-----------------------|
| 150/100            | D             | 60             | 44                     | E4147    | 5            | 27% Chrome White Iron | 397/365                  | 27% Chrome White Iron |
|                    | E             | 120            |                        |          |              |                       |                          |                       |
|                    | X (406)       | 300            |                        |          |              |                       |                          |                       |

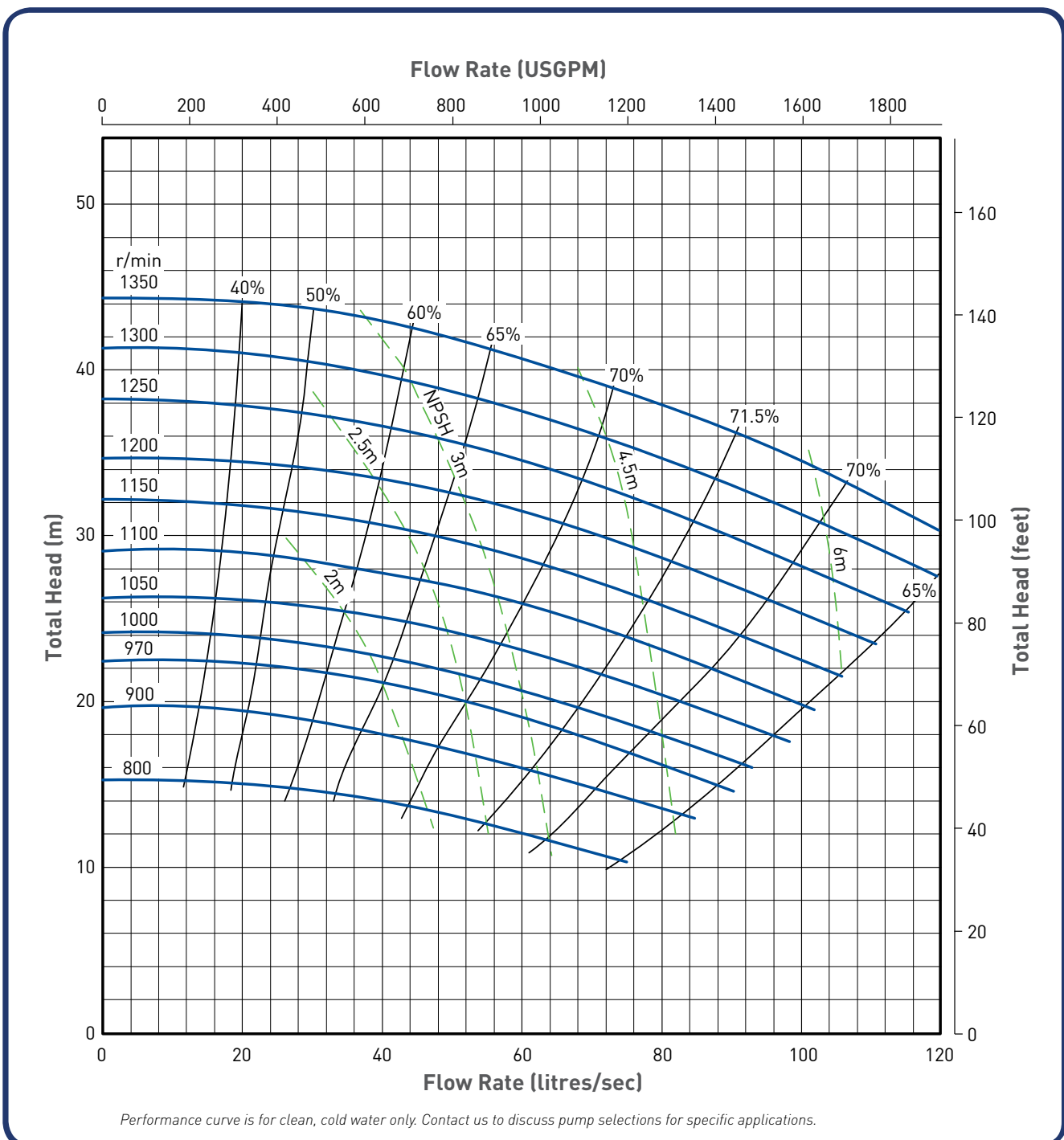


# MAH 6x4

## RUBBER LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/<br>Inlet (mm) | Bearing<br>Frame | Max Power<br>(kW) | Max<br>Particle<br>Size (mm) | Impeller | No. of<br>Vaness | Impeller<br>Material                  | Impeller/<br>Vane Dia.<br>(mm) | Wear Liner<br>Material |
|-----------------------|------------------|-------------------|------------------------------|----------|------------------|---------------------------------------|--------------------------------|------------------------|
| 150/100               | D                | 60                | 33                           | E4147    | 5                | Rubber Lined<br>High Tensile<br>Steel | 397/365                        | Rubber                 |
|                       | E                | 120               |                              |          |                  |                                       |                                |                        |
|                       |                  |                   |                              |          |                  |                                       |                                |                        |

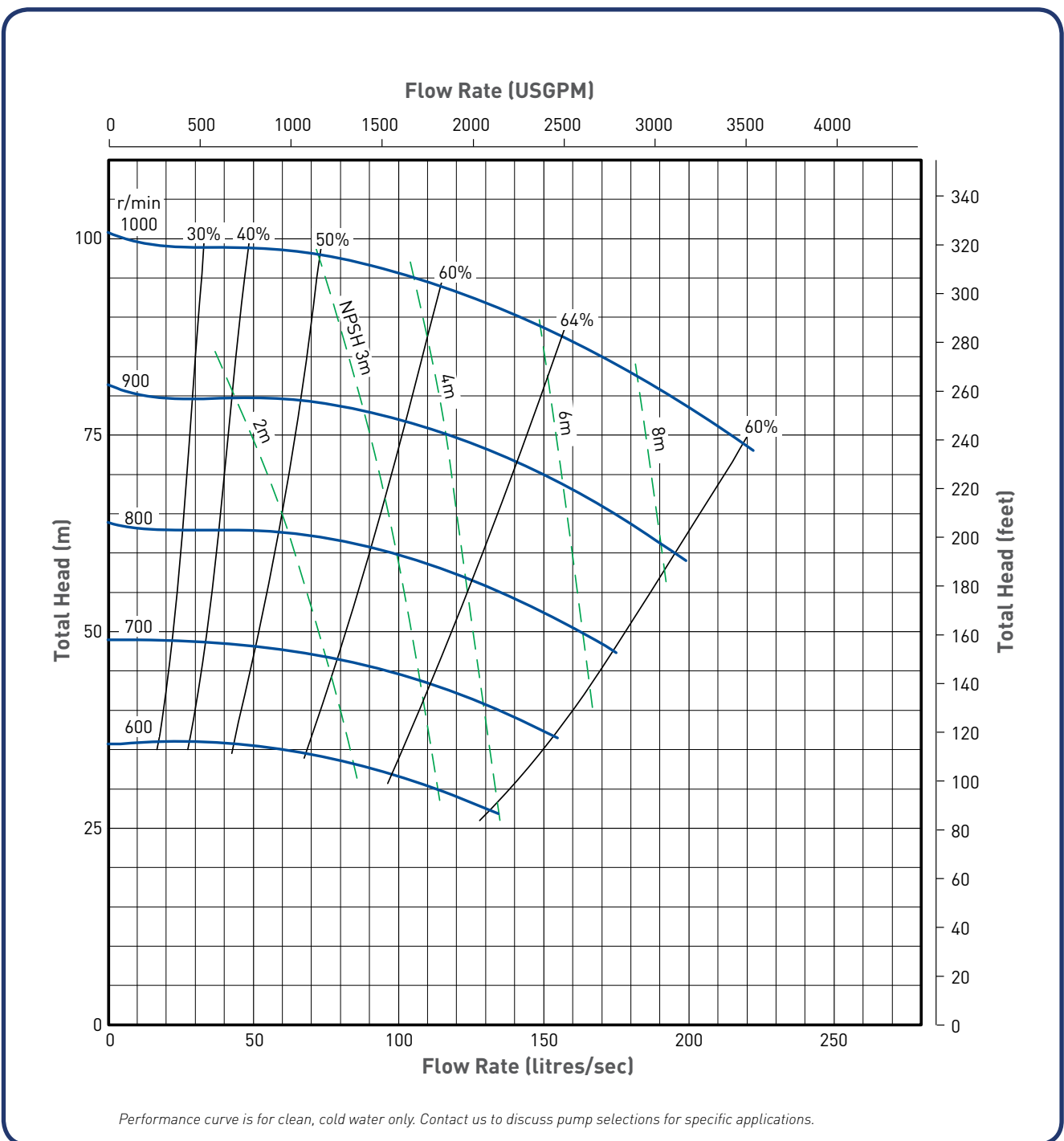


# MHH 6x4

## HIGH HEAD SLURRY PUMP

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material     | Impeller/ Vane Dia. (mm) | Wear Liner Material   |
|--------------------|---------------|----------------|------------------------|----------|--------------|-----------------------|--------------------------|-----------------------|
| 150/100            | F             | 260            | 57                     | MFH4147  | 5            | 27% Chrome White Iron | 730/709                  | 27% Chrome White Iron |
|                    |               |                |                        |          |              |                       |                          |                       |
|                    |               |                |                        |          |              |                       |                          |                       |

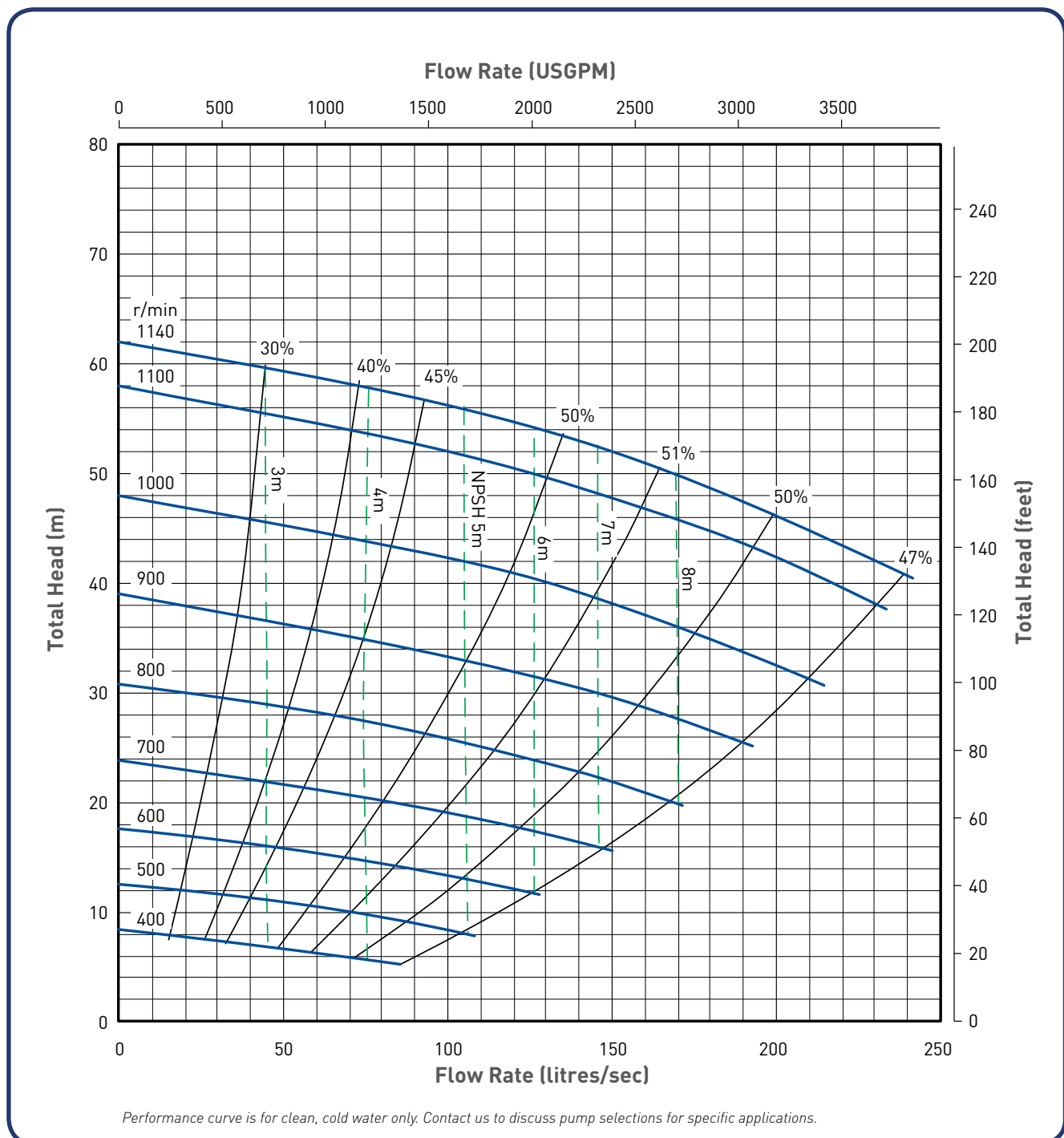


# MAH 8x6

## METAL LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material        | Impeller/ Vane Dia. (mm) | Wear Liner Material      |
|--------------------|---------------|----------------|------------------------|----------|--------------|--------------------------|--------------------------|--------------------------|
| 200/150            | E             | 120            | 63                     | F6147    | 5            | 27% Chrome<br>White Iron | 510                      | 27% Chrome<br>White Iron |
|                    | R             | 300            |                        |          |              |                          |                          |                          |
|                    | X (406)       | 300            |                        |          |              |                          |                          |                          |

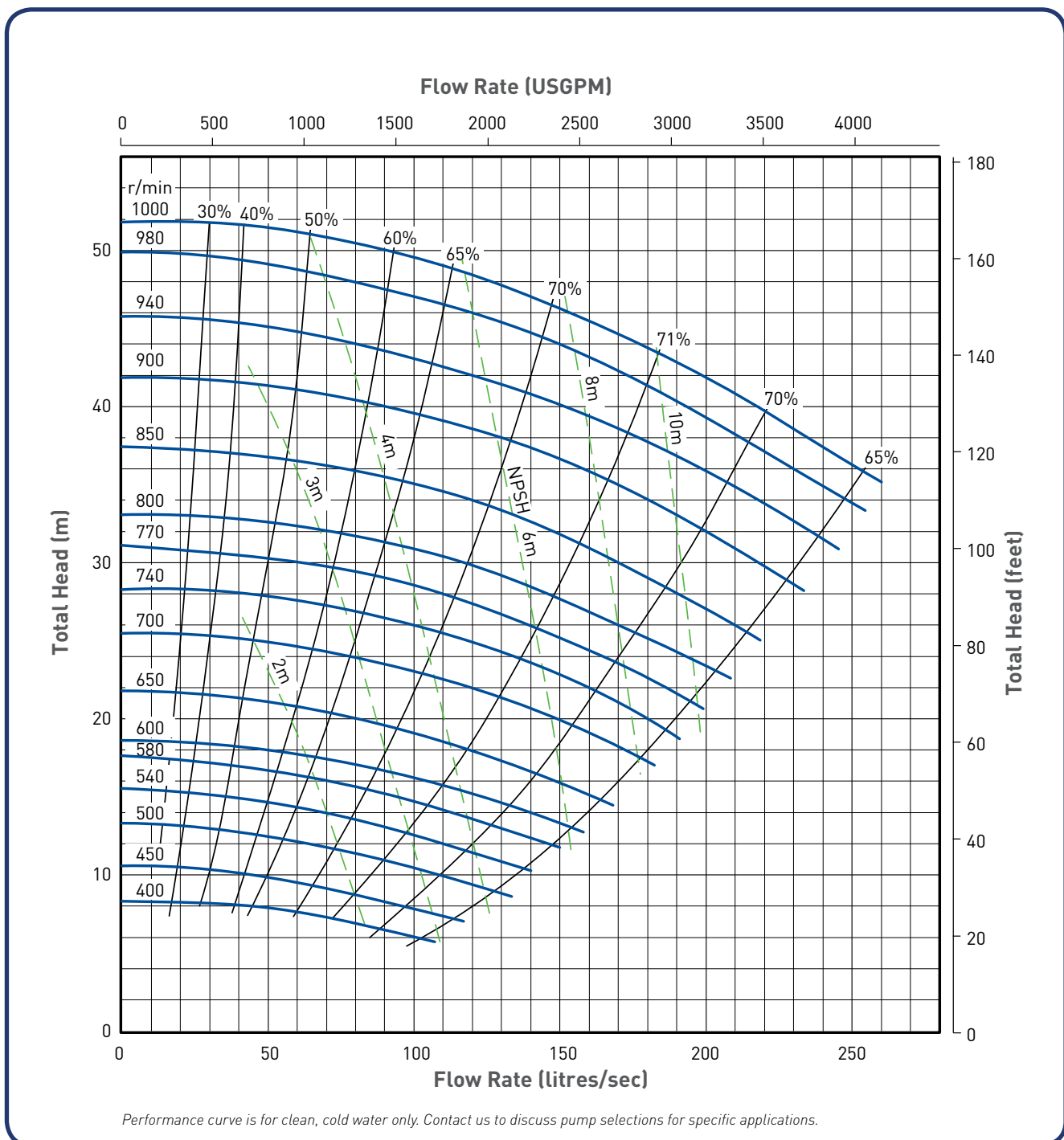


# MAH 8x6

## RUBBER LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material               | Impeller/ Vane Dia. (mm) | Wear Liner Material |
|--------------------|---------------|----------------|------------------------|----------|--------------|---------------------------------|--------------------------|---------------------|
| 200/150            | E             | 120            | 59                     | F6147    | 5            | Rubber Lined High Tensile Steel | 510                      | Rubber              |
|                    | R             | 300            |                        |          |              |                                 |                          |                     |
|                    |               |                |                        |          |              |                                 |                          |                     |

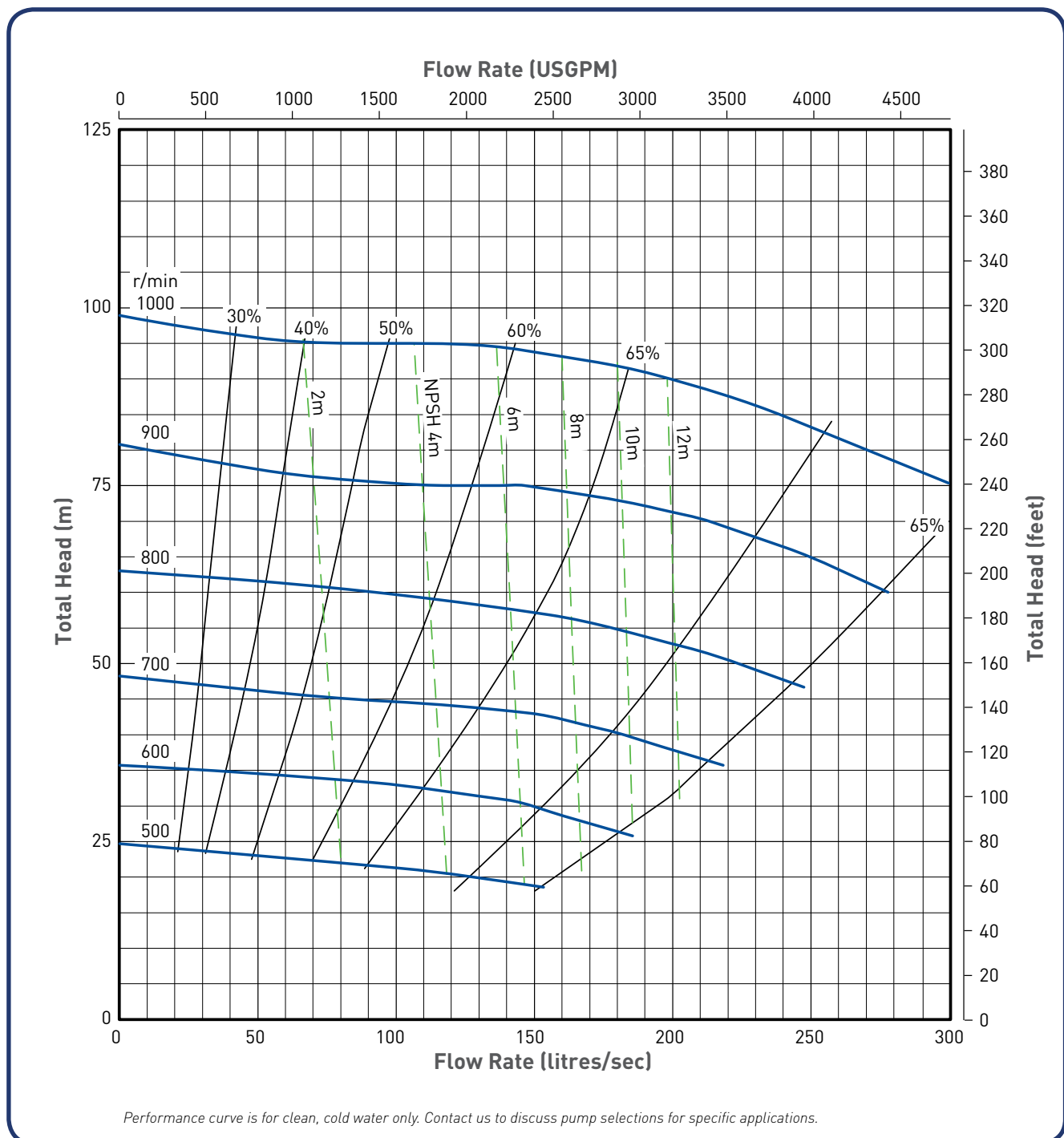


# MHH 8x6

## HIGH HEAD SLURRY PUMP

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material        | Impeller/ Vane Dia. (mm) | Wear Liner Material      |
|--------------------|---------------|----------------|------------------------|----------|--------------|--------------------------|--------------------------|--------------------------|
| 200/150            | S             | 560            | 70                     | FH6145   | 5            | 27% Chrome<br>White Iron | 740/711                  | 27% Chrome<br>White Iron |
|                    | T             | 560            |                        |          |              |                          |                          |                          |
|                    |               |                |                        |          |              |                          |                          |                          |



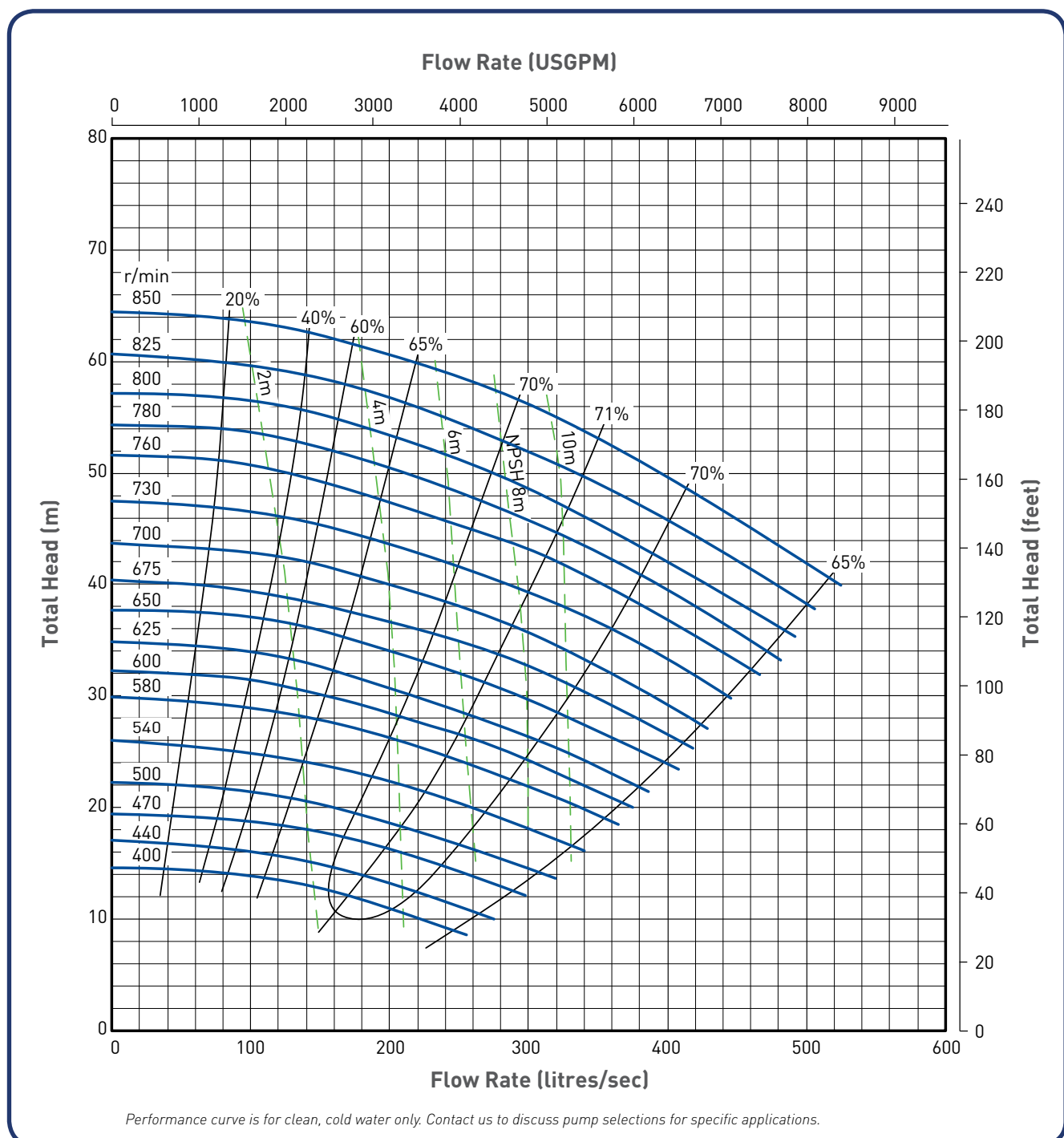


# MAH 10x8

## METAL LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller         | No. of Vanes | Impeller Material        | Impeller/ Vane Dia. (mm) | Wear Liner Material      |
|--------------------|---------------|----------------|------------------------|------------------|--------------|--------------------------|--------------------------|--------------------------|
| 250/200            | F             | 260            | 76                     | FAM8147<br>G8147 | 5            | 27% Chrome<br>White Iron | 686                      | 27% Chrome<br>White Iron |
|                    | ST            | 560            |                        |                  |              |                          |                          |                          |
|                    | X (743)       | 710            |                        |                  |              |                          |                          |                          |

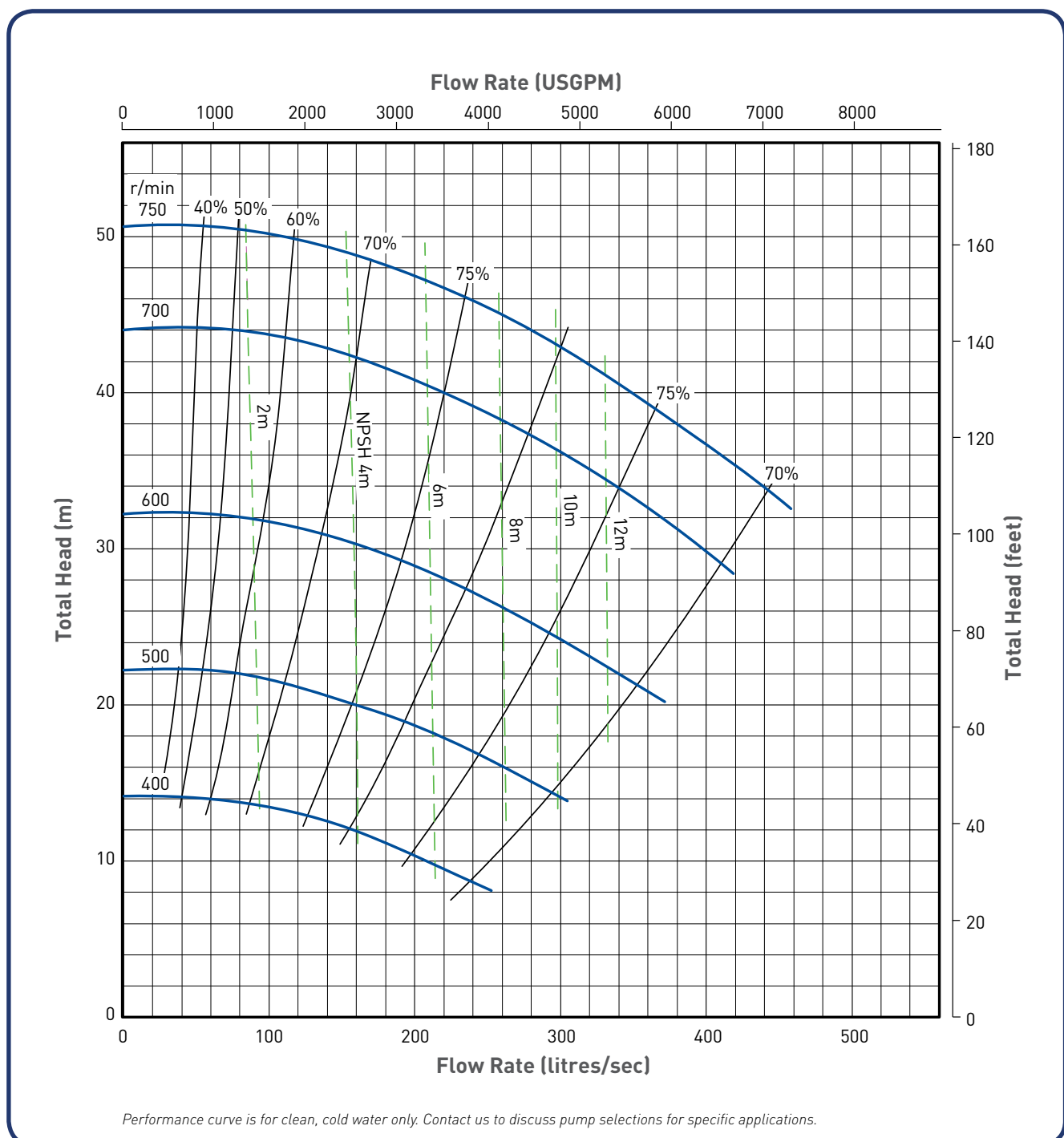


# MAH 10x8

## RUBBER LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material               | Impeller/ Vane Dia. (mm) | Wear Liner Material |
|--------------------|---------------|----------------|------------------------|----------|--------------|---------------------------------|--------------------------|---------------------|
| 250/200            | F             | 260            | 76                     | FAM8147  | 5            | Rubber Lined High Tensile Steel | 686                      | Rubber              |
|                    | ST            | 560            |                        |          |              |                                 |                          |                     |



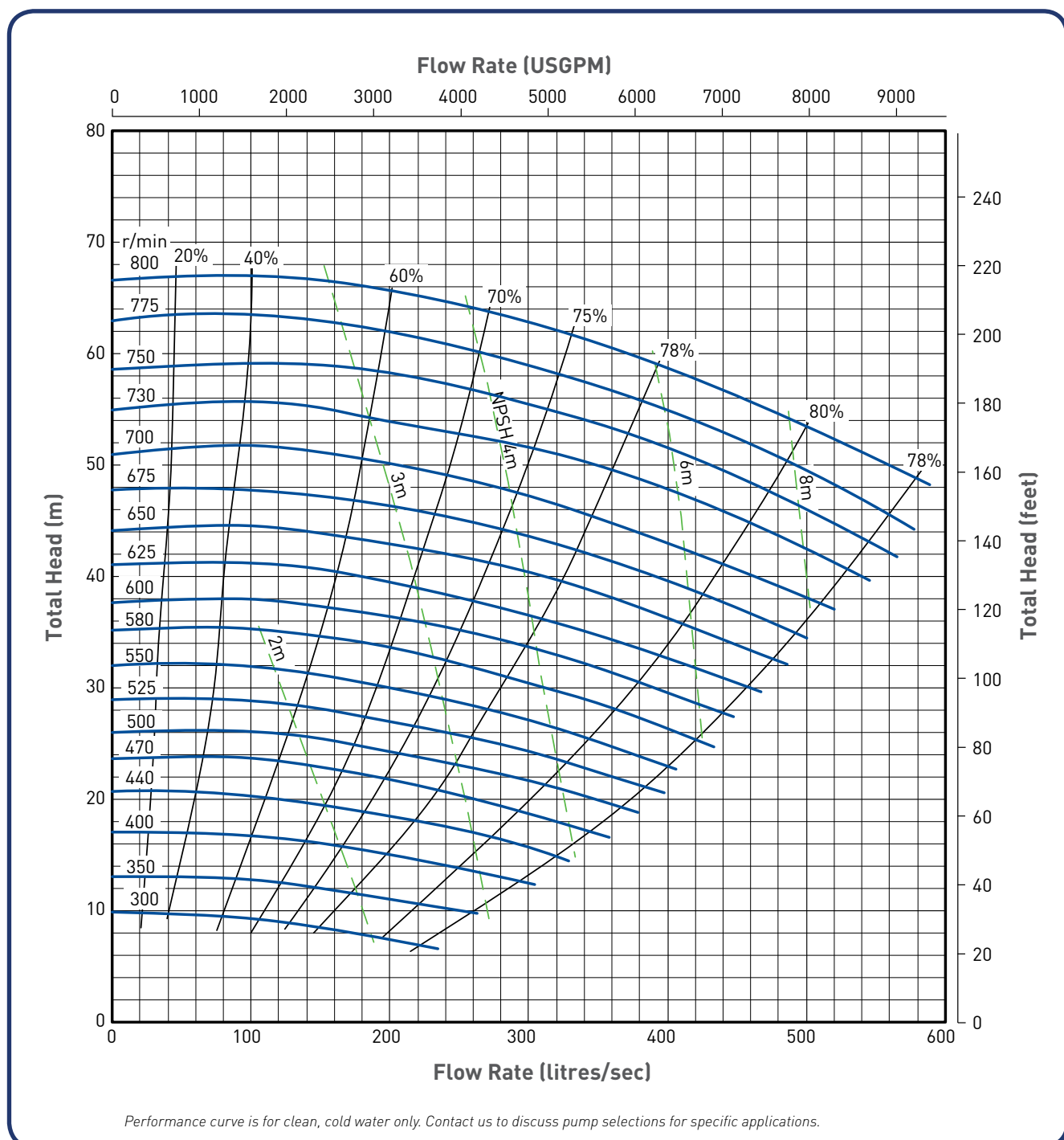
Performance curve is for clean, cold water only. Contact us to discuss pump selections for specific applications.

# MAH 12x10

## METAL LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller           | No. of Vanes | Impeller Material        | Impeller/ Vane Dia. (mm) | Wear Liner Material      |
|--------------------|---------------|----------------|------------------------|--------------------|--------------|--------------------------|--------------------------|--------------------------|
| 300/250            | ST            | 560            | 86                     | FAM10147<br>G10147 | 5            | 27% Chrome<br>White Iron | 762                      | 27% Chrome<br>White Iron |
|                    | X (743)       | 560            |                        |                    |              |                          |                          |                          |
|                    |               |                |                        |                    |              |                          |                          |                          |



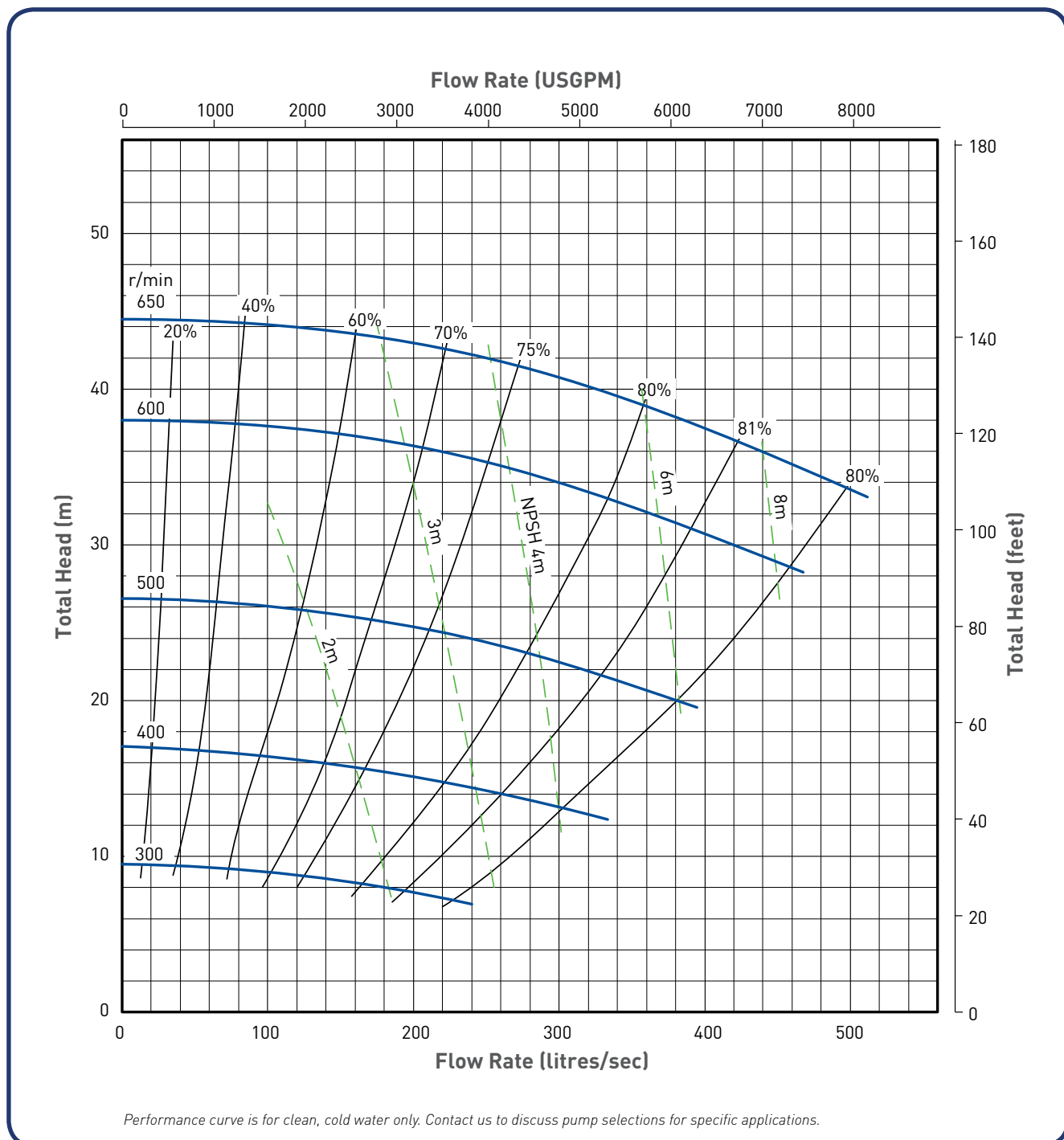
Performance curve is for clean, cold water only. Contact us to discuss pump selections for specific applications.

# MAH 12x10

## RUBBER LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material               | Impeller/ Vane Dia. (mm) | Wear Liner Material |
|--------------------|---------------|----------------|------------------------|----------|--------------|---------------------------------|--------------------------|---------------------|
| 300/250            | ST            | 560            | 86                     | G10147   | 5            | Rubber Lined High Tensile Steel | 762                      | Rubber              |
|                    | G             | 600            |                        |          |              |                                 |                          |                     |

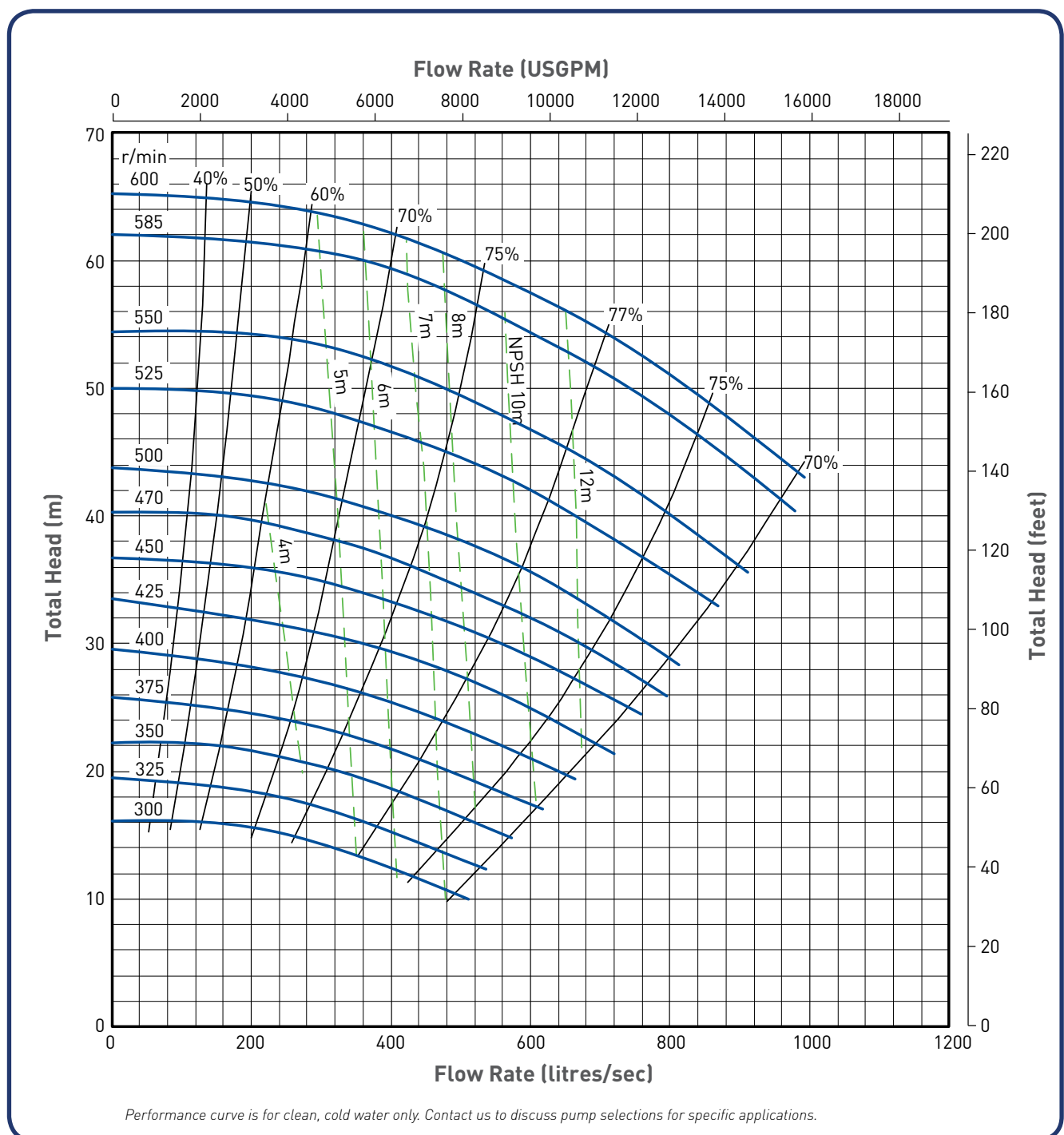


# MAH 14x12

## METAL LINER AND IMPELLER

### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller           | No. of Vanes | Impeller Material        | Impeller/ Vane Dia. (mm) | Wear Liner Material      |
|--------------------|---------------|----------------|------------------------|--------------------|--------------|--------------------------|--------------------------|--------------------------|
| 350/300            | ST            | 560            | 90                     | FAM12147<br>G12147 | 5            | 27% Chrome<br>White Iron | 965                      | 27% Chrome<br>White Iron |
|                    | T             | 1200           |                        |                    |              |                          |                          |                          |
|                    |               |                |                        |                    |              |                          |                          |                          |

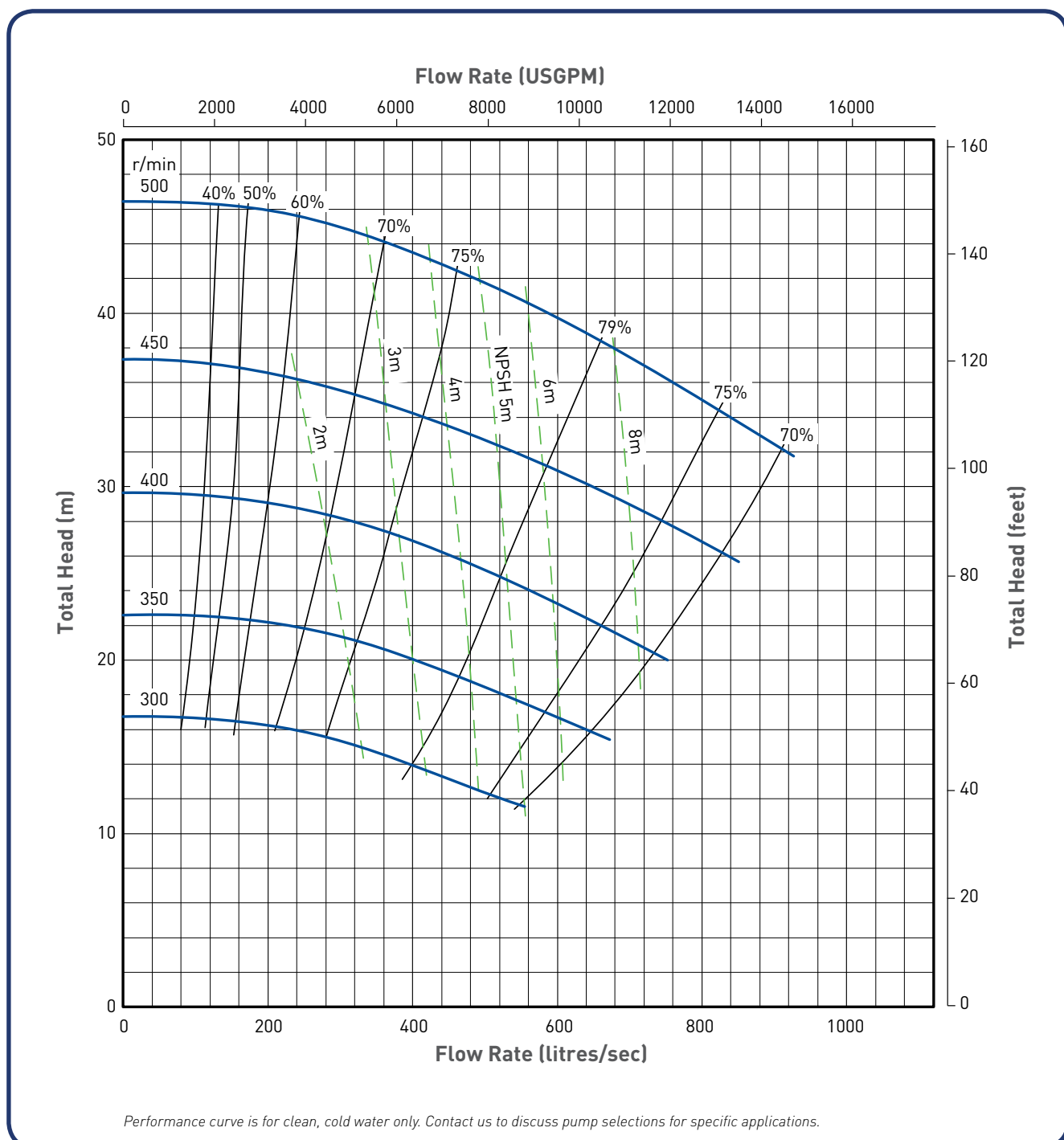


# MAH 14x12

## RUBBER LINER AND IMPELLER

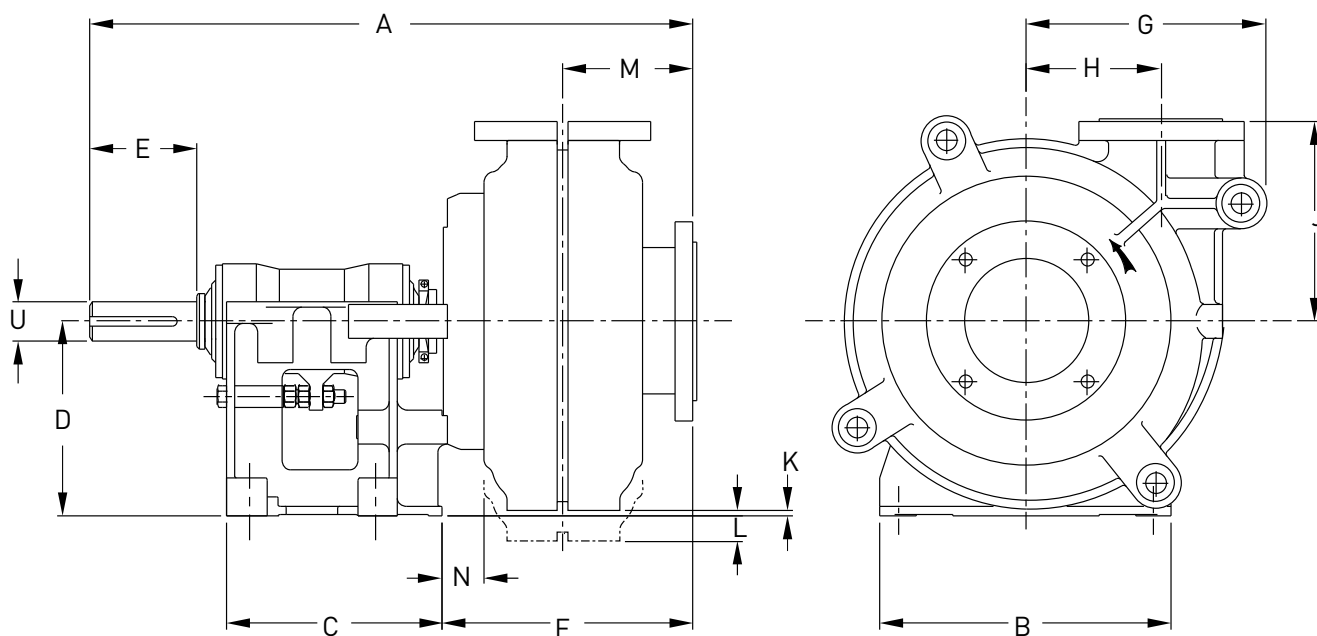
### PUMP SPECIFICATIONS

| Outlet/ Inlet (mm) | Bearing Frame | Max Power (kW) | Max Particle Size (mm) | Impeller | No. of Vanes | Impeller Material               | Impeller/ Vane Dia. (mm) | Wear Liner Material |
|--------------------|---------------|----------------|------------------------|----------|--------------|---------------------------------|--------------------------|---------------------|
| 350/300            | ST            | 560            | 104                    | G12147   | 5            | Rubber Lined High Tensile Steel | 965                      | Rubber              |
|                    | G             | 600            |                        |          |              |                                 |                          |                     |
|                    |               |                |                        |          |              |                                 |                          |                     |



# DIMENSIONS

## GENERAL ARRANGEMENT DRAWING



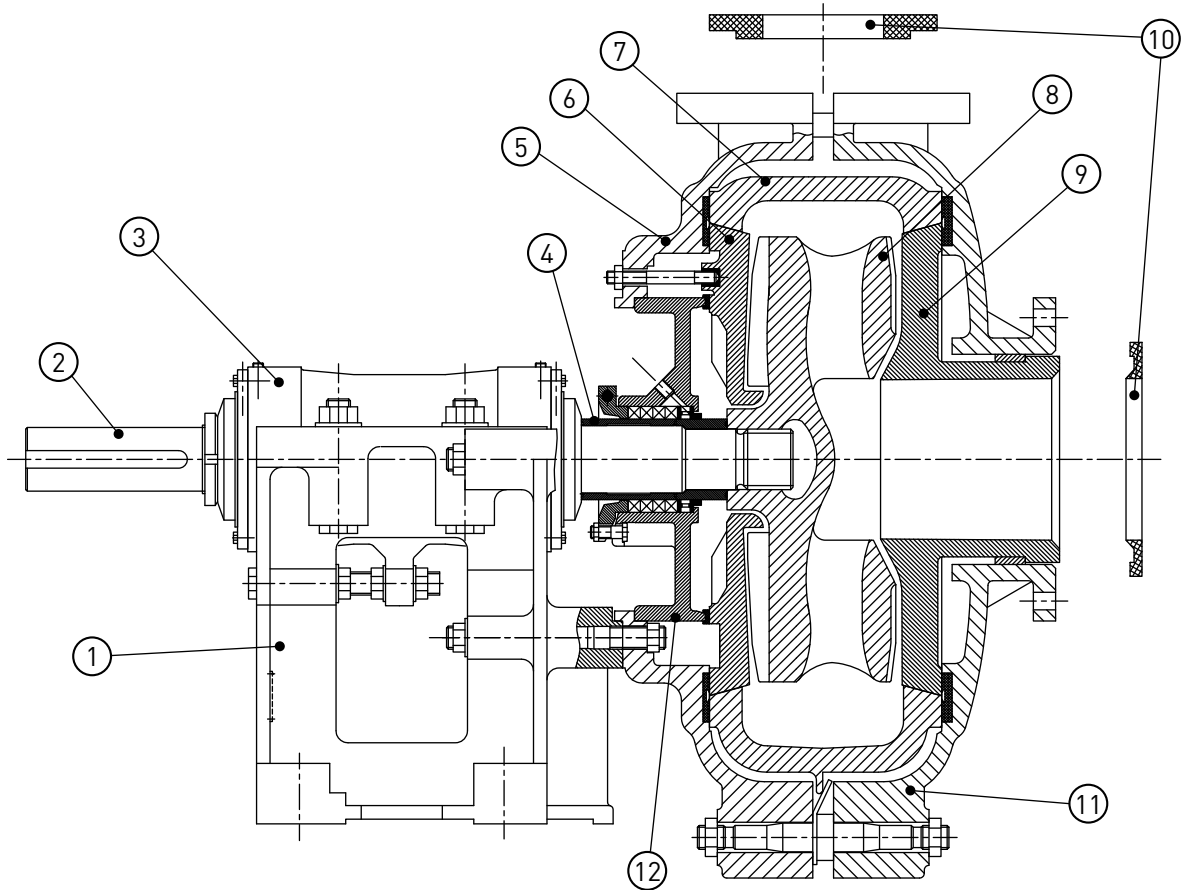
Note: Drawing is indicative only and does not accurately represent how pumps of all sizes will appear.

| Model        | Dimensions (mm) |      |      |     |       |     |      |      |     |      |     |     |     |     |     | Weight (kg) |        |
|--------------|-----------------|------|------|-----|-------|-----|------|------|-----|------|-----|-----|-----|-----|-----|-------------|--------|
|              | A               | B    | C    | D   | Key   | E   | F    | G    | H   | J    | K   | L   | M   | N   | U   | Metal       | Rubber |
| 1.5x1 B      | 583             | 295  | 248  | 197 | 8x7   | 79  | 206  | 181  | 98  | 171  | 46  | -   | 106 | 19  | 28  | 88          | 77     |
| 1.5x1 C - HH | 759             | 406  | 311  | 254 | 12x8  | 121 | 306  | 270  | 194 | 254  | -   | 11  | 121 | 66  | 42  | 318         | -      |
| 2x1.5 B      | 592             | 295  | 248  | 197 | 8x7   | 79  | 217  | 203  | 114 | 184  | 33  | -   | 114 | 22  | 28  | 156         | 118    |
| 3x2 C        | 768             | 406  | 311  | 254 | 12x8  | 121 | 280  | 238  | 138 | 210  | 71  | -   | 151 | 40  | 42  | 197         | 154    |
| 3x2 D - HH   | 986             | 492  | 364  | 330 | 18x11 | 164 | 389  | 384  | 254 | 368  | -   | 51  | 203 | 83  | 65  | 750         | -      |
| 4x3 C        | 843             | 406  | 311  | 254 | 12x8  | 121 | 353  | 292  | 149 | 262  | 24  | -   | 187 | 54  | 42  | 249         | 236    |
| 4x3 D        | 943             | 492  | 364  | 330 | 18x11 | 164 | 353  | 292  | 149 | 262  | 100 | -   | 187 | 52  | 65  | 318         | 290    |
| 4x3 E - HH   | 1240            | 622  | 448  | 457 | 22x14 | 222 | 492  | 492  | 330 | 432  | -   | 12  | 248 | 79  | 80  | 1250        | -      |
| 6x4 D        | 1021            | 492  | 364  | 330 | 18x11 | 164 | 424  | 406  | 229 | 338  | 11  | -   | 219 | 65  | 65  | 669         | 454    |
| 6x4 E        | 1178            | 622  | 448  | 457 | 22x14 | 222 | 433  | 406  | 229 | 338  | 138 | -   | 219 | 75  | 80  | 885         | 635    |
| 6x4 F - HH   | 1556            | 857  | 634  | 610 | 28x16 | 279 | 585  | 616  | 413 | 546  | -   | 134 | 305 | 75  | 100 | 3420        | -      |
| 8x6 E        | 1302            | 622  | 448  | 457 | 22x14 | 222 | 557  | 551  | 318 | 460  | -   | 62  | 292 | 82  | 80  | 1497        | 982    |
| 8x6 F        | 1507            | 857  | 635  | 610 | 28x16 | 279 | 539  | 551  | 318 | 460  | 90  | -   | 292 | 65  | 100 | 1814        | 1390   |
| 8x6 T - HH   | 2275            | 1150 | 1040 | 650 | 36x20 | 350 | 852  | 835  | 584 | 813  | -   | 160 | 394 | -   | 150 | 6900        | -      |
| 10x8 F       | 1646            | 991  | 705  | 610 | 28x16 | 279 | 683  | 673  | 419 | 635  | -   | 12  | 333 | 134 | 100 | 3193        | 2581   |
| 10x8 ST      | 1748            | 1150 | 780  | 650 | 32x18 | 280 | 692  | 673  | 419 | 635  | 27  | -   | 333 | 143 | 120 | 3742        | 3130   |
| 12x10 F      | 1721            | 991  | 705  | 610 | 28x16 | 279 | 753  | 756  | 464 | 673  | -   | 104 | 381 | 108 | 100 | 3760        | 2808   |
| 12x10 ST     | 1816            | 1150 | 780  | 650 | 32x18 | 280 | 762  | 755  | 464 | 673  | -   | 65  | 381 | 117 | 120 | 4309        | 3357   |
| 14x12 F      | 1772            | 991  | 705  | 610 | 28x16 | 279 | 803  | 937  | 629 | 832  | -   | 263 | 406 | 105 | 100 | 5847        | 4123   |
| 14x12 ST     | 1873            | 1150 | 780  | 650 | 32x18 | 280 | 812  | 937  | 629 | 832  | -   | 224 | 406 | 114 | 120 | 6396        | 4672   |
| 16x14 TU     | 2320            | 1460 | 1050 | 900 | 36x20 | 350 | 953  | 1048 | 660 | 889  | -   | 84  | 451 | 167 | 150 | 9979        | -      |
| 20x18 TU     | 2475            | 1460 | 1050 | 900 | 36x20 | 350 | 1100 | 1420 | 940 | 1230 | -   | 420 | 480 | 210 | 150 | 18864       | 15921  |



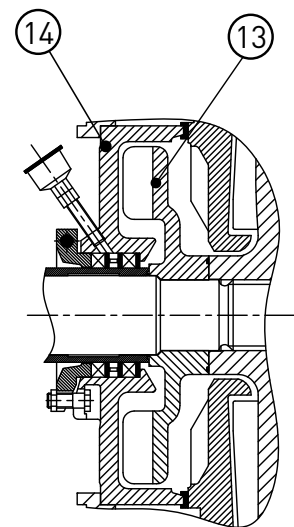
# MATERIALS

## METAL LINED PUMPS



| No. | Part Description  | Material Specification   |
|-----|-------------------|--------------------------|
| 1   | Base              | Cast Iron                |
| 2   | Shaft             | 4140 High Tensile Steel* |
| 3   | Bearing Assembly  | Timkin (Cast Iron Body)  |
| 4   | Shaft Sleeve      | 420 Stainless Steel      |
| 5   | Pump Casing       | Cast Iron                |
| 6   | Frame Plate Liner | 27% Chrome White Iron    |
| 7   | Volute Liner      | 27% Chrome White Iron    |
| 8   | Impeller          | 27% Chrome White Iron    |
| 9   | Throat Bush       | 27% Chrome White Iron    |
| 10  | Joint Rings       | Rubber                   |
| 11  | Cover Plate       | Cast Iron                |
| 12  | Stuffing Box      | Cast Iron                |
| 13  | Expeller          | 27% Chrome White Iron    |
| 14  | Expeller Ring     | Natural Rubber           |
|     | Bolts             | Zinc Plated Steel        |
|     | O-rings           | Nitrile Rubber           |
|     | Seals             | Rubber                   |

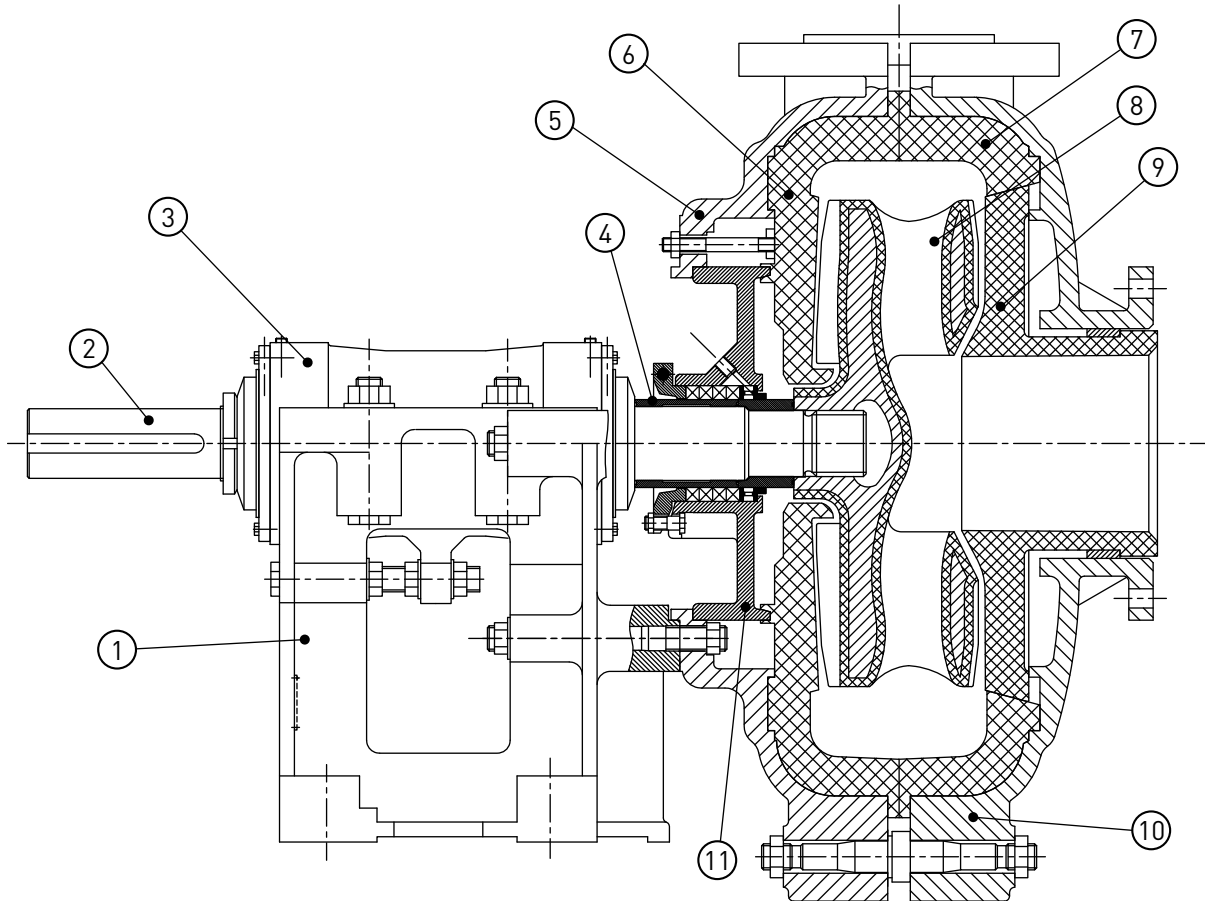
\* Other shaft material options are available.



**METAL EXPELLER**

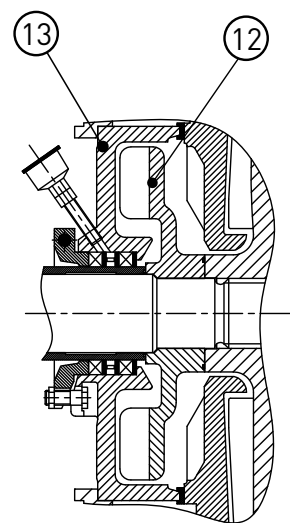
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## RUBBER LINED PUMPS



| No. | Part Description         | Material Specification           |
|-----|--------------------------|----------------------------------|
| 1   | Base                     | Cast Iron                        |
| 2   | Shaft                    | 4140 High Tensile Steel*         |
| 3   | Bearing Assembly         | Timkin (Cast Iron Body)          |
| 4   | Shaft Sleeve             | 420 Stainless Steel              |
| 5   | Pump Casing              | Cast Iron                        |
| 6   | Frame Plate Liner Insert | Rubber                           |
| 7   | Cover Plate Liner        | Rubber                           |
| 8   | Impeller                 | Rubber Coated High Tensile Steel |
| 9   | Throat Bush              | Rubber                           |
| 10  | Cover Plate              | Cast Iron                        |
| 11  | Stuffing Box             | Cast Iron                        |
| 12  | Expeller                 | 27% Chrome White Iron            |
| 13  | Expeller Ring            | Natural Rubber                   |
|     | Bolts                    | Zinc Plated Steel                |
|     | O-rings                  | Nitrile Rubber                   |
|     | Seals                    | Rubber                           |

\* Other shaft material options are available.



**METAL EXPELLER**  
**(RUBBER EXPELLER AVAILABLE)**

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