



# APEC-SUN

Stainless Steel Centrifugal Pump



## APPLICATIONS:

Civil, Agricultural, Industrial market sectors.

- Transfer of water and clean liquids which are not chemically aggressive.
- Water supply.
- Irrigation.
- General water circulation.

## FEATURES:

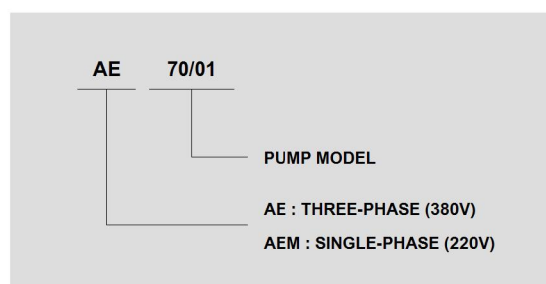
### MOTOR

- TEFC, squirrel cage, asynchronous.
- IP55 protection.
- Class F insulation.
- Standard voltage;
  - \* Single phase version: 220V, 50Hz, 2P, 2800 rpm.
  - \* Three phase version: 220-380V, 50Hz, 2P, 2800 rpm.
  - \* The overload protection must be provided by the user.

### PUMP

- Flow rate up to 15 m<sup>3</sup>/h (2800 rpm).
- Head up to 41 m (2800 rpm).
- Temperature of pumped liquid: from -10°C to 85°C.
- Maximum working pressure 8 bar (PN8).
- Anticlockwise rotation when looking at pump from suction port.
- Close-coupled, single-impeller, centrifugal pump with axial suction and radial delivery.
- Compact design, pump and motor directly coupled; extended motor shaft supported by bearings.
- Back pull-out. No need to remove pump body from the pipeline for maintenance.
- High performance shrouded-type impeller in AISI 304 stainless steel keyed to motor shaft extension.
- Mechanical seal with carbon/ceramic elastomers in NBR, other parts are in AISI 304 stainless steel.
- O-Ring in NBR.
- Support: feet on motor.

## TYPE DESCRIPTION:



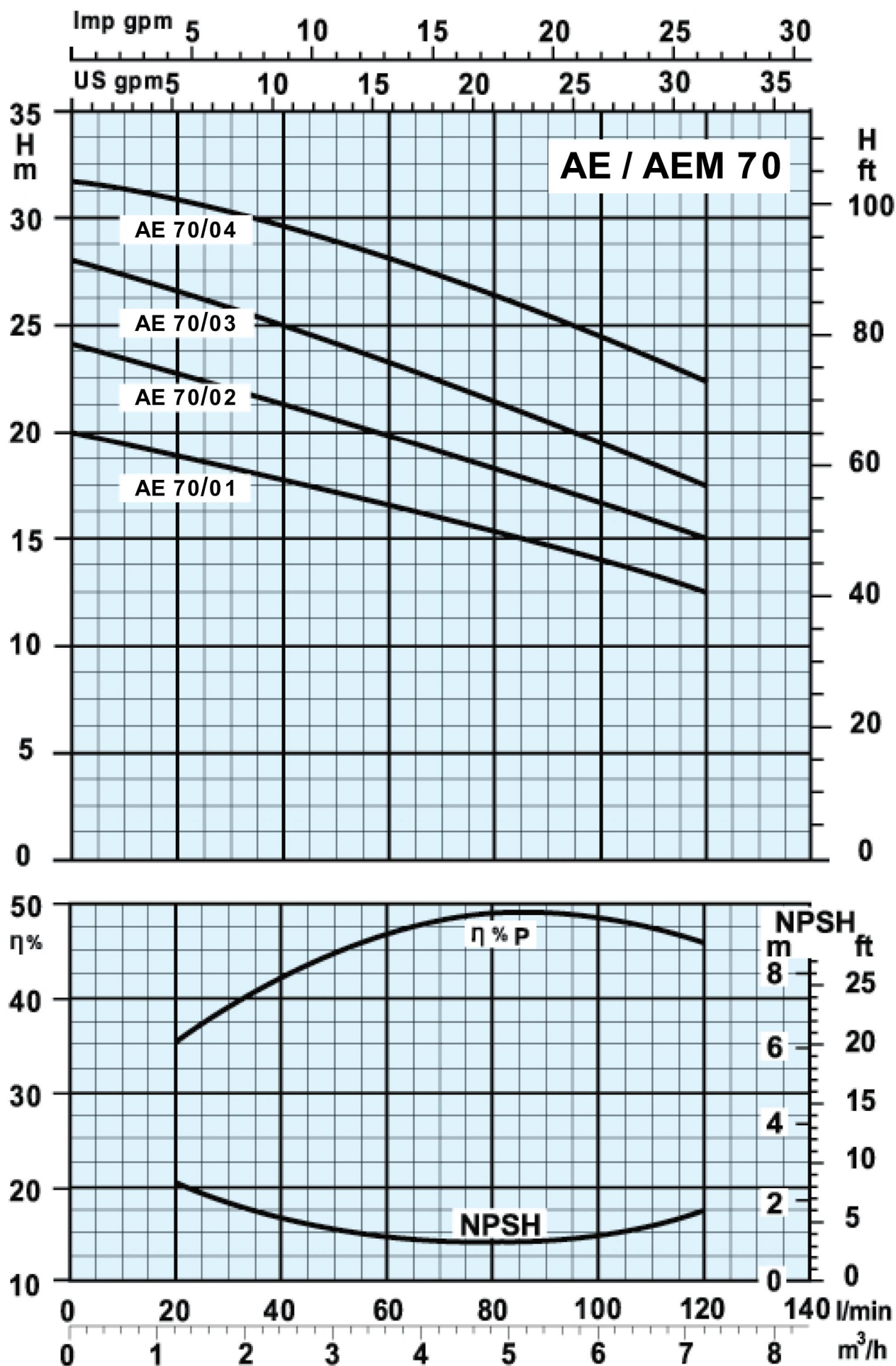
## CONSTRUCTION:

| NAME                 | MATERIAL                        |
|----------------------|---------------------------------|
| Pump Casing          | CrNi (AISI 304) Stainless Steel |
| Impeller             | CrNi (AISI 304) Stainless Steel |
| Seal Housing         | CrNi (AISI 304) Stainless Steel |
| Motor Adapter        | Aluminium                       |
| O-Ring               | Nitrile Rubber                  |
| Mechanical Seal      | Carbon / Ceramic Rubber         |
| Shaft                | CrNi (AISI 304) Stainless Steel |
| Fill and Drain Plugs | CrNi (AISI 304) Stainless Steel |

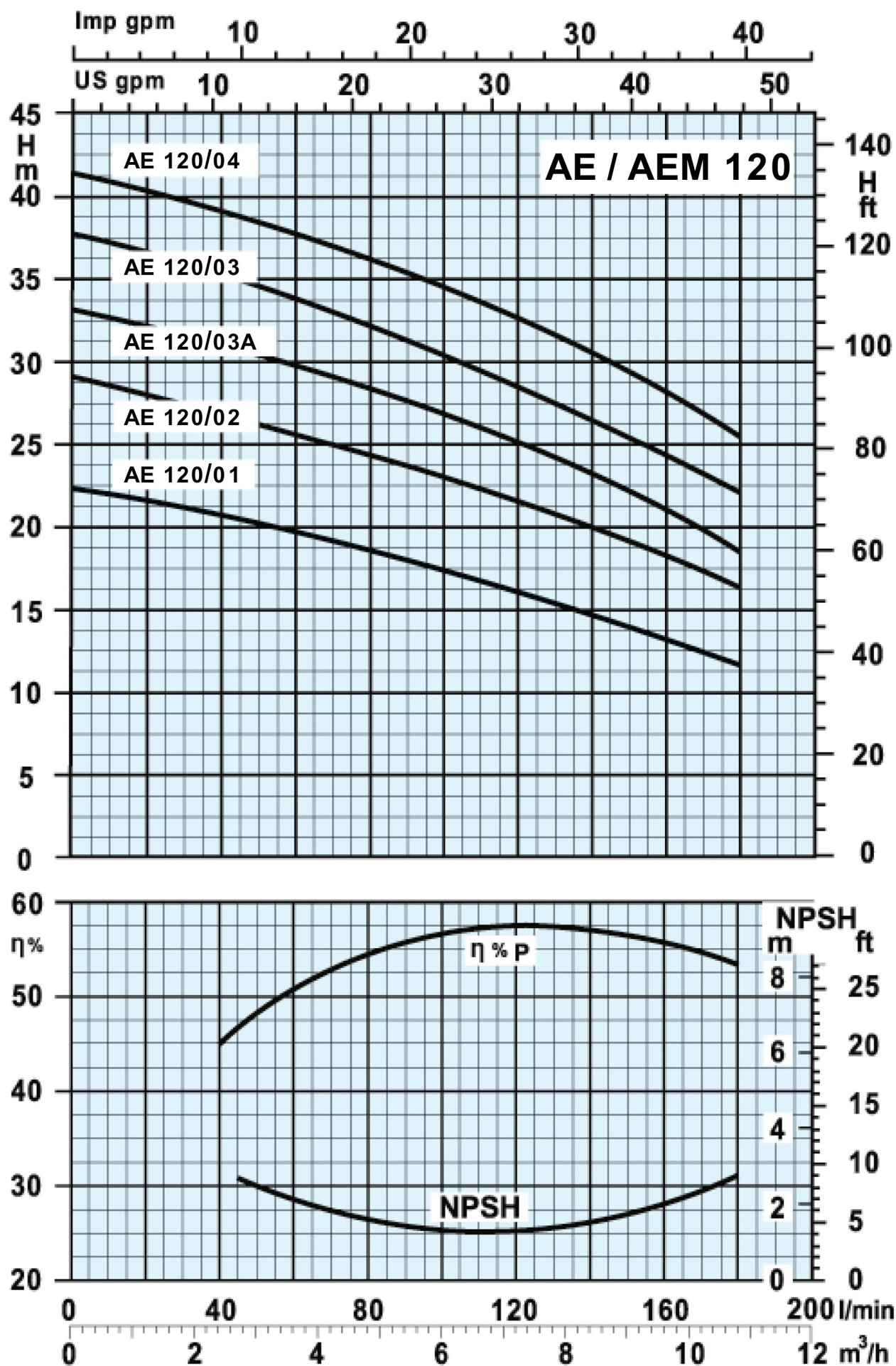
## PERFORMANCE PARAMETER:

| PUMP MODEL                | POWER |     | CAPACITY (l/min) |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------|-------|-----|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                           |       |     | 0                | 20   | 40   | 60   | 80   | 100  | 120  | 140  | 160  | 180  | 200  | 220  | 240  | 260  |
|                           | KW    | HP  | HEAD (m)         |      |      |      |      |      |      |      |      |      |      |      |      |      |
| AE 70/01<br>AEM 70/01     | 0.37  | 0.5 | 20.0             | 18.7 | 17.5 | 16.3 | 15.0 | 13.8 | 12.5 |      |      |      |      |      |      |      |
| AE 70/02<br>AEM 70/02     | 0.55  | 0.8 | 23.8             | 22.5 | 21.3 | 20.0 | 18.7 | 16.5 | 15.0 |      |      |      |      |      |      |      |
| AE 70/03<br>AEM 70/03     | 0.75  | 1.0 | 27.6             | 26.2 | 25.0 | 23.2 | 21.5 | 19.5 | 17.2 |      |      |      |      |      |      |      |
| AE 70/04<br>AEM 70/04     | 0.90  | 1.2 | 31.3             | 30.5 | 28.8 | 27.5 | 26.0 | 24.0 | 21.9 |      |      |      |      |      |      |      |
| AE 120/01<br>AEM 120/01   | 0.75  | 1.0 | 22.5             | 21.2 | 20.5 | 19.5 | 18.5 | 17.2 | 16.5 | 14.5 | 13.0 | 11.5 |      |      |      |      |
| AE 120/02<br>AEM 120/02   | 1.10  | 1.5 | 29.1             | 28.1 | 26.9 | 25.7 | 24.4 | 23.0 | 21.6 | 20.0 | 18.3 | 16.4 |      |      |      |      |
| AE 120/03A<br>AEM 120/03A | 1.50  | 2.0 | 37.5             | 33.8 | 31.3 | 29.8 | 28.2 | 26.5 | 25.0 | 23.5 | 21.5 | 20.0 |      |      |      |      |
| AE 120/03<br>AEM 120/03   | 1.50  | 2.0 | 37.8             | 36.6 | 35.2 | 33.7 | 32.1 | 30.4 | 28.5 | 26.5 | 24.4 | 22.2 |      |      |      |      |
| AE 120/04<br>AEM 120/04   | 1.85  | 2.5 | 41.4             | 40.3 | 39.1 | 37.7 | 36.2 | 34.5 | 32.6 | 30.5 | 28.2 | 25.5 |      |      |      |      |
| AE 200/01A<br>AEM 200/01A | 1.10  | 1.5 | 21.3             | 20.3 | 19.8 | 19.0 | 18.2 | 17.5 | 16.9 | 16.0 | 15.0 | 14.0 | 13.0 | 11.8 | 10.6 | 9.0  |
| AE 200/01<br>AEM 200/01   | 1.10  | 1.5 | 23.2             | 22.6 | 21.9 | 21.2 | 20.5 | 19.8 | 19.0 | 18.1 | 17.3 | 16.3 | 15.3 | 14.1 | 12.9 | 11.4 |
| AE 200/02<br>AEM 200/02   | 1.50  | 2.0 | 27.7             | 27.0 | 26.3 | 25.6 | 24.8 | 24.0 | 23.1 | 22.3 | 21.3 | 20.3 | 19.2 | 18.1 | 16.8 | 15.4 |
| AE 200/03<br>AEM 200/03   | 1.85  | 2.5 | 32.1             | 31.5 | 30.9 | 30.2 | 29.5 | 28.8 | 28.0 | 27.2 | 26.3 | 25.4 | 24.5 | 23.5 | 22.3 | 21.0 |

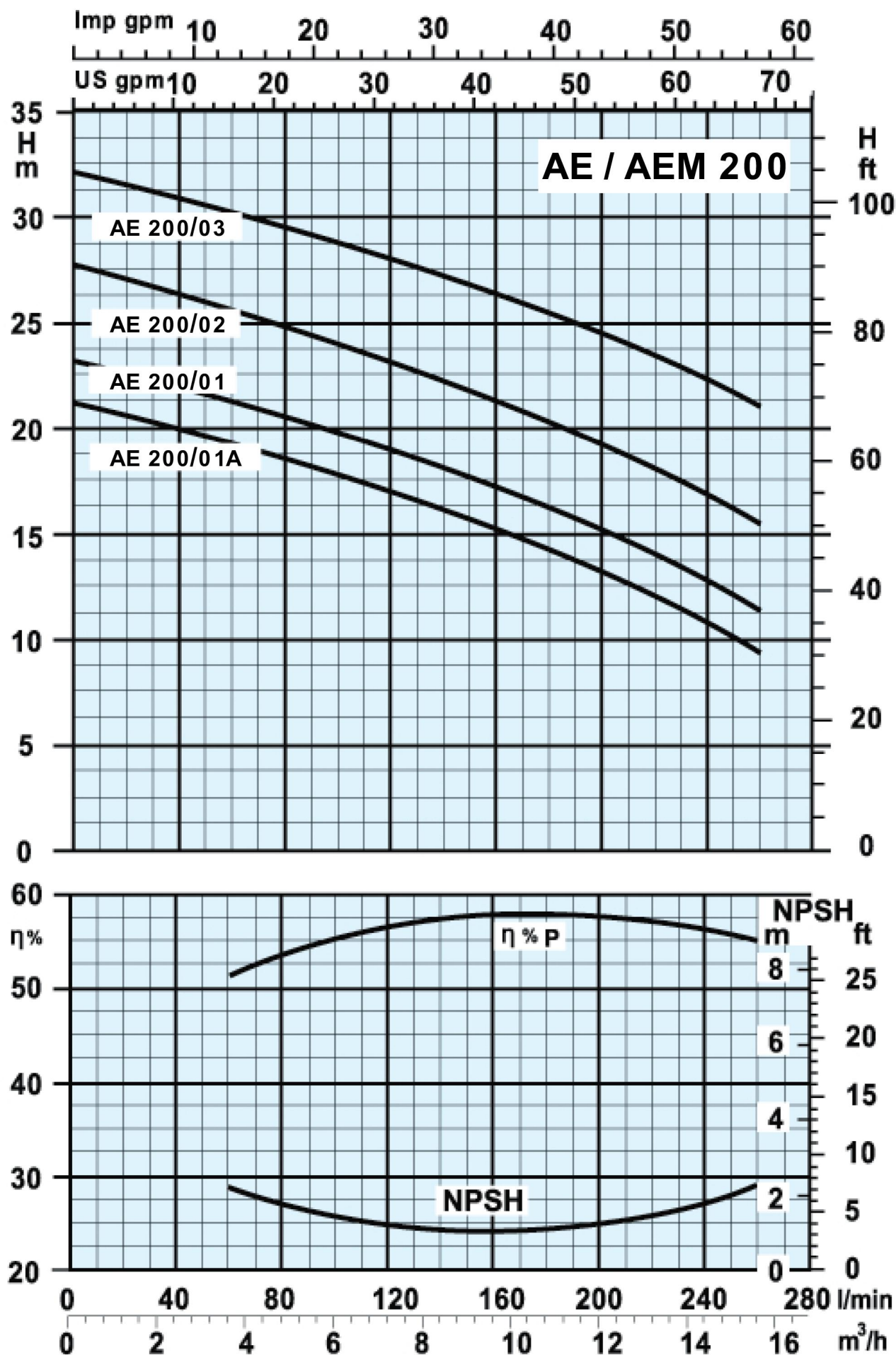
**PERFORMANCE CHART:**



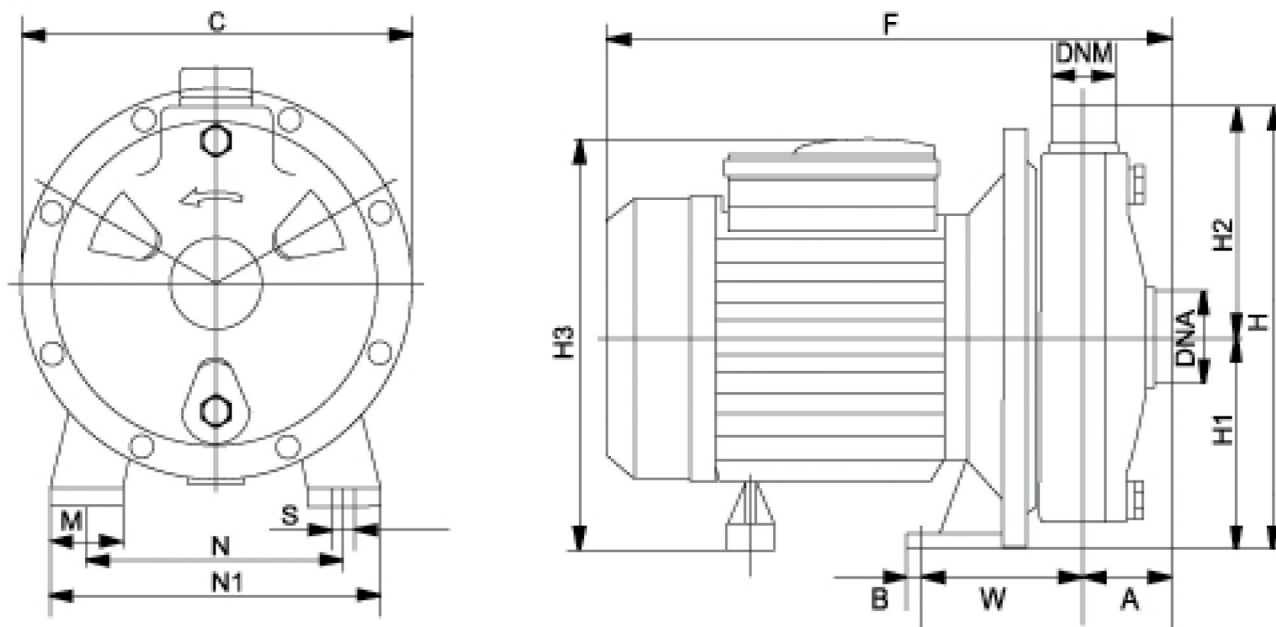
**PERFORMANCE CHART:**



**PERFORMANCE CHART:**



## INSTALLATION DIMENSION:



| PUMP MODEL                | DIMENSION (mm) |     |     |     |     |     |     |    |     |     |    |      |    |        |     | WEIGHT |
|---------------------------|----------------|-----|-----|-----|-----|-----|-----|----|-----|-----|----|------|----|--------|-----|--------|
|                           | A              | C   | F   | H   | H1  | H2  | H3  | M  | N   | N1  | S  | W    | B  | DNA    | DNM | KG     |
| AE 70/01<br>AEM 70/01     | 47             | 213 | 313 | 222 | 110 | 112 | 220 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/4" | 1"  | 10     |
| AE 70/02<br>AEM 70/02     | 47             | 213 | 313 | 222 | 110 | 112 | 220 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/4" | 1"  | 11     |
| AE 70/03<br>AEM 70/03     | 47             | 213 | 313 | 222 | 110 | 112 | 220 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/4" | 1"  | 12     |
| AE 70/04<br>AEM 70/04     | 47             | 213 | 313 | 222 | 110 | 112 | 220 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/4" | 1"  | 13     |
| AE 120/01<br>AEM 120/01   | 47             | 213 | 313 | 222 | 110 | 112 | 220 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/4" | 1"  | 11     |
| AE 120/02<br>AEM 120/02   | 47             | 213 | 313 | 222 | 110 | 112 | 234 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/4" | 1"  | 12.5   |
| AE 120/03A<br>AEM 120/03A | 49             | 234 | 373 | 240 | 120 | 120 | 251 | 40 | 140 | 180 | 12 | 93.5 | 12 | 1 1/4" | 1"  | 16     |
| AE 120/03<br>AEM 120/03   | 49             | 234 | 373 | 240 | 120 | 120 | 251 | 40 | 140 | 180 | 12 | 93.5 | 12 | 1 1/4" | 1"  | 16     |
| AE 120/04<br>AEM 120/04   | 49             | 234 | 373 | 240 | 120 | 120 | 251 | 40 | 140 | 180 | 12 | 93.5 | 12 | 1 1/4" | 1"  | 17     |
| AE 200/01A<br>AEM 200/01A | 46             | 213 | 313 | 222 | 110 | 112 | 234 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/2" | 1"  | 12.5   |
| AE 200/01<br>AEM 200/01   | 46             | 213 | 313 | 222 | 110 | 112 | 234 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/2" | 1"  | 12.5   |
| AE 200/02<br>AEM 200/02   | 46             | 213 | 366 | 240 | 110 | 112 | 241 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/2" | 1"  | 15.5   |
| AE 200/03<br>AEM 200/03   | 46             | 213 | 366 | 240 | 110 | 112 | 241 | 40 | 140 | 180 | 12 | 86.5 | 12 | 1 1/2" | 1"  | 16.5   |