

Thermatic® Fans

Thermatic® Switches

Effective Cooling for your Vehicle
Universal Fit

ALSO SUITABLE FOR

Primary cooling

Auxillary cooling

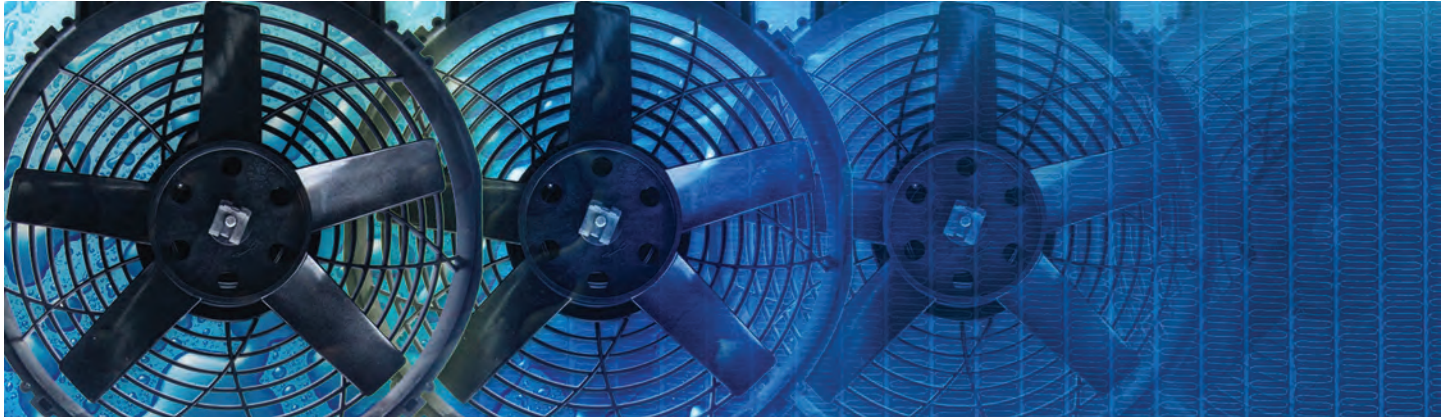
Air conditioning/condenser replacement fan

Available in 8", 9", 10", 11", 12", 14" and 16"



**DAVIES,
CRAIG** PTY. LTD.

INNOVATION - QUALITY - RANGE



Thermatic® Fans

The continued influx of SUVs, the downsizing of passenger motor vehicles and the global pressure on car manufacturers to reduce fuel consumption has led to the rapid growth in the use of electric Thermatic® Fans.

An efficient, economical method of automotive cooling, electric fans, along with electric water pumps are ranked as the fastest growing segments within the 'Cooling Systems Technology' groups around the world today.

Davies, Craig Thermatic® Fans can provide a variety of benefits as a primary or secondary engine cooling source.

Davies, Craig Thermatic® Fans are suitable for both condenser (air conditioning) and radiator (engine) cooling. An efficient and economical method of automotive cooling, Thermatic® Fans are one of the most important cooling components on any vehicle.

- **12 volt and 24 volt models available.**



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Questions? Please see "frequently-asked questions" on our website: www.daviescraig.com.au

Unless otherwise specified:

FANS INCLUDE fan assembly (motor, fan blade, shroud and mounting feet) and instruction sheet.

These fan assemblies are set up for upstream applications. For downstream applications the fan blade must be removed and turned over and the polarity reversed. Always check that the fan blade rotates in the direction shown by the arrows on the blade before making a permanent wiring connection and prior to fastening the unit to the radiator.

How do I convert from a fan clutch to a Thermatic® Fan?

Mechanical fans and/or fan clutches rely on mechanical drive from the engine in order to operate appropriately.

Fan Clutches are fluid coupling devices with built-in thermostat coil spring that detects the air temperature passing through the radiator and utilizes a clutch to engage or disengage the fan at a specified engine speed or temperature.

However, the fan's clutch never fully disengages; it keeps spinning at about 30 percent of the water pump speed at all times.

The clutch also limits how fast the fan can spin and only turns the fan at a fraction of the water pump speed, depending on engine speed and temperature.

Thermatic® Fans, on the other hand, operate totally independently and are controlled by a Thermatic® Switch which can be adjusted to engage at your engine's thermostat opening temperature to offer maximum cooling effect.

Considered a step up from fan clutches, Thermatic® Fans are typically lighter and release the parasitic power your engine expends spinning your fan clutch or belt-driven mechanical fan.

With no parasitic power loss and all the great benefits we mentioned above, Davies Craig Thermatic® Fans have become the preferred choice for many performance enthusiasts.

Select a Davies Craig Thermatic® Fan model which best suits your engine by using the measurement criteria below.



WARRANTY STATEMENT

THERMATIC® FANS & THERMAL SWITCHES

We hereby guarantee that for a period of two years or 1,500 hours (whichever is the lesser) from the date of purchase we shall carry out free of cost any repairs that are reasonably necessary to correct any fault in the operation of your Thermatic® Fan provided that such a fault is directly attributable to a defect in the workmanship or the materials used in the manufacture of the Thermatic® fan. Labour and consequential costs excluded.

— DAVIES, CRAIG PTY LTD

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What size Thermatic® Fan do I need?

If your car make is not listed in our Model Selection Guide (see the Davies, Craig website, www.daviescraig.com.au) we suggest the following:

1. Measure your radiator core dimensions (width, depth and clearance - refer diagram below) and refer to "Fan Models" to check which fan/s will fit your core.
2. Davies Craig Thermoic® Fans are reversible (Ex: Brushless models) which means they can be mounted upstream or downstream, as illustrated below.
3. In general, one large fan will have better airflow than two smaller fans. Where radiator is rectangular there may be no

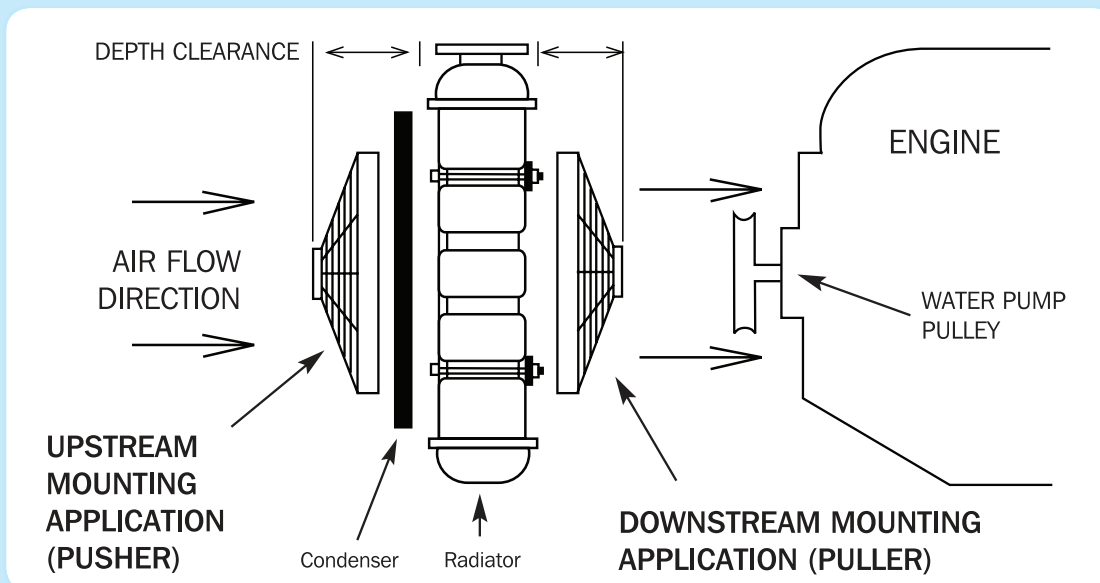
choice but to fit two smaller fans; choose the largest that can be accommodated in space available.

The fan can also be mounted offset from centre to clear engine components when mounted in the downstream position.

Note: Fans should not be fitted on opposite sides of radiator core unless these are offset such that the airflow of one is not interfering with the airflow of the other.

4. If you require advice, please contact Davies, Craig for assistance:

Phone: +61 3 9369 1234 or
Email: info@daviescraig.com.au



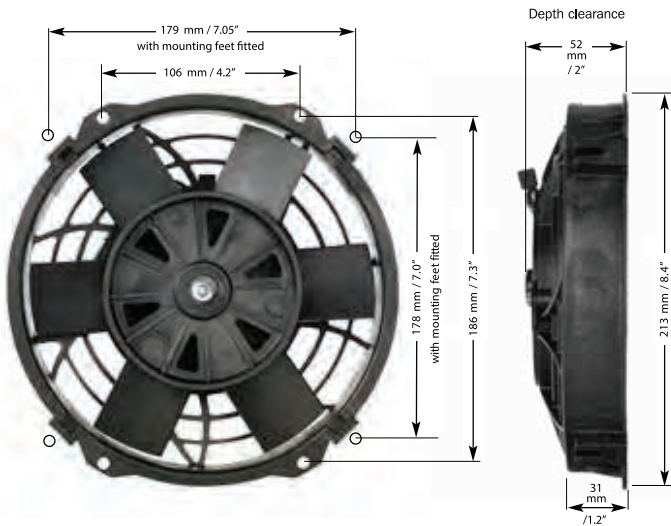
8" Thermatic® Fan

12V - Part # 0135
24V - Part # 0136

12 Volt	Part #	Description
	0135	8" Thermatic® Fan

24 Volt	Part #	Description
	0136	8" Thermatic® Fan

Dimensions



Specifications

Airflow	400 CFM (ft ³ /min)
Maximum current	5.0A (12 Volt) 2.4A (24 Volt)
Weight	0.88 kg (1.94 lb)

Components

Part #	Description
0213	Motor (12 Volt)
0215	Motor (24 Volt)
0328	Rotor (reversible, glass-filled nylon)
0372	Shroud (glass-filled polypropylene)
0604	Mounting feet

Universal Fan Fitting Kits (sold separately)

Part #	Description
1000	Universal Fitting Kit (12 Volt)
1001	Universal Fitting Kit (24 Volt)



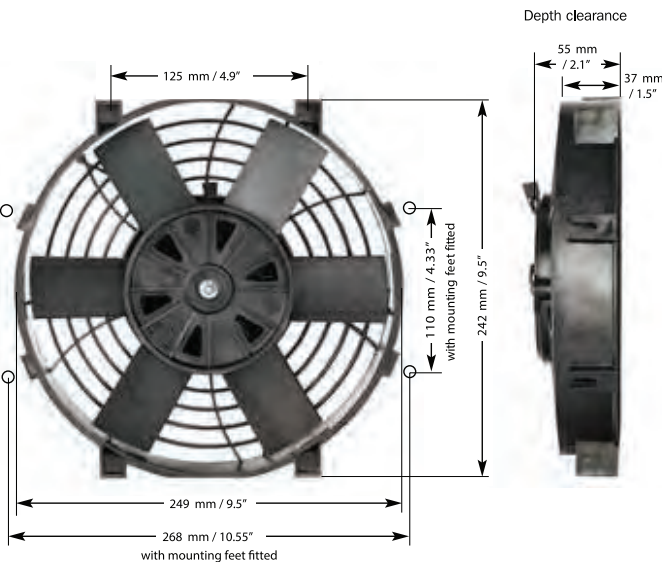
9" Thermatic® Fan

Part # 0160
Part # 0161

12 Volt	Part #	Description
	0160	9" Thermatic® Fan

24 Volt	Part #	Description
	0161	9" Thermatic® Fan

Dimensions



Specifications

Airflow	591 CFM (ft ³ /min)
Maximum current	6.5A (12 Volt) 3.25 (24 Volt)
Weight	0.93 kg (2 lb)

Components

Part #	Description
0213	Motor (12 Volt)
0215	Motor (24 Volt)
0320	Rotor (reversible, glass-filled nylon)
0364	Shroud (glass-filled polypropylene)
0604	Mounting feet

Universal Fan Fitting Kits (sold separately)

Part #	Description
1000	Universal Fitting Kit (12 Volt)
1001	Universal Fitting Kit (24 Volt)

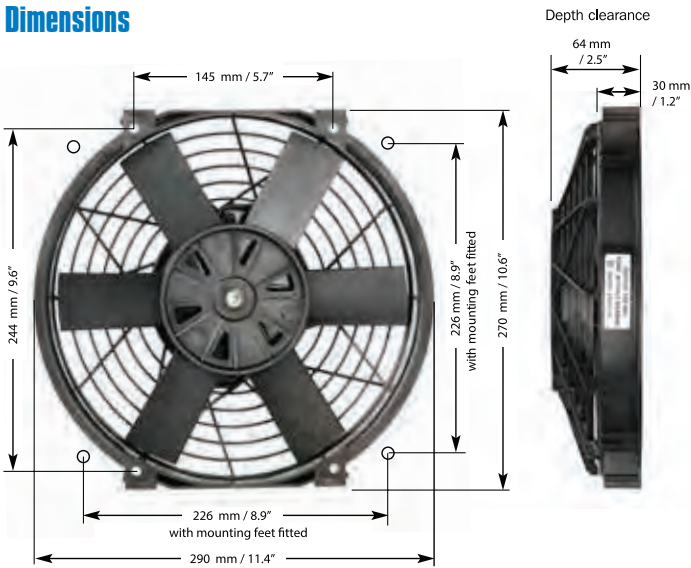


10" Thermatic® Fan

12V - Part # 0145
24V - Part # 0146

Voltage	Part #	Description
12 Volt	0145	10" Thermatic® Fan
24 Volt	0146	10" Thermatic® Fan

Dimensions



Specifications

Airflow	693 CFM (ft3/min)
Maximum current	7.0A (12 Volt) 3.5A (24 Volt)
Weight	1.13 kg (2.5 lb)

Components

Part #	Description
0213	Motor (12 Volt)
0215	Motor (24 Volt)
0317	Rotor (reversible, glass-filled nylon)
0365	Shroud (glass-filled polypropylene)
0604	Mounting feet

Universal Fan Fitting Kits (sold separately)

Part #	Description
1000	Universal Fitting Kit (12 Volt)
1001	Universal Fitting Kit (24 Volt)

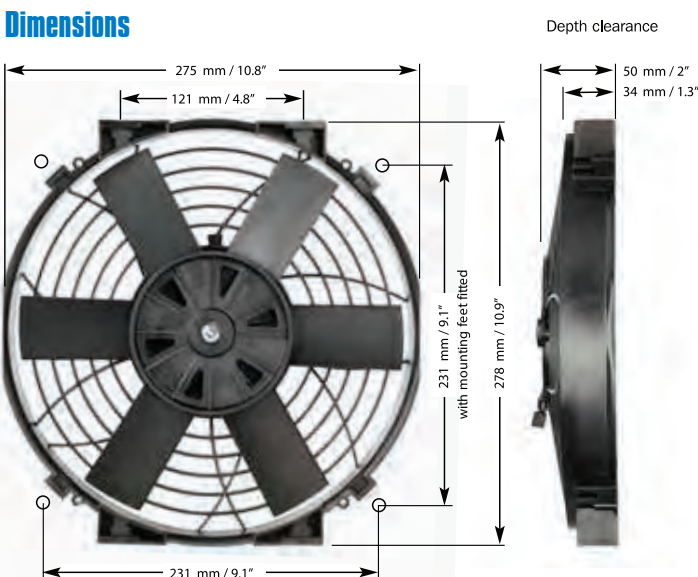


10" Slimline Thermatic® Fan

Part # 0147
Part # 0148

Voltage	Part #	Description
12 Volt	0147	10" Slimline Thermatic® Fan
24 Volt	0148	10" Slimline Thermatic® Fan

Dimensions



Specifications

Airflow	696 CFM (ft3/min)
Maximum current	7.0A (12 Volt) 3.5A (24 Volt)
Weight	1.13 kg (2.5 lb)

Components

Part #	Description
0213	Motor (12 Volt)
0215	Motor (24 Volt)
0317	Rotor (reversible, glass-filled nylon)
0375	Shroud (glass-filled polypropylene)
0604	Mounting feet

Universal Fan Fitting Kits (sold separately)

Part #	Description
1000	Universal Fitting Kit (12 Volt)
1001	Universal Fitting Kit (24 Volt)

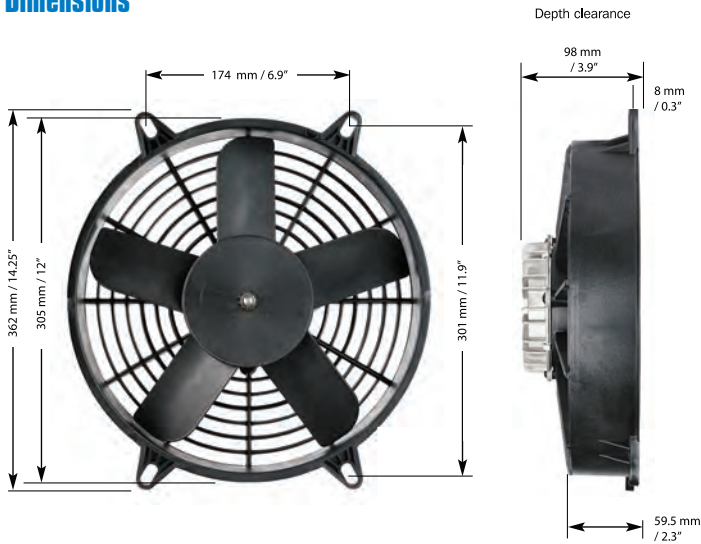


11" Brushless Thermatic® Fan

12V - Part # 0120

12 Volt	Part #	Description
	0120	11" Brushless Thermatic® Fan

Dimensions



Specifications

Airflow	1050 CFM (ft3/min)
Maximum current	11.0A (12 Volt)
Weight	2.2 kg (2 lb)

Components

Description
Motor (12 Volt)
Rotor (glass-filled nylon)
Shroud (glass-filled polypropylene)

Universal Fan Fitting Kits [sold separately]

Part #	Description
1000	Universal Fitting Kit (12 Volt)



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12" Thermatic® Fan

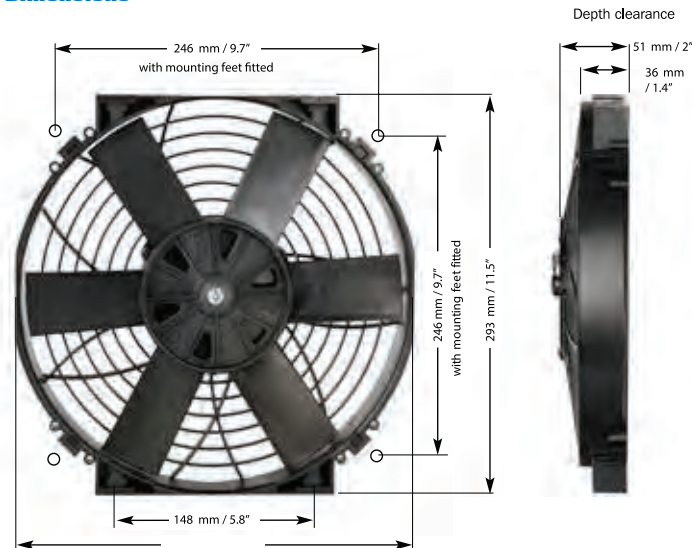
12V - Part # 0162

24V - Part # 0163

12 Volt	Part #	Description
	0162	12" Thermatic® Fan

24 Volt	Part #	Description
	0163	12" Thermatic® Fan

Dimensions



Specifications

Airflow	847 CFM (ft3/min)
Maximum current	9.0A (12 Volt) 4.5 (24 Volt)
Weight	1.45 kg (2 lb)

Components

Part #	Description
0223	Motor (12 Volt)
0224	Motor (24 Volt)
0326	Rotor (reversible, glass-filled nylon)
0370	Shroud (glass-filled polypropylene)
0604	Mounting feet

Universal Fan Fitting Kits [sold separately]

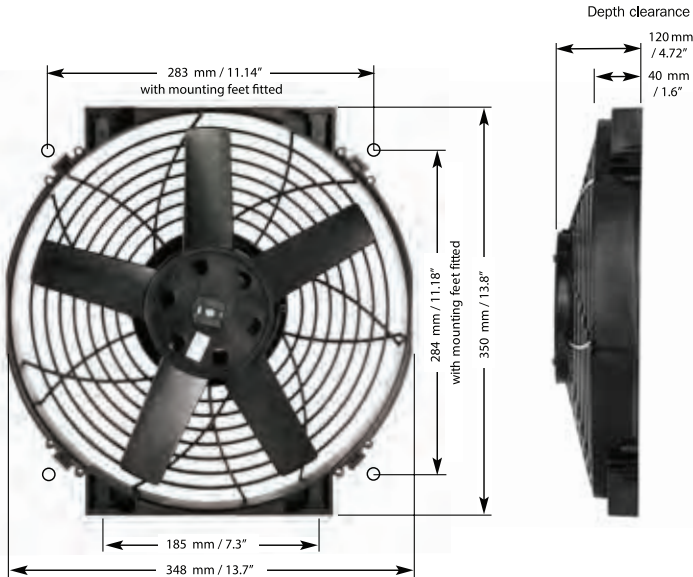
Part #	Description
1000	Universal Fitting Kit (12 Volt)
1001	Universal Fitting Kit (24 Volt)



14" Brushless Thermatic® Fan

12V - Part # 0140

12 Volt	Part #	Description
	0140	14" Brushless Thermatic® Fan



Specifications

Airflow	1021 CFM (ft3/min)
Maximum current	8.0A (12 Volt)
Weight	2.2 kg (4.85 lb)

Components

Part #	Description
0230	Motor (12 Volt)
0318	Rotor (glass-filled nylon)
0371	Shroud (glass-filled polypropylene)
0604	Mounting feet

Universal Fan Fitting Kits (sold separately)

Part #	Description
1000	Universal Fitting Kit (12 Volt)



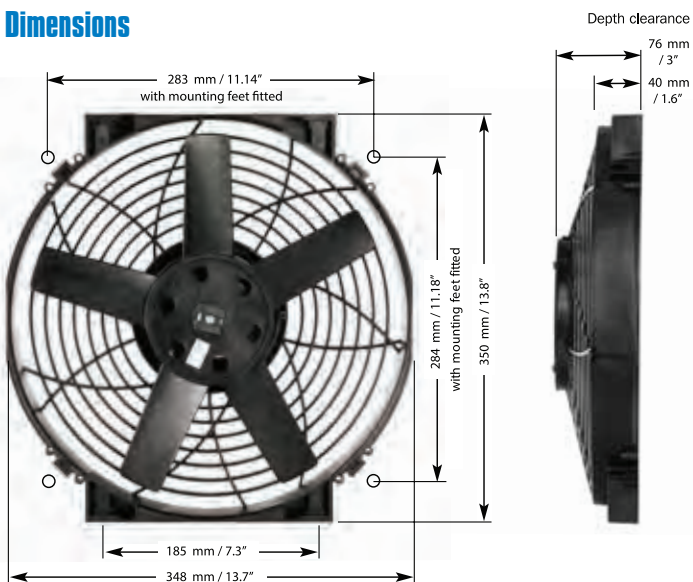
14" Slimline Thermatic® Fan

12V - Part # 0164
24V - Part # 0165

12 Volt	Part #	Description
	0164	14" Slimline Thermatic® Fan

24 Volt	Part #	Description
	0165	14" Slimline Thermatic® Fan

Dimensions



Specifications

Airflow	1021 CFM (ft3/min)
Maximum current	11.0A (12 Volt) 5.5 (24 Volt)
Weight	1.5 kg (2 lb)

Components

Part #	Description
0205	Motor (12 Volt)
0206	Motor (24 Volt)
0318	Rotor (reversible, glass-filled nylon)
0371	Shroud (glass-filled polypropylene)
0604	Mounting feet

Universal Fan Fitting Kits (sold separately)

Part #	Description
1000	Universal Fitting Kit (12 Volt)
1001	Universal Fitting Kit (24 Volt)



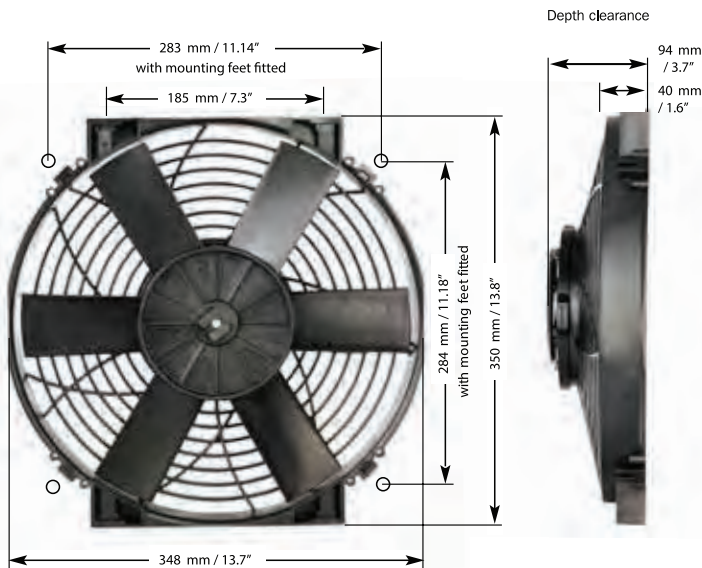
14" Hi-Power Thermatic® Fan

12V - Part # 0107
24V - Part # 0108

12 Volt	Part #	Description
	0107	14" Hi-Power Thermatic® Fan

24 Volt	Part #	Description
	0108	14" Hi-Power Thermatic® Fan

Dimensions



Specifications

Airflow	1500 CFM (ft3/min)
Maximum current	13.0A (12 Volt) 6.5 (24 Volt)
Weight	2.5 kg (2 lb)

Components

Part #	Description
0220	Motor (12 Volt)
0221	Motor (24 Volt)
0327	Rotor (reversible, glass-filled nylon)
0371	Shroud (glass-filled polypropylene)
0604	Mounting feet

Universal Fan Fitting Kits (sold separately)

Part #	Description
1000	Universal Fitting Kit (12 Volt)
1001	Universal Fitting Kit (24 Volt)



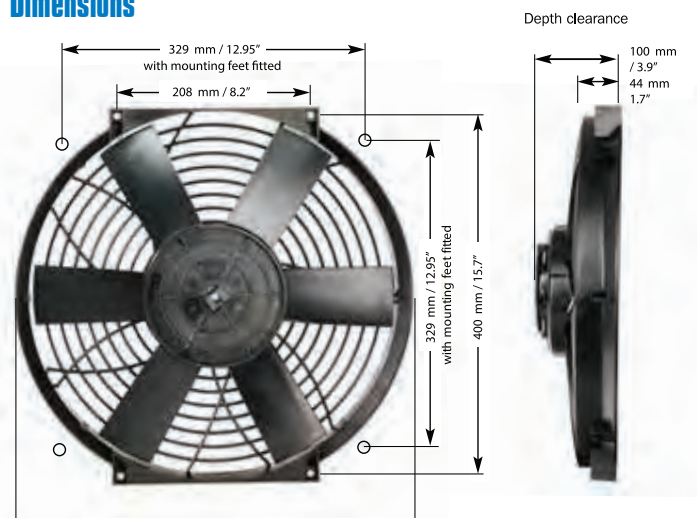
16" Thermatic® Fan

12V - Part # 0166
24V - Part # 0172

12 Volt	Part #	Description
	0166	16" Thermatic® Fan

24 Volt	Part #	Description
	0172	16" Thermatic® Fan

Dimensions



Specifications

Airflow	2120 CFM (ft3/min)
Maximum current	19.0A (12 Volt) 9.5 (24 Volt)
Weight	3.0 kg (6.6 lb)

Components

Part #	Description
0220	Motor (12 Volt)
0221	Motor (24 Volt)
0322	Rotor (reversible, glass-filled nylon)
0366	Shroud (glass-filled polypropylene)
0604	Mounting feet

Universal Fan Fitting Kits (sold separately)

Part #	Description
1000	Universal Fitting Kit (12 Volt)
1001	Universal Fitting Kit (24 Volt)



Accessories

12 Volt - Part #1000 24 Volt - Part #1001

Universal Fan Fitting Kit

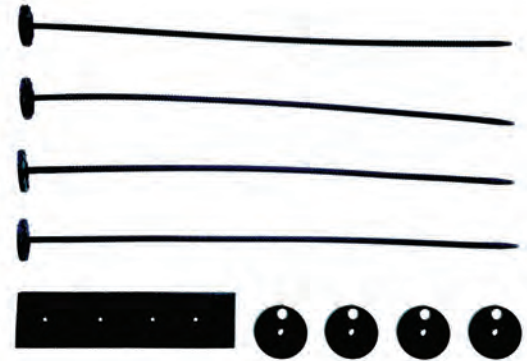
The Davies, Craig Universal Fan Fitting Kit includes all parts necessary for mounting and wiring any 12- and 24-volt electric fans - including all Davies, Craig Thermatic® Fans and other electric fan models.



Part #0579

Quick Fit Kit

The Davies, Craig Quick Fit Kit can be used for mounting any of the entire range of Davies, Craig's Thermatic® Fans and other electric fan models.



Part #1035

Low Coolant Level Alarm

12 & 24 Volt

The Davies, Craig Low Coolant Level Alarm monitors coolant levels in engines to help prevent overheating and consequential failure.

It simply fits to your engine's top radiator hose and alerts you to the loss of engine coolant.

This kit's module, mounted in the driving compartment, will sound an audible alarm and flash a bright red LED when the engine coolant level drops.

This situation can occur when a radiator hose splits or frays and starts to lose the engine's coolant, or if the vehicle's radiator were to spring a leak in the core.



Part #0422

Twin Fan Mounting Brackets

The Davies, Craig Twin Fan Mounting Brackets is designed to attach either two Davies, Craig 8" to 14" Thermatic® Fans or a single 16" Thermatic® Fan.

The Twin Fan Mounting Bracket Kit offers the freedom to preassemble the fans outside the engine bay. It also provides flexible positioning of the complete assembly on to the radiator without the need to connect through the radiator core. Length: 760mm.



Davies, Craig offers a full range of accessories and spare parts, including:

► fan blades ► shrouds ► mounting kits ► DC motors

For details, please: See the Davies, Craig website: www.daviescraig.com.au
Call Davies, Craig: +61 3 9369 1234
Email Davies, Craig: info@daviescraig.com.au



Thermatic® Fan Switches

Davies, Craig offers three types of Thermatic® Fan Switches:

- Part #0444 senses air temperature near the top radiator hose as it passes through the radiator or senses coolant temperature (with #0409) for single or twin fan operation.
- Part #0455 Premium Thermatic Switch senses both air or coolant temperatures (with #0409), single or twin fan operation, attractive dashboard mounted monitor.
- Part #0401 senses the coolant temperature after it passes through the engine block prior to entering the radiator.

Part #0400 is a combination of the unit #0401 (opposite) and the #0409 Hose Adaptor (opposite), offering probe placement in the top radiator hose.

Part #0444

Digital Thermatic® Fan Switch

12 & 24 Volt

The Digital Thermatic® Fan Switch can sense air or coolant temperature to automatically activate the Thermatic® Fans at your set/targeted temperature when extra cooling is needed.

With dual relays, the switch provides dual fan activation up to 50 Amps at an engine temperature range of 40°C to 110°C (104° to 230°F). Equipped with a proven sensor positioned for accurate temperature readings.

Simple, convenient DIY fitting.

Note: #0409 must be used for top radiator hose fitment.



Thermatic® Fan Switches feature:

- automatically activate the Thermatic® Fans at the set/targeted temperature when cooling is required;
- can be adjusted over a wide temperature range by simply turning a knob located on the control switch (#0401).
Push-button scrolling through the 40°C to 110°C temperature range (#0444 & #0455);
- can be employed to operate the Electric Water Pump when operated as an auxiliary pump to the mechanical water pump;
- are ideal for dual-fan operation (#0444 & #0455).

Part #0455

Premium Digital Thermatic® Switch

12 & 24 Volt

The Premium Digital Thermatic® Switch automatically activates single or twin fans or a fan and Electric Water Pump at your set/targeted temperature when extra cooling is required.

Attractive compact dashboard, driving compartment mounting LED display module, this state-of-the-art switch can also operate your air conditioning fan.

- **Temperature Set LED**
- **Seperate LED indicators for each fan**
- **Air Conditioning override LED**
- **Temperature Sensor short circuit display**

The 5mm probe can be placed in the fins at the top of the radiator sensing air or in the top radiator hose (with #0409) to sense the engine coolant temperature.



Questions? Please see "frequently-asked questions" on our website: www.daviescraig.com.au

Thermatic® Fan Switches

Part #0401

Mechanical Thermatic® Switch (12V & 24V)

The Mechanical Thermatic® Switch is adjustable from 40° to 100°C (104° to 212°F).

The Thermatic® Switch is mounted near the radiator and the stainless steel probe fitted inside the radiator hose.

The Thermatic® Switch is then connected to the ignition circuit for operation.



Part #0400

Thermatic® Switch Combo 12 & 24 Volt

Part #0400 is a combination of the unit #0401 and the #0409 Hose Adaptor, offering probe placement in the top radiator hose.

The thermal switch is adjustable from 40° to 100°C (104° to 212°F). No need to squeeze the probe of the Mechanical Thermal Switch between the radiator inlet and radiator hose. This simple kit allows easy fitting directly into the radiator hose.



Part #0404

Mechanical Thermatic® Switch (12V & 24V) plus Relay for Air Conditioning

The Mechanical Thermatic® Switch is adjustable from 40° to 100°C (104° to 212°F).

The Thermatic® Switch is mounted near the radiator and the stainless steel probe fitted inside the radiator hose. The Thermatic® Switch is then connected to the ignition circuit for operation.

The Thermatic® Switch and relay kit enables a fan to operate both thermally and also when the air conditioning is running.



Part #0409

Temperature Sensor Adaptor Kit

No need to squeeze the probe of the Mechanical Thermatic® Switch between the radiator inlet and radiator hose, or the radiator fins.

This simple, economical Adaptor Kit allows easy fitting directly into the top radiator hose. Just fit the probe into the compression fitting, remove about 17mm (2/3") of radiator hose, fit the adaptor between each hose and secure the hose clamps. The kit comes complete, as shown, for a watertight and effective probe installation. Extra rubber sleeves are supplied to enable fitment to radiator hose sizes from 32mm to 40mm (1¼" to 1½") diameter.

Suits all temperature sensors with either a 5mm (3/16") or a 6mm (1/4" outside diameter and temperature gauge senders with 6mm (1/4") NPT thread.

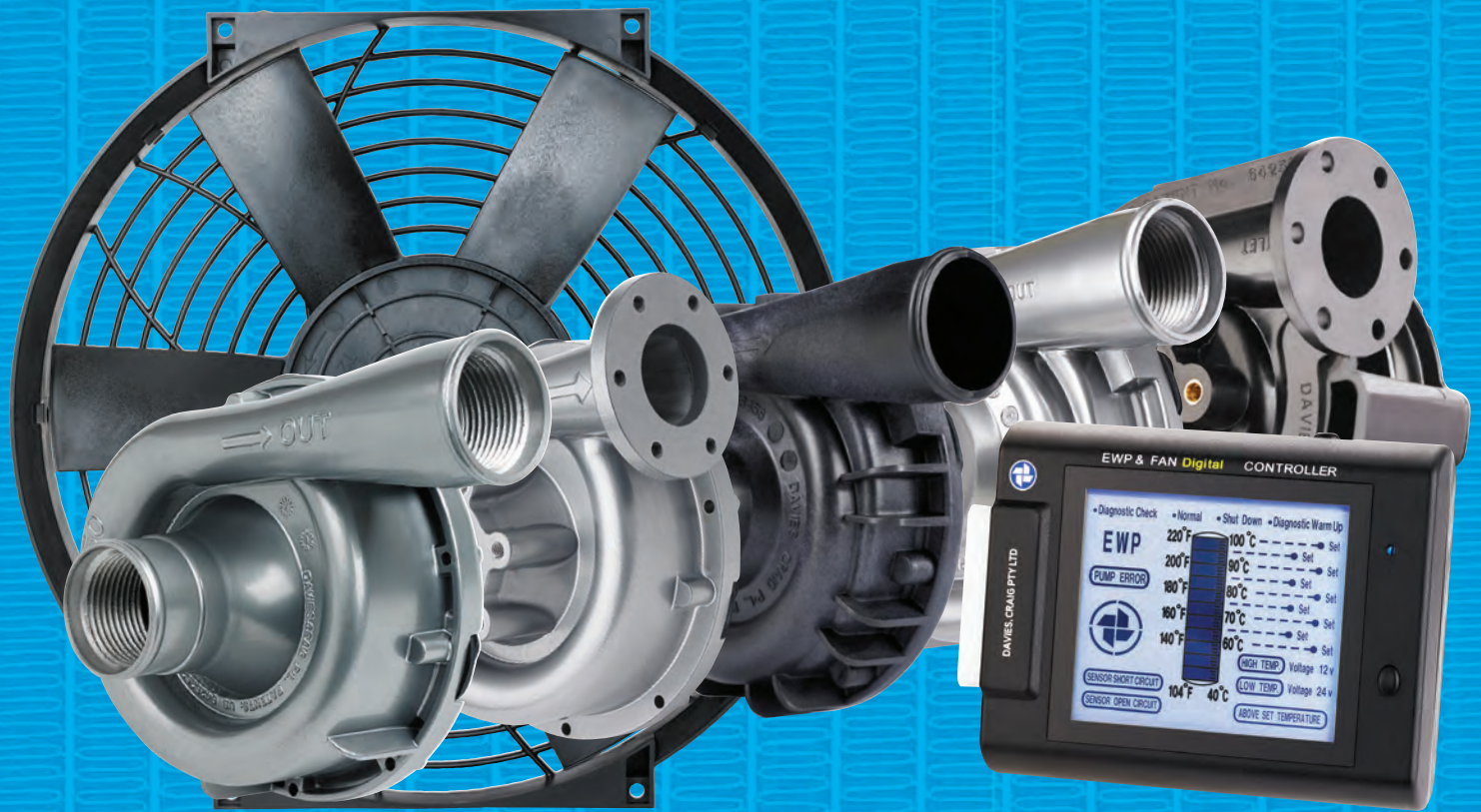
Note: This is an accessory for use with #0401, #0404, #0444 and #0455 Thermatic® Switches.





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Electric Water Pumps
Thermatic® Fans
Digital Controller



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INNOVATION - QUALITY - RANGE

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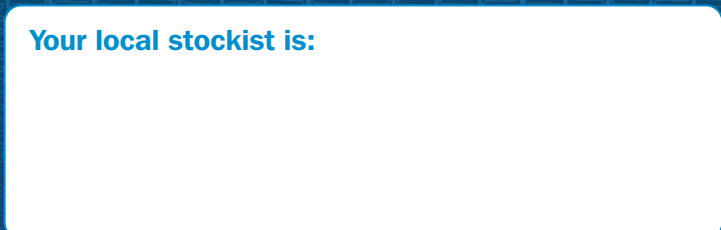
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