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| CDX 70/076-0.75 HP<br>CDX 70/106-1HP<br>CDX 70/156-1.5HP<br>CDX 120/106-1HP<br>CDX 120/156-1.5HP<br>CDX 120/206-2HP<br>CDX 200/156-1.5HP<br>CDX 200/206-2HP<br>CDX 200/306-3HP | 304 | 313 | 314 | 319 | 320 |

NSF Certified to NSF/ANSI 61, ANNEX G

***Note:** Model CDU NSF/ANSI 61 Annex G listed*

## Model Designation

| CDU | | 70/1 | 7 | D | 1 | C |
|---|---|---|---|---|---|---|

**Model Type**

**CDU –** Stainless Steel Centrifugal

**Speed**

**(none) –** 3500 RPM
**4 –** 1800 RPM

**Casing and Impeller Size**

| | | |
|---|---|---|
| **70/1** | **120/1** | **200/1** |
| **70/3** | **120/3** | **200/3** |
| **70/5** | **120/5** | **200/5** |

**Motor HP**

**7 –** ¾ HP
**10 –** 1 HP
**15 –** 1 ½ HP
**20 –** 2 HP
**30 –** 3 HP

**Motor Enclosure**

**D –** ODP
**T –** TEFC
**X –** Explosion Proof

**Phase**

**1 –** Single Phase
**3 –** Three Phase

**Mechanical Seal Type**

**C –** Carbon/Ceramic/Viton (Cup Seat)
**G –** Carbon/Ceramic/Buna (Cup Seat)
**H –** Carbon/Ni-resist/Viton (Cup Seat)
**GO –** Carbon/Ceramic/Buna (O-Ring Seat)
**CO –** Carbon/Ceramic/Viton (O-Ring Seat)
**HO –** Carbon/Ni-resist/Viton (O-Ring Seat)
**EPDM –** Carbon/Ceramic/EPDM (Cup Seat)
**SCSCV –** Si-Carbide/Si-Carbide/Viton (O-Ring Seat)

## Model Designation




**MODEL TYPE**

**CDX –** Single stage pump

**PHASE DESIGNATION**

**M –** Single Phase

**(none) –** Three Phase

**HOUSING AND IMPELLER NUMBER**

**70/**

**120/**

**200/**

**RATED HP**

**07 – 3/4 HP**

**10 – 1 HP**

**20 – 2HP**

**30 – 3HP**

**HERTZ**

**6 – 60Hz**

**PHASE/VOLT**

**S1 – single phase, 115 Volt**

**S2 – single phase, 230 Volt**

**T2 – three phase, 230/460 Volt**

## Specifications

| | Standard | Optional |
|---|---|---|
| **Size** | | |
| Suction | CDU70 – 1¼" NPT thread<br>CDU120 – 1¼" NPT thread<br>CDU200 – 1½" NPT thread | |
| Discharge | 1" NPT thread | |
| **Range of HP** | ¾ HP to 3 HP | |
| **Range of Performance** | | |
| Capacity | 5.5 to 95 GPM at 3450 RPM | |
| Head | 26 to 144 feet at 3450 RPM | |
| **Liquid handled** | | |
| Type of liquid | Water | |
| Temperature | 212°F (100°C) | Max. 250°F (121°C) with optional high temperature seal |
| Max. working pressure | 125 PSI (9 Bar) | |
| **Materials** | | |
| Casing | 304L Stainless Steel | |
| Impeller (closed type) | 304L Stainless Steel | |
| Shaft | Stainless Steel | |
| Bracket | Aluminum | |
| Shaft Seal | Mechanical Seal – Type 21 | High temperature version<br>Mild chemical version |
| Bearing | Ball Bearing | |
| **Direction of Rotation** | Clockwise when viewed from motor end | |
| **Motor** | | |
| Type | NEMA 56J Frame | |
| Speed | 60 Hz, 3450 RPM (2 poles) | |
| Single Phase | TEFC – ¾ HP to 3 HP | |
| | ODP – ¾ HP to 3 HP, 115/230V | Explosion proof – consult factory |
| Three Phase | TEFC – ¾ HP to 3 HP | Washdown duty – consult factory |
| | ODP – ¾ HP to 3 HP, 208-230/460V | |
| Motor Protection | Built-in overload protection (single phase) | |

## Model CDX — EBARA Stainless Steel Centrifugal Pumps

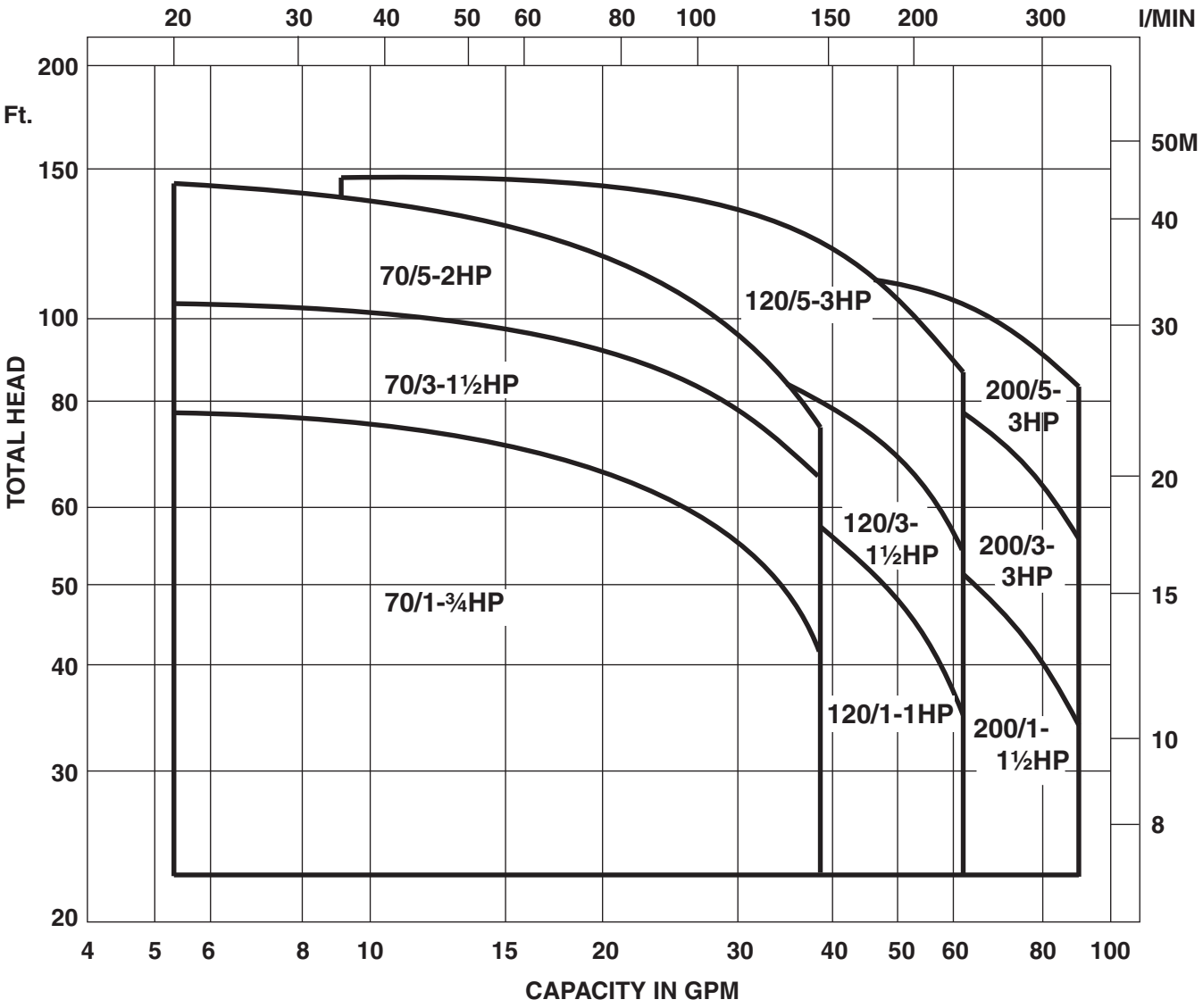
## Specifications

| | Standard | Optional |
|---|---|---|
| **Size** | | |
| Suction | 1¼" NPT Thread<br>1½" NPT Thread | |
| Discharge | 1" NPT Thread | |
| **Range of HP** | ¾ HP to 3 HP | |
| **Range of Performance** | | |
| Capacity | 5.5 to 68 GPM at 3600 RPM | |
| Head | 40 to 130 feet at 3600 RPM | |
| **Liquid handled** | | |
| Type of liquid | Clean water | |
| Temperature | Maximum: 140°F (60°C) | |
| Working pressure | Maximum: 8 PSI | |
| **Materials** | | |
| Casing | 304 Stainless Steel | |
| Impeller (closed type) | 304 Stainless Steel | |
| Shaft | 303 Stainless Steel | |
| Bracket | Aluminum | |
| Shaft Seal | Mechanical Seal<br>Carbon/Ceramic/NBR | Consult factory for additional seal options |
| **Direction of Rotation** | Clockwise when viewed from motor end | |
| **Motor** | | |
| Type | TEFC/IP55 | |
| Speed | 60 Hz, 3600 RPM (2 poles) | |
| Single Phase | 230V | |
| Three Phase | 230/460V | |
| Motor Protection | Built-in overload protection (single phase) | |
| Bearing | Sealed Ball Bearing | |

## Model CDU — EBARA Stainless Steel Centrifugal Pumps

### Selection Chart

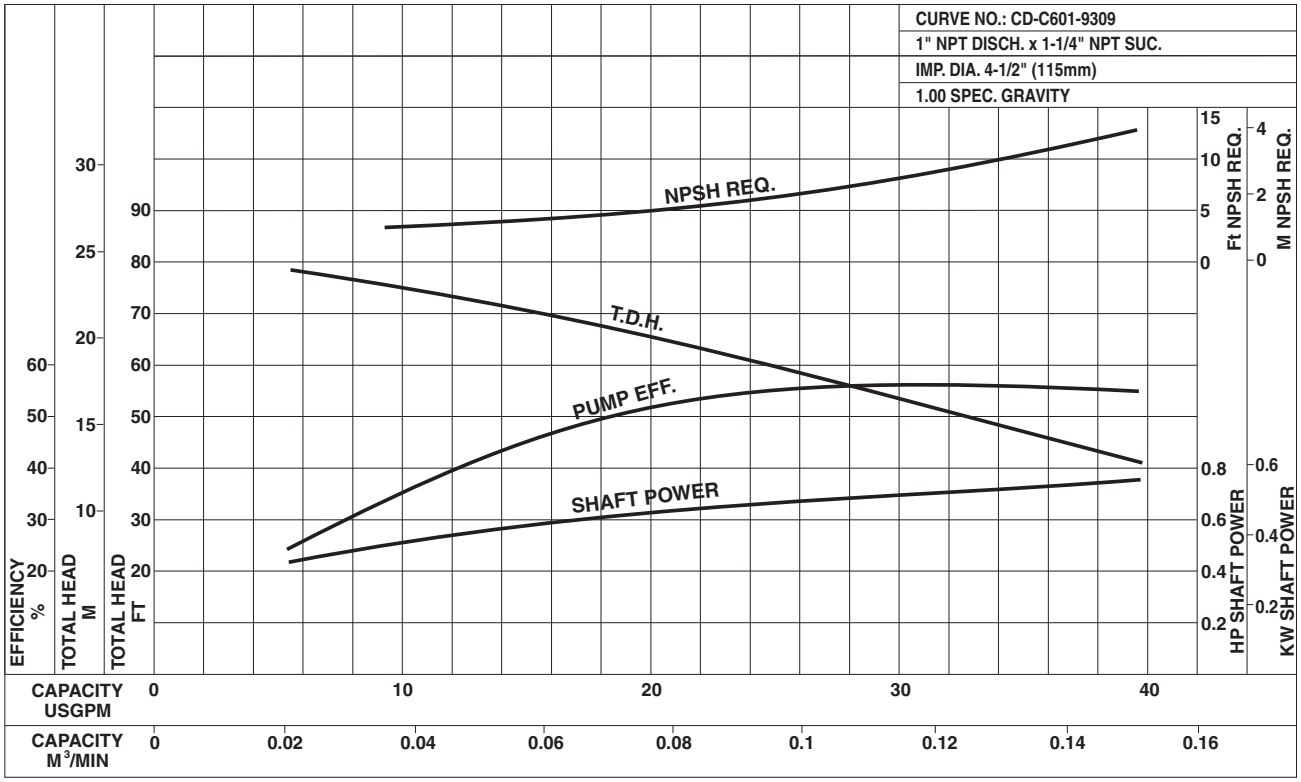
### Synchronous Speed 3450 RPM



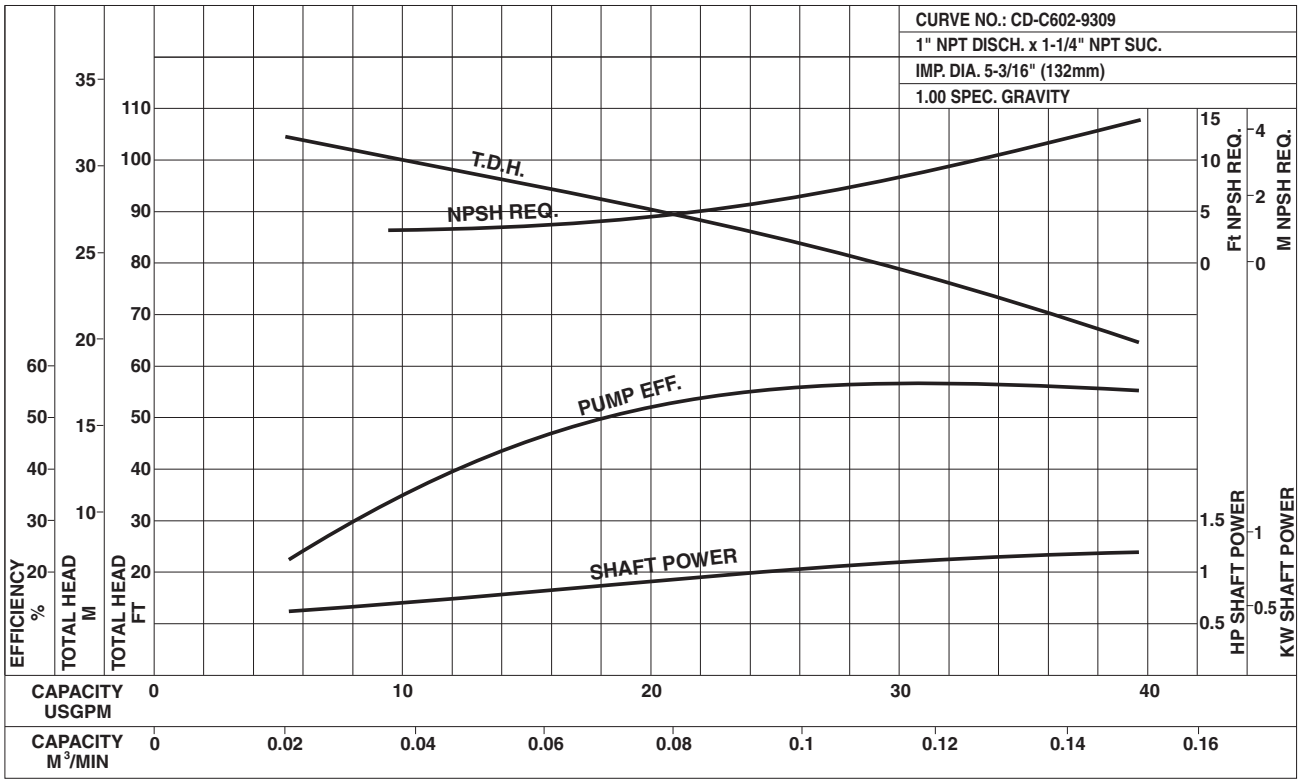
## Model CDU — EBARA Stainless Steel Centrifugal Pumps

## Performance Curves

### CDU70/1-¾ HP — Synchronous Speed: 3450 RPM — Size: 1 x 1¼ x 4½



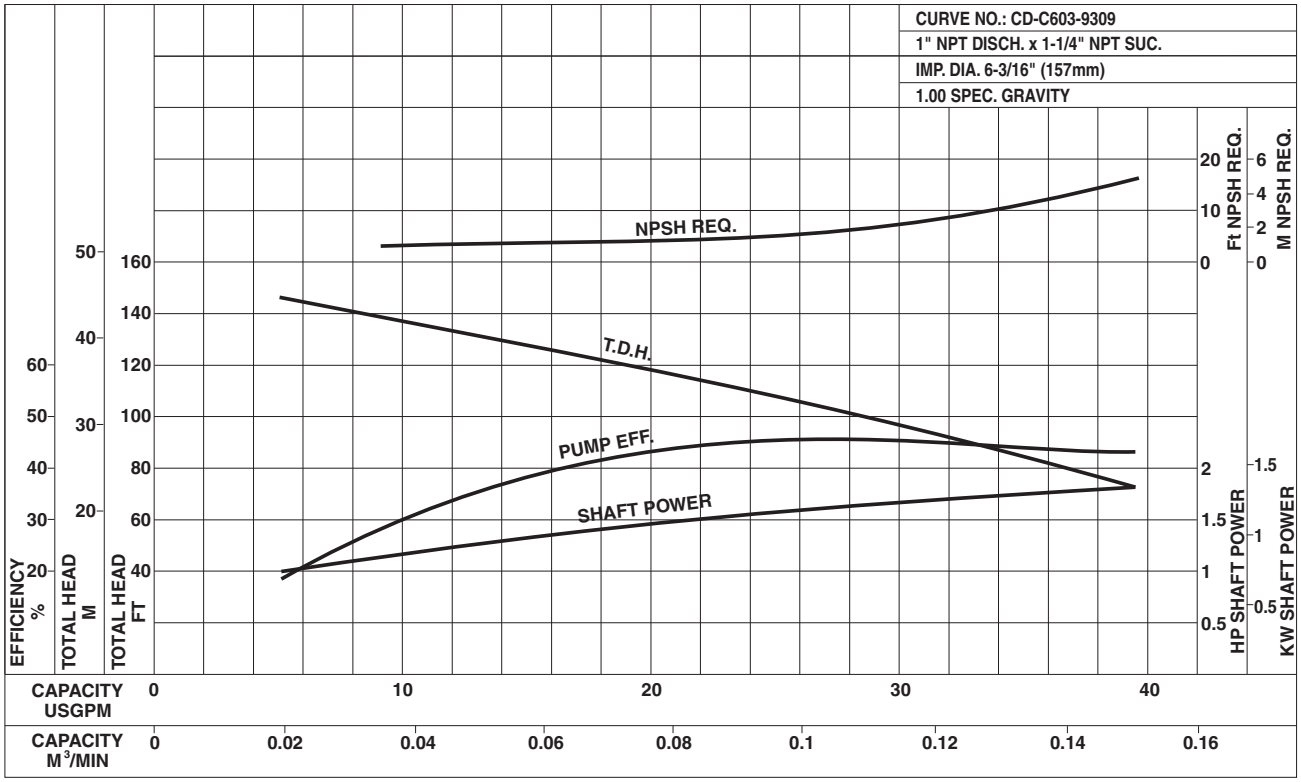

### CDU70/3-1½ HP — Synchronous Speed: 3450 RPM — Size: 1 x 1¼ x 5³/₁₆



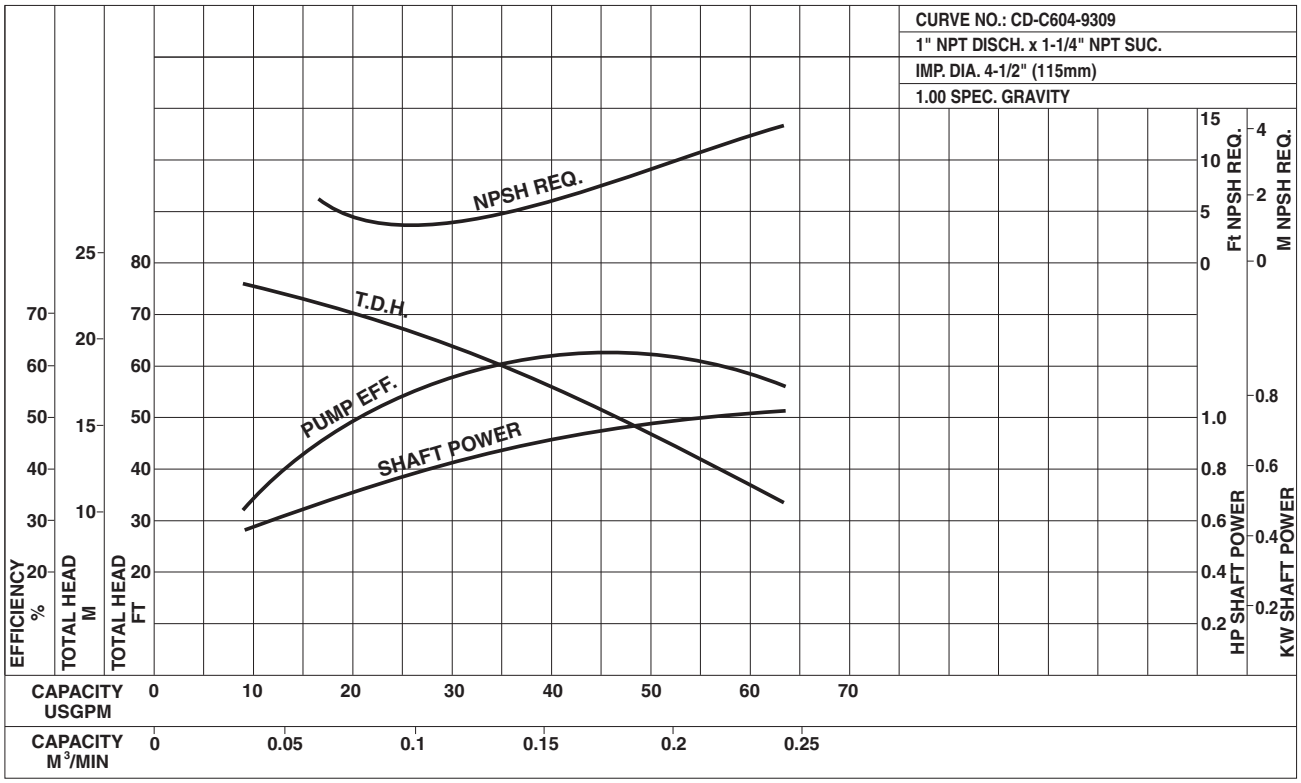
## Model CDU — EBARA Stainless Steel Centrifugal Pumps

### Performance Curves

### CDU70/5-2HP — Synchronous Speed: 3450 RPM — Size: 1 x 1¼ x 6³/₁₆



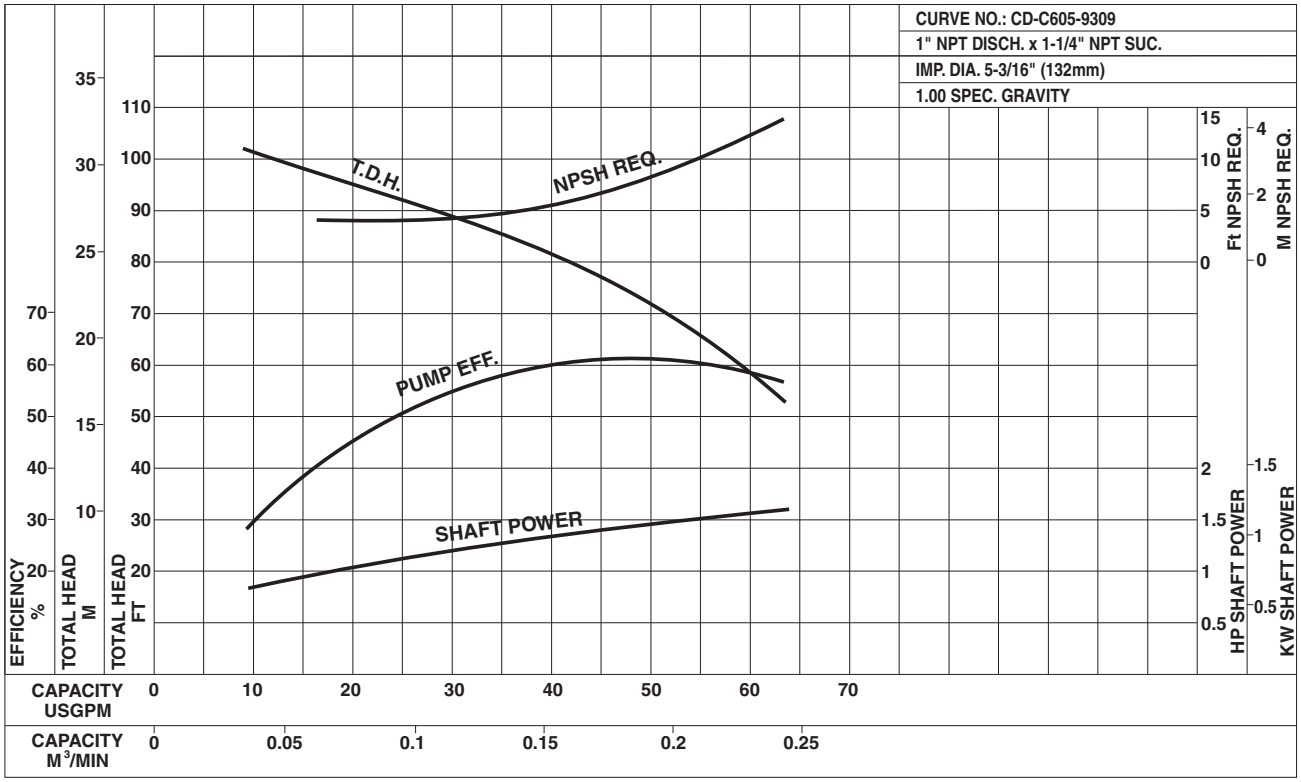

### CDU120/1-1HP — Synchronous Speed: 3450 RPM — Size: 1 x 1¼ x 4½



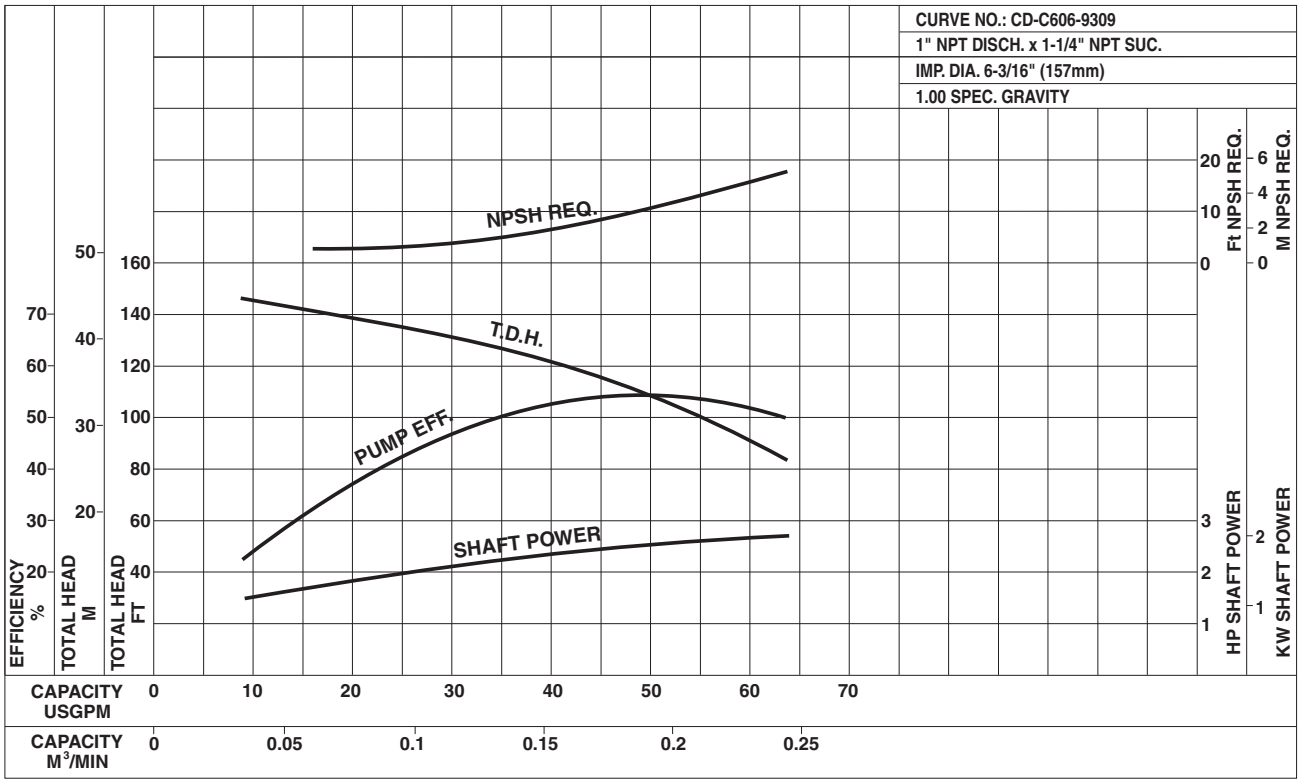
## Model CDU — EBARA Stainless Steel Centrifugal Pumps

### Performance Curves

### CDU120/3-1½ HP — Synchronous Speed: 3450 RPM — Size: 1 x 1¼ x 5³/₁₆



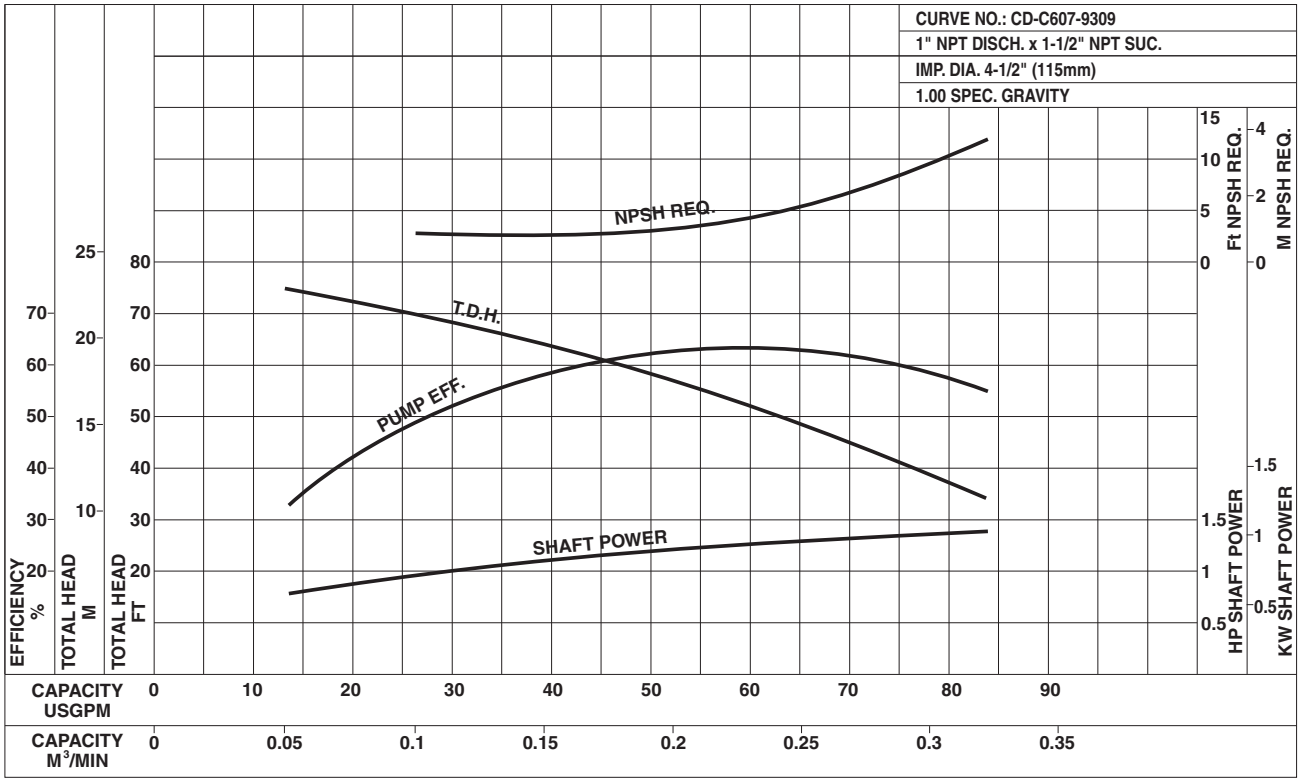

### CDU120/5-3HP — Synchronous Speed: 3450 RPM — Size: 1 x 1¼ x 6³/₁₆



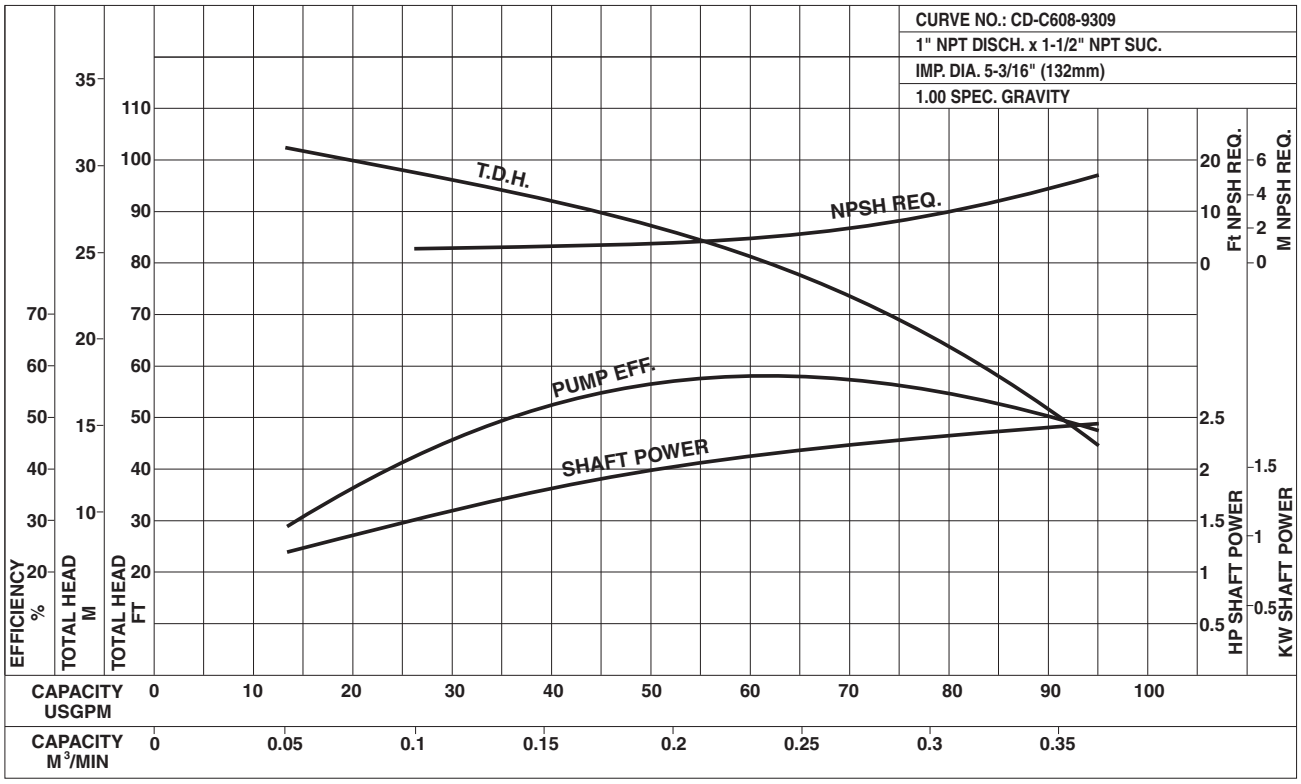
## Model CDU — EBARA Stainless Steel Centrifugal Pumps

## Performance Curves

### CDU200/1-1½ HP — Synchronous Speed: 3450 RPM — Size: 1 x 1½ x 4½



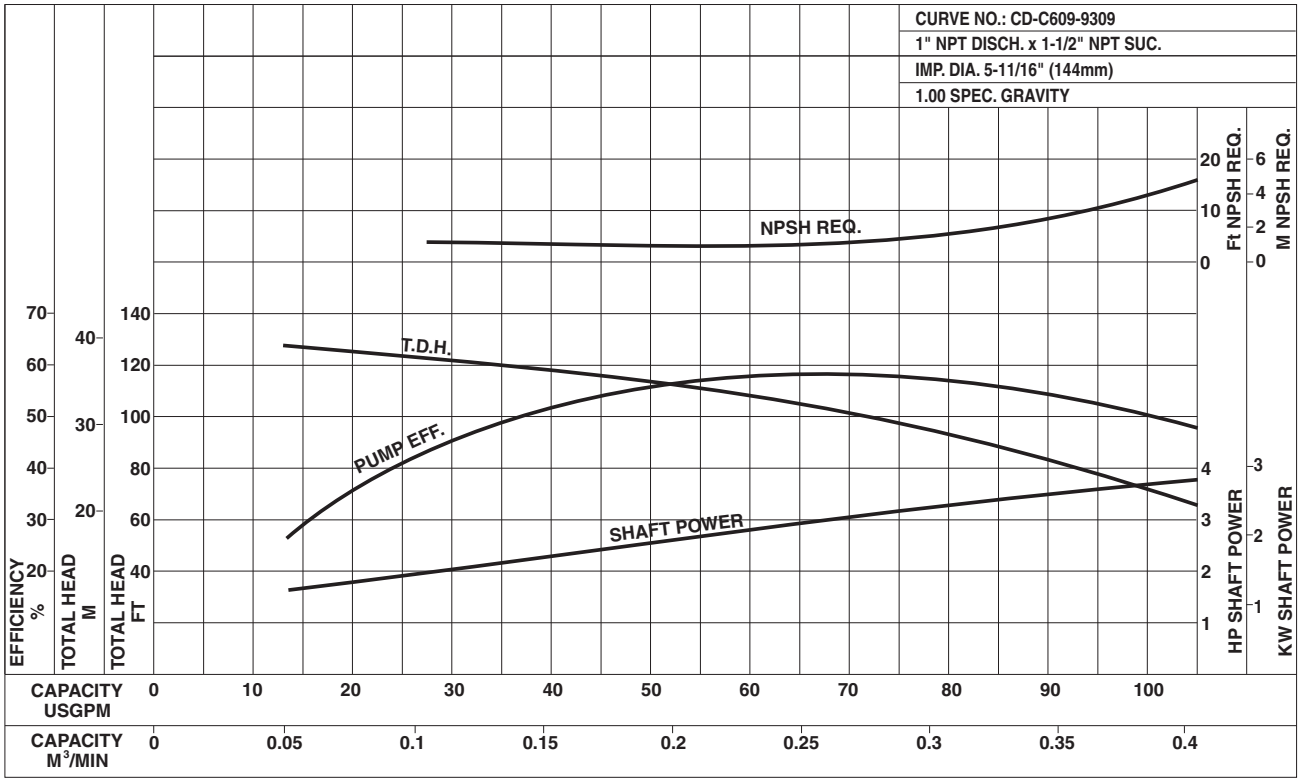

### CDU200/3-3HP — Synchronous Speed: 3450 RPM — Size: 1 x 1½ x 5³/₁₆



## Model CDU — EBARA Stainless Steel Centrifugal Pumps

### Performance Curves

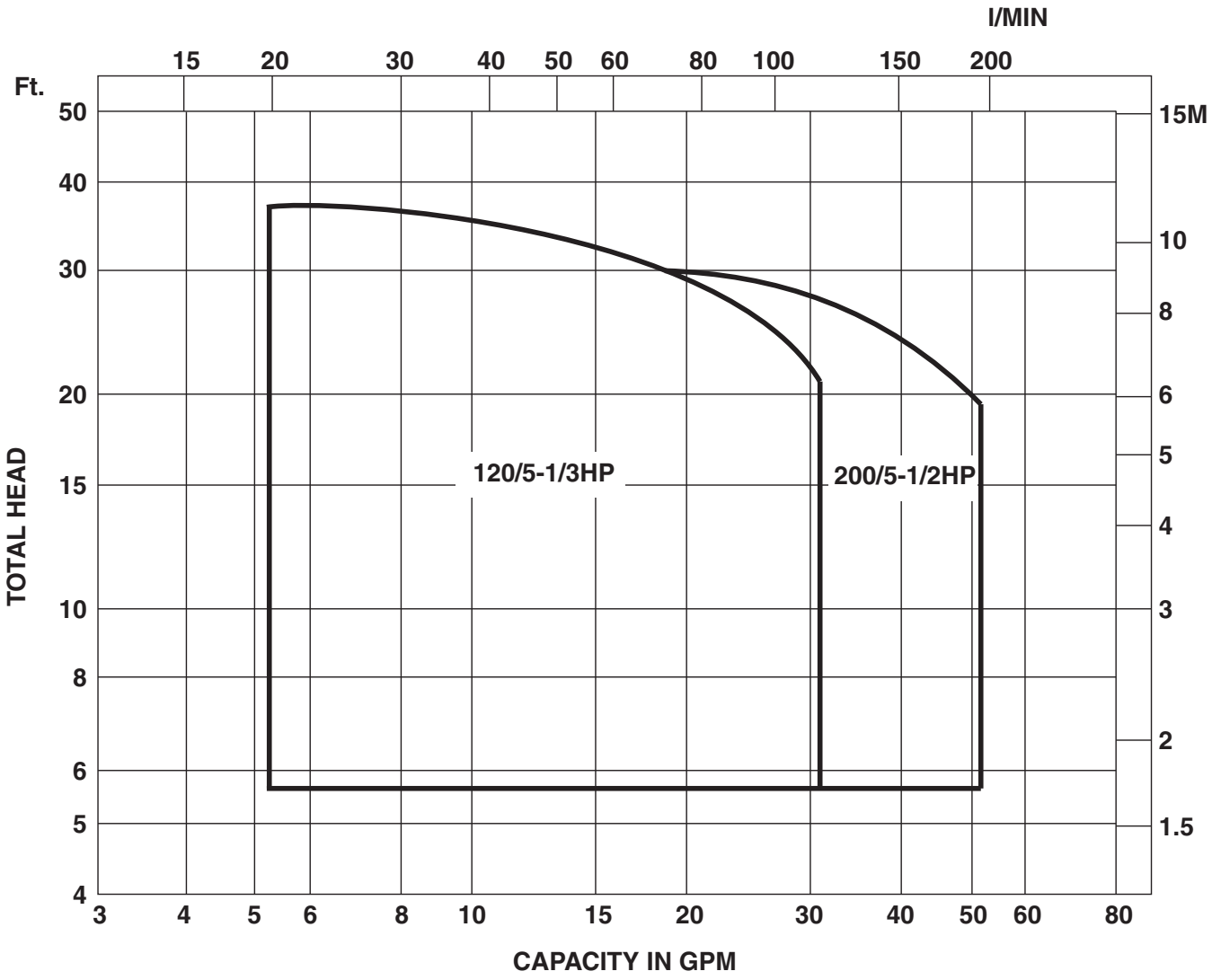
**CDU200/5-3HP** **Synchronous Speed: 3450 RPM** **Size: 1 x 1½ x 5 11/16**



## Model CDU — EBARA Stainless Steel Centrifugal Pumps

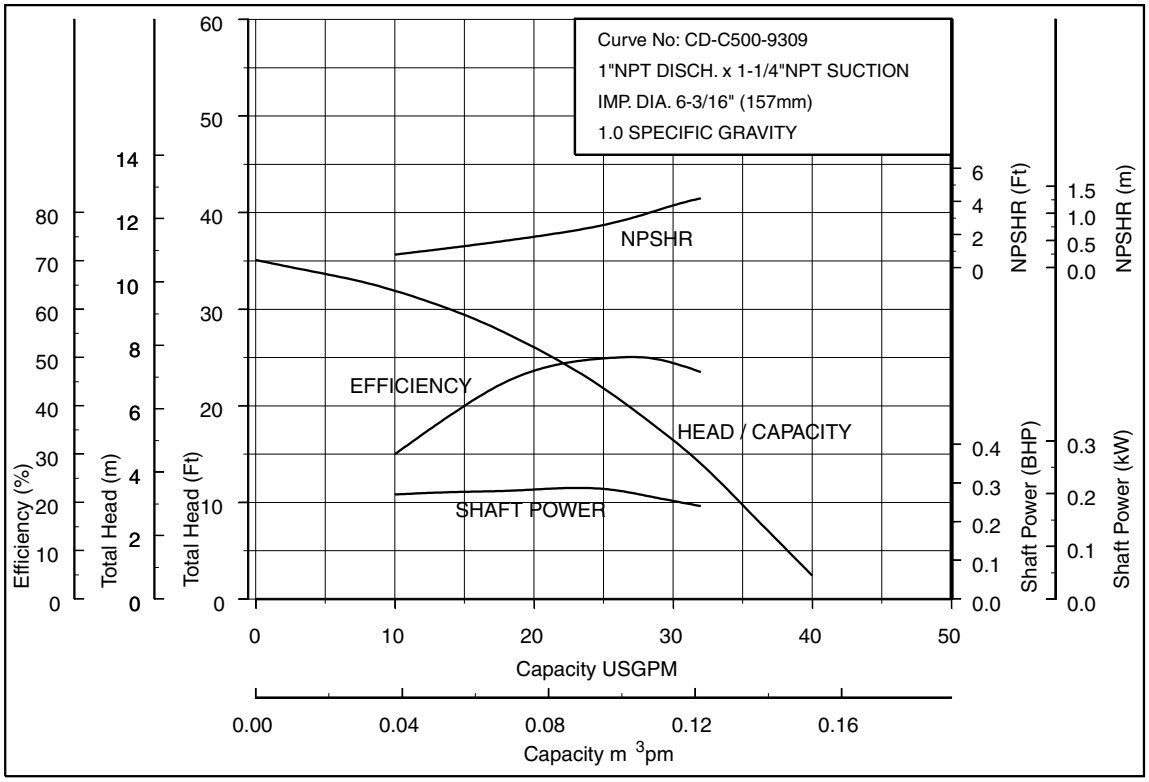
### Selection chart

### Synchronous Speed 1725 RPM

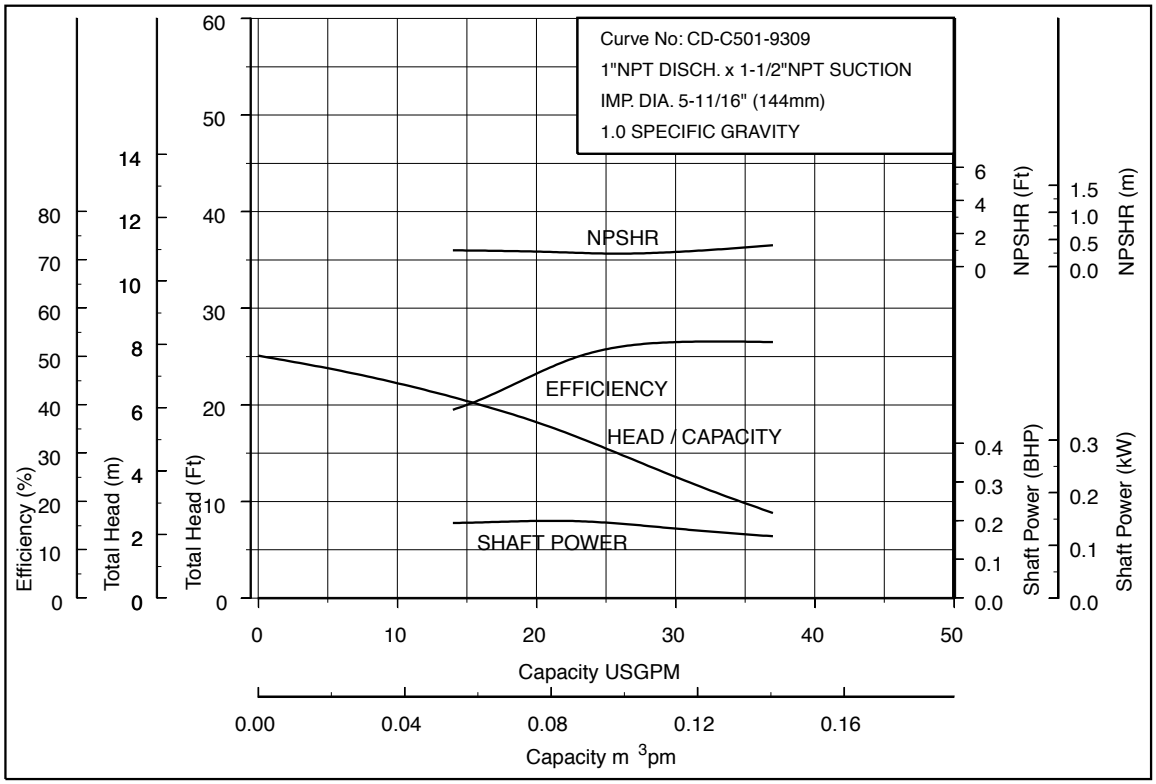


## Performance Curves

### CDU4 120/5-1/3 HP Synchronous Speed: 1725 RPM Size: 1 x 1 1/4 x 6 3/16

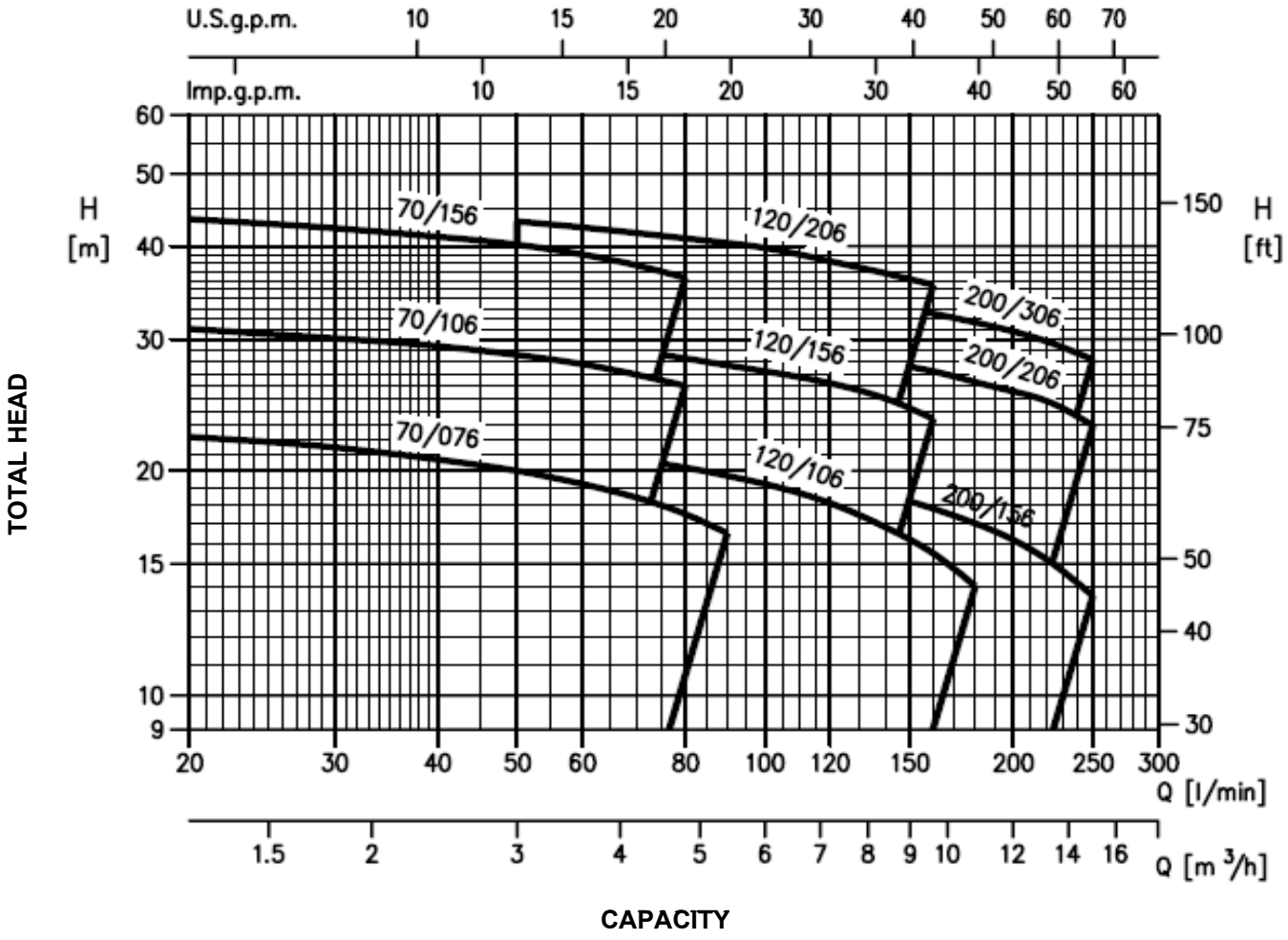



### CDU4 200/5-1/2 HP Synchronous Speed: 1725 RPM Size: 1 x 1 1/2 x 5 11/16

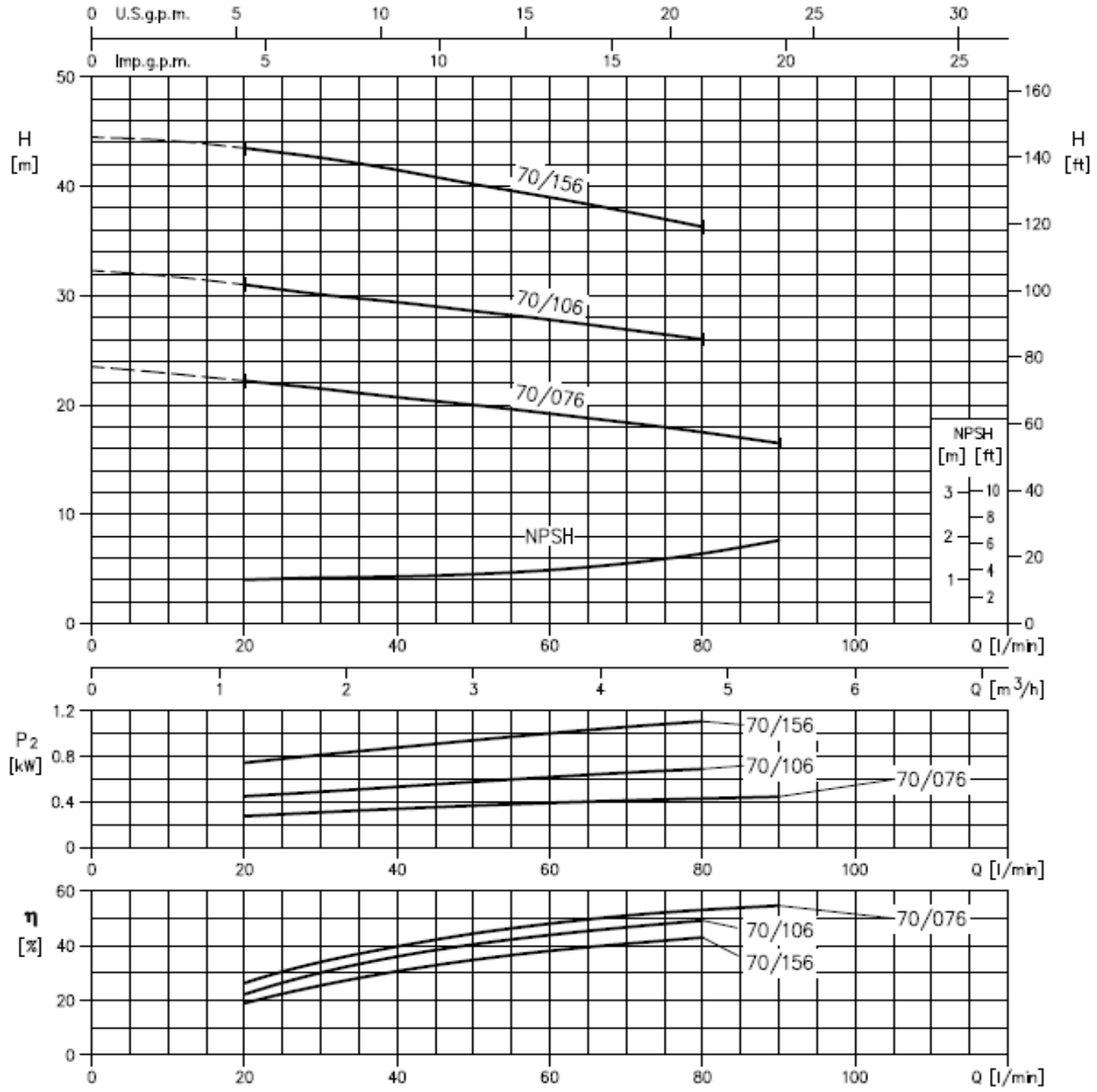


## Model CDX — EBARA Stainless Steel Centrifugal Pumps

### Selection Chart



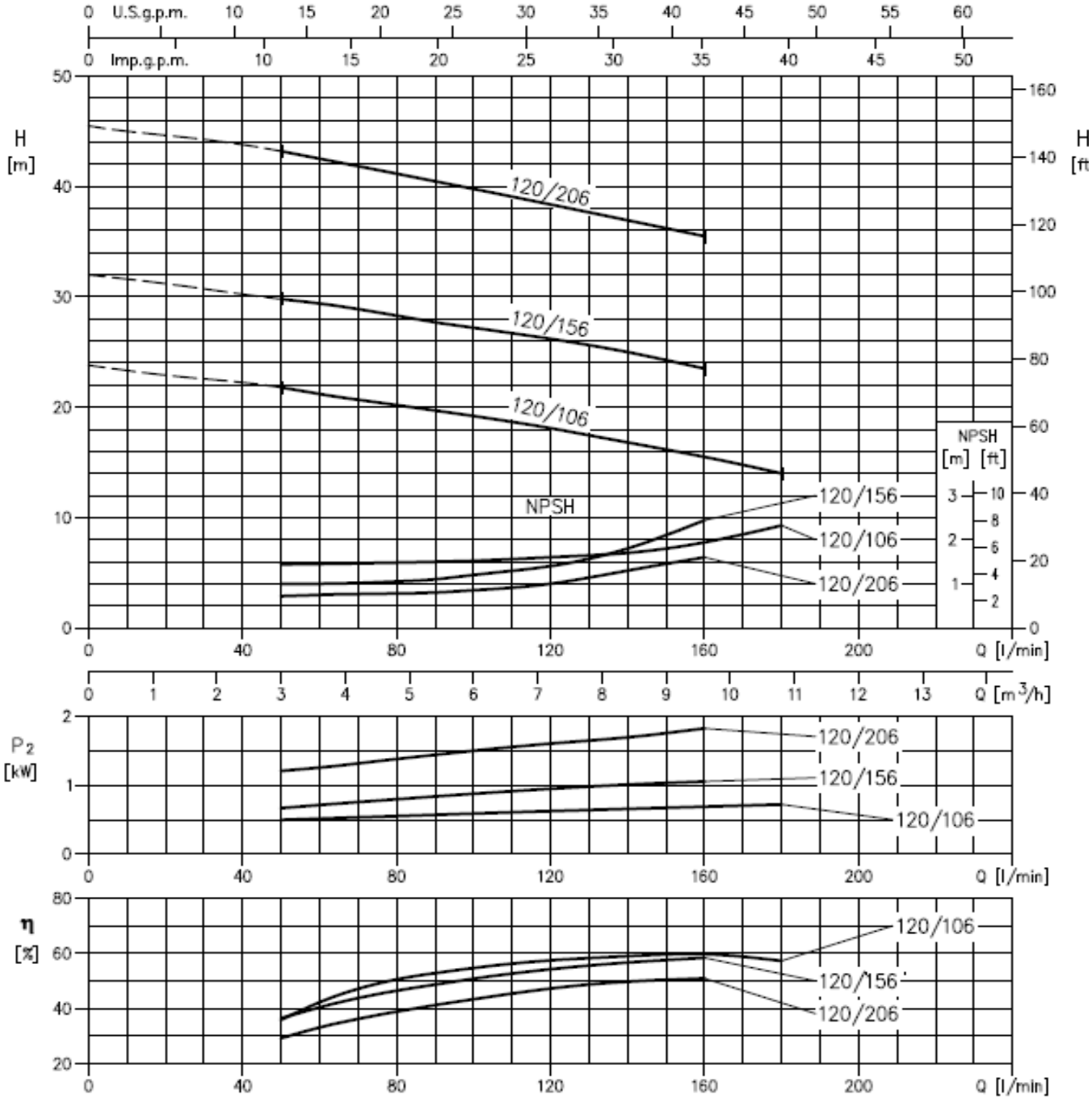
## CDX 70/076 (0.55 kW) - Impeller diameter = 115 mm
## CDX 70/106 (0.75 kW) - Impeller diameter = 132 mm
## CDX 70/156 (1.1 kW) - Impeller diameter = 157 mm




Rotation speed ≈ 3450 $min^{-1}$
Test standard: ISO 9906 – Annex A

## Performance Curves

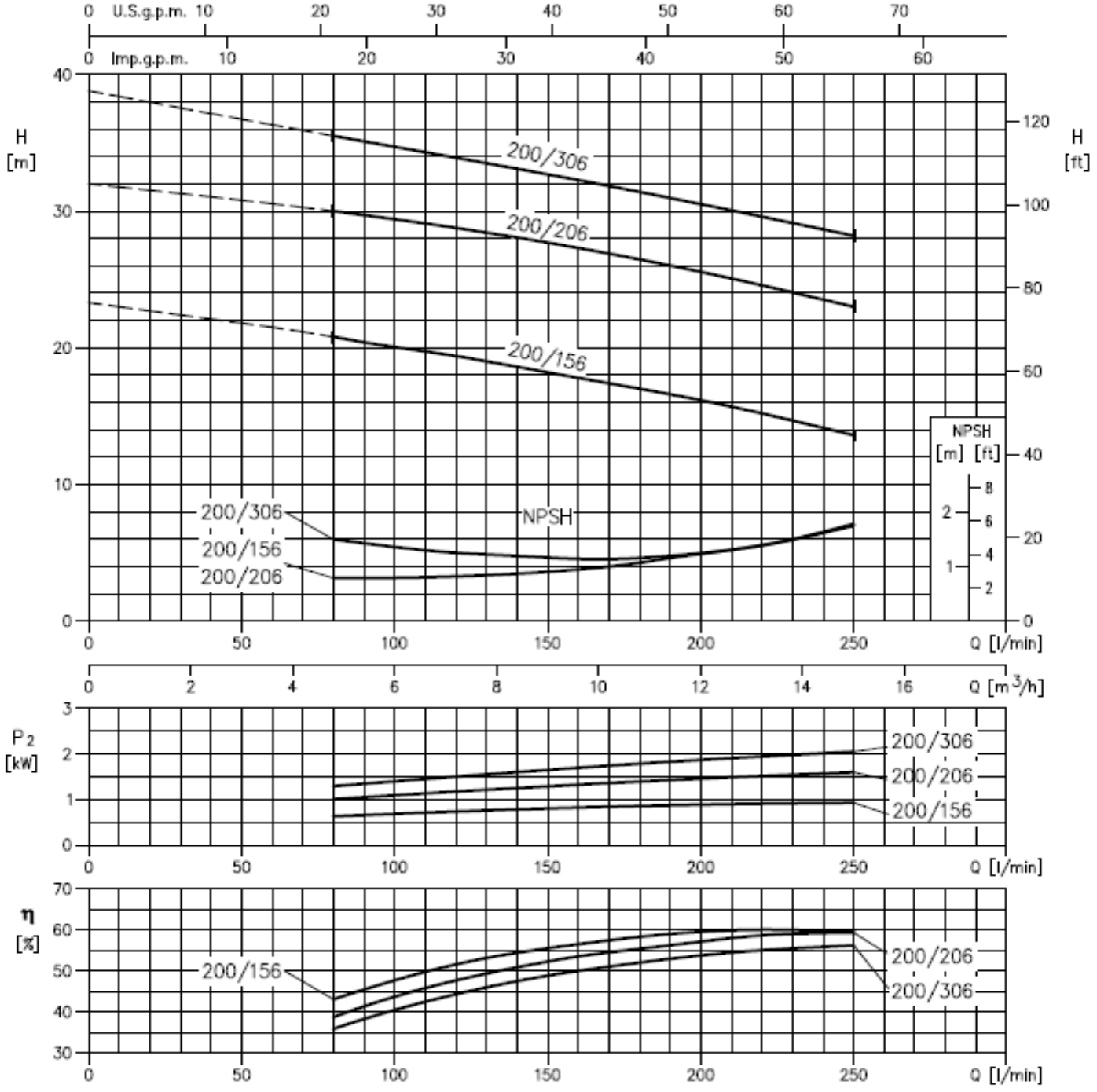
**CDX 120/106 (0.75 kW) - Impeller diameter = 115 mm**
**CDX 120/156 (1.1 kW) - Impeller diameter = 132 mm**
**CDX 120/206 (1.5 kW) - Impeller diameter = 157 mm**




Rotation speed ≈ 3450 $min^{-1}$
Test standard: ISO 9906 – Annex A

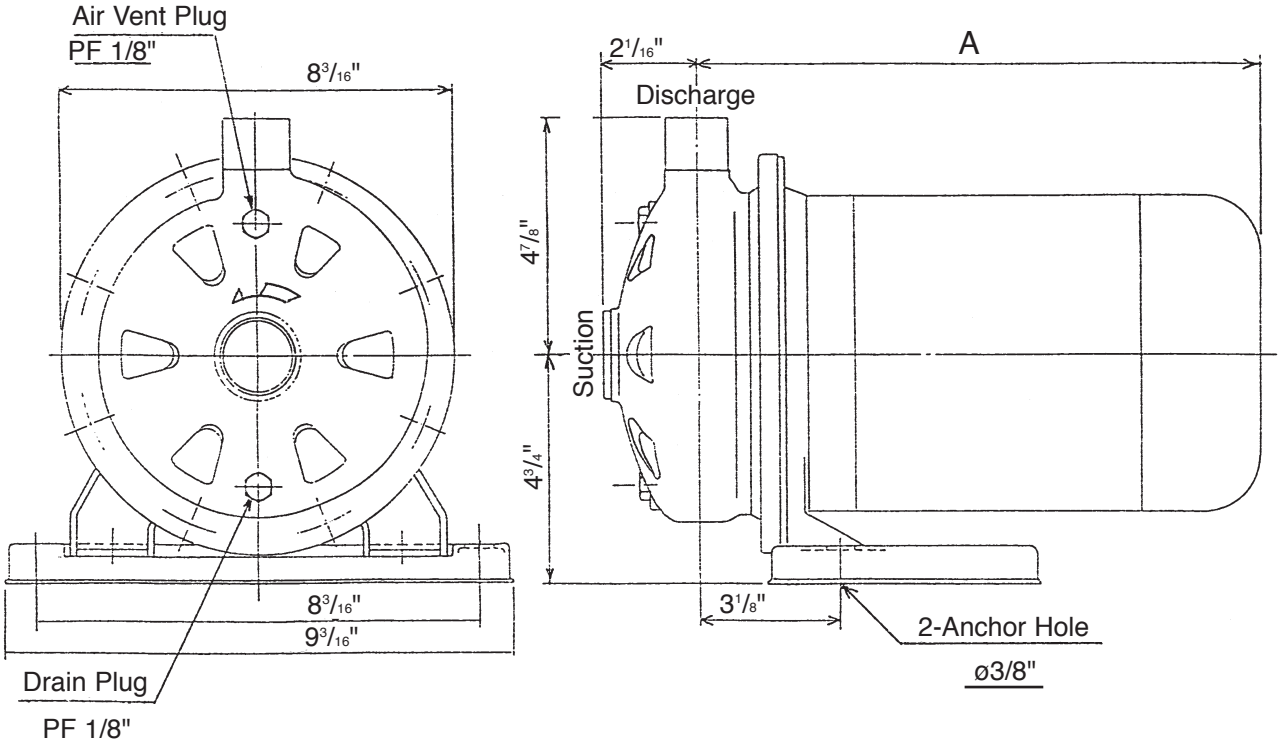
## Performance Curves

### CDX 200/156 (1.1 kW) - Impeller diameter = 115 mm
### CDX 200/206 (1.5 kW) - Impeller diameter = 132 mm
### CDX 200/306 (2.2 kW) - Impeller diameter = 144 mm




Rotation speed ≈ 3450 $min^{-1}$
Test standard: ISO 9906 – Annex A

## Pump Dimensions




## Model CDU, 2-Pole Motor

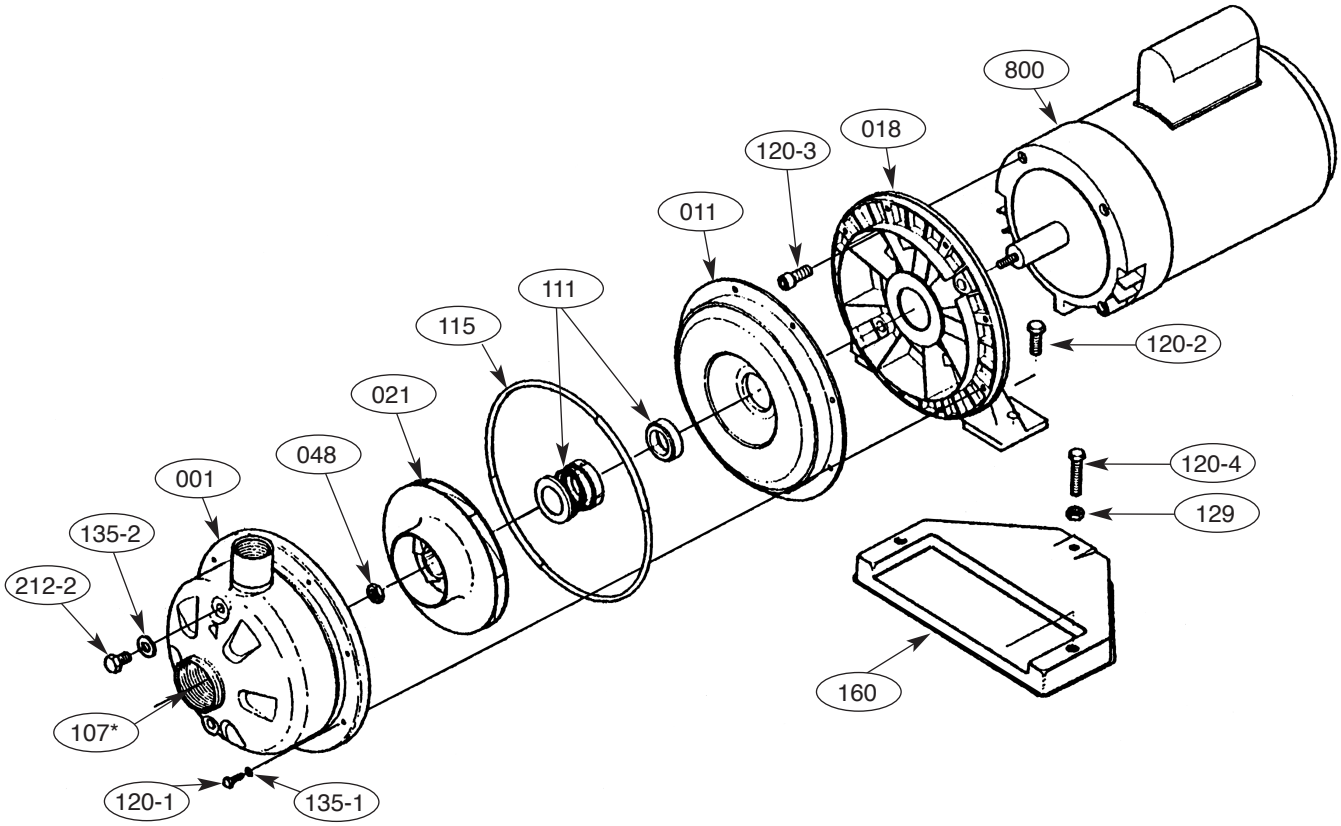
| Model | Size | Pump Size – NPT (Inch) | | Dimension (Inch) | Unit Weight (lbs.) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Single Phase | | Three Phase | |
| | | Suction | Discharge | A | ODP | TEFC | ODP | TEFC |
| CDU70/1-3/4HP | 1 x 1 1/4 x 4 1/2 | 1 1/4 | 1 | 13 1/8 Max. | 36 | 41 | 31 | 31 |
| CDU70/3-1 1/2HP | 1 x 1 1/4 x 5 3/16 | 1 1/4 | 1 | 13 9/16 Max. | 47 | 50 | 39 | 39 |
| CDU70/5-2HP | 1 x 1 1/4 x 6 3/16 | 1 1/4 | 1 | 14 7/16 Max. | 51 | 58 | 44 | 48 |
| CDU120/1-1HP | 1 x 1 1/4 x 4 1/2 | 1 1/4 | 1 | 13 9/16 Max. | 41 | 46 | 33 | 32 |
| CDU120/3-1 1/2HP | 1 x 1 1/4 x 5 3/16 | 1 1/4 | 1 | 13 9/16 Max. | 47 | 50 | 39 | 39 |
| CDU120/5-3HP | 1 x 1 1/4 x 6 3/16 | 1 1/4 | 1 | 14 7/16 Max. | 59 | 66 | 51 | 60 |
| CDU200/1-1 1/2HP | 1 x 1 1/2 x 4 1/2 | 1 1/2 | 1 | 13 9/16 Max. | 47 | 50 | 39 | 39 |
| CDU200/3-3HP | 1 x 1 1/2 x 5 3/16 | 1 1/2 | 1 | 14 7/16 Max. | 58 | 65 | 50 | 59 |
| CDU200/5-3HP | 1 x 1 1/2 x 5 11/16 | 1 1/2 | 1 | 14 7/16 Max. | 58 | 65 | 50 | 59 |

## Model CDU, 4-Pole Motor

| Model | Size | Pump Size – NPT (Inch) | | Dimension (inch) | Unit Weight (lbs.) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Single Phase | | Three Phase | |
| | | Suction | Discharge | A | ODP | TEFC | ODP | TEFC |
| CDU4120/5-1/3HP | 1 x 1¼ x 6 3/16 | 1¼ | 1 | 13 7/8 Max. | 32 | 31 | 31 | 30 |
| CDU4200/5-1/2HP | 1 x 1½ x 5 11/16 | 1½ | 1 | 13 7/8 Max. | 35 | 31 | 31 | 31 |

## Model CDU — EBARA Stainless Steel Centrifugal Pumps

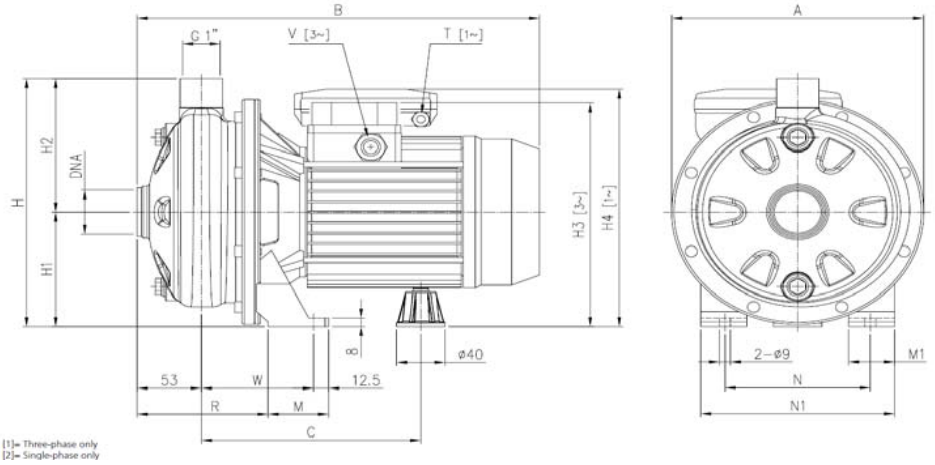
### Sectional View




| Part No. | Part Name | Material | No. for 1 Unit |
|---|---|---|---|
| 001 | Casing | 304L Stainless | 1 |
| 011 | Casing cover | 304L Stainless | 1 |
| 018 | Bracket | Aluminum | 1 |
| 021 | Impeller | 304L Stainless | 1 |
| 048 | Impeller nut | 304L Stainless | 1 |
| 107* | Casing ring (*CDU 70 series only) | Viton | 1 |
| 111 | Mechanical seal | — | 1 |
| 115 | O-Ring | Viton | 1 |
| 120-1 | Bolt | 304L Stainless | 8 |
| 120-2 | Bolt | 304L Stainless | 2 |
| 120-3 | Bolt | 304L Stainless | 4 |
| 120-4 | Bolt | 304L Stainless | 1 |
| 129 | Nut | 304L Stainless | 1 |
| 135-1 | Washer | 304L Stainless | 8 |
| 135-2 | Washer | 304L Stainless | 2 |
| 160 | Base | Steel | 1 |
| 212-2 | Plug | 304L Stainless | 2 |
| 800 | Motor | — | 1 |

## Model CDX/CDXM — EBARA Stainless Steel Centrifugal Pumps

## Pump Dimensions




**Dimensions: inch**

| Phase | Model | HP | A | B | C | H | H1 | H2 | H3 (1) | M | M1 | N | N1 | R | V (1) | W | DNA | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Three | CDX 70/076 | 0.75 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 1/4 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 19 |
| | CDX 70/106 | 1 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 1/4 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 21 |
| | CDX 70/156 | 1.5 | 8 1/4 | 13 3/16 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 1/4 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 28 |
| | CDX 120/106 | 1 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 1/4 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 21 |
| | CDX 120/156 | 1.5 | 8 1/4 | 13 3/16 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 1/4 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 27 |
| | CDX 120/206 | 2 | 9 1/4 | 14 1/4 | 7 7/8 | 9 1/8 | 4 3/16 | 5 | 8 15/16 | 2 3/16 | 1 9/16 | 5 9/16 | 7 3/16 | 4 3/16 | PG11 | 3 3/4 | 1.25" | 32 |
| | CDX 200/156 | 1.5 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 1/4 | 2 | 1 1/2 | 4 3/4 | 7 3/16 | 4 1/4 | PG11 | 3 11/16 | 1.5" | 24 |
| | CDX 200/206 | 2 | 8 1/4 | 14 1/4 | 7 7/8 | 9 1/8 | 4 3/16 | 5 | 8 15/16 | 2 | 1 9/16 | 5 9/16 | 7 3/16 | 4 3/16 | PG11 | 3 3/4 | 1.5" | 35 |
| | CDX 200/306 | 3 | 9 1/4 | 14 1/4 | 7 7/8 | 10 | 4 11/16 | 5 1/4 | 9 3/8 | 2 3/16 | 1 9/16 | 5 9/16 | 7 3/16 | 4 3/16 | PG11 | 3 3/4 | 1.5" | 37 |

**Dimensions: mm**

| Phase | Model | HP | A | B | C | H | H1 | H2 | H3 (1) | M | M1 | N | N1 | R | V (1) | W | DNA | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Three | CDX 70/076 | 0.75 | 208 | 320 | 181 | 229.5 | 106 | 123.5 | 207 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 8.4 |
| | CDX 70/106 | 1 | 208 | 320 | 181 | 229.5 | 106 | 123.5 | 207 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 9.6 |
| | CDX 70/156 | 1.5 | 208 | 332 | 181 | 229.5 | 106 | 123.5 | 207 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 12.5 |
| | CDX 120/106 | 1 | 208 | 320 | 181 | 229.5 | 106 | 123.5 | 207 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 9.5 |
| | CDX 120/156 | 1.5 | 208 | 332 | 181 | 229.5 | 106 | 123.5 | 207 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 12.4 |
| | CDX 120/206 | 2 | 232 | 359 | 198.5 | 229.5 | 106 | 123.5 | 225 | 55 | 40 | 140 | 180 | 105.5 | PG11 | 95 | 1.25" | 14.5 |
| | CDX 200/156 | 1.5 | 208 | 320 | 181 | 229.5 | 106 | 123.5 | 207 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.5" | 10.7 |
| | CDX 200/206 | 2 | 208 | 359 | 198.5 | 229.5 | 106 | 123.5 | 225 | 50 | 40 | 140 | 180 | 105.5 | PG11 | 95 | 1.5" | 15.7 |
| | CDX 200/306 | 3 | 232 | 359 | 198.5 | 250 | 118 | 132 | 237 | 55 | 40 | 140 | 180 | 105.5 | PG11 | 95 | 1.5" | 16.9 |

**Dimensions: inch**

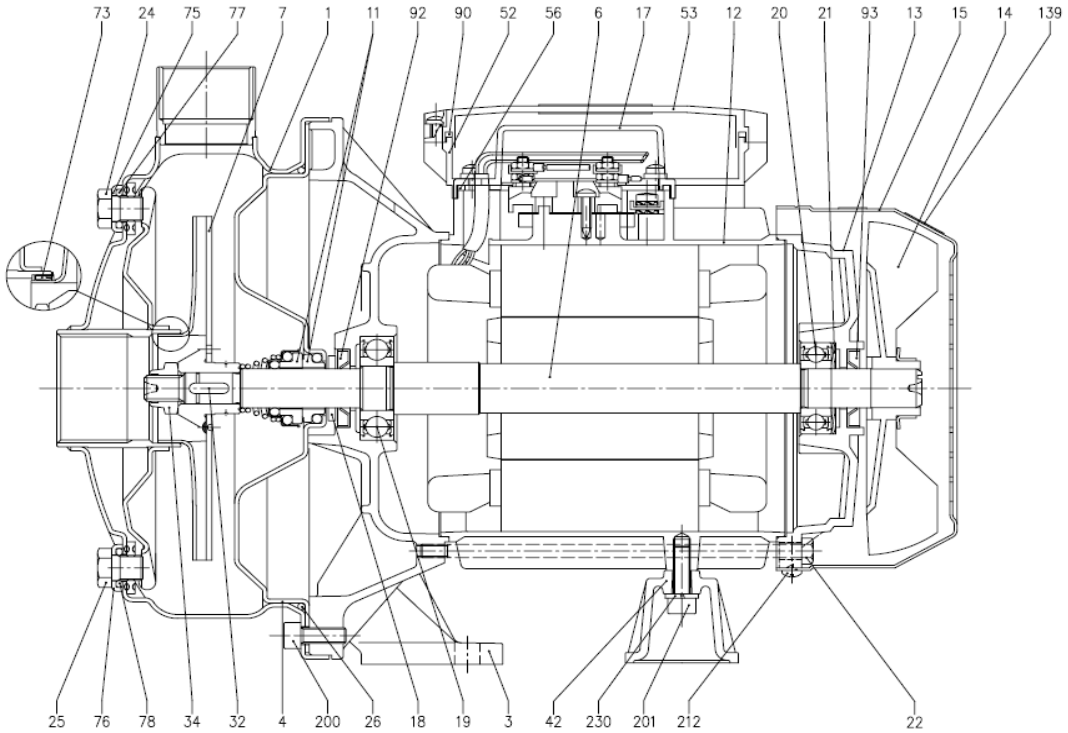
| Phase | Model | HP | A | B | C | H | H1 | H2 | H4 (2) | M | M1 | N | N1 | R | T (2) | W | DNA | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| One | CDXM 70/076 | 0.75 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 9/16 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 19 |
| | CDXM 70/106 | 1 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 9/16 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 21 |
| | CDXM 70/156 | 1.5 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 9/16 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 26 |
| | CDXM 120/106 | 1 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 9/16 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 21 |
| | CDXM 120/156 | 1.5 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 9/16 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.25" | 26 |
| | CDXM 120/206 | 2 | 9 1/4 | 13 3/4 | 7 7/8 | 9 1/8 | 4 3/16 | 5 | 8 9/16 | 2 3/16 | 1 9/16 | 5 9/16 | 7 1/8 | 4 3/16 | PG13.5 | 3 3/4 | 1.25" | 34 |
| | CDXM 200/156 | 1.5 | 8 1/4 | 12 3/4 | 7 3/16 | 9 1/8 | 4 3/16 | 5 | 8 9/16 | 2 | 1 1/2 | 4 3/4 | 6 3/8 | 4 1/4 | PG11 | 3 11/16 | 1.5" | 24 |
| | CDXM 200/206 | 2 | 8 1/4 | 13 3/4 | 7 7/8 | 9 1/8 | 4 3/16 | 5 | 9 7/16 | 2 | 1 9/16 | 5 5/8 | 7 1/8 | 4 3/16 | PG13.5 | 3 3/4 | 1.5" | 33 |

**Dimensions: mm**

| Phase | Model | HP | A | B | C | H | H1 | H2 | H4 (2) | M | M1 | N | N1 | R | T (2) | W | DNA | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| One | CDXM 70/076 | 0.75 | 208 | 321 | 181 | 229.5 | 106 | 123.5 | 216 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 8.5 |
| | CDXM 70/106 | 1 | 208 | 321 | 181 | 229.5 | 106 | 123.5 | 216 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 9.5 |
| | CDXM 70/156 | 1.5 | 208 | 321 | 181 | 229.5 | 106 | 123.5 | 216 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 11.7 |
| | CDXM 120/106 | 1 | 208 | 321 | 181 | 229.5 | 106 | 123.5 | 216 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 9.5 |
| | CDXM 120/156 | 1.5 | 208 | 321 | 181 | 229.5 | 106 | 123.5 | 216 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.25" | 11.7 |
| | CDXM 120/206 | 2 | 232 | 347 | 198.5 | 229.5 | 106 | 123.5 | 249 | 55 | 40 | 140 | 180 | 105.5 | PG13.5 | 95 | 1.25" | 15.3 |
| | CDXM 200/156 | 1.5 | 208 | 321 | 181 | 229.5 | 106 | 123.5 | 216 | 50 | 38 | 120 | 160 | 108 | PG11 | 92.5 | 1.5" | 11 |
| | CDXM 200/206 | 2 | 208 | 347 | 198.5 | 229.5 | 106 | 123.5 | 237 | 50 | 40 | 140 | 180 | 105.5 | PG13.5 | 95 | 1.5" | 15 |

## Model CDX/CDXM — EBARA Stainless Steel Centrifugal Pumps

### Sectional View




**CDX/CDXM Parts**

| Ref. | Name | Material | QTY. | Ref. | Name | Material | QTY. |
|---|---|---|---|---|---|---|---|
| 1 | Casing | 304 Stainless | 1 | 25 | Drain plug | 303 Stainless | 1 |
| 3 | Motor Bracket | Alum. | 1 | 26 | O-ring | Viton | 1 |
| 4 | Casing cover | 304 Stainless | 1 | 32 | Key | 316 Stainless | 1 |
| 6 | Shaft with rotor | 303 Stainless | 1 | 34 | Impeller nut | 304 Stainless | 1 |
| 7 | Impeller | 304 Stainless | 1 | 42 | Motor support | Alum. | 1 |
| 11 | Mechanical seal | Carbon/Ceramic | 1 | 52 | Terminal box (Single phase only) | ABS | 1 |
| 12 | Motor frame | | 1 | 53 | Terminal box cover | ABS | 1 |
| 13 | Motor cover | Alum. | 1 | 56 | Box gasket | Viton | 1 |
| 14 | Fan | PA | 1 | 73 | Casing ring | 304 Stainless | 1 |
| 15 | Fan cover | Steel | 1 | 75 | Washer | 304 Stainless | 1 |
| 16 | Terminal board | | 1 | 76 | Washer | 304 Stainless | 1 |
| 17 | Terminal box cover (Three phase only) | Alum. | 1 | 77 | O-ring | Viton | 1 |
| 18 | Splash ring | Viton | 1 | 78 | O-ring | Viton | 1 |
| 19 | Pump side ball bearing | | 1 | 90 | Terminal box cover gasket (Single phase) | Viton | 1 |
| 20 | Fan side ball bearing | | 1 | 92 | Lip seal | | 1 |
| 21 | Adjusting ring | Steel | 1 | 93 | Lip seal | | 1 |
| 22 | Tie rod | Steel | 4 | 110 | Protector (Single phase only) | | 1 |
| 23 | Capacitor (Single phase only) | | 1 | 200 | Screw | | 8 |
| 24 | Priming plug | 303 Stainless | 1 | | | | |

## Electrical Data

### 3/4 to 1 HP, Single Phase, 115V

| Hz | Poles | Phase | Output (HP) | Voltage (V) | Applicable Model |
|---|---|---|---|---|---|
| 60 | 2 | Single | 0.75-1 | 115 | CDXM70 |

| | | | | | |
|---|---|---|---|---|---|
| Name-Plate Rating | MOTOR MODEL | | 70/076 | 70/106 | 120/106 |
| | Output | HP | 0.75 | 1 | 1 |
| | | kW | 0.55 | 0.75 | 0.75 |
| | Phase | | 1 | 1 | 1 |
| | Poles | | 2 | 2 | 2 |
| | Volts | | 115 | 115 | 115 |
| | Amperes | | 7.5 | 9.4 | 9.4 |
| | Speed | | 3430 | 3450 | 3450 |
| | Insulation Class | | F | F | F |
| Capacity of Capacitor µF | | Start | - | - | - |
| | | Run | 45 | 60 | 60 |
| No Load Test | Amperes | | 3.22 | 6.23 | 6.23 |
| | Watts | | 230 | 354 | 354 |
| Resistance at 20°C | Ohms | | 1.526 | 0.921 | 0.921 |
| 100% Load | Current | Amp. | 7.86 | 9.58 | 9.58 |
| | Efficiency | % | 67.1 | 66.1 | 66.1 |
| | Power Factor | % | 97.2 | 89.2 | 89.2 |
| | Speed | RPM | 3449 | 3445 | 3445 |
| Locked Rotor Torque | | LB-FT | 0.40 | 0.68 | 0.68 |
| Start Current | | Amp. | 28.1 | 40.94 | 40.94 |
| Number Starts per Hour | | | 30 | | |
| Voltage Tolerance | | % | ±6 | | |

## Electrical Data

### 3/4 to 2 HP, Single Phase, 230V

| Hz | Poles | Phase | Output (HP) | Voltage (V) | Applicable Model |
|---|---|---|---|---|---|
| 60 | 2 | Single | 0.75-2 | 230 | CDXM |

| | MOTOR MODEL | | 70/076 | 70/106 | 70/156 | 120/106 | 120/156 | 120/206 | 200/156 | 200/206 |
|---|---|---|---|---|---|---|---|---|---|---|
| Name-Plate Rating | Output | HP | 0.75 | 1 | 1.5 | 1 | 1.5 | 2 | 1.5 | 2 |
| | | kW | 0.55 | 0.75 | 1.1 | 0.75 | 1.1 | 1.5 | 1.1 | 1.5 |
| | Phase | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Poles | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Volts | | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 |
| | Amperes | | 3.4 | 5.1 | 7.5 | 5.2 | 7.2 | 11.3 | 6.6 | 10 |
| | Speed | | 3420 | 3430 | 3425 | 3425 | 3440 | 3475 | 3450 | 3490 |
| | Insulation Class | | F | F | F | F | F | F | F | F |
| Capacity of Capacitor µF | | Start | - | - | - | - | - | - | - | - |
| | | Run | 12.5 | 14 | 25 | 14 | 25 | 35 | 20 | 35 |
| No Load Test | Amperes | | 2.8 | 2.95 | 3.94 | 2.95 | 3.94 | 5.73 | 5.05 | 5.73 |
| | Watts | | 335 | 325 | 502 | 325 | 502 | 529 | 485 | 529 |
| Resistance at 20°C | Ohms | | 5.19 | 3.899 | 2.082 | 3.899 | 2.082 | 1.04 | 2.166 | 1.04 |
| 100% Load | Current | Amp. | 4.24 | 3.5 | 6.01 | 3.5 | 6.01 | 8.63 | 7.54 | 8.63 |
| | Efficiency | % | 61.6 | 59 | 65.9 | 59 | 65.9 | 77.4 | 69.8 | 77.4 |
| | Power Factor | % | 91.8 | 81.4 | 91.6 | 81.4 | 91.6 | 88.7 | 90.9 | 88.7 |
| | Speed | RPM | 3429 | 3512 | 3458 | 3512 | 3458 | 3492 | 3459 | 3492 |
| Locked Rotor Torque | | LB-FT | 0.53 | 0.66 | 0.82 | 0.66 | 0.82 | 1.49 | 0.82 | 1.49 |
| Start Current | | Amp. | 17.34 | 19.9 | 23.9 | 20.1 | 23.9 | 32.6 | 23.9 | 32.6 |
| Number Starts per Hour | | | 30 | | | | | | | |
| Voltage Tolerance | | % | ±6 | | | | | | | |

## Electrical Data

### 3/4 to 3 HP, Three Phase, 230V

| Hz | Poles | Phase | Output (HP) | Voltage (V) | Applicable Model |
|---|---|---|---|---|---|
| 60 | 2 | Three | 0.75-3 | 230 | CDX |

| | MOTOR MODEL | | 70/076 | 70/106 | 70/156 | 120/106 | 120/156 | 120/206 | 200/156 | 200/206 | 200/306 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Name-Plate Rating | Output | HP | 0.75 | 1 | 1.5 | 1 | 1.5 | 2 | 1.5 | 2 | 3 |
| | | kW | 0.55 | 0.75 | 1.1 | 0.75 | 1.1 | 1.5 | 1.1 | 1.5 | 2.2 |
| | Phase | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Poles | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Volts | | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 |
| | Amperes | | 2 | 2.9 | 3.8 | 2.9 | 3.8 | 8.1 | 2.9 | 8.1 | 8.1 |
| | Speed | | 3330 | 3340 | 3350 | 3350 | 3375 | 3400 | 3380 | 3440 | 3360 |
| | Insulation Class | | F | F | F | F | F | F | F | F | F |
| No Load Test | Amperes | | 1.124 | 2.02 | 4.1 | 2.02 | 4.1 | 3.9 | 2.94 | 3.9 | 3.9 |
| | Watts | | 134 | 158 | 254 | 158 | 254 | 205 | 230 | 205 | 205 |
| Resistance at 20°C | Ohms | | 12.6 | 7.06 | 3.2 | 7.06 | 3.2 | 1.44 | 4.7 | 1.44 | 1.44 |
| 100% Load | Current | Amp. | 1.98 | 2.8 | 3.73 | 2.8 | 3.73 | 5.84 | 2.57 | 5.84 | 7.3 |
| | Efficiency | % | 63.2 | 68.1 | 82.74 | 68.1 | 82.7 | 82.9 | 82.3 | 82.9 | 84.1 |
| | Power Factor | % | 73.6 | 74.2 | 78.1 | 74.2 | 78.1 | 74.1 | 76.3 | 74.1 | 82.4 |
| | Speed | RPM | 3418 | 3436 | 3456 | 3436 | 3456 | 3498 | 3470 | 3498 | 3454 |
| Locked Rotor Torque | | LB-FT | 2.54 | 4.17 | 8.56 | 4.17 | 8.56 | 15.5 | 15.5 | 15.5 | 15.5 |
| Start Current | | Amp. | 6.55 | 17.2 | 19.1 | 17.2 | 19.1 | 38.1 | 13.7 | 38.1 | 38.1 |
| Number Starts per Hour | | | 30 | | | | | | | | |
| Voltage Tolerance | | % | -6 to +10 | | | | | | | | |

## Electrical Data

### 3/4 to 3 HP, Three Phase, 460V

| Hz | Poles | Phase | Output (HP) | Voltage (V) | Applicable Model |
|---|---|---|---|---|---|
| 60 | 2 | Three | 0.75-3 | 460 | CDX |

| | MOTOR MODEL | | 70/076 | 70/106 | 70/156 | 120/106 | 120/156 | 120/206 | 200/156 | 200/206 | 200/306 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Name-Plate Rating | Output | HP | 0.75 | 1 | 1.5 | 1 | 1.5 | 2 | 1.5 | 2 | 3 |
| | | kW | 0.55 | 0.75 | 1.1 | 0.75 | 1.1 | 1.5 | 1.1 | 1.5 | 2.2 |
| | Phase | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Poles | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Volts | | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |
| | Amperes | | 1.2 | 1.6 | 2.2 | 1.7 | 2.2 | 4.3 | 1.6 | 4.3 | 4.3 |
| | Speed | | 3330 | 3340 | 3350 | 3350 | 3375 | 3400 | 3380 | 3440 | 3360 |
| | Insulation Class | | F | F | F | F | F | F | F | F | F |
| No Load Test | Amperes | | 0.65 | 1.17 | 2.37 | 1.17 | 2.37 | 2.26 | 1.7 | 2.26 | 2.26 |
| | Watts | | 134 | 158 | 254 | 158 | 254 | 205 | 230 | 205 | 205 |
| Resistance at 20°C | Ohms | | 18.95 | 21.2 | 9.6 | 21.2 | 9.6 | 4.32 | 14.1 | 4.32 | 4.32 |
| 100% Load | Current | Amp. | 1.15 | 1.62 | 2.16 | 1.62 | 2.16 | 3.38 | 1.49 | 3.38 | 4.22 |
| | Efficiency | % | 63.2 | 68.1 | 82.74 | 68.1 | 82.7 | 82.9 | 82.3 | 82.9 | 84.1 |
| | Power Factor | % | 73.6 | 74.2 | 78.1 | 74.2 | 78.1 | 74.1 | 76.3 | 74.1 | 82.4 |
| | Speed | RPM | 3418 | 3436 | 3456 | 3436 | 3456 | 3498 | 3470 | 3498 | 3454 |
| Locked Rotor Torque | | LB-FT | 3.37 | 5.53 | 11.4 | 5.53 | 11.4 | 20.6 | 20.6 | 20.6 | 20.6 |
| Start Current | | Amp. | 3.28 | 8.60 | 9.55 | 8.60 | 9.55 | 19.1 | 6.83 | 19.1 | 19.1 |
| Number Starts per Hour | | | 30 | | | | | | | | |
| Voltage Tolerance | | % | -6 to +10 | | | | | | | | |