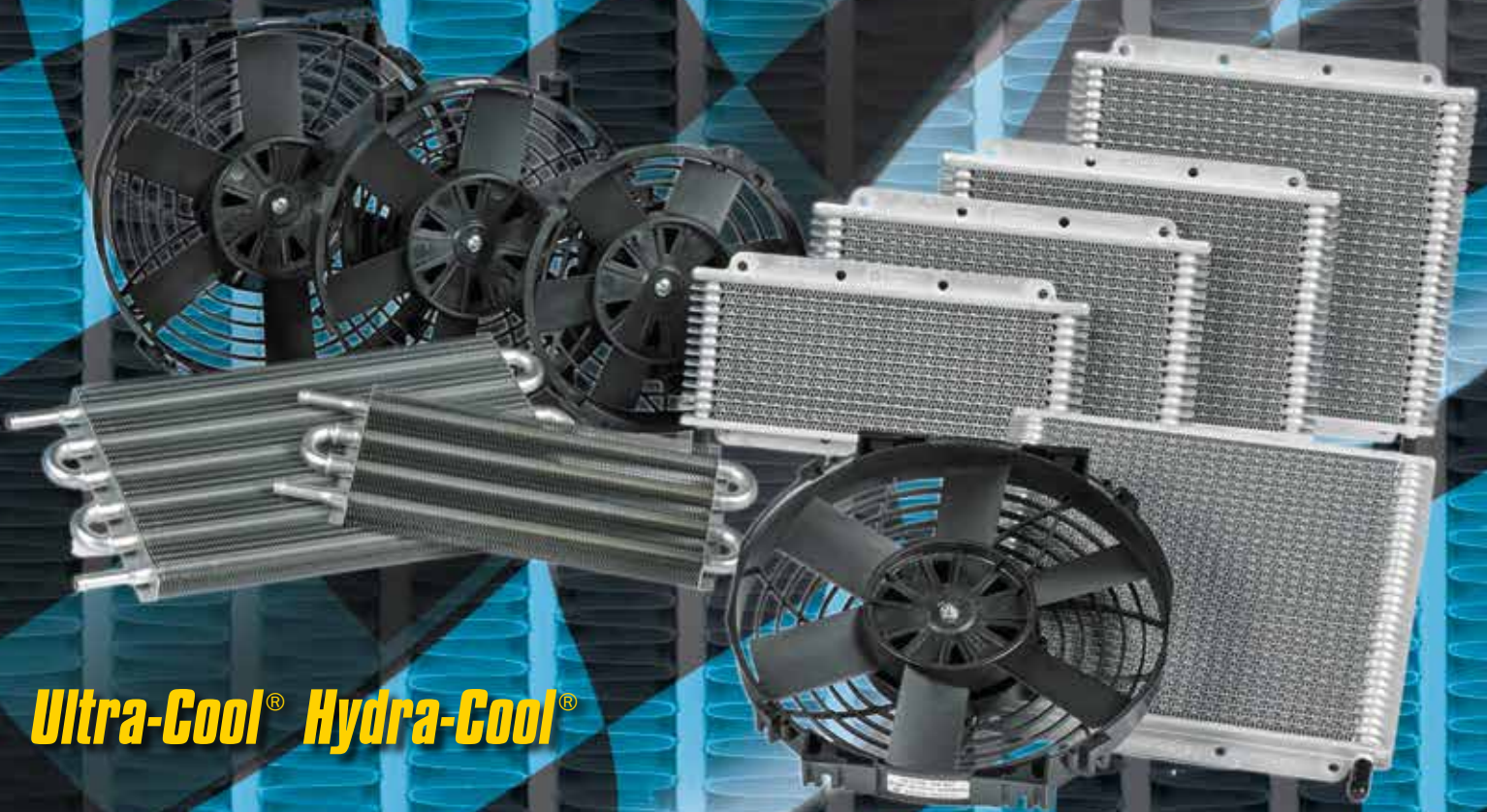


Transmission Oil Coolers

ORCAER[®]

World's best auto cooling



Ultra-Cool[®] Hydra-Cool[®]

Power Steering Oil Cooler



Australian Made 

Because of the tremendous heat generated in an automatic transmission, an auxiliary transmission oil cooler is an economical way to help protect against costly transmission repairs.

Automatic transmission fluid (ATF) cools, lubricates and cleans internal transmission components. When transmission temperatures exceed 93°C (200°F), the ability of ATF to perform is greatly diminished.

Subsequently, the life span of the fluid, seals and moving parts are significantly reduced. Higher internal temperatures also increase the wear rate of the friction and clutch plates.

Davies, Craig transmission oil coolers can reduce the ATF's temperature by as much as 33°C (60°F). A reduction of just 11°C (20°F) can double the life of an automatic transmission, the fluid and all internal parts.

Excessive transmission heat is caused by the following driving conditions:

- Towing or carrying heavy loads
- 4WD & off-road
- Stop-and-go traffic
- Hot driving conditions
- Driving in sand or snow
- Motor Racing

Two types of Transmission Oil Coolers

Hydra-Cool® Plate and Fin style

The Hydra-Cool transmission oil cooler is an effective and economical way to keep the transmission at its optimum operating temperature. High-efficiency turbulators in each tube direct the fluid for superior heat transfer.



Hydra-Cool's unique plate and fin design allows for effective cooling, yet requires 33% less space. The Hydra-Cool's compact design is perfect for applications where available mounting space is limited.

Ultra-Cool® Tube and Fin style

The Ultra-Cool finned-tube contemporary style oil cooler core is designed in the traditional and classical style heat exchange assembly.

These cores are proposed for installation to the earlier automatic transmissions produced and sold prior to 1990. Their simple design and surface area will assist extract damaging heat from the transmission in order to keep the ATF at a manageable temperature and the transmission operating smoothly.



Power Steering Oil Cooler

A power steering oil cooler removes destructive heat generated within a power steering system, especially in vehicles with large tyres such as performance vehicles, off-road vehicles and vehicles used for towing or carrying heavy loads. A reduction of just 11°C (20°F) can double the life of power steering, the fluid and all internal parts.



Transmission Oil Cooler Kits

Enhance your automatic transmission cooling capabilities by installing either the 21-plate or 30-plate Hydra-Cool® Combo Kit coupled with either the 8" or 10" Slimline Thermatic Fan. Greater mounting flexibility with these combo packs enables you to further control and direct air flow through the Hydra-Cool® core. Plus, both Thermatic Fans are fully reversible offering reverse polarity and can be mounted to the core to operate in either 'push' or 'pull' mode.

Note: may require either Part #0401 or #0444 (switch) to operate fan.



Transmission Oil Cooler Selection

Universal Kits - Model Selection Guide

Vehicle Type	Year of Manufacture	Engine Capacity	APPLICATION	
			Medium Duty Part #	Heavy Duty Part #
Sedan / Wagon	Up to 1990*	Up to 2.0 litre	401	403
		2.0 - 4.0 litre	403	404
		4.0 litre and over	404	676 or 677
Commercial	Up to 1990*	Up to 2.0 litre	401	403
		2.0 - 4.0 litre	404	676 or 677
		4.0 litre and over	678 or 679 or 691 or 698	678 or 679 or 691 or 698
Sedan / Wagon	1990 to Present	Up to 2.0 litre	676	677
		2.0 - 4.0 litre	677	678 or 679 or 691 or 698
		4.0 litre and over	678 or 679 or 691 or 698	678 or 679 or 691 or 698
Light Commercial (12 Volt circuit, Automatic Trans.)	1990 to Present	Up to 2.0 litre	676	677 or 678
		2.0 - 4.0 litre	677	678 or 679 or 691 or 698
		4.0 litre and over	678 or 679 or 691 or 698	678 or 679 or 691 or 698
Light Commercial (24 Volt circuit, Automatic Trans.)		Up to 2.0 litre	699 or 692	699 or 692
		2.0 - 4.0 litre	699 or 692	692
		4.0 litre and over	692	692
V8s & 4WDs	1990 to Present	Up to 2.0 litre	676	677
		2.0 - 4.0 litre	678 or 679 or 691 or 698	678 or 679 or 691 or 698
		4.0 litre and over	678 or 679 or 691 or 698	678 or 679 or 691 or 698
Ford EA-ED	all models	6 cyl.	677	677
Ford EA-ED	all models	V8	678	678
GM-Holden	all models	6 cyl. & V8	Select Part # as above plus #1005	Select Part # as above plus #1005

*Note: **Hydra-Cool** Transmission Coolers are suitable for all vehicles.

Ultra-Cool Transmission Coolers are only recommended for vehicles manufactured prior to 1990.

#1005 is an Adaptor Kit to suit 5/16" (8mm) inlet/outlet tube for GM transmissions

Power Steering Oil Cooler

Power Steering Selection Guide

Vehicle Type	Part #
All vehicles with 3/8" (9.5mm) Inlet/Outlet tube	1009

Note: Parts #401, #403 & #404 kits can be installed as heavy-duty Power Steering Coolers.



WARRANTY STATEMENT

TRANSMISSION OIL COOLERS & POWER STEERING OIL COOLER

We hereby guarantee that for a period of two years from the date of purchase or 40,000km (whichever comes first) we shall carry out free of cost any repairs/replacements to the transmission oil cooler provided that such a fault is directly attributable to a defect in the workmanship or materials used in the manufacture of the transmission oil cooler. Labour and consequential costs excluded.



Hydra-Cool® Transmission Oil Cooler

Features:

- 100% pressure tested at 150psi for quality assurance
- 33% more efficient than a comparable tube and fin design
- Pre-drilled mounting plates for easy installation
- Five sizes available to fit a wider range of applications
- Internal turbulation for efficient heat transfer
- 3/8" (9.5 mm) push-on fittings for quick and easy installation.
- Comprehensive fitting instructions



Specifications

Part #	Thickness mm	Overall		Core		Inlet/Outlet Size	Core Part #	No. of Plates	Heat Transfer Rate (BTU/hr)
		Width mm	Height mm	Width mm	Height mm				
676	20	281	141	281	112	3/8" (9.5 mm)	10856	12	11,987
677	20	281	180	281	152	3/8" (9.5 mm)	10859	17	13,394
678	20	281	213	281	184	3/8" (9.5 mm)	10853	21	13,934
623	20	281	229	247	200	3/8" (9.5 mm)	10861	23	13,937
679	20	281	300	281	265	3/8" (9.5 mm)	10854	30	15,710
1005	5/16" (8 mm) Adaptor Kit to suit GM transmissions (sold separately)								

Ultra-Cool® Transmission Oil Coolers

Features:

- Ultrasonically soldered for reliability
- Can be used as heavy-duty Power Steering Cooler
- 100% pressure tested at 150psi for quality assurance
- High-efficiency turbulators in every tube for maximum heat dissipation
- 3/8" push-on fittings for quick and easy installation
- Comprehensive fitting instructions



Specifications

Part #	Thickness mm	Overall		Core		Inlet/Outlet Size	Heat Transfer Rate (BTU/hr)
		Width mm	Height mm	Width mm	Height mm		
401	20	319	127	224	127	3/8" (9.5 mm)	9,000
403	20	316	191	224	191	3/8" (9.5 mm)	10,800
404	20	403	191	310	191	3/8" (9.5 mm)	12,000
1005	5/16" (8 mm) Adaptor Kit to suit GM transmissions (sold separately)						

30-plate Hydra-Cool® Transmission Oil Cooler/Fan Combo Kit

Kit features:

- 100% pressure tested at 150psi for quality assurance
- 33% more efficient than a comparable tube and fin design
- 10" Fan Kit
- 12 or 24 Volt model options
- Pre-drilled mounting plates for easy installation
- Internal turbulence for efficient heat transfer
- 3/8" (9.5 mm) push-on fittings for easy installation.
- Comprehensive fitting instructions



Specifications

Part #	Volts	Overall		Core			Inlet/Outlet Size	Core Part #	No. of Plates	Heat Transfer Rate (BTU/hr)
		Thickness mm	Width mm	Height mm	Width mm	Height mm				
691	12 V	70	281	300	281	265	3/8" (9.5 mm)	0854	30	15,710
692	24 V	70	281	300	281	265	3/8" (9.5 mm)	0854	30	15,710
1005	5/16" (8 mm) Adaptor Kit to suit GM transmissions (sold separately)									

21-plate Hydra-Cool® Transmission Oil Cooler/Fan Combo Kit

Kit features:

- 100% pressure tested at 150psi for quality assurance
- 33% more efficient than a comparable tube and fin design
- 8" Thematic Fan
- 12 or 24 Volt model options
- Pre-drilled mounting plates for easy installation
- Internal turbulence for efficient heat transfer
- 3/8" (9.5 mm) push-on fittings for easy installation.
- Comprehensive fitting instructions



Specifications

Part #	Volts	Thickness mm	OVERALL		CORE		Inlet/Outlet Size	Core Part #	No. of Plates	Heat Transfer Rate (BTU/hr)
			Width mm	Height mm	Width mm	Height mm				
698	12 V	72	281	141	281	184	3/8" (9.5 mm)	10853	21	13,934
699	24 V	72	281	141	281	184	3/8" (9.5 mm)	10853	21	13,934
1005	5/16" (8 mm) Adaptor Kit to suit GM transmissions (sold separately)									

Power Steering Oil Cooler

Power Steering Oil Cooler

When replacing a Power Steering Cooler, you will need to fit new nylon ties. Use only the Davies, Craig “Quick Fit Kit” – Part #0579 (refer “Accessories”).

Note: Power Steering Transmission Coolers are suitable for all vehicles, please refer to Application chart.



Specifications		Overall		Core		Application	Heat Transfer Rate (BTU/hr)
Part #	Thickness mm	Width mm	Height mm	Width mm	Height mm		
1009	19	226	64	148	64	Vehicles with 3/8" (9.5 mm) inlet and outlet	4,000

Accessories

5/16" (8 mm) Adaptor Kit

Kit contains everything you need fit our Transmission Oil Cooler to a General Motors Automatic Transmissions.

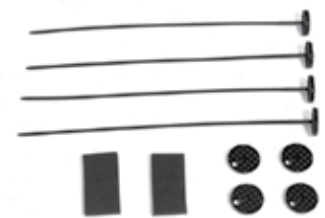
Part #	Description
1005	5/16" (8 mm) Adaptor Kit to suit GM Transmissions



Quick Fit Kit

When replacing a Transmission Oil Cooler or Power Steering Cooler, you will need to fit new nylon ties.

Part #	Description
0579	Quick Fit Kit suits Fans and core mounting.



Digital Thermatic® Fan Switch

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.

Part #	Voltage	Description
0444	12 & 24	Digital Thermatic® Fan Switch



Digital Gauge Thermatic® Fan/EWP Switch

The Digital Gauge Thermatic® Fan/EWP Switch automatically activates single or twin fans at your set/targeted temperature when extra cooling is required. Can also detect transmission fluid temperature (use Part #0465).

Part #	Voltage	Description
0500	12 & 24	Digital Gauge Thermatic® Fan/EWP Switch



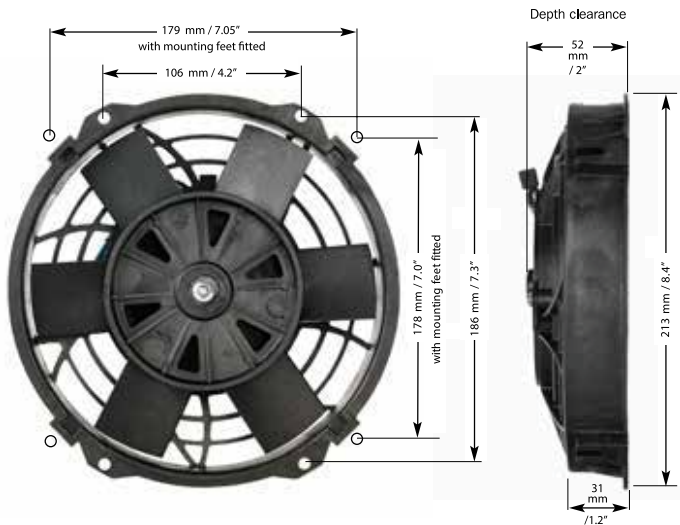
8" Thermatic Fan

8" Thermatic Fan

Davies Craig Thermatic® Fan is suitable for condenser and radiator cooling.

All Davies Craig Thermatic® Fans are packaged with fan assembly (motor, fan blade, shroud) and mounting feet.

Dimensions



Specifications

Airflow: 400 CFM (ft3/min)

Maximum

Current : 5.0A (12 Volt) | 2.4A (24 Volt)

Weight : 0.88 kg (1.9 lb)

12 Volt	Part #	Description
	0135	8" Thermatic® Fan

24 Volt	Part #	Description
	0136	8" Thermatic® Fan

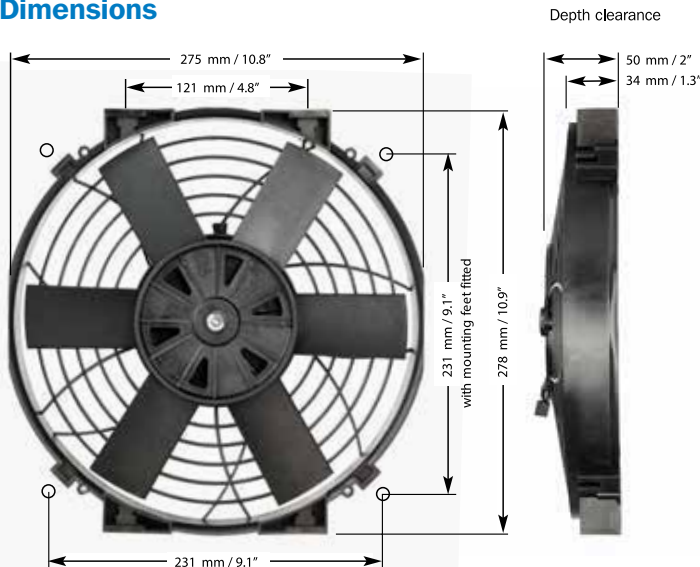
10" Slimline Thermatic Fan

10" Slimline Thermatic Fan

Davies Craig Thermatic® Fan is suitable for condenser and radiator cooling.

All Davies Craig Thermatic® Fans are packaged with fan assembly (motor, fan blade, shroud) and mounting feet.

Dimensions



Specifications

Airflow: 696 CFM (ft3/min)

Maximum

Current: 7.0A (12 Volt) | 3.5A (24 Volt)

Weight: 1.13 kg (2.5 lb)

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

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

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2
YEAR
WARRANTY



Designed & Manufactured in Australia

US Patent No: 6425353, Australian Patent
No: 756456, European Patent No: 1133624,
Japan & Indian Patents Pending

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