

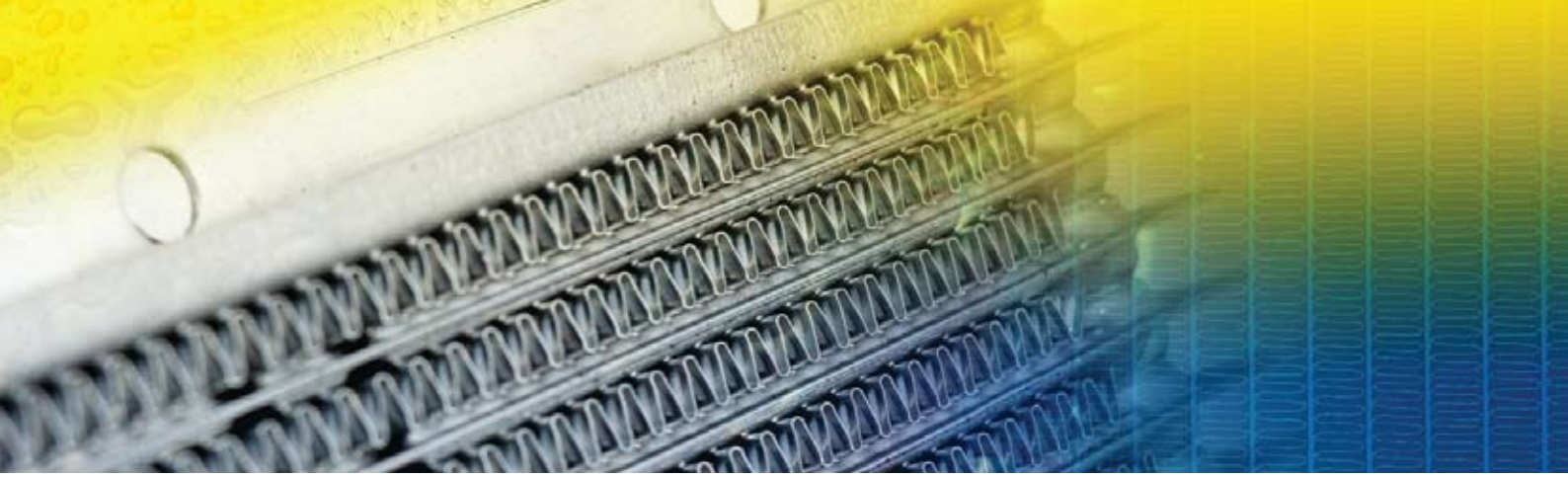
Transmission Oil Coolers

Power Steering
Oil Cooler



**DAVIES,
CRAIG** PTY. LTD.

INNOVATION - QUALITY - RANGE



Transmission Oil Coolers

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*
- *Climbing*
- *Stop-and-go traffic*
- *Carrying loads*
- *Hot driving conditions*
- *Driving in sand or snow*

Questions?

Please see “frequently-asked questions” on our website: www.daviescraig.com.au

Two types of Transmission Oil Coolers



ULTRA-COOL® tube and fin style



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.

All Davies, Craig transmission oil coolers are 100% pressure tested to ensure the reliability and durability of the product. Both Ultra-Cool and Hydra-Cool come complete with the necessary accessories and instructions for quick and easy installation.

* All coolers come complete with a mounting kit, flexible hose and hose clamps.



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

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

Enhance your automatic transmission cooling capabilities with the 30-plate heavy duty Hydra-Cool® coupled with the DCSLX 10" Slimline Thermatic Fan Kit. Greater mounting flexibility with this combo pack enables you to further control and direct air flow through the Hydra Cool core. Plus, the DCSLX 10" reverse polarity Slimline Thermatic Fan can be attached to this core to operate in either 'push' or 'pull' mode.

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
- Internal turbulation for efficient heat transfer
- 3/8" push-on fittings for quick and easy installation.

See below for transmission oil cooler specifications, and page 5 for 10" Slimline 12 volt fan specifications (part # 0047). Refer opposite page for model selection guide.

When replacing a Transmission Oil Cooler or Power Steering Cooler, you will need to fit new nylon ties. Use only the Davies, Craig "Quick Fit Kit" - Part #0579 (refer "Accessories", page 6).

Combo pack contents

Part #	Description	Qty
679	Hydra-Cool® 30-plate transmission oil cooler	1
	3/8" hose	1
	Hose clamps	4
	Detailed fitting instructions	1
0047	DCSLX10 10" Slimline Fan Kit (12V)	1
0579	Quick Fit Kits – nylon ties x4	2

Specifications

PART #	THICKNESS	OVERALL		CORE		FITTING SIZE	CORE PART #	# of PLATES	HEAT TRANSFER RATE (BTU/HR)
		LENGTH	WIDTH	LENGTH	WIDTH				
679 / 691	20	281	300	281	265	3/8" push on	0854	30	15,710

Refer page 7 for model selection guide.

Lightweight and compact, Hydra-Cool® transmission oil cooler's unique dimpled universal plate and fin design are rigidly constructed in full alloy which offers high heat transfer and corrosion resistance. The patented dimple plates re-direct oil flow and, in conjunction with the louvered fin design, provide highly efficient cooling with low pressure drop.



Hydra-Cool® Transmission Oil Coolers – Universal

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

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
- Six sizes available to fit a wider range of applications
- Internal turbulence for efficient heat transfer
- 3/8" or 5/16" push-on fittings for quick and easy installation.

Specifications

PART #	THICKNESS	OVERALL		CORE		FITTING SIZE	CORE PART #	# of PLATES	HEAT TRANSFER RATE (BTU/HR)
		LENGTH	WIDTH	LENGTH	WIDTH				
676	20	281	141	281	112	3/8" push on	0856	12	11,987
677	20	281	180	281	152	3/8" push on	0859	17	13,394
678	20	281	213	281	184	3/8" push on	0853	21	13,934
679 / 691	20	281	300	281	265	3/8" push on	0854	30	15,710
686	20	281	180	281	152	Universal 5/16"	0859	17	13,394

Refer page 7 for model selection guide.

Hydra-Cool® Transmission Oil Coolers – for Specific Vehicles

- EA-ED Falcon • VN-VS Commodore

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
- Two sizes available to fit a wider range of applications
- Internal turbulence for efficient heat transfer
- 3/8" or 5/16" push-on fittings for quick and easy installation.

Specifications

PART #	THICKNESS	OVERALL		CORE		FITTING SIZE	CORE PART #	# of PLATES	HEAT TRANSFER RATE (BTU/HR)
		LENGTH	WIDTH	LENGTH	WIDTH				
680 *	20	280	181	280	151	Ford EA-ED 3/8"	0857	17	11,000
686 **	20	281	180	281	152	Commodore VN-VS 5/16"	0859	17	13,394

* replaced by 677 (6cyl engines) or 678 (8cyl engines) ** Replaces part # 685

All kits contain

Part #	Description	Qty
	Cooler core	1
676 - 679	3/8" hose	1
686	5/16" hose	1
	Hose clamps	as req'd
	Detailed fitting instructions	1
0579	Quick Fit Kit – nylon ties x 4	1

All kits contain

Part #	Description	Qty
	Cooler core	1
680	3/8" hose	1
686 *	5/16" hose	1
all	Mounting brackets set to suit vehicle	1
	Hose clamps	4
	Detailed fitting instructions	1
	Mounting: assorted hardware bag	1

Transmission Oil Coolers

Part #679

The 30-plate heavy duty Hydra-Cool® transmission oil cooler offers excellent cooling efficiency for Heavy Duty 4WD, V8 and commercial vehicle transmissions. It provides highly efficient cooling with low pressure drop for both race and road applications.

Hydra-Cool® 30-plate Transmission Oil Cooler

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

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
- Internal turbulence for efficient heat transfer
- 3/8" push-on fittings for quick and easy installation.

See above for transmission oil cooler specifications. Refer opposite page 7 for model selection guide. If you wish to add a 24 volt fan, refer below for 10" Slimline 24 volt fan specifications (part # 0048).

When replacing a Transmission Oil Cooler, you will need to fit new nylon ties. Use only the Davies, Craig "Quick Fit Kit" – Part #0579 (refer "Accessories", page 6).



Kit contents

Part #	Description	Qty
	Hydra-Cool® 30-plate transmission oil cooler	1
	3/8" hose	1
	Hose clamps	4
	Detailed fitting instructions	1
0579	Quick Fit Kit – nylon ties x 4	1

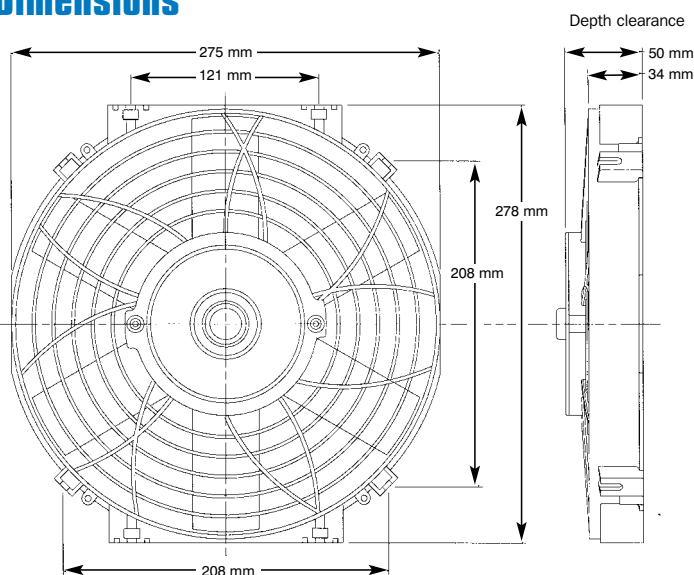
Thermatic® Fan – 10-inch Slimline

Model **DCSLX10**

12 volt	Part #	Description
	0047	DCSLX10 Fan Kit
	0147	DCSLX10 Short

24 volt	Part #	Description
	0048	DCSLX10 Fan Kit
	0148	DCSLX10 Short

Dimensions



Specifications

Maximum current	7.0A (12 volt) 3.5A (24 volt)
Life	1,500 hours at 80°C (176°F)
Weight	1.13kg (2.5 lb)

Components

Part #	Description
0213	Motor (12 volt)
0215	Motor (24 volt)
0317	Rotor (reversible, glass-filled nylon)
0375	Shroud (glass-filled nylon)
0563	Hardware (12 volt)
0563a	Hardware (24 volt)
0532	Wiring loom
0533	12V relay (40 amps)
0534	24V relay (30 amps)
0604	Mounting feet

The industry's first transmission cooler, the Ultra-Cool oil transmission cooler is available in three sizes to suit a wide range of applications from small sedans to light commercial vehicles.



Ultra-Cool® Transmission Oil Coolers

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

Features

- Ultrasonically soldered for reliability
- 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.

All kits contain

Part #	Description	Qty
	Cooler core	1
	3/8" hose	1
	Hose clamps	4
	Detailed fitting instructions	1
0579	Quick Fit Kit – nylon ties x 4	1

Specifications

PART #	THICKNESS	OVERALL		CORE		FITTING SIZE	HEAT TRANSFER RATE (BTU/HR)
		LENGTH	WIDTH	LENGTH	WIDTH		
401	20	319	127	224	127	3/8" push on	9,000
403	20	316	191	224	191	3/8" push on	10,800
404	20	403	191	310	191	3/8" push on	12,000

Refer page 7 for model selection guide.

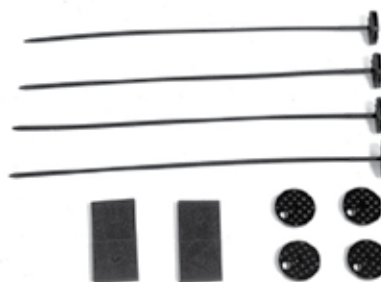
Accessories

Quick Fit Kit

When replacing a Transmission Oil Cooler or Power Steering Cooler, you will need to fit new nylon ties. Use only the Davies, Craig "Quick Fit Kit" - Part #0579

Contents

Part #	Description	Qty
0579	Quick Fit Kit – nylon ties x4	1



Part #0579 - Quick Fit Kit

WARRANTY STATEMENT

TRANSMISSION OIL COOLERS

We hereby guarantee that for a period of two years or 40,000km (whichever is the lesser) from the date of purchase 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.

"DAVIES, CRAIG PTY LTD"

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

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.



Power Steering Oil Cooler

Note: Power Steering Transmission Coolers are suitable for all vehicles

Installation of a power steering oil cooler will prolong the life of the system's pump, hoses, and seals. A reduction of just 11°C (20°F) can double the life of power steering, the fluid and all internal parts.

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", page 6).

Kit contents

Part #	Description	Qty
	Cooler core	1
	3/8" hose	1
	Hose clamps	4
	Detailed fitting instructions	1
0579	Quick Fit Kit – nylon ties x 4	1

Specifications

PART #	THICKNESS	OVERALL		CORE		APPLICATION	HEAT TRANSFER RATE (BTU/HR)
		LENGTH	WIDTH	LENGTH	WIDTH		
1009	19	226	64	148	64	Vehicles with 3/8" ID power steering return hose	4,000

Transmission Oil Coolers – Model Selection Guide

UNIVERSAL KITS

VEHICLE TYPE	YEAR OF MANUFACTURE	ENGINE CAPACITY	APPLICATION	
			MEDIUM DUTY Part #	HEAVY DUTY Part #
SEDAN/WAGON	Up to 1990*	Up to 2.0L	401	403
		2.0L - 4.0L	403	404
		4.0L & over	404	676 or 677
COMMERCIAL	Up to 1990*	Up to 2.0L	401	403
		2.0L - 4.0L	404	676 or 677
		4.0L & over	678 or 679 or 691	678 or 679 or 691
SEDAN/WAGON	1990 - Present	Up to 2.0L	676	677
		2.0L - 4.0L	677	678 or 679 or 691
		4.0L & over	678 or 679 or 691	678 or 679 or 691
COMMERCIAL	1990 - Present	Up to 2.0L	676	677 or 678
		2.0L - 4.0L	677	678 or 679 or 691
		4.0L & over	678 or 679 or 691	678 or 679 or 691
V8s & 4WDs	1990 - Present	Up to 2.0L	676	677
		2.0L - 4.0L	678 or 679 or 691	678 or 679 or 691
		4.0L & over	678 or 679 or 691	678 or 679 or 691

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

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

SPECIFIC VEHICLE KITS

VEHICLE TYPE	APPLICATION
VEHICLE TYPE	PART #
FORD EA-ED (all models) 6-cylinder & V8	680 *
COMMODORE VN-VS (all models) 6-cylinder & V8	686 **

POWER STEERING COOLER

VEHICLE TYPE	APPLICATION
VEHICLE TYPE	PART #
All vehicles	1009

* Replaced by #677 (6cyl engines) or #678 (8cyl engines) ** Replaces #685

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

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INNOVATION - QUALITY - RANGE

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