# CENTRIFUGAL PUMPS “HCm”



## TECHNICAL FEATURES

- Suitable for clean water and liquids that are not chemically aggressive to the pump materials.
- Reliable and easy to use: widely used in domestic and civil applications such as water distribution with small and medium-sized pressure sets, liquid transfer, and the irrigation of gardens and allotments.
- Install in an enclosed area, or at least sheltered from bad weather.



HCm158



HCm180/190/200



HCm25-160A

## MOTOR

- Two-pole induction motor (n = 2850 rpm)
- Insulation class B; protection IP44
- Continuous service S1
- Thermal protector on single-phase versions
- Single-phase 220 V / 50 Hz (60 Hz on request)
- Three-phase 380 V / 50 Hz (60 Hz on request)

## WORKING CONDITION

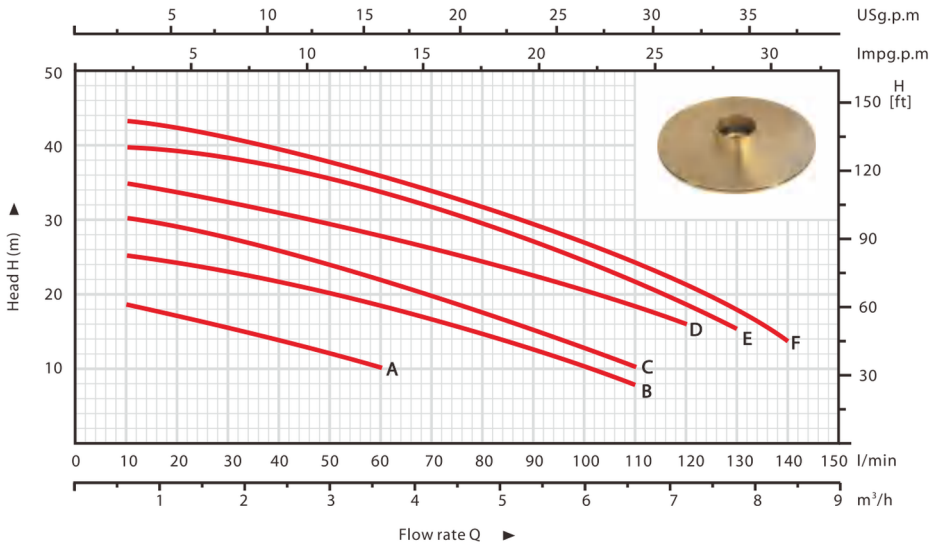
- Liquid temperature up to 60 °C
- Ambient temperature up to 40 °C
- Total suction lift up to 8 m

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## MATERIALS

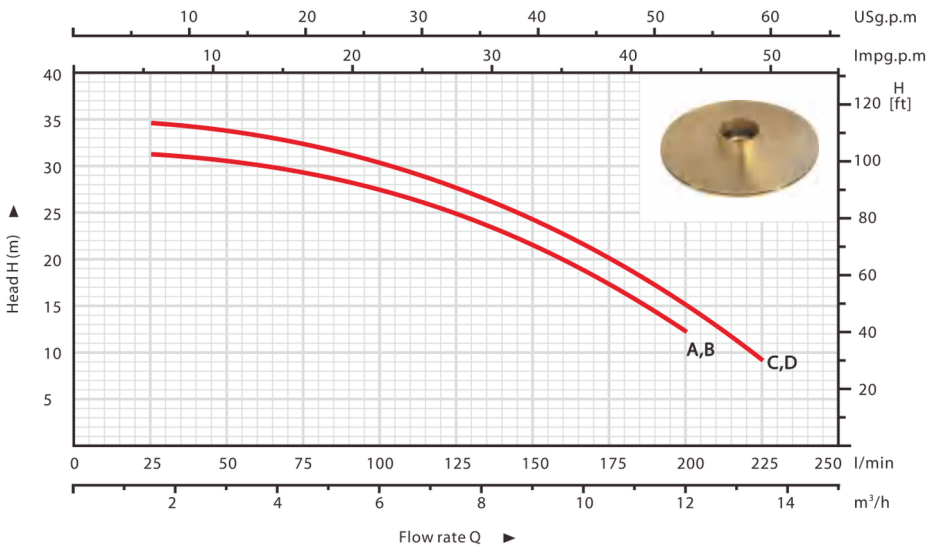
| COMPONENT | CONSTRUCTION |
|---|---|
| Pump body | Cast iron |
| Pump support | Cast iron |
| Motor housing | Aluminium |
| Impeller | Brass |
| Motor shaft | Carbon steel, AISI 304 SS on request |
| Mechanical seal | Ceramic / Graphite |

## PERFORMANCE CHART AT n = 2850 RPM




| NO. | MODEL | POWER kW | POWER HP | Q (m³/h) | 0 | 0.6 | 1.2 | 1.8 | 2.4 | 3 | 3.6 | 4.2 | 4.8 | 5.4 | 6 | 6.6 | 7.2 | 7.8 | 8.4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Q (l/min) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| A | HCm130 | 0.37 | 0.5 | H (m) | 20 | 18.5 | 17 | 15.5 | 14 | 12 | 10 | | | | | | | | |
| B | HCm146 | 0.55 | 0.75 | H (m) | 26 | 25 | 24 | 23 | 21.5 | 20 | 18.5 | 17 | 15 | 13 | 10.5 | 7.5 | | | |
| C | HCm158 | 0.75 | 1 | H (m) | 32 | 30.5 | 29 | 27.5 | 25.8 | 24 | 22.5 | 20.5 | 18.5 | 16 | 13 | 10 | | | |
| D | HCm180 | 1.1 | 1.5 | H (m) | 36 | 35 | 34 | 33 | 31.5 | 30 | 28.5 | 26.5 | 25 | 23 | 20.5 | 18 | 15.5 | | |
| E | HCm190 | 1.5 | 2 | H (m) | 41 | 40 | 39 | 38 | 36.5 | 35 | 33.5 | 32 | 30 | 27.5 | 25 | 22 | 18.5 | 15 | |
| F | HCm200 | 2.2 | 3 | H (m) | 44 | 43 | 42 | 41 | 39.5 | 38 | 36 | 34 | 32 | 29.5 | 26.5 | 23.5 | 20.5 | 17 | 14 |

# CENTRIFUGAL PUMPS “HCm”




| NO. | MODEL | POWER kW | POWER HP | Q (m³/h) | 0 | 1.5 | 3 | 4.5 | 6 | 7.5 | 9 | 10.5 | 12 | 13.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Q (l/min) | 0 | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| A | HCm25-160B | 1.1 | 1.5 | H (m) | 32 | 31.5 | 30.5 | 29.5 | 27.5 | 25 | 21.5 | 17.5 | 12 | |
| B | HCm40-160B | 1.1 | 1.5 | H (m) | 32 | 31.5 | 30.5 | 29.5 | 27.5 | 25 | 21.5 | 17.5 | 12 | |
| C | HCm25-160A | 1.5 | 2 | H (m) | 35 | 34.5 | 34 | 32.5 | 30.5 | 28 | 24.5 | 20 | 15 | 9 |
| D | HCm40-160A | 1.5 | 2 | H (m) | 35 | 34.5 | 34 | 32.5 | 30.5 | 28 | 24.5 | 20 | 15 | 9 |

## TECHNICAL DATA

| NO. | MODEL | INLET / OUTLET (inch) | N.W. (kg) | L × W × H (mm) |
|---|---|---|---|---|
| A | HCm130 | 1" × 1" | 8.5 | 277 × 188 × 245 |
| B | HCm146 | 1" × 1" | 11.5 | 318 × 195 × 250 |
| C | HCm158 | 1" × 1" | 13.5 | 325 × 213 × 268 |
| D | HCm180 | 1" × 1" | 20 | 370 × 255 × 320 |
| E | HCm190 | 1" × 1" | 21 | 370 × 255 × 320 |
| F | HCm200 | 1" × 1" | 20 | 370 × 255 × 320 |
| A | HCm25-160B | 1½" × 1" | 21 | 415 × 245 × 300 |
| B | HCm40-160B | 1½" × 1½" | 21.2 | 415 × 245 × 300 |
| C | HCm25-160A | 1½" × 1" | 22 | 415 × 245 × 300 |
| D | HCm40-160A | 1½" × 1½" | 22.2 | 415 × 245 × 300 |

*Performance values at n = 2850 rpm, 50 Hz. Specifications are subject to change without notice.*