

Celsior™ -New generation spa bath pumps

**Model Numbers: C200A, C270A, C400A,
C200AB, C270AB, C400AB,
C200TB, C270TB & C400TB**

DEPEND ON
DAVEY

WATER PRODUCTS

SPA BATH PUMPS

PRODUCT DESCRIPTION

The Celsior™ range features an advanced, high efficiency water cooled electric motor combined with a high performance self draining wet end and comes with a selection of control and in-built heater options.

APPLICATIONS

The Celsior™ range is specifically designed to circulate water through spa bath jets to provide a massaging effect. The water cooled heat recovery motor reduces operating noise and maintains the temperature of the spa water for longer.



FEATURES & BENEFITS

Up to 50% quieter than other pumps which provides a more enjoyable spa experience that will not disturb your well deserved relaxation or your neighbours.

With pumps as large as 2 horsepower, and three unique patented features, Celsior™ pumps deliver greater water flow and pressure, enlivening your spa for a complete massaging effect

Davey Heat Recovery technology maintains the temperature of your spa for longer by utilising waste energy which is otherwise lost when using traditional style spa pumps.

Environmentally friendly & highly efficient with up to 97% effective energy usage

High efficiency impeller lowers running costs, delivering savings of up to 15% over older style spa bath pumps

Unique impeller neck ring increases water pressure and flow.

Quick and easy to install using the Davey 'Flexibrax' which makes wall mounting possible with no extra parts and maximises the flexibility and space within your bathroom.

IP56 protective enclosures make Celsior™ ideal for outdoor installation without the need for expensive covers.

Designed to exceed standards for electrical safety, with up to 5 safety devices that monitor environmental and pump conditions.

Designed to self drain free of water after each use. This prevents build up of stale unhygienic water for your peace of mind.

'No water' protection prevents heater operation if the pump is run in the absence of water.

All Celsior™ models feature automatic shutdown protection if the pump is run without water or the suction is blocked.

Quiet, high quality, heavy duty, Davey manufactured pump and motor ensures that the Celsior™ range is of the highest quality.

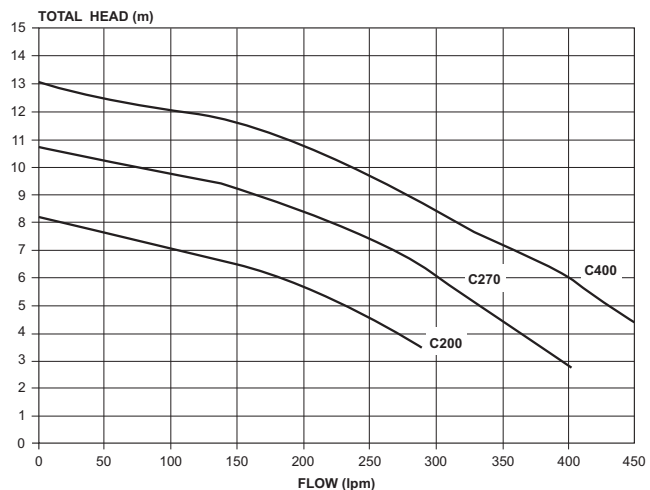
Built-in automatic air bleed, enables air to be released from the pump, to assist priming performance in difficult installations.

TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

| PART | MATERIAL |
|--------------------|----------------------------|
| Pump casing | ABS |
| Impeller | Acetal |
| Impeller neck ring | Glass filled Nylon |
| O-rings | Nitrile rubber |
| Shaft | Low carbon steel |
| Mechanical seal | |
| Rotating face | Composite carbon |
| Stationary face | Ceramic |
| Bearings | Full contact Neoprene seal |
| Motor inner shell | 304 stainless steel |
| Motor outer shell | Glass filled Noryl |
| Barrel unions | ABS |

HYDRAULIC PERFORMANCE



ELECTRICAL DATA

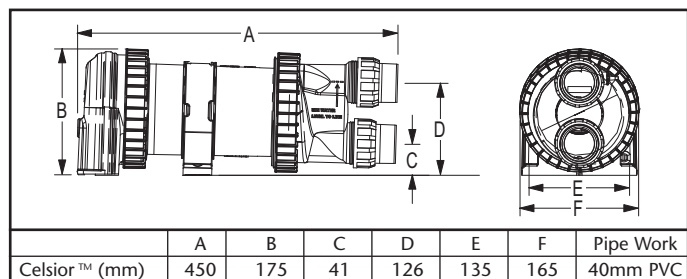
| | C200A | C270A | C400A | C200AB | C270AB | C400AB | C200TB | C270TB | C400TB |
|--------------------------|---------|-------|-------|--------|--------|--------|--------|--------|--------|
| Voltage | 220-250 | | | | | | | | |
| Supply Frequency (Hz) | 50 | | | | | | | | |
| Start Current (A) | 6.8 | 12.2 | 19.8 | 6.8 | 12.2 | 19.8 | 6.8 | 12.2 | 19.8 |
| Run Current (A) | 3 | 3.9 | 6.5 | 3 | 3.9 | 6.5 | 3 | 3.9 | 6.5 |
| Heater Current (A) | - | - | - | 4.2 | | | | | |
| Total Unit Current (A) | 3 | 3.9 | 6.5 | 7.2 | 8.1 | 10.7 | 7.2 | 8.1 | 10.7 |
| Motor Input Power (W) | 690 | 930 | 1500 | 690 | 930 | 1500 | 690 | 930 | 1500 |
| Motor Output Power (W) | 414 | 623 | 1050 | 414 | 623 | 1050 | 414 | 623 | 1050 |
| Heater Input (W) | - | - | - | 1000 | | | | | |
| Effective Heating (W) | 635 | 869 | 1410 | 1635 | 1869 | 2410 | 1635 | 1869 | 2410 |
| Effective Energy Usage % | 92 | 93.4 | 94 | 96.6 | 96.8 | 96.4 | 96.6 | 96.8 | 96.4 |
| Enclosure Class (IP) | 56 | | | | | | | | |
| Insulation Class | F | | | | | | | | |
| Approval Number | Q03981 | | | | | | | | |

OPERATING LIMITS

Maximum water temperature 50°C
 Maximum ambient temperature 55°C
 Sound power levels 60dB(A)

- Capable of pumping 50°C water, however, in-line with health authority recommendations, the thermostatically controlled heater will maintain the water temperature to a maximum of 40°C.

DIMENSIONS



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