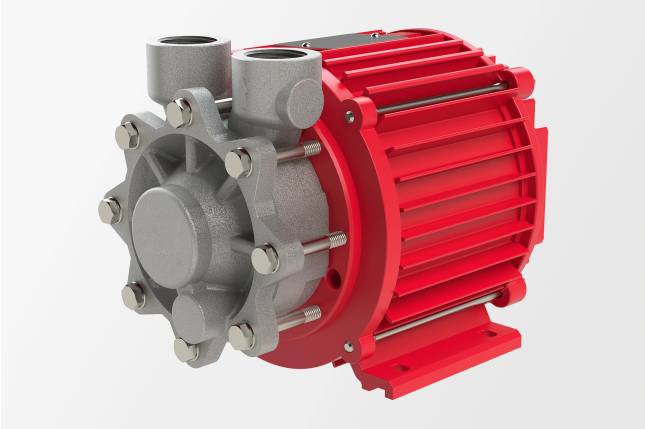
# AY-4271-PM-SR

circutec

# Product data sheet

**Regenerative turbine pump**

Speed-controlled, hermetically sealed, compact and fanless pump



## Description

- Regenerative turbine pump
- Canned motor
- Operation with a frequency converter
- Motor efficiency level better than IE4
- Fanless
- Motor cast with epoxy resin:
  No build-up of condensation
  Improved heat transfer
  Protected from vibration and oscillation
- Compact
- Suitable for the delivery of gas shares
- Long-lasting

## Markets and applications

**Industrial cooling**

- Chillers/cooling machines
- Cooling appliances
- Semiconductor manufacturing
- Direct chip cooling in data centres

**Plastics processing**

- Tool tempering for injection moulding

**Road and rail**

- Cooling of electrical and mechanical vehicle components, e.g. traction coolers, gearboxes and batteries

**Temperature control**

- Laboratory tempering devices
- Hot-water tempering devices
- Oil tempering devices
- Roller tempering
- Tool tempering for aluminium injection moulding
- Tool tempering for plastic injection moulding
- Semiconductor manufacturing

## Get in touch with us!

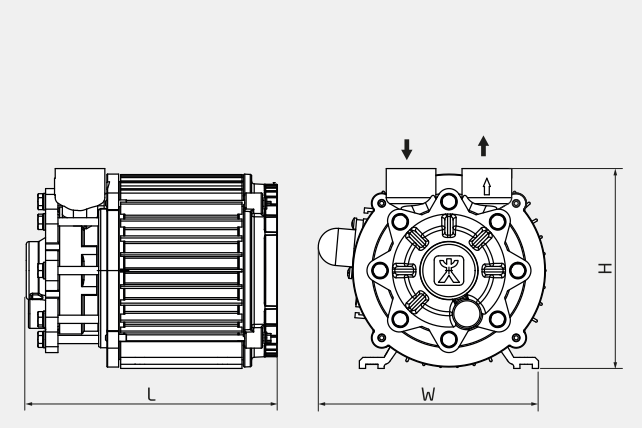
SPECK Australia
Unit 2, 6 Glory Road
Gnangara WA 6077 Australia
Phone NZ: +61 8 6201 1286

**Make a non-binding enquiry**

sales@speckaustralia.com

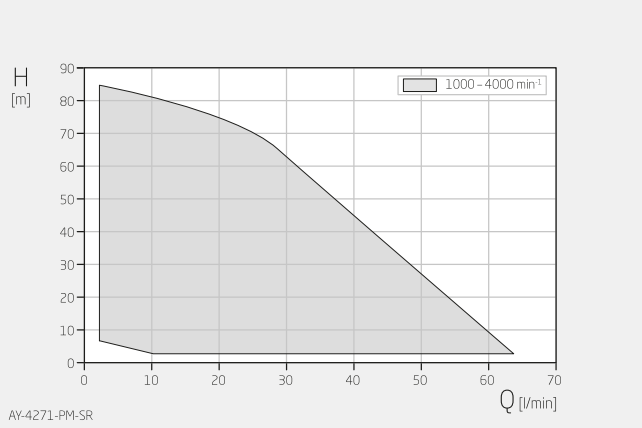
# Technical data

## International system of units, alternating current




| | |
|---|---|
| H | 145 mm |
| W | 165 mm |
| L | 182 mm |

Dimensions may vary depending on the design.

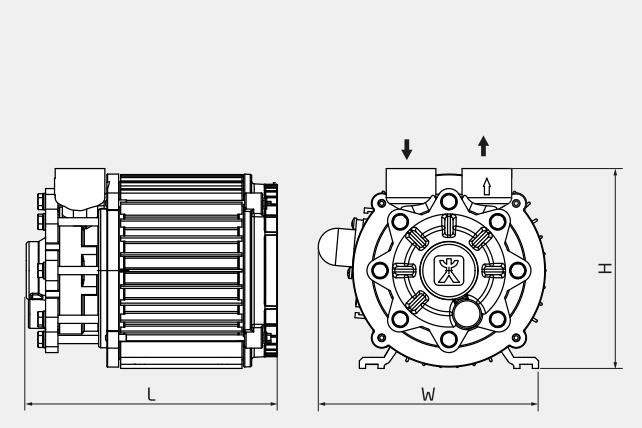



*Specifications apply for water at 20°C*
*Within the displayed characteristic diagrams, each operating point is possible through corresponding parametrisation of the drive.*

| | |
|---|---|
| Product type | Regenerative turbine pump |
| Shaft sealing | None |
| Pump design | Canned motor pump |
| Typical media | Water max. +100 °C<br>Oil max. +100 °C<br>Dielectric inert fluids max. +100 °C |
| Self-priming | No |
| Variable speed | Yes |
| Total head | 5–85 m |
| Flow rate | 3–63 l/min |
| Nominal pressure | PN 16 |
| Motor current type | 3~, DC on request |
| Type of motor | Synchronous motor |
| Nominal motor power | 1.1kW |
| Nominal motor speed | 1000–4000 rpm |
| Suction-side connection design | Thread: G, NPT, Rc/PT |
| Suction-side connection size | G ¾" |
| Pressure-side connection design | Thread: G, NPT, Rc/PT |
| Pressure-side connection size | G ¾" |
| Material designs | Stainless steel |
| Explosion protection | None |

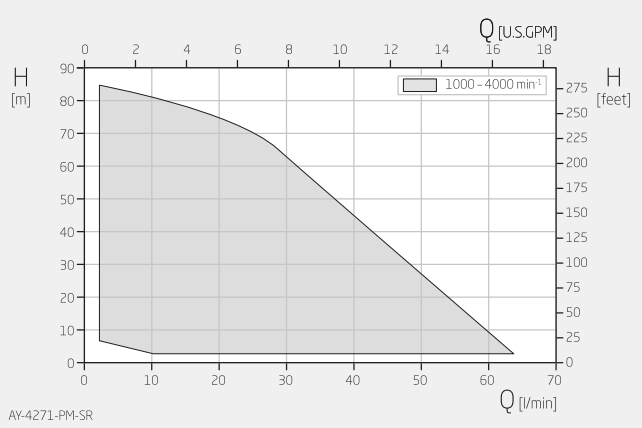
# Technical data

## Anglo-American system of measurement, alternating current

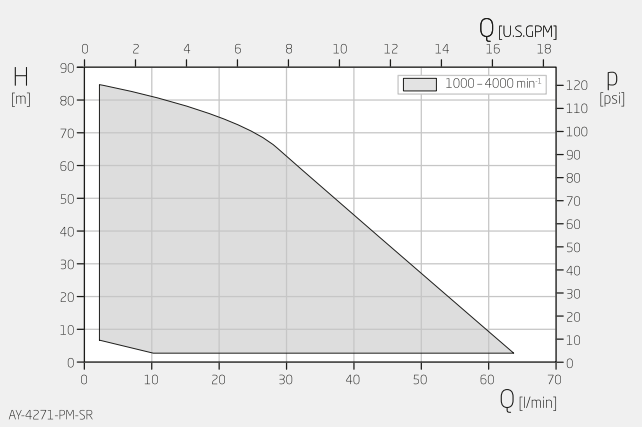



| | |
|---|---|
| H | 5,71 inch |
| W | 6,50 inch |
| L | 7,17 inch |

Dimensions may vary depending on the design.




*Specifications apply for water at 68°F*
*Within the characteristic diagrams, each operating point is possible through corresponding parametrisation of the drive.*




*Specifications apply for water at 68°F*
*Within the characteristic diagrams, each operating point is possible through corresponding parametrisation of the drive.*

| | |
|---|---|
| Product type | Regenerative turbine pump |
| Shaft sealing | None |
| Pump design | Canned motor pump |
| Typical media | Water max. +212 °F<br>Oil max. +212 °F<br>Dielectric inert fluids max. +212 °F |
| Self-priming | No |
| Variable speed | Yes |
| Total head | 16–279 ft |
| Flow rate | 0.8–16.6 USGPM |
| Nominal pressure | PN 16 |
| Motor current type | 3~, DC on request |
| Type of motor | Synchronous motor |
| Nominal motor power | 1.5 HP |
| Nominal motor speed | 1000–4000 rpm |
| Suction-side connection design | Thread: G, NPT, Rc/PT |
| Suction-side connection size | G ¾" |
| Pressure-side connection design | Thread: G, NPT, Rc/PT |
| Pressure-side connection size | G ¾" |
| Material designs | Stainless steel |
| Explosion protection | None |