



THE LEADER IN PERFORMANCE COOLING



Performance Cooling Products

***Fluid Coolers | Fluid Filtration | Electric Fans
Electric Fan Controllers | Belt Driven Fans | Fuel Pumps***

Derale PERFORMANCE

Since 1975

Derale Performance
 US Motor Works Performance Division
 3901 Medford St.
 Los Angeles, Ca 90063
 Ph: (323) 266-3850
 Fax: (323) 263-3948
DERALE.COM

While most cooling brands focus on one component of the vehicle, Derale aims to cool the drivetrain as a whole. Whether you drive a truck, race the tracks or crawl through the desert, your drivetrain is designed to function as a unit. The most powerful engine is only as strong as its ability to transfer that power to the wheels. Our approach to cooling is the same, cool as a unit. By controlling all major components of a vehicle, engine, transmission, power steering, fuel and differential you drastically increase efficiency and component life.

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Recommend for...

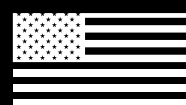
**Engine • Transmission • Power Steering
 Fuel and Differential**



Trusted by Professionals Around the World



US Motor Works, LLC and its employees are committed to providing an extensive line of consistent High Quality Products and the finest Customer Service and Satisfaction, through our Quality Management System based on ISO 9001:2015.



JEEP DIRECT FIT COOLING KITS



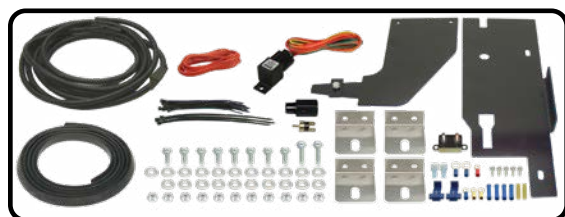
THE LEADER IN PERFORMANCE COOLING

JEEP YJ/TJ *Performance Electric Fan*

Application: 1987-1996 Jeep Wrangler YJ - (4 & 6 Cyl)
1997-2006 Jeep Wrangler TJ - (4 & 6 Cyl)

Features:

- 16" High Output fan shroud assembly replaces factory fan clutch/shroud using factory mounting locations
- Radiator reservoir remount brackets included (use on some 4 & 6 cyl. Applications)
- Power steering remount brackets included (use on some 4 cyl. Applications)
- Kit includes 180°F thermostat switch to activate electric fan



Part No.	Repl. Fan Part No.	CFM	Amp Draw
20161	16136	2400	23.5

Replacement 190°F Temp Sensor and Fitting: Part# 35030



JEEP Cherokee *Performance Electric Fan*

Application: 1987-2000 Jeep Cherokee

Features:

- Fits OE and aftermarket radiators
- Bolts directly to stock radiator mounts
- Three 9" IP68 Water Proof/Dust Proof high-output electric fans
- Fan controllers offered on pg. 66-68



JEEP YJ/TJ *Automatic Transmission Cooler*

Application: 1987-1996 Jeep Wrangler YJ - (4 & 6 Cyl)
1997-2006 Jeep Wrangler TJ - (4 & 6 Cyl)

Features:

- Mounts to frame rail with no drilling
- Powerful 8" electric fan
- Efficient 16 row Plate & Fin cooler
- Reduces fluid temperatures 30°F - 40°F

Part No.	Repl. Cooler Part No.	BTU	CFM	Amp Draw
20561	13750	22000	500	4.8



DUST PROOF



WATER PROOF



INCREASE FUEL
ECONOMY



INCREASE HORSEPOWER
& TORQUE



Part No.	Repl. Fan	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E.	Dim F.	Dim G.	Dim H.
16839	16109	1875	21.6	31-1/2"	10-1/4"	1 1/8"	3-1/4"	23-3/4"	28"	7-3/4"	9-1/2"



THE LEADER IN PERFORMANCE COOLING

HI-FLOW RACING REMOTE FLUID COOLERS

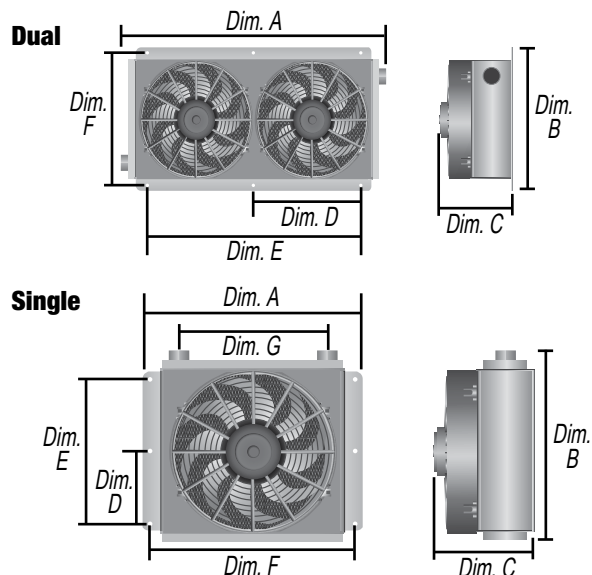


Features and Benefits

Derales is proud to introduce our latest addition to the remote cooler lineup. These Hi-Flow Racing Coolers are precision TIG welded and feature the most efficient tube design in the aftermarket, which supports up to 350 PSI with minimal pressure drop. All electric fans are IP68 certified (Water/Dust Proof) and designed to do their best under the most strenuous conditions. These coolers are perfect for everything from Drag racing to Off-Road.

- **Aircraft aluminum grade cooler design**
- **Extruded tube design with turbulators for maximum heat dissipation**
- **Precision TIG welded**
- **20 GPM Flow rate**
- **Supports up to 350 P.S.I., with minimal pressure drop**

Dimensions





Hi-Flow 11 Row Racing Cooler

- **Designed for Puller applications**
- **630 CFM Combined, (2) 5" IP68 Electric Fans**
- **Black Anodized Shroud**
- **7/8-14 UNF O-Ring inlets**

Recommended for:

Engines
Transmissions
Power Steering
Fuel and Differentials



Thermostat switches and aluminum fittings sold separately, see page 15, 38

Cooler Part No.	Inlet Size	Repl. Core	Repl. Fan	Fan CFM	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Mounting)
65840	7/8-14o-ring	61178	16105	630	33 oz.	95000	15"	8 1/4"	7"	5 1/2"	11"	7 3/16"



Hi-Flow 18 Row Racing Cooler

- **Designed for Puller applications**
- **755 CFM, 9" IP68 Electric Fan**
- **Black Anodized Shroud**
- **7/8-14 UNF O-Ring inlets**

Recommended for:

Engines
Transmissions
Power Steering
Fuel and Differentials



Thermostat switches and aluminum fittings sold separately, see page 15, 38

Cooler Part No.	Inlet Size	Repl. Core	Fan CFM	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
65861	7/8-14 o-ring	61878	755	47 oz.	125000	11 7/8"	12 3/8"	8 1/2"	3 3/8"	6 3/4"	11"	7"



Hi-Flow 18 Row Racing Cooler

- **Designed for Puller applications**
- **625 CFM, 9" IP68 Electric Fan**
- **Black Anodized Shroud**
- **7/8-14 UNF O-Ring inlets**

Recommended for:

Engines
Transmissions
Power Steering
Fuel and Differentials



Thermostat switches and aluminum fittings sold separately, see page 15, 38

Cooler Part No.	Inlet Size	Repl. Core	Repl. Fan	Fan CFM	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
65860	7/8-14 o-ring	61878	16109	625	47 oz.	125000	11 7/8"	12 3/8"	6 5/8"	3 3/8"	6 3/4"	11"	7"



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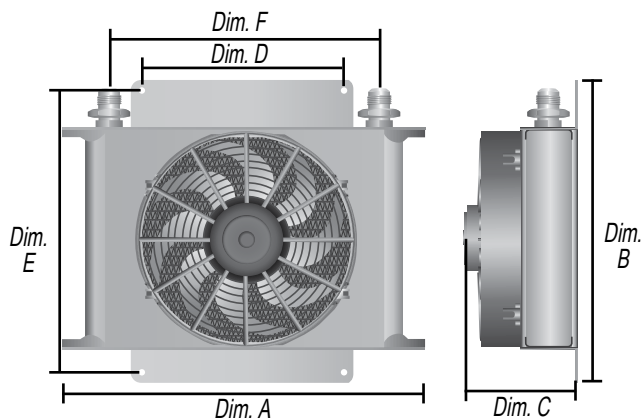
Hyper-Cool Remote Fluid Coolers



Features and Benefits

- **Powerful high output electric fans**
- **Ultra efficient Series 10000 stack plate coolers**
- **Sturdy furnace-brazed aluminum construction tested to 250 PSI**
- **Aluminum shroud/mounting assembly**
- **Mounts anywhere space permits**
- **Clear anodized shrouds**
- **All coolers feature 7/8-14 UNF O-Ring inlets**

Dimensions



Thermostat switches and hardware available individually. See page 17



Part No.
15870

Recommended for:
Engines
Transmissions



Hyper-Cool Extreme

- **Series 10000 40-row stack plate cooler**
- **800 CFM, 10" electric fan**
- **Designed for Puller applications**
- **Cooler kit includes oil cooler and two aluminum AN fittings**

Cooler Kit Part No.	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlets)
13870	-6 AN	54078	16110	26 oz	67000	13"	14 7/8"	5 5/8"	7 1/2"	13 9/16	10"
15870	-8 AN	54078	16110	26 oz	67000	13"	14 7/8"	5 5/8"	7 1/2"	13 9/16	10"
15875	-10 AN	54078	16110	26 oz	67000	13"	14 7/8"	5 5/8"	7 1/2"	13 9/16	10"
15876	-12 AN	54078	16110	26 oz	67000	13"	14 7/8"	5 5/8"	7 1/2"	13 9/16	10"



Part No.
15860

Recommended for:
Engines
Transmissions
Power Steering
Fuel and Differentials

Hyper-Cool

- **Series 10000 25-row stack plate cooler**
- **500 CFM, 8" electric fan**
- **Designed for Puller applications**
- **Cooler kit includes oil cooler, two aluminum AN fittings and two hose barb fittings**

TRANSMISSION COOLER KIT



Install Kit Only - Part # 13022 - 3/8" Hose
13023 - 1/2" Hose

ENGINE OIL COOLER KIT



Includes Sandwich Adapter Kit PN 25782,
See page 40 for Adapter specifications.

Cooler Kit Part No.	Weatherproof IP68 Fan Part No.	Cooler Inlet Size	Trans Cooler Kit Part No.	Engine Oil Cooler Kit Part No.	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlets)
13760	-----	-6 AN	13960	-----	52578	16618	16 oz	46000	13"	10"	5 5/8"	7 1/2"	9"	10"
15860	-----	-8 AN	15960	15660*	52578	16618	16 oz	46000	13"	10"	5 5/8"	7 1/2"	9"	10"
15865	-----	-10 AN	-----	-----	52578	16618	16 oz	46000	13"	10"	5 5/8"	7 1/2"	9"	10"
-----	13764	7/8-14 o-ring	-----	-----	52578	16108	16 oz	46000	13"	10"	5 1/4"	7 1/2"	9"	10"



Part No.
15845

Recommended for:
Engine
Transmission
Power Steering
Fuel and Differential



Hyper-Cool Dual

- **Series 10000 Highly efficient 19-row stack plate cooler**
- **630 CFM (combined), (2) 5" electric fans**
- **Designed for Puller applications**
- **Cooler kit includes oil cooler and two aluminum AN fittings**

Cooler Kit Part No.	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlets)
13740	-6 AN	51978	16105	12 oz	37000	13"	7 3/8"	4 7/8"	7 1/2"	7"	10"
15840	-8 AN	51978	16105	12 oz	37000	13"	7 7/16"	4 7/8"	7 1/2"	7"	10"
15845	-10 AN	51978	16105	12 oz	37000	13"	7 9/16"	4 7/8"	7 1/2"	7"	10"



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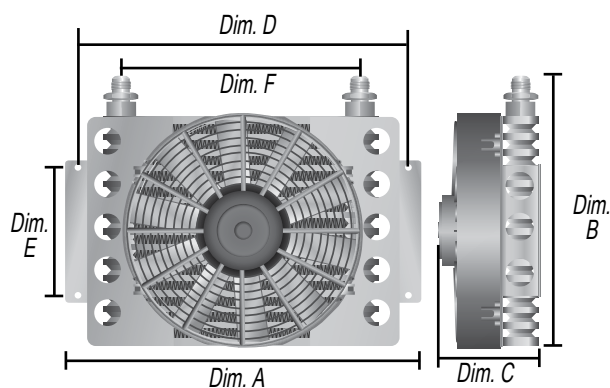
Atomic-Cool Remote Fluid Coolers



Features and Benefits

- **Powerful high output electric fans**
- **Efficient Series 9000 16 row Plate & Fin coolers**
- **Sturdy furnace-brazed aluminum construction**
- **Mounts anywhere space permits**
- **Clear anodized shrouds**
- **All coolers feature 5/8-18 UNF O-Ring fittings**

Dimensions



Thermostat switches and hardware available individually, see page 17



Recommended for:
Engine
Transmission
Power Steering
Fuel and Differential

Atomic-Cool Fluid Cooler

- Series 9000 16-row Plate & Fin cooler
- 500 CFM, 8" Electric fan
- Designed for Puller applications
- Cooler assembly includes oil cooler, two black anodized aluminum AN and hose barb adapter fittings



Part No.
15850

Cooler Kit Part No.	Weatherproof IP68 Fan Part No.	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlets)
13750	-----	-6 AN	13751	16618	17 oz	22000	12 3/4"	9 3/8"	4 5/16"	11 5/8"	4"	8 9/16"
15850	-----	-8 AN	15851	16618	17 oz	22000	12 3/4"	9 3/8"	4 5/16"	11 5/8"	4"	8 9/16"
-----	13754	-6 & -8 AN	15851	16108	17 oz	22000	12 3/4"	9 3/8"	3 15/16"	11 5/8"	4"	8 9/16"



Atomic-Cool Transmission Cooler Kits

- Extends transmission service life by preventing heat-related component failure & fluid breakdown
- Hardware kit includes in-line fan control, high-pressure/high temperature hose & mounting hardware

Install Kit Only Part # 13022 - 3/8" Hose
13023 - 1/2" Hose



Part No.
13950

Trans Cooler Kit Part No.	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlets)
13950	-6 AN	13751	16618	17 oz	22000	12 3/4"	9 3/8"	4 5/16"	11 5/8"	4"	8 9/16"
15950	-8 AN	15851	16618	17 oz	22000	12 3/4"	9 3/8"	4 5/16"	11 5/8"	4"	8 9/16"



Atomic-Cool Engine Oil Cooler Kit

- Helps reduce engine oil temperature
- Extends engine life
- Hardware kit includes in-line fan control, sandwich adapter, hose barb adapters, high-pressure/high temperature hose & mounting hardware



Includes Sandwich Adapter Kit PN 25782,
See page 40 for Adapter specifications.

Engine Oil Cooler Kit Part No.	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlets)
15450*	-8 AN	15851	16618	17 oz	22000	12 3/4"	9 3/8"	4 5/16"	11 5/8"	4"	8 9/16"



THE LEADER IN PERFORMANCE COOLING

Electra-Cool Remote Fluid Coolers

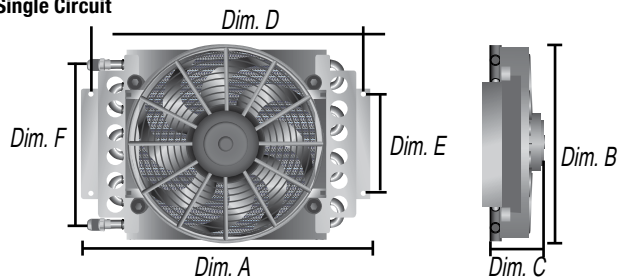


Features and Benefits

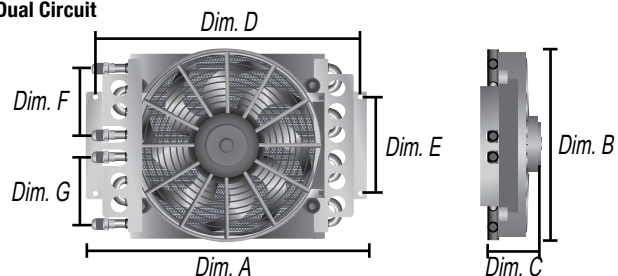
- **Powerful high output electric fans**
- **Efficient Series 7000 Tube & Fin coolers**
- **Copper/Aluminum construction**
- **Mounts anywhere space permits**
- **Clear anodized mounting brackets**
- **All coolers feature AN inlets**

Dimensions

Single Circuit



Dual Circuit



Thermostat switches available individually, see page 17

Electra-Cool Fluid Cooler Single & Dual Circuit



Part No.
13700

Recommended for:
Engine
Transmission
Power Steering
Fuel and Differential



- **Series 7000 Tube & Fin cooler**
- **650 cfm, Powerful 10" electric fan**
- **Designed for Puller applications**
- **Aluminum AN hose barb adapter fittings included**

Cooler Kit Part No.	No. of Passes	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlet to Inlet)	Dim. G (Inlet to Inlet)
13700	16	-6 AN	13300	16620	19 oz.	14000	15 3/4"	11 1/2"	5"	14 3/4"	5 1/4"	8 3/4"	--
15800	16	-8 AN	15300	16620	19 oz.	14000	15 3/4"	11 1/2"	5"	14 3/4"	5 1/4"	8 3/4"	--
13720	8	-6 AN	13320	16620	9 oz.	7000	15 3/4"	11 1/2"	4"	14 3/4"	5 1/4"	8 3/4"	--
15820	8	-8 AN	15320	16620	9 oz.	7000	15 3/4"	11 1/2"	4"	14 3/4"	5 1/4"	8 3/4"	--
Dual Circuit													
15200	8 & 8 pass	-8 AN	15301	16620	9 oz.	16000	15 3/4"	11 1/2"	5"	14 3/4"	5 1/4"	4 1/8"	4 1/8"
15220	4 & 4 pass	-8 AN	--	16620	4.5 oz.	8000	15 3/4"	11 1/2"	4"	14 3/4"	5 1/4"	3 3/4"	3 3/4"



Part No.
13900

Electra-Cool Transmission Cooler Kits

- **Extends transmission service life by preventing heat related component failure & fluid breakdown**
- **Hardware kit includes in-line fan control, high-pressure/high temperature hose and mounting hardware**

Install Kit Only Part # 13022 - 3/8" Hose
13023 - 1/2" Hose



Trans Cooler Kit Part No.	No. of Passes	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlet to Inlet)	Dim. G (Inlet to Inlet)
13900	16	-6 AN	13300	16620	19 oz.	14000	15 3/4"	11 1/2"	5"	14 3/4"	5 1/4"	8 3/4"	--
15900	16	-8 AN	15300	16620	19 oz.	14000	15 3/4"	11 1/2"	5"	14 3/4"	5 1/4"	8 3/4"	--



Electra-Cool Engine Oil Cooler Kit

- **Helps reduce coolant temperature**
- **Extends engine life**
- **Hardware kit includes in-line fan control, sandwich adapter, hose barb adapters, high-pressure/high temperature hose and mounting hardware**



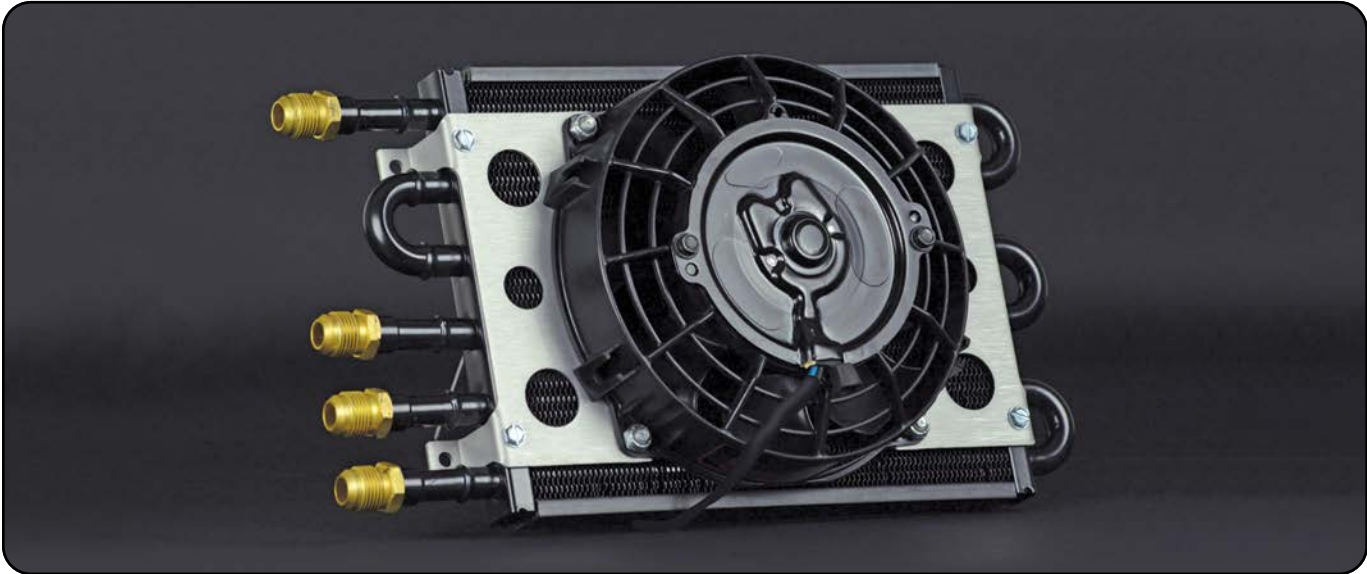
Includes Sandwich Adapter Kit PN 25782, See page 40 for Adapter specifications.

Engine Oil Cooler Kit Part No.	No. of Passes	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlet to Inlet)	Dim. G (Inlet to Inlet)
15500*	16	-8 AN	15300	16620	19 oz.	14000	15 3/4"	11 1/2"	5"	14 3/4"	5 1/4"	8 3/4"	--



THE LEADER IN PERFORMANCE COOLING

Econo-Cool Remote Fluid Coolers

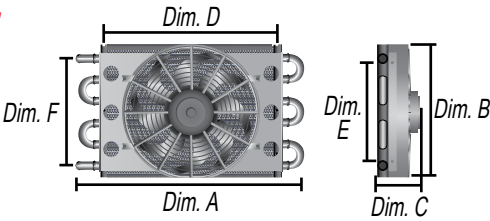


Part No.
13730



Econo-Cool Single Circuit

- Efficient 6 pass copper/aluminum tube and fin cooler
- 400 CFM, reversible 8" electric fan
- Clear anodized aluminum bracket



Recommended for:
Engine Power Steering
Transmission Fuel and Differential

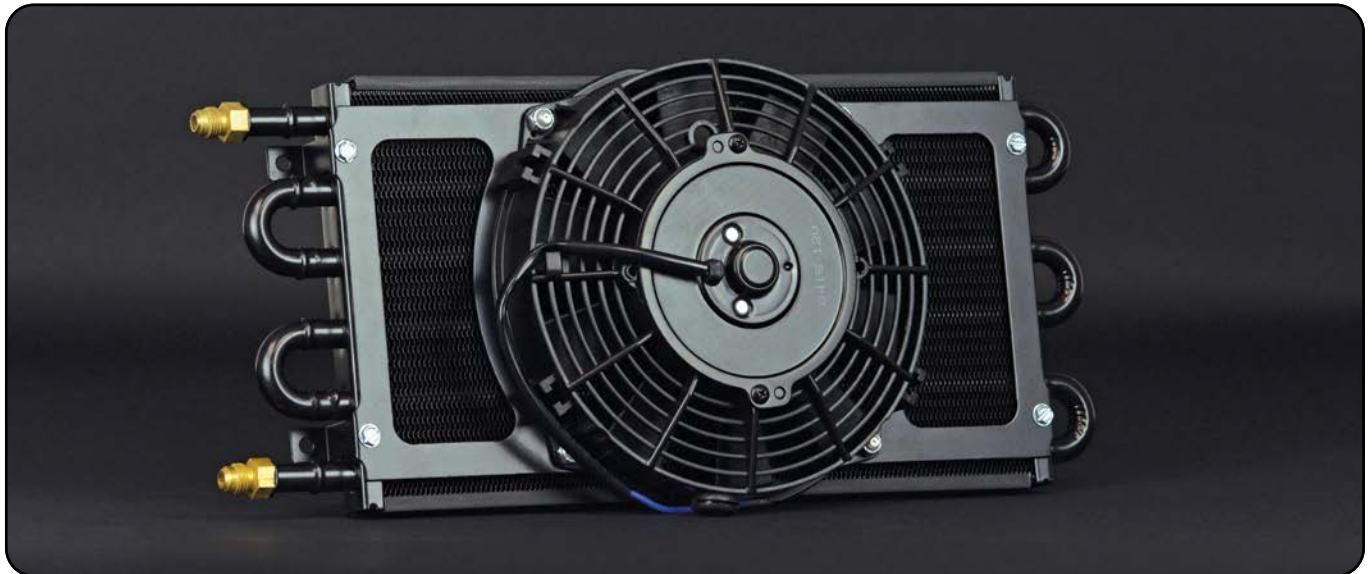
Cooler Part No.	No. of Passes	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlet to Inlet)
13730	6	11/32" Barb	13731	16618	4 oz.	6000	12 3/4"	7 5/8"	3 3/4"	10 7/8"	5"	6 1/4"
15830	6	1/2" Barb	15831	16618	4 oz.	6000	12 3/4"	7 5/8"	3 3/4"	10 7/8"	5"	6 1/4"



Dyno-Cool Remote Fluid Coolers

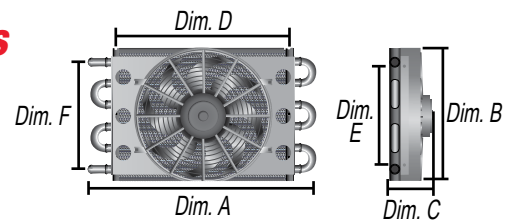


THE LEADER IN PERFORMANCE COOLING



Dyno-Cool - Barbed Inlets

- Efficient 6 or 8 pass copper/ aluminum tube and fin cooler with 11/32" Barb inlets
- 475 CFM, reversible 9" electric fan
- Designed for Puller applications
- Black powder coated steel bracket



Recommended for:
Transmission Fuel
Power Steering Differential

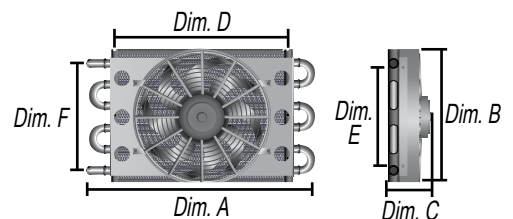
Cooler Part No.	No. of Passes	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlet to Inlet)
12742	8	11/32" Barb	13107	16909	10 oz.	7500	12 3/4"	10 1/4"	3 5/8"	10 7/8"	5"	8 3/4"



Part No.
12731

Dyno-Cool - 6AN Inlets

- Efficient 6 or 8 pass copper/ aluminum tube and fin cooler with -6 AN or -8 AN " Barb inlets
- 475 CFM, reversible 9" electric fan
- Designed for Puller applications
- Black powder coated steel bracket



Recommended for:
Transmission Fuel
Power Steering Differential

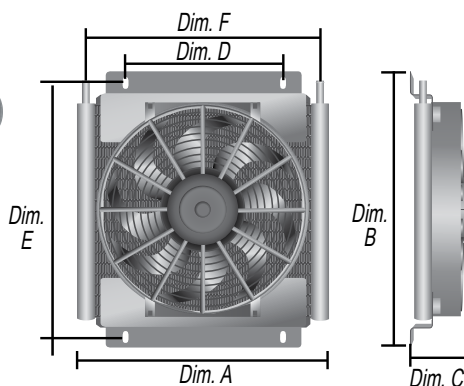
Cooler Part No.	No. of Passes	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlet to Inlet)
12730	6	-6 AN	13311	16908	4 oz.	5000	13 5/8"	7 5/8"	3 5/8"	10 7/8"	5"	6 1/4"
12731	6	-6 AN	13313	16908	4.5 oz.	6000	17 1/2"	7 5/8"	3 3/4"	14 3/4"	5"	6 1/4"
12732	8	-6 AN	13317	16909	10 oz.	7500	13 5/8"	10 1/4"	3 5/8"	10 7/8"	5"	8 3/4"
12733	8	-6 AN	13314	16909	5 oz.	8000	17 1/2"	10 1/4"	3 3/4"	14 3/4"	5"	8 3/4"



THE LEADER IN PERFORMANCE COOLING

Remote Fluid Coolers

Plate & Fin Fluid Cooler



- **Efficient 18 row plate and fin cooler**
- **400 CFM, reversible 8" electric fan**
- **Clear anodized aluminum brackets**

Recommended for:
Transmission
Power Steering
Fuel
Differential

Cooler Part No.	No. of Rows	Inlet Size	Repl. Core	Repl. Fan	Fluid Capacity	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Inlet to Inlet)
13735	18	11/32" Barb	33503	16618	5.5 oz.	20000	11"	11"	3 3/4"	5 1/2"	10"	10 1/4"

Fluid Control Thermostats

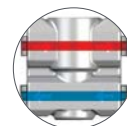


Controlled Closed Circuit

Below 180°F the valve opens, with 90% of the fluid bypassing the cooler. The remaining 10% of the oil flows through the cooler, maintaining constant system pressure, preventing air pockets and eliminating cold oil shock.



20 GALLONS PER MINUTE



Maximum Flow

When temperatures exceed 180°F the thermostatic valve closes, allowing 100% flow through the oil cooler. This allows for ultimate control of oil temperatures under normal to extreme conditions.



Thermostat with Fittings

Inlets	Part No.
3/8" NPT	13011
1/2" NPT	15719



Thermostat Only

Inlets	Part No.
3/8" NPT	25011
1/2" NPT	25719



Thermostat with Bracket Kit

Inlets	Part No.
3/8" NPT	25791
1/2" NPT	25792



Installation Kit Only

Inlets	Part No.
3/8" NPT	13026
1/2" NPT	15726

In-line Fan Control



THE LEADER IN PERFORMANCE COOLING



**Available in -6 AN, -8 AN, or
-10 AN anodized aluminum housing**

Premium Series In-line Fan Control

- Offered in 180°F or 190°F Turn-On temperature
- Turn-Off temperature is preset 15° below turn-on temperature
- Black Anodized aluminum swivel housing allows T-stat to be clocked in the desired position

Inlets	180° Part No.	190° Part No.
-6 AN x -6 AN	35020	35025
-8 AN x -8 AN	35021	35026
-10 AN x -10 AN	35022	35027



**Available in -6 AN, or
-8 AN anodized aluminum housing**

Standard Series In-line Fan Control

- 180°F Turn-On temperature
- Turn-Off temperature is preset 15° below turn-on temperature
- Black Anodized Aluminum AN hose barb adapter fittings included

Inlets	Part No.
-6 AN x -6 AN	13021
-8 AN x -8 AN	15721

Remote Fluid Coolers - Quick Guide

Remote Fluid Cooler Kits							
Size	Part No.	Series	Description	Width	Height	Depth	Page
10" to 17" Width	13735	Plate & Fin Cooler	11/32", 18 Row Plate & Fin Cooler	11"	11"	3 3/4"	14
	Width	Hi-Flow Racing Cooler	18 Row	11 7/8"	12 3/8"	6 5/8"	5
	65861	Hi-Flow Racing Cooler	18 Row	11 7/8"	12 3/8"	8 1/2"	5
	13730	Econo-Cool	11/32" Barb, 6 Pass Tube & Fin Cooler	12 3/4"	7 5/8"	3 3/4"	12
	15830	Econo-Cool	1/2" Barb, 6 Pass Tube & Fin Cooler	12 3/4"	7 5/8"	3 3/4"	12
	13754	Atomic-Cool / Weatherproof	-6 & -8 AN, 16 Row Plate & Fin Cooler	12 3/4"	9 3/8"	3 15/16"	9
	13750	Atomic-Cool	-6 AN, 16 Row Plate & Fin Cooler	12 3/4"	9 3/8"	4 5/16"	9
	15850	Atomic-Cool	-8 AN, 16 Row Plate & Fin Cooler	12 3/4"	9 3/8"	4 5/16"	9
	12742	Dyno-Cool	11/32", 8 Pass Tube & Fin Cooler	12 3/4"	10 1/4"	3 5/8"	13
	12730	Dyno-Cool	-6 AN, 6 Pass Tube & Fin Cooler	13 5/8"	7 5/8"	3 5/8"	13
	12732	Dyno-Cool	-6 AN, 8 Pass Tube & Fin Cooler	13 5/8"	10 1/4"	3 5/8"	13
	15230	Econo-Cool Dual Circuit	-8 AN, 4 & 2 Pass Tube & Fin Cooler	13 15/16"	7 5/8"	3 3/4"	12
	13740	Hyper-Cool Dual	-6 AN, 19 Row Stack Plate Cooler	13"	7 3/8"	4 7/8"	7
	15840	Hyper-Cool Dual	-8 AN, 19 Row Stack Plate Cooler	13"	7 7/16"	4 7/8"	7
	15845	Hyper-Cool Dual	-10 AN, 19 Row Stack Plate Cooler	13"	7 9/16"	4 7/8"	7
	13760	Hyper-Cool	-6 AN, 25 Row Stack Plate Cooler	13"	10"	5 5/8"	7
	15860	Hyper-Cool	-8 AN, 25 Row Stack Plate Cooler	13"	10"	5 5/8"	7
	15865	Hyper-Cool	-10 AN, 25 Row Stack Plate Cooler	13"	10"	5 5/8"	7
	13764	Hyper-Cool / Weatherproof	7/8"-14 o-ring, 25 Row Stack Plate Cooler	13"	10"	6 3/4"	7
	13870	Hyper Cool Extreme	-6 AN, 40 Row Stack Plate Cooler	13"	14 7/8"	5 5/8"	7
	15870	Hyper Cool Extreme	-8 AN, 40 Row Stack Plate Cooler	13"	14 7/8"	5 5/8"	7
	15875	Hyper Cool Extreme	-10 AN, 40 Row Stack Plate Cooler	13"	14 7/8"	5 5/8"	7
	15876	Hyper Cool Extreme	-12 AN, 40 Row Stack Plate Cooler	13"	14 7/8"	5 5/8"	7
	65840	Hi-Flow Racing Cooler Dual	11 Row	15"	8 1/4"	7"	5
	13720	Electra-Cool	-6 AN, 8 Pass Tube & Fin Cooler	15 3/4"	11 1/2"	4"	11
	15220	Electra-Cool Dual Circuit	-8 AN, 4 & 4 Pass Tube & Fin Cooler	15 3/4"	11 1/2"	4"	11
	15820	Electra-Cool	-8 AN, 8 Pass Tube & Fin Cooler	15 3/4"	11 1/2"	4"	11
	13700	Electra-Cool	-6 AN, 16 Pass Tube & Fin Cooler	15 3/4"	11 1/2"	5"	11
	15200	Electra-Cool Dual Circuit	-8 AN, 8 & 8 Pass Tube & Fin Cooler	15 3/4"	11 1/2"	5"	11
	15800	Electra-Cool	-8 AN, 16 Pass Tube & Fin Cooler	15 3/4"	11 1/2"	5"	11
	12731	Dyno-Cool	-6 AN, 6 Pass Tube & Fin Cooler	17 1/2"	7 5/8"	3 3/4"	13
	12733	Dyno-Cool	-6 AN, 8 Pass Tube & Fin Cooler	17 1/2"	10 1/4"	3 3/4"	13
Remote Fluid Cooler - Transmission Oil Cooler Kits							
Size	Part No.	Series	Description	Width	Height	Depth	Page
10" to 15" Width	13950	Atomic-Cool	-6 AN, 16 Row Plate & Fin Cooler	12 3/4"	9 3/8"	4 5/16"	9
	15950	Atomic-Cool	-8 AN, 16 Row Plate & Fin Cooler	12 3/4"	9 3/8"	4 5/16"	9
	13960	Hyper-Cool	-6 AN, 25 Row Stack Plate Cooler	13"	10"	5 5/8"	7
	15960	Hyper-Cool	-8 AN, 25 Row Stack Plate Cooler	13"	10"	5 5/8"	7
	13900	Electra-Cool	-6 AN, 16 Pass Tube & Fin Cooler	15 3/4"	11 1/2"	5"	11
	15900	Electra-Cool	-8 AN, 16 Pass Tube & Fin Cooler	15 3/4"	11 1/2"	5"	11
Remote Fluid Cooler - Engine Oil Cooler Kits							
Size	Part No.	Series	Description	Width	Height	Depth	Page
10" to 15" Width	15660	Hyper-Cool	-8 AN, 25 Row Stack Plate Cooler	13"	10"	5 5/8"	7
	15450	Atomic-Cool	-8 AN, 16 Pass Plate & Fin Cooler	15 3/4"	11 1/2"	5"	9
	15500	Electra-Cool	-8 AN, 16 Pass Tube & Fin Cooler	15 3/4"	11 1/2"	5"	11

SERIES 9500 Plate and Fin Fluid Cooler Kits



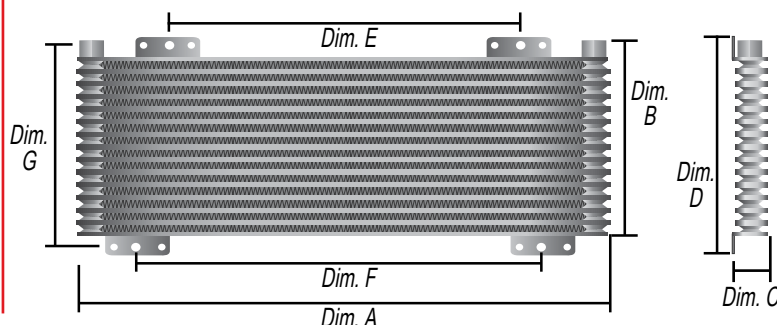
THE LEADER IN PERFORMANCE COOLING



Features and Benefits

- Integrated, high-flow turbulators
- Sturdy furnace-brazed aluminum construction tested to 250 P.S.I.
- 5/8" Inverted Flare Female inlets
- 4 integrated mounting points
- Recommended for: Transmission, Power Steering, Differential & Fuel

Dimensions



Transmission Cooler Kit

- Extends transmission service life by preventing heat-related component failure & fluid breakdown
- Improves transmission performance
- Hardware kit includes 3/8" barb fittings, high-pressure/high temperature hose, radiator adapter & mounting hardware

Trans Cooler Kit Part No.	Cooler Part No.	No. of Rows	Inlet Size	Fluid Capacity	GVW	BTU	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Overall Height)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Mounting)	Dim. H (Inlet to Inlet)
13633	33633	13	5/8" Inverted Flare	20 oz.	34000	33000	22 3/4"	8"	1 1/4"	9 1/4"	15 3/4"	17 3/4"	8 1/2"	21 3/8"



THE LEADER IN PERFORMANCE COOLING

SERIES 10000

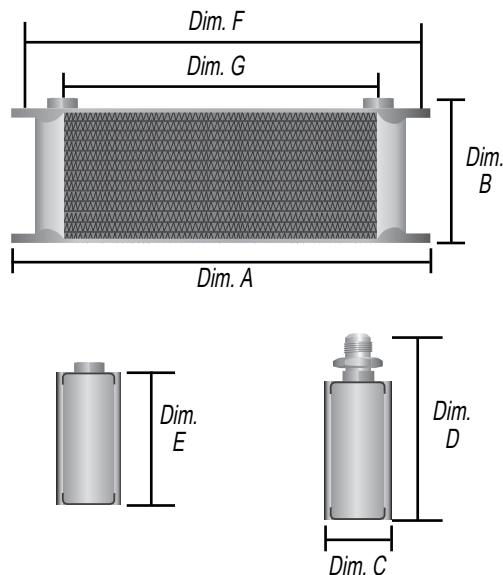
Stack Plate Fluid Coolers



Features and Benefits

- ***Ultra efficient heat-exchanger with built-in high-flow turbulators***
- ***Sturdy furnace-brazed aluminum construction tested to 250 P.S.I.***
- ***7/8"-14 UNF O-Ring cooler inlets & 4 integrated mounting points***
- ***Available in 6 cooler core sizes: 10, 16, 19, 25, 34 & 40-rows***
- ***Recommended for: Engine, Transmission, Power Steering, Differential and Fuel***

Dimensions



SERIES 10000

Stack Plate Fluid Coolers



COOLER CORE ONLY



10 row - Capacity 6 oz.

BTU: 20000

Cooler Part No.	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
51078	13"	3 5/8"	2"	2 7/8"	12 1/4"	10"



16 row - Capacity 10 oz.

BTU: 32000

Cooler Part No.	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
51678	13"	5 1/2"	2"	4 7/8"	12 1/4"	10"



19 row - Capacity 12 oz.

BTU: 37000

Cooler Part No.	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
51978	13"	6 3/8"	2"	5 9/16"	12 1/4"	10"



25 row - Capacity 16 oz.

BTU: 46000

Cooler Part No.	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
52578	13"	8 1/4"	2"	7 7/16"	12 1/4"	10"



34 row - Capacity 20 oz.

BTU: 59000

Cooler Part No.	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
53478	13"	10 7/8"	2"	10 1/16"	12 1/4"	10"



40 row - Capacity 26 oz.

BTU: 67000

Cooler Part No.	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
54078	13"	12 7/8"	2"	12"	12 1/4"	10"



THE LEADER IN PERFORMANCE COOLING

SERIES 10000

Stack Plate Fluid Coolers



Part No. 59006



Part No. 59008



Part No. 59010



Part No. 59012

COOLERS WITH STRAIGHT FITTINGS



Part No. 51078

Part No. 51006

10 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 51008

10 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 51010

10 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 51012

10 Row Cooler with
(2) -12 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings



Part No. 51678

Part No. 51606

16 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 51608

16 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 51610

16 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 51612

16 Row Cooler with
(2) -12 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings



Part No. 51978

Part No. 51906

19 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 51908

19 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 51910

19 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 51912

19 Row Cooler with
(2) -12 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings



Part No. 52578

Part No. 52506

25 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 52508

25 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 52510

25 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 52512

25 Row Cooler with
(2) -12 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings



Part No. 53478

Part No. 53406

34 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 53408

34 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 53410

34 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 53412

34 Row Cooler with
(2) -12 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings



Part No. 54078

Part No. 54006

40 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 54008

40 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 54010

40 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

Part No. 54012

40 Row Cooler with
(2) -12 AN Male
X 7/8"-14 UNF
Straight Adapter Fittings

SERIES 10000

Stack Plate Fluid Coolers



THE LEADER IN PERFORMANCE COOLING



Part No. 59406



Part No. 59408



Part No. 59506



Part No. 59508



Part No. 59510

COOLERS WITH 90° SWIVEL FITTINGS

Part No. 51081

10 Row Cooler with
(2) 3/8" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51082

10 Row Cooler with
(2) 1/2" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51086

10 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51088

10 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51080

10 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51681

16 Row Cooler with
(2) 3/8" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51682

16 Row Cooler with
(2) 1/2" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51686

16 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51688

16 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51680

16 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51981

19 Row Cooler with
(2) 3/8" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51982

19 Row Cooler with
(2) 1/2" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51986

19 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51988

19 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 51980

19 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 52581

25 Row Cooler with
(2) 3/8" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 52582

25 Row Cooler with
(2) 1/2" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 52586

25 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 52588

25 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 52580

25 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 53481

34 Row Cooler with
(2) 3/8" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 53482

34 Row Cooler with
(2) 1/2" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 53486

34 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 53488

34 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 53480

34 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 54081

40 Row Cooler with
(2) 3/8" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 54082

40 Row Cooler with
(2) 1/2" Hose Barb
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 54086

40 Row Cooler with
(2) -6 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 54088

40 Row Cooler with
(2) -8 AN Male
X 7/8"-14 UNF
90° Swivel Fittings

Part No. 54080

40 Row Cooler with
(2) -10 AN Male
X 7/8"-14 UNF
90° Swivel Fittings



THE LEADER IN PERFORMANCE COOLING

SERIES 10000 Stack Plate Fluid Cooler Kits

Transmission Cooler Kits

- Extends transmission service life by preventing heat-related component failure & fluid breakdown
- Improves transmission performance
- Hardware kit includes -6AN fittings, hose barb adapters, high-pressure/high temperature hose, Insta-Dapt radiator adapter and mounting hardware



Part No. 13401

Trans Cooler Kits with Swivel fittings come with (2) 3/8" Hose Barb X 7/8"-14 90° Swivel Fitting



Trans Cooler Kit Part No.	Trans Cooler kit w/ 90° Swivel Fittings Part No.	Repl. Cooler Part No.	No. of Rows	Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Overall Height)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
13401	13411	51078	10	6 oz.	20000	-6 AN Male	13"	4"	2"	4 7/16"	2 7/8"	12 1/4"	10"
13402	13412	51678	16	10 oz.	32000	-6 AN Male	13"	6"	2"	6 7/16"	4 7/8"	12 1/4"	10"
13403	13413	51978	19	12 oz.	37000	-6 AN Male	13"	7"	2"	7 5/16"	5 3/4"	12 1/4"	10"

Sandwich Adapter Kit



Engine Oil Cooler Kits - Sandwich

- Reduces oil temperatures
- Helps reduce coolant temperature
- Extends engine life
- Hardware kit includes 180°F thermostatic sandwich adapter, hose barb adapters, high-pressure/high temperature hose and mounting hardware

*Includes Sandwich Adapter Kit PN 25702, See page 40 for Adapter specifications.

Engine Oil Cooler Kit Part No.	Repl. Cooler Part No.	No. of Rows	Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Overall Height)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
15602*	51078	10	6 oz.	20000	-8 AN Male	13"	4"	2"	4 9/16"	2 7/8"	12 1/4"	10"

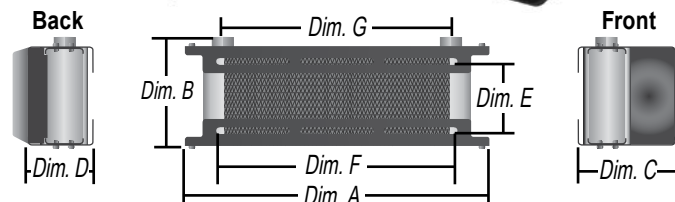
Spin-On Adapter Kit



Engine Oil Cooler Kits - Spin-On

- Reduces oil temperatures
- Helps reduce coolant temperature
- Relocates filter mount (Uses Fram PH8A equivalent filter)
- Hardware kit includes spin-on adapter, ports-up filter mount, hose barb adapters, high-pressure/high temperature hose & mounting hardware

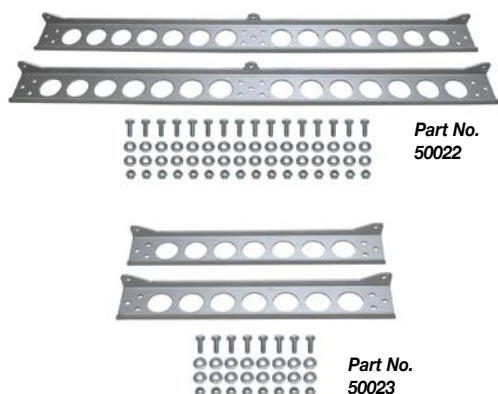
Engine Oil Cooler Kit Part No.	Repl. Cooler Part No.	No. of Rows	Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Overall Height)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
15651	51078	10	6 oz.	20000	-8 AN Male	13"	4"	2"	4 9/16"	2 7/8"	12 1/4"	10"



Scoop Cooler Kit

- **Aluminum mounting system, mounts to chassis rail**
- **Designed to capture & redirect airflow for max cooling**
- **Scoop shroud can be mounted to either side of cooler**
- **Highly efficient 10 Row, Series 10000 Cooler**

Cooler Kit Part No.	Repl. Cooler Part No.	No. of Rows	Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Depth)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
50100	51078	10	6 oz.	20000	-10AN / 7/8"-14	13"	4"	5" Front	3 1/4" Back	2 3/16"	10 1/4" Max	10"



Aluminum Mounting Brackets

- **Heavy-Duty aluminum construction, clear anodized**
- **Symmetrical design makes multiple mounting configurations possible**
- **Brackets can be flipped for inside or outside mounting**
- **Available for Single or Dual Series 10000 cooler(s)**

Part No.	Bracket Configuration	Width	Deep	Mounting Width
50022	Dual	27 7/8"	2 1/4"	13 1/2" / 13 1/2"
50023	Single	14 1/4"	2 1/4"	13 1/2"

Steel Mounting Brackets

- **Multi-position brackets**
- **Black powder coated steel brackets**

Part No.
50020





THE LEADER IN PERFORMANCE COOLING

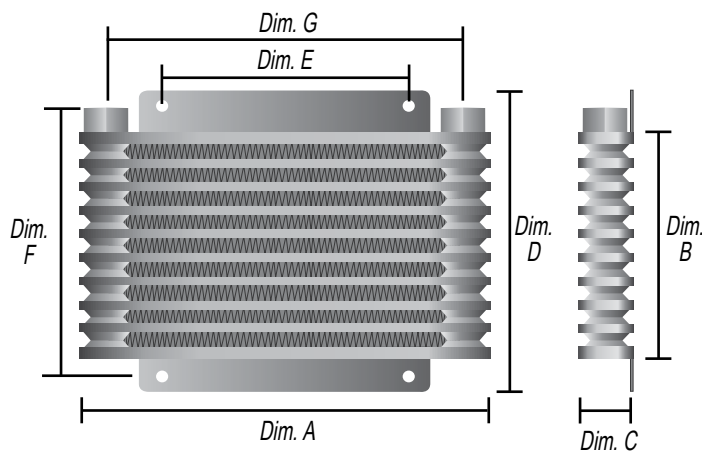
SERIES 9000 Plate & Fin Fluid Cooler Kits



Features and Benefits

- ***Integrated, high-flow turbulators***
- ***Sturdy furnace-brazed aluminum construction tested to 250 P.S.I.***
- ***1/2" NPT female cooler inlets & 4 integrated mounting points***
- ***Available in 5 cooler core sizes: 5, 9, 13, 17 & 21 rows***
- ***Recommended for: Engine, Transmission, Power Steering, Differential and Fuel***

Dimensions





21 row



17 row



13 row



9 row



5 row

SERIES 9000 Plate & Fin Fluid Cooler Kits

COOLER CORE ONLY

Cooler Part No.	No. of Rows	Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Overall Height)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
33601	5	3 oz.	12500	1/2" FPT	9 3/4"	2 3/8"	1 1/4"	4 1/8"	6 11/16"	3 5/16"	8 1/2"
33602	9	6 oz.	14000	1/2" FPT	9 3/4"	4 1/2"	1 1/4"	6 1/4"	6 11/16"	5 7/16"	8 1/2"
33603	13	10 oz.	21000	1/2" FPT	9 3/4"	6 11/16"	1 1/4"	8 7/16"	6 11/16"	7 9/16"	8 1/2"
33604	17	12 oz.	23500	1/2" FPT	9 3/4"	8 7/8"	1 1/4"	10 5/8"	6 11/16"	9 13/16"	8 1/2"
33605	21	14 oz.	25000	1/2" FPT	9 3/4"	11"	1 1/4"	12 13/16"	6 11/16"	12"	8 1/2"



Part No.
13612

Transmission Cooler Kits

- Extends transmission service life by preventing heat-related component failure & fluid breakdown
- Improves transmission performance
- Hardware kit includes 3/8" barb fittings, high-pressure/high temperature hose, Insta-Dapt radiator adapter & mounting hardware

Trans Cooler Kit Part No.	Repl. Cooler Part No.	No. of Rows	Capacity	GVW	BTU	Inlet Size	Hose Barb Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Overall Height)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
13611	33601	5	3 oz.	16000	12500	1/2" FPT	3/8"	9 3/4"	2 3/8"	1 1/4"	4 1/8"	6 11/16"	3 5/16"	8 1/2"
13612	33602	9	6 oz.	18000	14000	1/2" FPT	3/8"	9 3/4"	4 1/2"	1 1/4"	6 1/4"	6 11/16"	5 7/16"	8 1/2"
13613	33603	13	10 oz.	22000	21000	1/2" FPT	3/8"	9 3/4"	6 11/16"	1 1/4"	8 7/16"	6 11/16"	7 9/16"	8 1/2"
13614	33604	17	12 oz.	24000	23500	1/2" FPT	3/8"	9 3/4"	8 7/8"	1 1/4"	10 5/8"	6 11/16"	9 13/16"	8 1/2"
13615	33605	21	14 oz.	26500	25000	1/2" FPT	3/8"	9 3/4"	11"	1 1/4"	12 13/16"	6 11/16"	12"	8 1/2"



Engine Oil Cooler Kits - Sandwich

- Reduces oil temperatures
- Helps reduce coolant temperature
- Hardware kit includes spin-on adapter, ports-up filter mount, hose barb adapters, high-pressure/high temperature hose & mounting hardware

*Includes Sandwich Adapter Kit PN 25782, See page 40 for Adapter specifications.

Engine Oil Cooler Kit	Repl. Cooler Part No.	No. of Rows	Capacity	BTU	Inlet Size	Hose Barb Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Overall Height)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
15405*	33603	13	10 oz.	21000	1/2" FPT	3/8"	9 3/4"	6 11/16"	1 1/4"	8 7/16"	6 11/16"	7 9/16"	8 1/2"



Install Kit Only Part # 15748
(Only four barb fittings included with install kit)

Cooler Mounting Kit Only Part # 13001
(Plastic rods, foam pads and clips)

Engine Oil Cooler Kits - Spin-On

- Reduces oil temperatures
- Helps reduce coolant temperature
- Relocates filter mount (Uses Fram PH8A equivalent filter)
- Hardware kit includes adapter, ports-up filter mount, hose barb adapters, high-pressure/high temperature hose & mounting hardware

Engine Oil Cooler Kit	Repl. Cooler Part No.	No. of Rows	Capacity	BTU	Inlet Size	Hose Barb Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Overall Height)	Dim. E (Mounting)	Dim. F (Mounting)	Dim. G (Inlet)
15451	33603	13	10 oz.	21000	1/2" FPT	3/8"	9 3/4"	6 11/16"	1 1/4"	8 7/16"	6 11/16"	7 9/16"	8 1/2"



THE LEADER IN PERFORMANCE COOLING

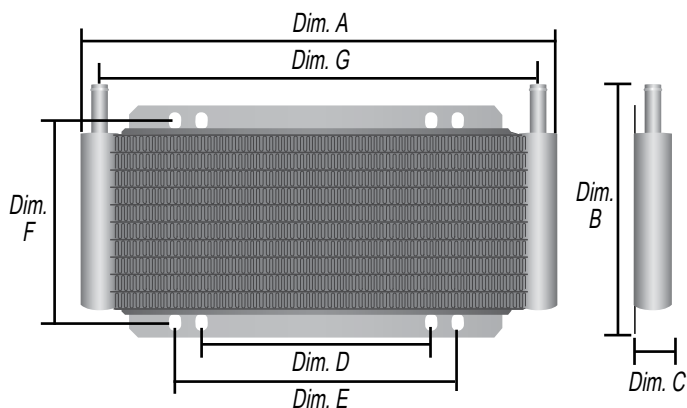
SERIES 8000 Plate & Fin Fluid Cooler Kits



Features and Benefits

- ***Integrated high-flow turbulators for maximum cooling efficiency***
- ***Sturdy furnace-brazed aluminum construction tested to 250 p.s.i.***
- ***11/32" hose barb inlets***
- ***Available in 4 cooler core sizes: 9, 13, 18 & 24-rows***
- ***Recommended for: Transmission, Power Steering, Differential and Fuel***

Dimensions



SERIES 8000 Plate & Fin Fluid Cooler Kits



24 row



18 row
(Inverted Flare)



18 row



13 row



9 row

COOLER CORE ONLY

Part No.	No. of Rows	Fluid Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Mounting Height)	Dim. G (Inlets)
33501	9	2.5 oz.	11500	11/32" Barb	11"	5 3/4"	7/8"	5 1/4"	6 3/4"	4 1/2"	10 1/4"
33502	13	4 oz.	13500	11/32" Barb	11"	7 1/4"	7/8"	5 1/4"	6 3/4"	6 1/8"	10 1/4"
33503	18	5.5 oz.	20000	11/32" Barb	11"	9 1/4"	7/8"	5 1/4"	6 3/4"	8"	10 1/4"
33504	24	8 oz.	23000	11/32" Barb	11"	11 3/4"	7/8"	5 1/4"	6 3/4"	10 1/2"	10 1/4"
33523	18	5.5 oz.	20000	1/2"-20 Inverted Flare	11"	8 13/16"	7/8"	5 1/4"	6 3/4"	8"	10 1/4"

Part No.
13502



Transmission Cooler Kits

- Extends transmission service life by preventing heat-related component failure & fluid breakdown
- Improves transmission performance
- Sturdy furnace-brazed aluminum construction
- Integrated, high-flow turbulators maximize cooling efficiency
- Hardware kit includes high pressure/high temperature hose, Insta-Dapt radiator adapter & mounting hardware

Part No.	Repl. Cooler Part No.	No. of Rows	Fluid Capacity	GVW	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Mounting Height)	Dim. G (Inlets)
13501	33501	9	2.5 oz.	15500	11500	11/32" Barb	11"	5 3/4"	7/8"	5 1/4"	6 3/4"	4 1/2"	10 1/4"
13502	33502	13	4 oz.	18000	13500	11/32" Barb	11"	7 1/4"	7/8"	5 1/4"	6 3/4"	6 1/8"	10 1/4"
13503	33503	18	5.5 oz.	20500	20000	11/32" Barb	11"	9 1/4"	7/8"	5 1/4"	6 3/4"	8"	10 1/4"
13504	33504	24	8 oz.	22500	23000	11/32" Barb	11"	11 3/4"	7/8"	5 1/4"	6 3/4"	10 1/2"	10 1/4"
13523	33523	18	5.5 oz.	20500	20000	1/2"-20 Inverted Flare	11"	8 13/16"	7/8"	5 1/4"	6 3/4"	8"	10 1/4"

Part No.
13215



Power Steering Cooler Kits

- Extends pump & seal life
- Reduces heat-related pump failure
- 11/32" hose barb inlets
- Integrated, high-flow turbulators maximize cooling efficiency
- Hardware kit includes high pressure/high temperature hose, and mounting hardware

Part No.	Repl. Cooler Part No.	No. of Rows	Fluid Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Mounting)	Dim. F (Mounting Height)	Dim. G (Inlets)
13215	33501	9	2.5 oz.	11500	11/32" Barb	11"	5 3/4"	7/8"	5 1/4"	6 3/4"	4 1/2"	10 1/4"



THE LEADER IN PERFORMANCE COOLING

SERIES 7000

Tube & Fin Fluid Coolers



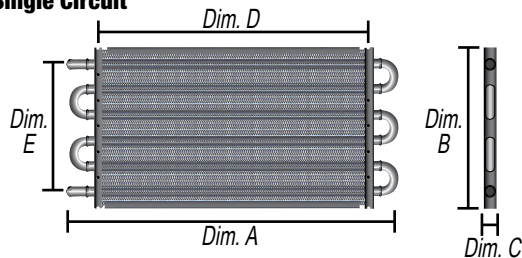
Features and Benefits

- Prevents heat-related component failure & fluid breakdown
- 1/2" copper tubing expanded into aluminum cooling fins
- Black powder coated finish
- Extruded plastic fin guards
- Recommended for: Engine, Transmission, Power Steering, Differential and Fuel

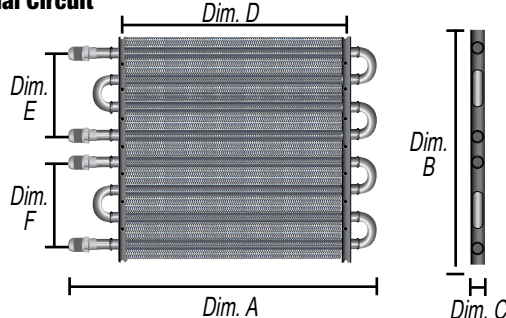


Dimensions

Single Circuit



Dual Circuit



SERIES 7000

Tube & Fin Fluid Coolers



THE LEADER IN PERFORMANCE COOLING



Part No.
13300



Part No.
13309



Part No.
13310



Part No.
13311



Part No.
13312



Part No.
13313



Part No.
13314



Part No.
13315



Part No.
13316



Part No.
13317



Part No.
13318



Part No.
15301



Part No.
15300

COOLER CORE ONLY

Cooler Part No.	No. of Passes	Fluid Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Inlet to Inlet)	Dim. F (Inlet to Inlet)
13300	16	19.6 oz.	15000	-6 AN	13 1/2"	10 3/8"	1 3/4"	9 5/8"	9 1/8"	--
13309	4	2.5 oz.	1500	-6 AN	8 1/8"	5 1/8"	3/4"	4 7/8"	3 3/4"	--
13310	2	1.5 oz.	2000	-6 AN	8 1/8"	2 5/8"	1 3/4"	5 1/4"	1 1/4"	--
13311	4	4 oz.	3500	-6 AN	13 1/2"	5 1/8"	3/4"	9 5/8"	3 3/4"	--
13312	4	4.25 oz.	3500	-6 AN	17 1/2"	5 1/8"	3/4"	13 1/2"	3 3/4"	--
13313	6	7 oz.	5500	-6 AN	17 1/2"	7 5/8"	3/4"	13 1/2"	6 1/4"	--
13314	8	11.5 oz.	8000	-6 AN	17 1/2"	10 1/4"	3/4"	13 1/2"	8 3/4"	--
13315	10	13.5 oz.	10000	-6 AN	17 1/2"	12 5/8"	3/4"	13 1/2"	11 1/4"	--
13316	6	6 oz.	5500	-6 AN	13 1/2"	7 5/8"	3/4"	9 5/8"	6 1/4"	--
13317	8	6.25 oz.	7500	-6 AN	13 1/2"	10 1/4"	3/4"	9 5/8"	8 3/4"	--
13318	10	8 oz.	9500	-6 AN	13 1/2"	12 5/8"	3/4"	9 5/8"	11 1/4"	--
15300	16	19.6 oz.	15000	-8 AN	13 1/2"	10 3/8"	1 3/4"	9 5/8"	9 1/8"	--
Dual Circuit										
15301	8 pass and 8 pass	2.5 oz.	16000	(4) -8AN	13 15/16"	10 1/2"	1 3/4"	9 5/8"	4 1/8"	4 1/8"



THE LEADER IN PERFORMANCE COOLING

SERIES 7000 Tube & Fin Fluid Cooler Kits

6AN Inlets Transmission Cooler Kits

- Extends transmission service life by preventing heat-related component failure & fluid breakdown
- Improves transmission performance
- Hardware kit includes high-pressure/high-temperature hose, Insta-Dapt radiator adapter and mounting hardware



Part No.
13306

Trans Cooler Kit Part No.	No. of Passes	Fluid Capacity	GVW	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Inlet to Inlet)
13303	6	7 oz.	18500	5500	-6AN	17 1/2"	7 5/8"	3/4"	13 1/2"	6 1/4"
13304	8	11.5 oz.	20500	8000	-6AN	17 1/2"	10 1/4"	3/4"	13 1/2"	8 3/4"
13306	6	6 oz.	15500	5500	-6AN	13 1/2"	7 5/8"	3/4"	9 5/8"	6 1/4"

11/32" Barb Inlets Transmission Cooler Kits

- Extends transmission service life by preventing heat-related component failure & fluid breakdown
- Improves transmission performance
- Hardware kit includes high-pressure/high-temperature hose, Insta-Dapt radiator adapter & mounting hardware



Part No.
13106

Trans Cooler Kit Part No.	No. of Passes	Fluid Capacity	GVW	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Inlet to Inlet)
13101	4	4 oz.	12000	3500	11/32" Barb	12 3/4"	5 1/8"	3/4"	9 5/8"	3 3/4"
13102	4	4.25 oz.	14000	3500	11/32" Barb	16 5/8"	5 1/8"	3/4"	13 1/2"	3 3/4"
13103	6	7 oz.	18500	6000	11/32" Barb	16 5/8"	7 5/8"	3/4"	13 1/2"	6 1/4"
13104	8	11.5 oz.	20500	8000	11/32" Barb	16 5/8"	10 1/4"	3/4"	13 1/2"	8 3/4"
13105	10	13.5 oz.	22500	10000	11/32" Barb	16 5/8"	12 5/8"	3/4"	13 1/2"	11 1/4"
13106	6	6 oz.	15500	6000	11/32" Barb	12 3/4"	7 5/8"	3/4"	9 5/8"	6 1/4"
13107	8	6.25 oz.	18200	7500	11/32" Barb	12 3/4"	10 1/4"	3/4"	9 5/8"	8 3/4"
13108	10	8 oz.	20500	9500	11/32" Barb	12 3/4"	12 5/8"	3/4"	9 5/8"	11 1/4"

Part No.
15505



Engine Oil Cooler Kits - Sandwich

- Reduces oil temperatures
- Helps reduce coolant temperature
- Extends engine life
- Hardware kit includes 180°F thermostatic sandwich adapter, 1/2" hose barb adapters, 1/2" high-pressure/high temperature hose and mounting hardware

*See page 40 for Sandwich Adapter Kit specifications.

Engine Oil Cooler Kit Part No.	Repl. Cooler Part No.	Repl. Sandwich Adapter Kit Part No.	No. of Passes	Fluid Capacity	GVW	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Inlet to Inlet)
15505	15302	25782*	6	7 oz.	18500	6000	11/32" Barb	16 5/8"	7 5/8"	3/4"	13 1/2"	6 1/4"
15502	15302	25702*	6	7 oz.	18500	6000	11/32" Barb	16 5/8"	7 5/8"	3/4"	13 1/2"	6 1/4"

Part No.
13200



Power Steering Cooler Kits

- Extends pump and seal life
- Reduces heat-related pump failure
- 1/2" copper tubing expanded into aluminum cooling fins
- Hardware kit includes high-pressure/high-temperature hose, clamps and mounting hardware

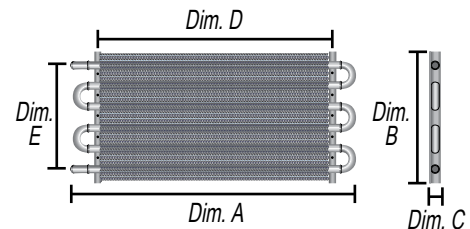
Power Steering Kit Part No.	Repl. Cooler Part No.	No. of Passes	Fluid Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Inlet to Inlet)
13200	-----	2	2.25 oz.	1500	11/32" Barb	12 3/4"	2 5/8"	3/4"	9 5/8"	1 1/4"
13212	13309	4	2.5 oz.	3500	11/32" Barb	8 1/8"	5 1/8"	3/4"	4 7/8"	3 3/4"
13213	-----	2	1 oz.	3500	11/32" Barb	8 1/8"	2 5/8"	3/4"	4 7/8"	1 1/4"

Part No.
12903



Series 6000 Transmission Cooler Kits

- Prevents heat-related component failure & fluid breakdown
- Aluminum tubing expanded into aluminum cooling fins
- Embossed turbulators in each tube agitate fluid
- Hardware kit includes high pressure/high temperature hose, Insta-Dapt radiator adapter with plastic rod mounting



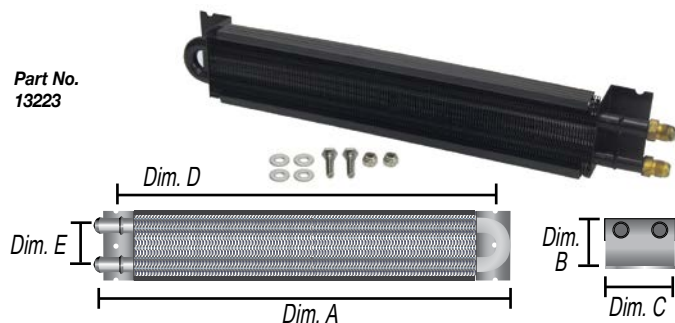
Trans Cooler Kit Part No.	No. of Passes	Fluid Capacity	GVW	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Inlet to Inlet)
12901	4	3.25 oz.	12000	3300	11/32" Barb	12 3/4"	5"	3/4"	10 1/8"	3 3/4"
12902	4	4 oz.	14000	3300	11/32" Barb	15 1/4"	5"	3/4"	12 1/4"	3 3/4"
12903	6	7 oz.	18500	5000	11/32" Barb	15 1/4"	7 1/2"	3/4"	12 1/4"	6 1/4"
12904	8	11 oz.	20500	7000	11/32" Barb	15 1/4"	10"	3/4"	12 1/4"	8 3/4"
12906	6	6 oz.	15500	4700	11/32" Barb	12 3/4"	7 1/2"	3/4"	10 1/8"	6 1/4"



THE LEADER IN PERFORMANCE COOLING

Frame Rail Fluid Cooler Kits

Part No.
13223

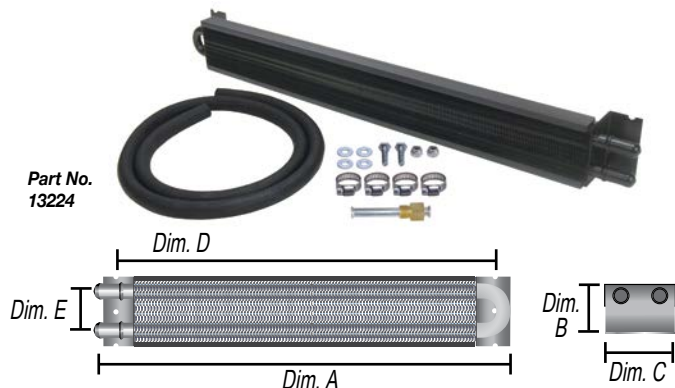


Frame Rail Cooler Kit

- Prevents heat-related component failure and fluid breakdown
- 1/2" copper tubing expanded into aluminum cooling fins
- -6 AN hose barb inlets
- Extruded plastic cooling fin guards

Cooler Kit Part No.	No. of Passes	Fluid Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Inlet to Inlet)
13223	2	2.5 oz.	2000	-6 AN	13 3/4"	2 3/4"	1 3/4"	11 3/4"	1 1/4"
13221	2	3.25 oz.	2200	-6 AN	17 3/4"	2 3/4"	1 3/4"	15 1/2"	1 1/4"
13225	2	4.5 oz.	2400	-6 AN	24 3/4"	2 3/4"	1 3/4"	22 3/4"	1 1/4"

Part No.
13224

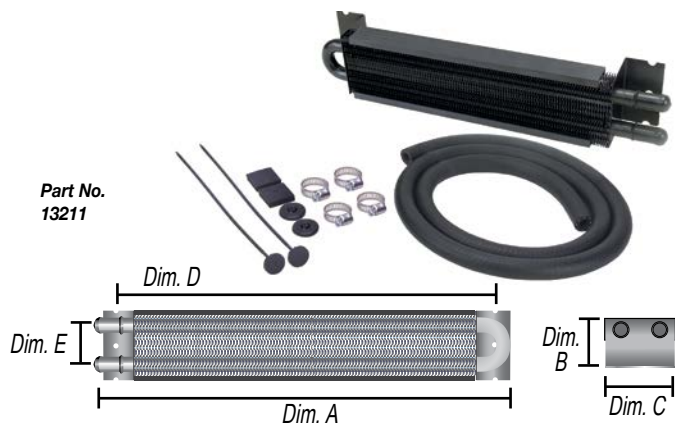


Transmission Cooler Kits

- Prevents heat-related transmission failure and fluid breakdown
- 1/2" copper tubing expanded into aluminum cooling fins
- 11/32" hose barb inlets
- Extruded plastic cooling fin guards

Trans Cooler Kit Part No.	Repl. Core	No. of Passes	Fluid Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Inlet to Inlet)
13222	13223	2	2.5 oz.	2000	11/32"	12 3/4"	2 3/4"	1 3/4"	11 3/4"	1 1/4"
13220	13321	2	3.25 oz.	2200	11/32"	16 3/4"	2 3/4"	1 3/4"	15 1/2"	1 1/4"
13224	13225	2	4.5 oz.	2400	11/32"	23 3/4"	2 3/4"	1 3/4"	22 3/4"	1 1/4"

Part No.
13211



Power Steering Cooler Kits

- Extends pump & seal life
- Reduces heat-related pump failure
- Copper tubing expanded into aluminum cooling fins
- 11/32" hose barb inlets

Power Steering Kit Part No.	No. of Passes	Fluid Capacity	BTU	Inlet Size	Dim. A (Width)	Dim. B (Height)	Dim. C (Depth)	Dim. D (Mounting)	Dim. E (Inlet to Inlet)
13210	2	1.5 oz.	1500	11/32" Barb	8 1/8"	2 3/4"	1 3/4"	5 1/4"	1 1/4"
13211	2	2.5 oz.	2000	11/32" Barb	13 3/4"	2 3/4"	1 3/4"	11 3/4"	1 1/4"

Radiator Fittings and Trans Pan accessories



THE LEADER IN PERFORMANCE COOLING



Snap in
Tube Fitting

GM Radiator Adapter

Part No.	13035
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Fits 1993-2012 Buick with 4.6L, 4.2 L, 3.9L, 3.8L, 3.6L, 3.5L, 3.4L, 3.3L, 3.1L, 2.5L, 2.4L, 2.3L, 2.2L Engines

Fits 1993-2012 Cadillac 6.2L, 6.0L, 5.7L, 5.3L, 4.9L, 4.6L, 4.5L, 4.1L, 3.0L Engines

Fits 2000-2012 Chevrolet Cars, SUV's, Chevrolet, GM Trucks, Vans with 3.8L, 3.4L, 6.0L, 5.3L, 4.8L, 4.3L, 4.2L, 3.7L, 3.5L, 3.4L, 2.9L, 2.8L Engines

Fits 2003-2007 Isuzu SUV's with 4.2L, 5.3L Engines

Fits 2002-2004 Oldsmobile Bravada with 4.2L Engine

Fits 2001-2007 Pontiac with 3.9L, 3.8L, 3.5L, 3.4L, 3.1L Engines

Universal Transmission Line Fittings



5/16" Transmission Cooler Hard Line
to 3/8" NPT Hose Barb

Part No.	13031
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3/8" Transmission Cooler Hard Line
to 3/8" NPT Hose Barb

Part No.	13032
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1/2" Transmission Cooler Hard Line
to 1/2" NPT Hose Barb

Part No.	13033
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Fits most vehicles with 5/16" transmission lines. Includes male and female threads.

Part No.	13004
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Transmission Pan Accessories

Filter Pickup Tube



Application:
GM TH400 Deep pan - Extends filter for use on deep transmission pans.

Part No.	14002
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Deep Pan Filter Extender



Application:
Dodge A727, A904, A518 & A618 - Extends filter for use on deep transmission pans.

Part No.	14010
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Magnetic Drain Plug Kit

- 1/2"-20 Threads
- Increased magnet strength
- Rubber/Steel washer

Part No.	14000
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Ram Air Fluid Coolers - Quick Guide

Ram Air Cooler Kits							
Size	Part No.	Series	Description	Width	Height	Depth	Page
8" to 9" Width	13309	7000 Tube & Fin Cooler	-6 AN, 4 Pass	8 1/8"	5"	3/4"	29
	13310	7000 Tube & Fin Cooler	-6 AN, 2 Pass	8 1/8"	2 5/8"	1 3/4"	29
10" to 15" Width	33601	9000 Plate & Fin Cooler	1/2" NPT, 5 Row	9 3/4"	4 1/8"	1 1/4"	25
	33602	9000 Plate & Fin Cooler	1/2" NPT, 9 Row	9 3/4"	6 1/4"	1 1/4"	25
	33603	9000 Plate & Fin Cooler	1/2" NPT, 13 Row	9 3/4"	8 7/16"	1 1/4"	25
	33604	9000 Plate & Fin Cooler	1/2" NPT, 17 Row	9 3/4"	10 5/8"	1 1/4"	25
	13605	9000 Tube & Fin Cooler	1/2" NPT, 21 Row	9 3/4"	12 3/16"	1 1/4"	25
	33501	8000 Plate & Fin Cooler	11/32" Barb, 9 Row	11"	5 3/4"	7/8"	27
	33502	8000 Plate & Fin Cooler	11/32" Barb, 13 Row	11"	7 1/4"	7/8"	27
	33503	8000 Plate & Fin Cooler	11/32" Barb, 18 Row	11"	9 1/4"	7/8"	27
	33504	8000 Plate & Fin Cooler	11/32" Barb, 24 Row	11"	12"	7/8"	27
	33523	8000 Plate & Fin Cooler	1/2"-20 Inverted Flare, 18 Row	11"	8 13/16"	7/8"	27
	51078	10000 Stack Plate Cooler	No Fittings, 10 Row	13"	4"	2"	19-20
	51678	10000 Stack Plate Cooler	No Fittings, 16 Row	13"	6"	2"	19-20
	51978	10000 Stack Plate Cooler	No Fittings, 19 Row	13"	7"	2"	19-20
	52578	10000 Stack Plate Cooler	No Fittings, 25 Row	13"	9"	2"	19-20
	53478	10000 Stack Plate Cooler	No Fittings, 34 Row	13"	11"	2"	19-20
	54078	10000 Stack Plate Cooler	No Fittings, 40 Row	13"	13"	2"	19-20
	13311	7000 Tube & Fin Cooler	-6 AN, 4 Pass	13 1/2"	5 1/8"	3/4"	29
	13316	7000 Tube & Fin Cooler	6 Pass	13 1/2"	7 5/8"	3/4"	29
	13317	7000 Tube & Fin Cooler	-6 AN, 8 Pass	13 1/2"	10 1/4"	3/4"	29
	13300	7000 Tube & Fin Cooler	-6 AN, 16 Pass	13 1/2"	10 1/4"	1 3/4"	29
	15300	7000 Tube & Fin Cooler	-8 AN, 16 Pass	13 1/2"	10 1/4"	1 3/4"	29
	13318	7000 Tube & Fin Cooler	-6 AN, 10 Pass	13 1/2"	12 5/8"	3/4"	29
	13223	7000 Tube & Fin Cooler	-6 AN, 2 Pass (Frame Rail Cooler)	13 3/4"	2 1/2"	1 3/4"	34
	15301	7000 Tube & Fin Cooler	-8 AN, 8 pass and 8 pass	13 15/16"	10 1/2"	1 3/4"	29
16" to 25" Width	13312	7000 Tube & Fin Cooler	-6 AN, 4 Pass	17 1/2"	5 1/8"	3/4"	29
	13313	7000 Tube & Fin Cooler	-6 AN, 6 Pass	17 1/2"	7 5/8"	3/4"	29
	13314	7000 Tube & Fin Cooler	-6 AN, 8 Pass	17 1/2"	10 1/4"	3/4"	29
	13315	7000 Tube & Fin Cooler	-6 AN, 10 Pass	17 1/2"	12 5/8"	3/4"	29
	13221	7000 Tube & Fin Cooler	-6 AN, 2 Pass (Frame Rail Cooler)	17 3/4"	2 1/2"	1 3/4"	34
	33633	9500 Plate & Fin Cooler	5/8" Inverted Flare, 13 Row	22 3/4"	9 1/4"	1 1/4"	17
	13225	7000 Tube & Fin Cooler	-6 AN, 2 Pass (Frame Rail Cooler)	24 3/4"	2 1/2"	1 3/4"	34
Ram Air Coolers - Engine Oil Cooler Kits							
Size	Part No.	Series	Description	Width	Height	Depth	Page
10" to 15" Width	15405	9000 Tube & Fin Cooler	13 Row, Sandwich Adapter	10 1/8"	8 7/8"	1 1/4"	25
	15451	9000 Tube & Fin Cooler	13 Row, Spin-On Adapter	10 1/8"	8 7/8"	1 1/4"	25
	15602	10000 Stack Plate Cooler	10 Row, Sandwich Adapter	13"	4 9/16"	2"	22
	15651	10000 Stack Plate Cooler	10 Row, Spin-On Adapter	13"	4 9/16"	2"	22
16" to 25" Width	15502	7000 Tube & Fin Cooler	111/32" Barb, 6 Pass, Sandwich Adapter	16 5/8"	7 5/8"	3/4"	31
	15503	7000 Tube & Fin Cooler	111/32" Barb, 6 Pass, Sandwich Adapter	16 5/8"	7 5/8"	3/4"	31
	15505	7000 Tube & Fin Cooler	111/32" Barb, 6 Pass, Sandwich Adapter	16 5/8"	7 5/8"	3/4"	31

Ram Air Fluid Coolers - Quick Guide

Ram Air Coolers - Transmission Oil Cooler Kits							
Size	Part No.	Series	Description	Width	Height	Depth	Page
10" to 15" Width	13611	9000 Tube & Fin Cooler	1/2" NPT, 5 Row	9 3/4"	4 1/8"	1 1/4"	25
	13612	9000 Tube & Fin Cooler	1/2" NPT, 9 Row	9 3/4"	6 1/4"	1 1/4"	25
	13613	9000 Tube & Fin Cooler	1/2" NPT, 13 Row	9 3/4"	8 7/16"	1 1/4"	25
	13614	9000 Tube & Fin Cooler	1/2" NPT, 17 Row	9 3/4"	10 5/8"	1 1/4"	25
	13615	9000 Tube & Fin Cooler	1/2" NPT, 21 Row	9 3/4"	12 13/16"	1 1/4"	25
	13501	8000 Tube & Fin Cooler	11/32" Barb, 9 Row	11"	5 3/4"	7/8"	27
	13502	8000 Tube & Fin Cooler	11/32" Barb, 13 Row	11"	7 1/4"	7/8"	27
	13503	8000 Tube & Fin Cooler	11/32" Barb, 18 Row	11"	9 1/4"	7/8"	27
	13504	8000 Tube & Fin Cooler	11/32" Barb, 24 Row	11"	12"	7/8"	27
	13523	8000 Tube & Fin Cooler	1/2"-20 Inverted Flare, 18 Row	11"	8 13/16"	7/8"	27
	13401	10000 Stack Plate Cooler	3/8" Hose Barb, 10 Row	13"	4 7/16"	2"	22
	13411	10000 Stack Plate Cooler	3/8" 90° Hose Barb, 10 Row	13"	4 7/16"	2"	22
	12901	6000 Tube & Fin Cooler	11/32" Barb, 4 Pass	12 3/4"	5"	3/4"	31
	13402	10000 Stack Plate Cooler	3/8" Hose Barb, 16 Row	13"	6 7/16"	2"	22
	13412	10000 Stack Plate Cooler	3/8" 90° Hose Barb, 16 Row	13"	6 7/16"	2"	22
	13403	10000 Stack Plate Cooler	3/8" Hose Barb, 19 Row	13"	7 5/16"	2"	22
	13413	10000 Stack Plate Cooler	3/8" 90° Hose Barb, 19 Row	13"	7 5/16"	2"	22
	12906	6000 Tube & Fin Cooler	11/32" Barb, 6 Pass	12 3/4"	7 1/2"	3/4"	31
	13101	7000 Tube & Fin Cooler	11/32" Barb, 4 Pass	13 1/2"	5 1/8"	3/4"	30
	13306	7000 Tube & Fin Cooler	-6 AN, 6 Pass	13 1/2"	7 5/8"	3/4"	30
	13106	7000 Tube & Fin Cooler	11/32" Barb, 6 Pass	13 1/2"	7 5/8"	3/4"	30
	13107	7000 Tube & Fin Cooler	11/32" Barb, 8 Pass	13 1/2"	10 1/4"	3/4"	30
	13108	7000 Tube & Fin Cooler	11/32" Barb, 10 Pass	13 1/2"	12 5/8"	3/4"	30
	13222	7000 Tube & Fin Cooler	11/32" Barb, 2 Pass (Frame Rail Cooler)	13 3/4"	2 1/2"	1 3/4"	34
	12902	6000 Tube & Fin Cooler	11/32" Barb, 4 Pass	15 1/4"	5"	3/4"	31
	12903	6000 Tube & Fin Cooler	11/32" Barb, 6 Pass	15 1/4"	7 1/2"	3/4"	31
	12904	6000 Tube & Fin Cooler	11/32" Barb, 8 Pass	15 1/4"	10"	3/4"	31
16" to 25" Width	13102	7000 Tube & Fin Cooler	11/32" Barb, 4 Pass	17 1/2"	5 1/8"	3/4"	30
	13103	7000 Tube & Fin Cooler	11/32" Barb, 6 Pass	17 1/2"	7 5/8"	3/4"	30
	13303	7000 Tube & Fin Cooler	-6 AN, 6 Pass	17 1/2"	7 5/8"	3/4"	30
	13104	7000 Tube & Fin Cooler	11/32" Barb, 8 Pass	17 1/2"	10 1/4"	3/4"	30
	13304	7000 Tube & Fin Cooler	-6 AN, 8 Pass	17 1/2"	10 1/4"	3/4"	30
	13105	7000 Tube & Fin Cooler	11/32" Barb, 10 Pass	17 1/2"	12 5/8"	3/4"	30
	13220	7000 Tube & Fin Cooler	11/32" Barb, 2 Pass (Frame Rail Cooler)	17 3/4"	2 1/2"	1 3/4"	34
	13633	9500 Plate & Fin Cooler	5/8" Inverted Flare, 13 Row	22 3/4"	9 1/4"	1 1/4"	17
	13224	7000 Tube & Fin Cooler	11/32" Barb, 2 Pass (Frame Rail Cooler)	24 3/4"	2 1/2"	1 3/4"	34
Ram Air Coolers - Power Steering Kits							
Size	Part No.	Series	Description	Width	Height	Depth	Page
8" to 9" Width	13210	7000 Tube & Fin Cooler	11/32" Barb, 2 Pass (Frame Rail Cooler)	8 1/8"	1 3/4"	1 3/4"	34
	13212	7000 Tube & Fin Cooler	11/32" Barb, 4 Pass	8 1/8"	5 1/8"	3/4"	31
	13213	7000 Tube & Fin Cooler	11/32" Barb, 2 Pass	8 1/8"	2 5/8"	3/4"	31
10" to 15" Width	13215	8000 Plate & Fin Cooler	11/32" Barb, 9 Row	11"	5 3/4"	7/8"	29
	13200	7000 Tube & Fin Cooler	11/32" Barb, 2 Pass	12 3/4"	2 5/8"	3/4"	31
	13211	7000 Tube & Fin Cooler	11/32" Barb, 2 Pass (Frame Rail Cooler)	13 3/4"	1 3/4"	1 3/4"	34



THE LEADER IN PERFORMANCE COOLING

Black Anodized Aluminum Fittings

- 6061 aluminum
- Black anodized finish

Female AN Swivel Hose Barb Fittings



Part No.	Description	U/M
98200	-6 AN Female x 3/8" Hose Barb	Ea.
98201	-8 AN Female x 3/8" Hose Barb	Ea.
98202	-8 AN Female x 1/2" Hose Barb	Ea.
98203	-10 AN Female x 1/2" Hose Barb	Ea.

Male AN Hose Barb Fittings



Part No.	Description	U/M
98204	-6 AN Male x 3/8" Hose Barb	Ea.
98205	-8 AN Male x 1/2" Hose Barb	Ea.

7/8-14 O-Ring to Hose Barb Fittings



Part No.	Description	U/M
98206	7/8 -14 UNF Male o-ring x 3/8" Hose Barb	Ea.
98208	7/8 -14 UNF Male o-ring x 1/2" Hose Barb	Ea.

Straight NPT Hose Barb Fittings



Part No.	Description	U/M
98100	1/4" NPT Male x 3/8" Hose Barb	Ea.
98101	3/8" NPT Male x 3/8" Hose Barb	Ea.
98102	3/8" NPT Male x 1/2" Hose Barb	Ea.
98103	1/2" NPT Male x 1/2" Hose Barb	Ea.

Male Adapter Fittings-AN x 7/8-14 O-ring



Part No.	Description	U/M
59006	-6 AN Male x 7/8"-14 UNF o-ring	Ea.
59008	-8 AN Male x 7/8"-14 UNF o-ring	Ea.
59010	-10 AN Male x 7/8"-14 UNF o-ring	Ea.
59012	-12 AN Male x 7/8"-14 UNF o-ring	Ea.
59106	-6 AN x 5/8"-18 o-ring	Ea.
59108	-8 AN x 5/8"-18 o-ring	Ea.



- 6061 aluminum
- Black anodized finish

Male Adapter Fittings-AN x NPT



Part No.	Description	U/M
59206	-6AN Male x 3/8" NPT Male	Ea.
59208	-8AN Male x 3/8" NPT Male	Ea.
59210	-10AN Male x 3/8" NPT Male	Ea.
59306	-6AN Male x 1/2" NPT Male	Ea.
59308	-8AN Male x 1/2" NPT Male	Ea.
59310	-10AN Male x 1/2" NPT Male	Ea.

90° Swivel Fittings



Part No.	Description	U/M
59506	7/8 -14 UNF o-ring to -6 AN male 90° swivel	Ea.
59508	7/8 -14 UNF o-ring to -8 AN male 90° swivel	Ea.
59510	7/8-14 UNF o-ring to -10 AN male 90° swivel	Ea.

90° Swivel Fittings



Part No.	Description	U/M
59406	7/8-14 UNF o-ring to 3/8" hose barb male 90° swivel	Ea.
59408	7/8-14 UNF o-ring to 1/2" hose barb male 90° swivel	Ea.

90° Swivel Fittings



Part No.	Description	U/M
59606	3/8" NPT to AN6 male 90° swivel	Ea.
59608	3/8" NPT to AN8 male 90° swivel	Ea.
59706	1/2" NPT to AN6 male 90° swivel	Ea.
59708	1/2" NPT to AN8 male 90° swivel	Ea.

Compression Fittings-Tube to AN



Part No.	Description	U/M
13044	Compression Fitting 5/16" Tube to -6AN Male	Ea.

Compression Fittings-Tube to Hose Barb



Part No.	Description	U/M
13041	Compression Fitting 5/16" Tube to 3/8" Hose Barb	Ea.
13042	Compression Fitting 3/8" Tube to 3/8" Hose Barb	Ea.
13043	Compression Fitting 1/2" Tube to 1/2" Hose Barb	Ea.

Fittings, Accessories, Hose & Mount Kits



Straight NPT Hose Barb Fittings



Part No.	Description	U/M
98104	1/4" Female x 3/8" Barb	Ea.
98105	3/8" Female x 3/8" Barb	Ea.
98106	1/2" Female x 1/2" Barb	Ea.

NPT Reducer Bushings



Part No.	Description	U/M
98450	3/8" Male x 1/8" Female	Ea.
98451	1/2" Male x 1/8" Female	Ea.
98452	1/2" Male x 3/8" Female	Ea.

Filter Nipples



Part No.	Description	U/M
98020	3/4"-16	Ea.
98021	13/16"-16	Ea.

90° Hose Barb Fittings



Part No.	Description	U/M
98233	3/8" NPT Male x 3/8" Barb	Ea.
98234	3/8" NPT Male x 1/2" Barb	Ea.
98244	1/2" NPT Male x 1/2" Barb	Ea.

Replacement Hose

- Transmission or engine oil hose
- High temperature OEM spec hose
- 300 p.s.i. burst rating

Part #
13003



Part No.	Hose ID	Length	Application
13003	11/32"	4 ft.	Transmission
13007	11/32"	25 ft.	Transmission
13016	3/8"	5 ft.	Transmission
13017	3/8"	25 ft.	Transmission
15700	1/2"	10 ft.	Engine
15701	1/2"	5 ft.	Engine
15740	1/2"	8 ft.	Engine
15799	1/2"	25 ft.	Engine



Insta-Mount Kit

- Universal mounting kit for coolers & electric fans



Part #
13001

Rigid Mount Kit

- 6 7/8" universal bendable metal mounting brackets



Part #
13002

Hose Clamps

- Universal hose clamps
- Fit from 5/16-1/2" hose



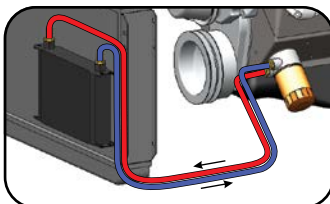
Part #
13008



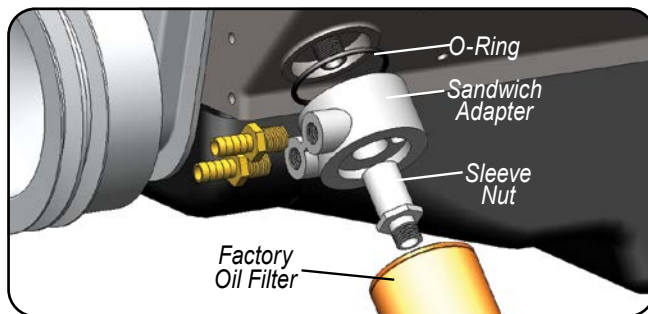
THE LEADER IN PERFORMANCE COOLING

Engine Sandwich Adapters

A sandwich adapter provides external oil lines to allow the addition of an engine oil cooler. It installs between the stock engine oil filter landing and the oil filter. This allows for engine oil cooling power without relocating stock engine oil filter.



- **Cast from high quality aluminum**
- **Four designs to fit most applications**
- **Maintains factory equivalent oil filter**



Thermostatic

This universal kit is manufactured of high-quality die-cast aluminum and includes an 180°F thermostatic sandwich adapter with 3/8" NPT ports and an o-ring diameter of 2 3/4". Kit includes sleeve nuts and hose barb fittings.



Thermostatic (GM Applications)

High quality die-cast aluminum thermostatic sandwich adapter with 1/2" NPT ports and an o-ring diameter of 3 1/2". It installs between the stock engine oil filter landing and the oil filter. Stock filter is retained. Kit includes sleeve nut and hose barb fittings.



Low-Profile

At only 1" thick, this high quality aluminum low profile sandwich adapter features 3/8" NPT ports and pressure relief valve and provides external oil lines to run an engine oil cooler while dropping the factory oil filter only 1" lower than stock.



Non-Thermostatic

This sandwich adapter was designed to one give a non-thermostatic option to consumers with high performance engines with 2-3/4" filter landings, and two to fit import vehicles with 2-1/2" diameter filter landings. Stock filter is retained. Kit includes sleeve nuts and hose barb fittings.



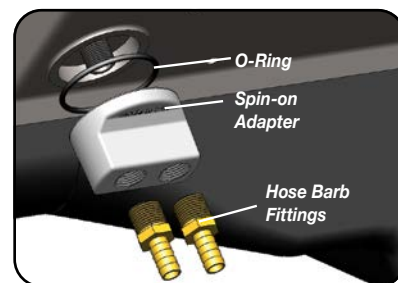
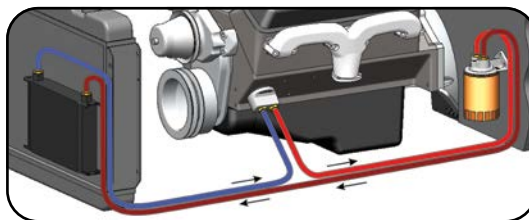
Complete Kit Part No.	Kit Part No.	Engine Thread Sizes	O-Ring Dia.	Thickness	Ports
THERMOSTATIC					
15702	25702	3/4"-16, 13/16"-16, 18x1.5mm, 20x1.5mm, 22x1.5mm	2 1/2" to 2 3/4"	1 3/4"	3/8" NPT
----	25782		2 3/4" to 3 1/2"	1 3/4" or 2 1/8"	3/8" NPT
----	25730	3/4"-16	2 1/2" to 2 3/4"	1 3/4"	3/8" NPT
----	25731	13/16"-16	2 3/4" to 3 1/2"	1 3/4" or 2 1/8"	3/8" NPT
----	25732	20 x 1.5mm	2 1/2" to 2 3/4"	1 3/4"	3/8" NPT
----	25733	18 x 1.5mm	2 1/2" to 2 3/4"	1 3/4"	3/8" NPT
----	25734	22 x 1.5mm	2 1/2" to 2 3/4"	1 3/4"	3/8" NPT
THERMOSTATIC (GM APPLICATIONS ONLY)					
15720	25720	13/16"-16	3 1/2"	2 1/4"	1/2" NPT
NON-THERMOSTATIC					
15735	----	3/4"-16, 13/16"-16, 18x1.5mm, 20x1.5mm, 22x1.5mm	2 3/4" to 3 1/2"	1 3/4"	1/2" NPT
LOW PROFILE WITH PRESSURE RELIEF					
----	25770	3/4"-16	2 1/2" to 2 3/4"	1"	3/8" NPT
----	25771	13/16"-16	2 1/2" to 2 3/4"	1"	3/8" NPT
----	25772	20 x 1.5mm	2 1/2" to 2 3/4"	1"	3/8" NPT
----	25773	18 x 1.5mm	2 1/2" to 2 3/4"	1"	3/8" NPT
----	25774	22 x 1.5mm	2 1/2" to 2 3/4"	1"	3/8" NPT
----	25783	3/4"-16, 13/16"-16, 18x1.5mm, 20x1.5mm, 22x1.5mm	2 1/2" to 2 3/4"	1"	3/8" NPT

Engine Spin-On Adapters



THE LEADER IN PERFORMANCE COOLING

Spin-on adapters provide external oil lines to allow the addition of an engine oil cooler and/or remote filter mount, installing at the stock engine oil filter location. With an attractive, billet style look and ultra-bright, polished appearance it adds style and function.



- **Quick and easy installation**
- **Relocate filter mounting for easier access**
- **Custom applications available**

Ports-up Standard Series

- **Ultra bright finish**
- **New Billet-style design**
- **Available in 6 numbers to fit all applications**
- **1/2" NPT ports**



Ports-up Premium Series

- **Black powder coated finish**
- **New Billet-style design**
- **Available in 6 numbers to fit all applications**
- **-10 AN / 7/8"-14 O-Ring ports**



Ports Left / Right Series

- **Ultra bright finish**
- **1/2" NPT ports**



Style	Std. Series Part No.	Ports	Premium Series Part No.	Ports	Engine Thread Sizes	O-Ring Dia.
Ports-up	15747	1/2" NPT	35747	-10 AN o-ring	3/4"-16, 13/16"-16, 18x1.5mm, 20x1.5mm, 22x1.5mm	2 1/2", 2 3/4", 3 1/2"
Ports-up	15703	1/2" NPT	----	-10 AN o-ring	3/4"-16	2 1/2", 2 3/4"
Ports-up	15705	1/2" NPT	----	-10 AN o-ring	13/16"-16	2 1/2", 2 3/4", 3 1/2"
Ports-up	15706	1/2" NPT	----	-10 AN o-ring	20 x 1.5mm	2 1/2", 2 3/4"
Ports-up	15724	1/2" NPT	----	-10 AN o-ring	22 x 1.5mm	2 1/2", 2 3/4"
Ports Left / Right	15746	1/2" NPT	----	----	3/4"-16	2 1/2", 2 3/4"



Part No.
35761

Mount Part No.	Inlet/Outlet Ports	Filter Landing
35761	13/16"-16	3 1/2"

Billet Aluminum GM V-8 Spin-On Oil Filter Adapter

- **Fits all 1956-1967 SB & BB V8's (except Chevy II) with canister style oil filter**
- **Converts factory canister style oil filter to a spin-on type oil filter**
- **Requires factory GM oil bypass**
- **6061 Aluminum / Black Anodized**
- **Uses Fram PH5, PH30 or equivalent oil filters**



Part No.
15760

Mount Part No.	Inlet/Outlet Ports
35760	1/2" NPT
35762	7/8"-14 ORB
98004	Replacement o-ring Set

Billet Aluminum GM V-8 Bolt-On Oil Filter Adapter

- **Fits all 1956-1991 SB & BB V8's**
- **Allows factory oil filter to be moved to a remote location**
- **Bolts directly to engine block replacing factory oil bypass**
- **Finned aluminum design with 1/2" NPT or 7/8-14 UNF ports**
- **6061 Aluminum / Black Anodized**



THE LEADER IN PERFORMANCE COOLING

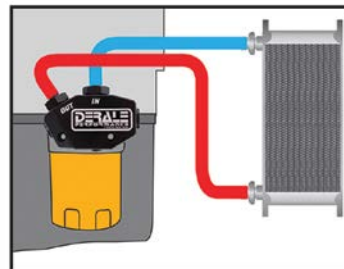
LS Engine Adapters

Part No.	35621
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LS THERMOSTATIC BYPASS ADAPTER

- Low profile designs maximizes header clearance
- Clears most long tube headers for LS swaps
- 6061 Billet Aluminum
- -10 AN ORB Ports for Maximum Flow
- Black anodized
- Flows up to 20 gallons per minute
- Rated at 200 psi
- Bolts and 1/8" NPT plugs included
- Viton O-Rings



Bypass engine oil cooler during engine warm up with built-in 180°F Thermostat

*NOTE: Fittings and temperature sensor not included.

LS ENGINE OIL COOLER ADAPTER



Part No.	35611
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ENGINE SIDE
BLOCK-OFF PORT



LS ENGINE BLOCK-OFF ADAPTER



Part No.	35601
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ENGINE SIDE
BLOCK-OFF PORT



BLOCK-OFF ADAPTER FEATURES
1/8" NPT ACCESSORY PORT

LS & LT BILLET OIL GALLEY PLUGS

Don't trust your ENGINE to a piece of plastic!

GM LS ENGINES

FITS LS OIL GALLEY PLUG FOR ALL GENERAL MOTORS GEN III, GEN IV LS SERIES ENGINES & ALL VORTEC TRUCK ENGINES.



TRIPLE O-RING DESIGN

6061-T6 ALUMINUM

BLACK ANODIZED

- Direct replacement for plastic OEM Barbell Plug
- Improves oil flow & pressure
- Design to reduce fluid restriction

GM LT ENGINES

FITS LT OIL GALLEY PLUG FOR ALL GENERAL MOTORS GEN V LT FAMILY ENGINES (LT1, LT2, LT4, LT5), GEN V 5.3L V8 TRUCK ENGINES (L83, L8B, L82, L84), GEN V 6.2L V8 TRUCK ENGINES (L86/L87), GEN V 6.6L V8 TRUCK ENGINES (L8T)



Part No.	Description
35603	GM LS Engines
35605	GM LT Engines



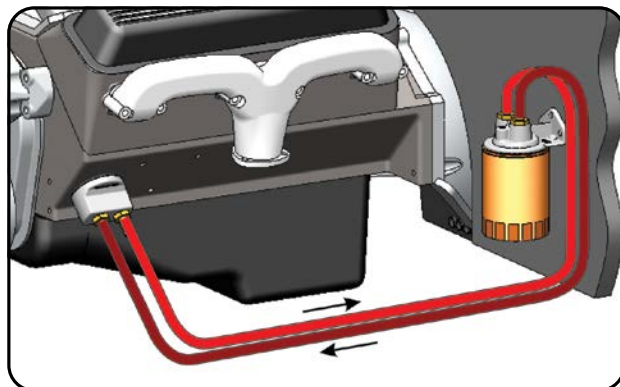
Engine Oil Filter Relocation Kits



Features and Benefits

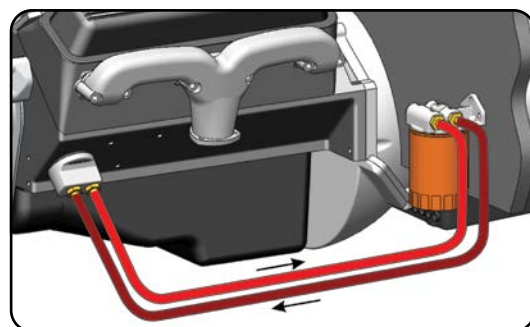
- Allows oil filter to be moved to a more convenient location
- Faster and easier filter changes
- Ideal for engine swaps
- Increases oil capacity
- Cast from high quality aluminum
- 10' length of 1/2" OEM-spec hose included
- Filter mount uses Fram PH8A or equivalent
- Complete hardware kit included

Spin-On Adapter - Ports Up (Universal) Filter Mount - Ports Up



Part No.	Engine Thread Size	Filter Thread Size	Filter Landing	Inlet/Outlet Ports
SINGLE MOUNT - PORTS UP				
15715	3/4"-16	3/4"-16	2 1/2", 2 3/4"	1/2" NPT
15716	13/16"-16	3/4"-16	2 1/2", 2 3/4"	1/2" NPT
15717	18 x 1.5mm	3/4"-16	2 1/2", 2 3/4"	1/2" NPT
15718	20 x 1.5mm	3/4"-16	2 1/2", 2 3/4"	1/2" NPT
15725	22 x 1.5mm	3/4"-16	2 1/2", 2 3/4"	1/2" NPT
15748	3/4"-16, 13/16"-16, 18 x 1.5mm, 20 x 1.5mm, 22 x 1.5mm	3/4"-16	2 1/2", 2 3/4"	1/2" NPT

Spin-On Adapter - Side Ports (Universal) Filter Mount - Side Ports



Part No.	Engine Thread Size	Filter Thread Size	Filter Landing	Inlet/Outlet Ports
15780	3/4"-16, 13/16"-16, 18 x 1.5mm, 20 x 1.5mm, 22 x 1.5mm	3/4"-16	2 1/2", 2 3/4"	1/2" NPT



THE LEADER IN PERFORMANCE COOLING

Remote Filter Mount Kits



Standard Series Filter Mounts

- **Cast aluminum**
- **3 Bolt heavy duty flange**
- **Designed to fit 2-1/2" to 2-3/4" oil filter**
- **Perfect for engine, transmission and fluid filtration**



Single - Side Ports

Kit Part No.	Mount Only Part No.	Filter Threads	Filter Landing	Inlet/Outlet Ports	Repl. Nipple
13049	25049	3/4"-16	2 1/2" to 2 3/4"	3/8" NPT	98020
15709	25709	3/4"-16	2 1/2" to 2 3/4"	1/2" NPT	98020



Single - Ports Up

Kit Part No.	Mount Only Part No.	Filter Threads	Filter Landing	Inlet/Outlet Ports	Repl. Nipple
-----	25044	3/4"-16	2 1/2" to 2 3/4"	1/4" NPT	98020
13005	25005	3/4"-16	2 1/2" to 2 3/4"	3/8" NPT	98020
15708	25708	3/4"-16	2 1/2" to 2 3/4"	1/2" NPT	98020
15728	25728	13/16"-16	2 1/2" to 2 3/4"	1/2" NPT	98021

Remote Filter Mount Kits

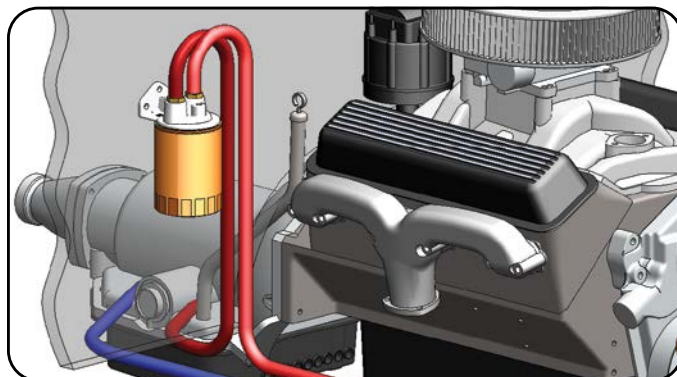


THE LEADER IN PERFORMANCE COOLING

Transmission Filter Kits

Our universal remote transmission filter kits enable quick and efficient filter changes and filter out contaminants that pass through OE-screen type filters. Another benefit is the increased fluid capacity which effectively cools fluid temperatures moderately and help extend the life of the transmission.

- **Extends transmission life**
- **Increase fluid capacity for added cooling**
- **Higher efficiency than screen type filters**
- **Universal - Fits all automatic transmissions**



FILTER SPECS:

- **Thread Size: 3/4"-16**
- **Filter Size: 3 1/2" OD x 3 1/8" Tall**
- **Burst pressure increases from 235 p.s.i. to 350 p.s.i.**



Premium kits include the Derale temperature gauge kit

Part No.	Description	Filter Thread Size	Filter Landing	Inlet/Outlet Ports	Filter Dimensions
13090	Standard Kit	3/4"-16	2 1/2" to 2 3/4"	3/8" NPT	3 1/2" O.D. x 3 1/8"
13092	Replacement Filter	3/4"-16	-----	-----	3 1/2" O.D. x 3 1/8"



THE LEADER IN PERFORMANCE COOLING

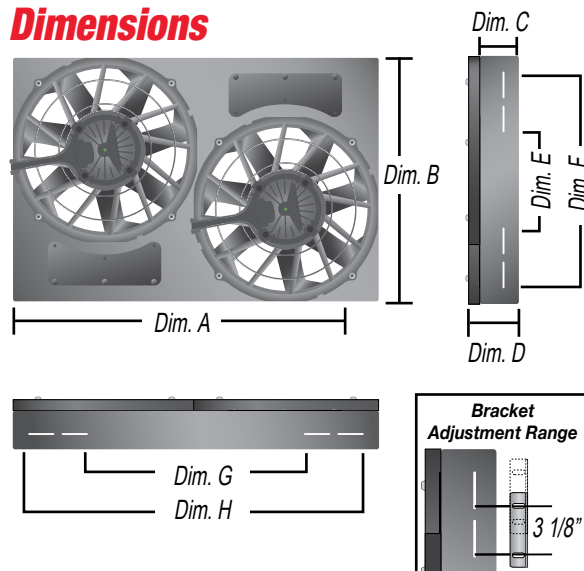
High Output Brushless Aluminum Powerpacks



Features and Benefits

- **Powerful primary cooling fans eliminate fuel and horsepower-robbing belt driven fans**
- **Aluminum finish can be polished, painted or anodized**
- **Longer life: Up to 40,000 hours**
- **Reduced fan Noise: Patented “Sine Wave Technology”**
- **Integrated PWM Control: Pulse Width Modulation controls fan speed from 0-100% to maintain Temps.**
- **Increases efficiency: Lower power consumption and reduced internal operating temperatures**
- **Multiple mounting options**
- **Includes illustrated instructions & mounting hardware**

Dimensions



• State of the art Brushless Technology



• Tig Welded aluminum shroud



• Plug-in wire harness





Part No.67922

- 185 PN: PWM Sensor maintains Temps at 185°F
- 195 PN: PWM Sensor maintains Temps at 195°F
- 215 PN: PWM Sensor maintains Temps at 215°F

PWM TEMP SENSOR AND HARNESS



HARDWARE KIT



185°F PWM Sensor	195°F PWM Sensor	215°F PWM Sensor	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
67922-185	67922-195	67922-215	2800	35	22 1/4"	17 5/8"	2 13/16"	3 1/2"	9 3/8"	15 1/4"	14"	20"
67923-185	67923-195	67923-215	2800	35	21"	17 1/8"	2 13/16"	3 1/2"	9 1/8"	14 5/8"	13"	18 1/2"



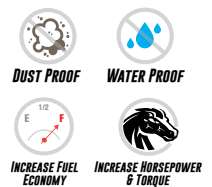
Part No.
67942

- 185 PN: PWM Sensor maintains Temps at 185°F
- 195 PN: PWM Sensor maintains Temps at 195°F
- 215 PN: PWM Sensor maintains Temps at 215°F

PWM TEMP SENSOR AND HARNESS



HARDWARE KIT



185°F PWM Sensor	195°F PWM Sensor	215°F PWM Sensor	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
67926-185	67926-195	67926-215	4400	56	26"	17 1/8"	2 13/16"	3 1/2"	9"	14 3/4"	17 3/4"	23 3/4"
67938-185	67938-195	67938-215	4400	56	28 1/8"	17"	2 13/16"	3 1/2"	8 3/4"	14 3/4"	20"	25 7/8"
67942-185	67942-195	67942-215	4400	56	26"	18"	2 13/16"	3 1/2"	9 3/4"	15 3/4"	17 3/4"	23 3/4"

B17 Single Powerpack

- Features a 17" Fan with a High output motor
- Increased CFM over brushed DC Fans (2800 CFM)
- PWM Sensor to maintain temperatures at 185°F, 195°F or 215°F
- Lower power consumption and reduced internal operating temperatures
- Puller (engine side) applications only
- Sealed waterproof and dustproof, IP6K9K Certified
- Complete Installation kit

B12 Dual Powerpack

- Features two 12" Fans with High output motors
- Increased CFM over brushed DC Fans (4400 CFM)
- PWM Sensor to maintain temperatures at 185°F, 195°F or 215°F
- Lower power consumption and reduced internal operating temperatures
- Puller (engine side) applications only
- Sealed waterproof and dustproof, IP6K9K Certified
- Air pressure relief vents



THE LEADER IN PERFORMANCE COOLING

High Output Single Rad Fan Aluminum Powerpacks

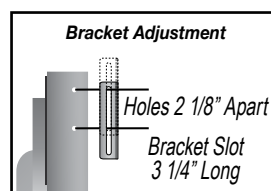
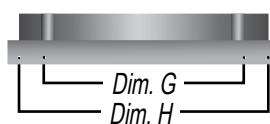
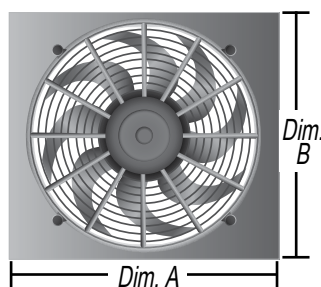


Features and Benefits

- **Powerful, primary cooling fans eliminate fuel & horsepower-robbing belt driven fan**
- **Aircraft-quality natural satin aluminum finish can be polished, painted or anodized**
- **Increases fuel economy**
- **Multiple mounting options**
- **Includes illustrated instructions and mounting hardware**

Fan Controllers sold separately, see page 74-76.

Dimensions





Part No. 16819

HARDWARE KIT



A17 Single Powerpack

- High output 265-watt two speed motor
- Puller (engine side) applications only

- Optional PWM - Includes a full PWM Controller, installation hardware and instructions. See page 66 for details on how it works.



Part No.	With PWM Controller*	Repl. Fan	CFM* High/Low	Amp Draw High/Low	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
16816	66816	16917	2400 / 1800	23.5 / 17.4	16 3/4"	17 5/8"	1 1/8"	3"	8 7/8"	13 1/8"	11"	15"
16818	66818	16917	2400 / 1800	23.5 / 17.4	18"	18"	1 1/8"	3"	10 1/8"	14 1/2"	11 1/8"	15 1/2"
16819	66819	16917	2400 / 1800	23.5 / 17.4	18 3/4"	17 5/8"	1 1/8"	3"	10 3/4"	15"	11"	15 1/4"
16821	66821	16917	2400 / 1800	23.5 / 17.4	20 3/4"	17 5/8"	1 1/8"	3"	10 7/8"	15 1/8"	13"	17 1/4"
16822	66822	16917	2400 / 1800	23.5 / 17.4	22 1/4"	17 5/8"	1 1/8"	3"	10 3/4"	15"	14 3/8"	18 5/8"
16823	66823	16917	2400 / 1800	23.5 / 17.4	21"	16 3/4"	1 1/8"	3"	9 7/8"	14 1/8"	13 1/8"	17 3/8"
16828	66828	16917	2400 / 1800	23.5 / 17.4	24"	17"	1 1/8"	3"	10 1/4"	14 3/8"	16 1/8"	20 3/8"
POWDER COATED STEEL SHROUD												
16919	-----	16917	2400 / 1800	23.5 / 17.4	19 1/2"	18"	1 1/8"	3"	9"	11"	---	---



Part No. 16820

HARDWARE KIT



A14 Single Powerpack

- High output 265-watt two speed motor
- Puller (engine side) applications only
- Air pressure relief vents (Excludes 16817)

- Optional PWM - Includes a full PWM Controller, installation hardware and instructions. See page 66 for details on how it works.



Part No.	With PWM Controller+	Repl. Fan	CFM* High/Low	Amp Draw High/Low	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
16817	66817	16913	2100 / 1500	22 / 16.2	17"	16 3/8"	1 1/8"	2 3/4"	4 1/4"	13 1/2"	9 1/2"	14"
16820	66820	16913	2100 / 1500	22 / 16.2	20"	16 3/8"	1 1/8"	2 3/4"	12 1/4"	16 1/2"	9 5/8"	13 7/8"
16827	66827	16913	2100 / 1500	22 / 16.2	23 7/16"	15 7/16"	1 1/8"	2 3/4"	8 5/8"	12 7/8"	15 5/8"	19 7/8"



Part No. 16814

HARDWARE KIT



See page 62 for hole dimension legend.

* CFM tested at zero static pressure.

A12 Single Powerpack

- High output 300-watt motor
- Puller (engine side) applications only
- Air pressure relief vents (Excludes 16815)



Part No.	Repl. Fan	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
16814	16924	2000	24.8	18"	12 7/8"	2 3/4"	4"	5 1/8"	11 3/4"	9 3/8"	16"
16815	16924	2000	24.8	13"	13"	2 3/4"	4"	5 1/8"	11 3/4"	4 5/8"	11"



THE LEADER IN PERFORMANCE COOLING

High Output Dual Rad Fan Aluminum Powerpacks

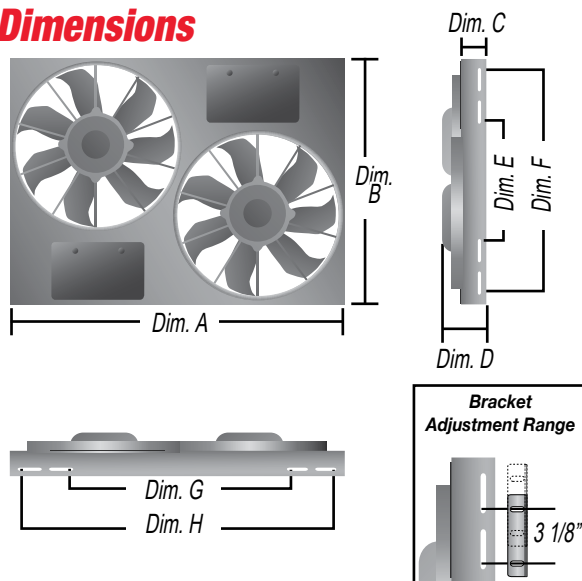


Features and Benefits

- **Powerful, primary cooling fans eliminate fuel & horsepower-robbing belt driven fans**
- **Aircraft-quality natural satin aluminum finish can be polished, painted or anodized**
- **Increases fuel economy**
- **Multiple mounting options**
- **Includes illustrated instructions and mounting hardware**

Fan Controllers sold separately, see page 74-76.

Dimensions





Optional PWM Controller

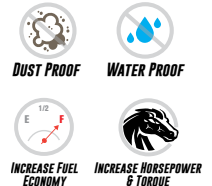
Part No.
16836

A12 Dual Powerpack

- High output 300-watt motors
- Puller (engine side) applications only
- Sealed waterproof and dustproof, IP68 Certified
- Air pressure relief vents (Excludes 16825 & 66825)
- OPTIONAL PWM - INCLUDES A FULL PWM CONTROLLER, INSTALLATION HARDWARE AND INSTRUCTIONS.

SEE PAGE 66 FOR DETAILS ON HOW IT WORKS.

HARDWARE KIT



Part No.	With PWM Controller*	Repl. Fan	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
16825	66825	16924	4000	49.6	25 5/8"	15 1/8"	2 3/4"	4"	7 5/8"	13 5/8"	17 3/8"	23 3/8"
16826	66826	16924	4000	49.6	25 5/8"	17 1/8"	2 3/4"	4"	9 5/8"	15 5/8"	17 3/8"	23 3/8"
16836	66836	16924	4000	49.6	26 3/8"	16"	2 3/4"	4"	8 1/2"	14 1/2"	18 1/8"	24 1/8"
16837	66837	16924	4000	49.6	27"	18"	2 3/4"	4"	10 1/2"	16 1/2"	18 3/4"	24 3/4"
16838	66838	16924	4000	49.6	28 1/4"	17"	2 3/4"	4"	9 1/2"	15 1/2"	20"	25 7/8"
16842	66842	16924	4000	49.6	26"	18"	2 3/4"	4"	10 1/2"	16 1/2"	17 3/4"	23 3/4"
STEEL SHROUD (POWDER COATED SILVER)												
16927	66927	16924	4000	49.6	26"	18"	2 3/4"	4"	10 1/2"	16 1/2"	17 3/4"	23 3/4"



Optional PWM Controller

Part No.
16833

A11 Dual Powerpack

- High output 225-watt motors
- Puller (engine side) applications only
- Air pressure relief vents
- OPTIONAL PWM - INCLUDES A FULL PWM CONTROLLER, INSTALLATION HARDWARE AND INSTRUCTIONS.

SEE PAGE 66 FOR DETAILS ON HOW IT WORKS.

HARDWARE KIT



* CFM tested at zero static pressure.

Part No.	With PWM Controller*	Repl. Fan	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
16830	66830	16920	3750	37.4	22 1/2"	19"	2 3/4"	4"	11 1/2"	17 1/2"	14 1/4"	20 1/4"
16831	66831	16920	3750	37.4	24"	15 1/2"	2 3/4"	4"	7 15/16"	13 15/16"	15 3/4"	21 3/4"
16833	66833	16920	3750	37.4	24"	17"	2 3/4"	4"	9 1/2"	15 1/2"	15 3/4"	21 3/4"
16835	66835	16920	3750	37.4	23 3/4"	19 3/4"	2 3/4"	4"	12 1/4"	18 1/4"	15 1/2"	21 1/2"



THE LEADER IN PERFORMANCE COOLING

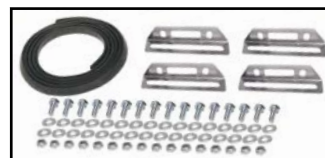
High Output Dual Rad Fan Aluminum Powerpacks



A10S Dual Powerpack

- 2 High output motors
- Puller (engine side) applications only
- Ultra-quiet skewed blade design

HARDWARE KIT



See page 54
for mounting dimensions legend.

- OPTIONAL PWM - INCLUDES A FULL PWM CONTROLLER, INSTALLATION HARDWARE AND INSTRUCTIONS.

SEE PAGE 66 FOR DETAILS ON HOW IT WORKS.

Part No.	With PWM Controller+	Repl. Fan	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
16812	66812	16110	1650	18.4	24 3/4"	11 1/2"	1 1/8"	3 1/4"	17"	21 1/4"	4 5/8"	9 1/4"



A12S Dual Powerpack

- 2 High output motors
- Puller (engine side) applications only
- Ultra-quiet skewed blade design
- Designed for maximum performance at high-static pressure loads

HARDWARE KIT



See page 54
for mounting dimensions legend.

- OPTIONAL PWM - INCLUDES A FULL PWM CONTROLLER, INSTALLATION HARDWARE AND INSTRUCTIONS.

SEE PAGE 66 FOR DETAILS ON HOW IT WORKS.

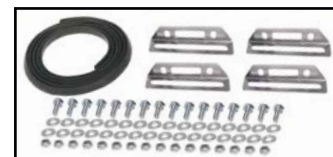
Part No.	With PWM Controller+	Repl. Fan	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
16850	66850	16112	2675	28.4	26"	14"	1-1/8"	3-3/4"	18"	22-1/2"	11"	12-1/2"



A17 Dual Powerpack

- 2 High output 265-watt two speed motors
- Puller (engine side) applications only
- Ultra-quiet skewed blade design
- Designed for maximum performance at high-static pressure loads

HARDWARE KIT



See page 54
for mounting dimensions legend.

- OPTIONAL PWM - INCLUDES A FULL PWM CONTROLLER, INSTALLATION HARDWARE AND INSTRUCTIONS.

SEE PAGE 66 FOR DETAILS ON HOW IT WORKS.

Part No.	With PWM Controller+	Repl. Fan	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)	Dim G. (Mounting)	Dim H. (Mounting)
16843	66843	18217	4800/3600	47 / 34.8	34"	17-1/4"	1 1/8"	3 3/4"	26-1/4"	30-1/2"	14-3/4"	16 1/2"

High Output Rad Fan Molded Powerpacks



THE LEADER IN PERFORMANCE COOLING

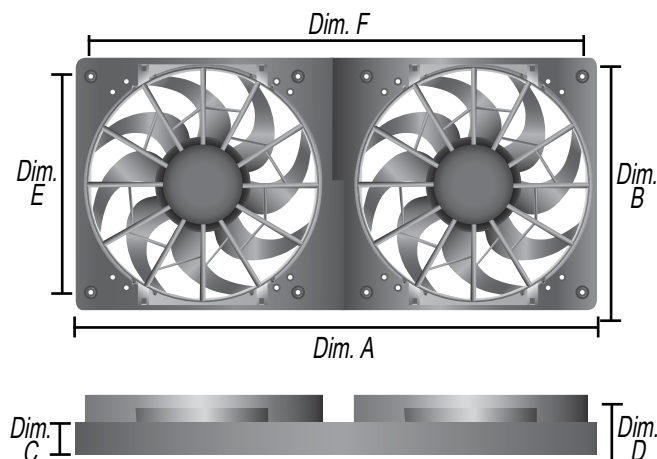
Features and Benefits

- **Powerful, primary cooling fans eliminate fuel & horsepower-robbing belt driven fans**
- **Increases fuel economy**
- **Fan housing includes stator-flow directors**
- **Ultra-quiet patented skewed-blade design**
- **Includes illustrated instructions and mounting hardware**

Fan Controllers sold separately, see page 66-68.



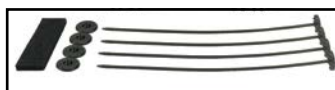
Dimensions



M12 Single Vented Powerpack

- **High output 265-watt motor**
- **Puller (engine side) applications only**
- **Air pressure relief vents**

HARDWARE KIT



Hardware Kit Only Part # 13001



Part No.	Repl. Fan	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)
16926	16925	2000	23.4	15 3/4"	15 3/4"	1 7/8"	3 1/4"	12 7/8"	12 7/8"



Part No. 16928

M12 Dual Vented Powerpack

- **High output 265-watt motor(s)**
- **Puller (engine side) applications only**
- **Air pressure relief vents (Excludes 16928)**



HARDWARE KIT



Hardware Kit Only Part # 13001 (2 Required)

* CFM tested at zero static pressure.

Part No.	Repl. Fan	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)
16928	16925	4000	46.8	28 5/8"	13 7/8"	1 1/2"	3 1/4"	11 3/8"	25 5/8"
16934	16925	4000	46.8	31 3/8"	15 3/4"	1 3/8"	3 1/4"	12 7/8"	28 7/8"



THE LEADER IN PERFORMANCE COOLING

High Output Electric Fans

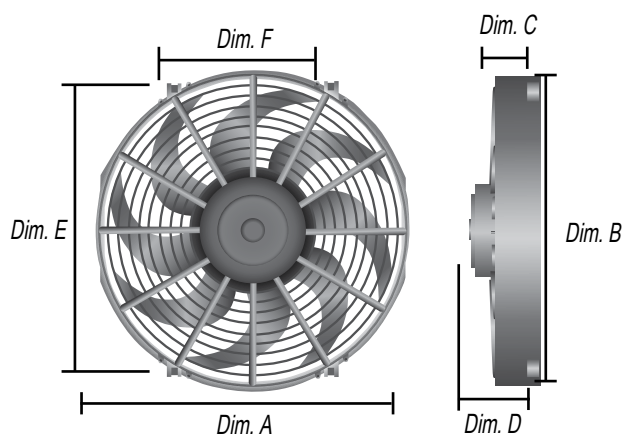


Features and Benefits

- Designed for maximum performance at high static-pressure loads for more effective cooling
- Powerful, reliable motors provide years of trouble-free service
- Increases engine horsepower and torque
- Mounting hardware included

Fan Controllers sold separately, see page 66-68.

Dimensions



High Output Single Rad Fans

- High output 265-watt 2 speed motors
- State of the art symmetrical design can be used as a pusher or a puller without flipping blade or reversing polarity
- Ultra quiet patented blades
- Premium - patented ratchet mounting system
- Standard - push-through plastic rod mount system

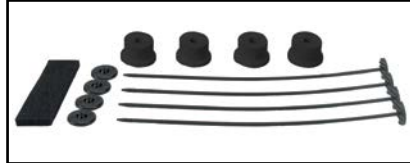
Part No.
16217/
18217



PREMIUM KIT



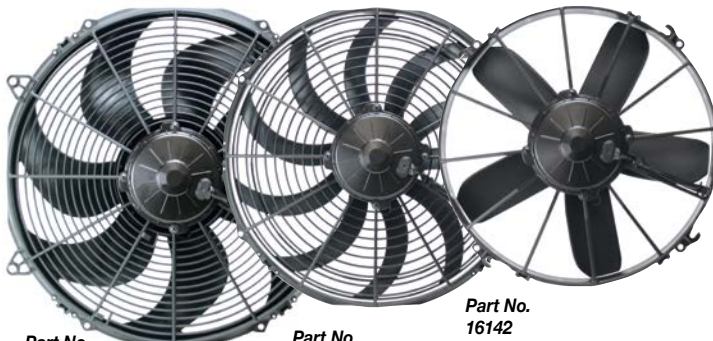
STANDARD KIT



Premium Part No.	Standard Part No.	Fan Size	Airflow	CFM* High / Low	Amp Draw High / Low	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)
16212	18212	12"	Reversible	1450 / 1000	21 / 15	12 3/4"	12 3/4"	N/A	2 5/8"	8 1/4"	11 5/8"
16214	18214	14"	Reversible	2100 / 1500	22 / 16.2	14 1/2"	14 1/2"	N/A	2 5/8"	8 7/8"	12 3/4"
16217	18217	17"	Reversible	2400 / 1800	23.5 / 17.4	16 7/8"	16 7/8"	N/A	2 5/8"	8 7/8"	15 5/8"

High Output Extreme Single Fans

- Sealed waterproof/dustproof designs (IP68 Certified) are perfect for off-road and all season environments
- Ultra-low profile designs (Part no.'s 16110 & 16112)
- Paddle blades pull large volumes of air for maximum heat-extraction capabilities in more compact package
- Puller (engine side) applications only



Part No.
16136

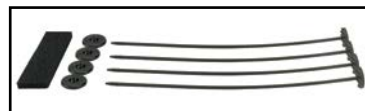
Part No.
16114

Part No.
16142



Part No.
16105

HARDWARE KIT



Hardware Kit Only Part # 16744



* CFM tested at zero static pressure.

Part No.	Fan Size	Airflow	Blade Style	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)
16105	5"	Puller	Paddle	315	3.6	5 5/8"	6 1/4"	1 1/4"	2 1/4"	4 1/4" - 3 hole mount	
16108	8"	Puller	Straight	366	5.5	8"	8 1/4"	1 1/4"	2"	5 15/16"	5 15/16"
16109	9"	Puller	Curved	625	7.2	9 11/16"	9 11/16"	1 1/8"	2"	5 1/2"	8 1/8"
16110	10"	Puller	Curved	802	9.2	10 9/16"	11 1/8"	1 1/8"	2 1/16"	9 11/16"	5 13/16"
16920	11"	Puller	Paddle	1875	16	12"	12 5/16"	2 1/4"	3 5/16"	6 3/4"	11 3/4"
16112	12"	Puller	Curved	1328	14.2	12 9/16"	13 3/16"	1 1/8"	2 7/16"	11 7/16"	6 5/8"
16918	12"	Puller	Paddle	1350	16.0	12"	12"	1 5/8"	3 1/2"	10 5/8"	7 7/8"
16142	13"	Puller	Paddle	1900	21.8	13 1/16"	13 1/16"	2 1/4"	3 3/4"	9 5/16"	9 5/16"
16114	14"	Puller	Curved	1864	21.5	14 7/16"	15 1/16"	1 1/8"	3 7/16"	13 1/16"	7 9/16"
16116	16"	Puller	Curved	2024	21.0	15 11/16"	16 1/4"	1 1/8"	3 7/16"	14 1/16"	8 1/8"
16136	16"	Puller	Curved	1918	25.4	15 11/16"	15 11/16"	2 1/16"	3 3/4"	14 1/16"	8 1/8"



Part No.
16516/
16626/
16016



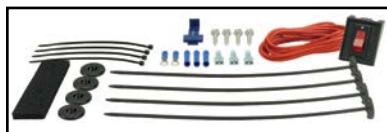
Part No.
16507/
16617



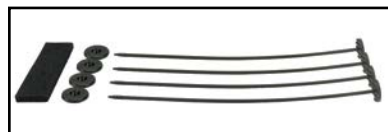
Tornado Single Fans

- 16" and 14" sizes designed as primary cooling fans eliminate fuel & horsepower-robbing belt driven fans
- Ultra-quiet patented skewed blade design
- Premium - Includes mounting kit, lighted toggle switch and wiring
- Standard - Includes mounting kit
- Fan and thermostat part no. includes mounting kit, 180°F thermostat, probes and relay harness

PREMIUM KIT



STANDARD KIT



FAN W/ THERMOSTAT KIT



Premium Part No.	Standard Part No.	Fan w/Thermostat Part No.	Fan Size	Airflow	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)
16507	16617	-----	7"	Reversible	400	4.8	7 1/4"	7 1/8"	1 3/8"	2 3/8"	5 3/8"	5 3/8"
16508	16618	-----	8"	Reversible	500	4.8	8 1/4"	8"	1 3/8"	2 3/8"	6"	6"
16509	16619	-----	9"	Reversible	570	5.4	9 5/8"	9 1/2"	1 1/4"	2 1/2"	8 7/8"	5"
16510	16620	-----	10"	Reversible	650	5.3	11 1/4"	10 5/8"	1 1/2"	2 1/2"	9 5/8"	6 7/8"
16512	16622	-----	12"	Reversible	880	8.8	12 1/2"	11 1/2"	1 1/2"	2 1/2"	11 1/8"	5 7/8"
16514	16624	16014	14"	Reversible	1350	10.5	14 1/2"	14"	1 3/4"	3 1/4"	12 1/4"	9"
16516	16626	16016	16"	Reversible	2175	18.4	16 3/4"	15 3/4"	1 3/4"	4 1/8"	13 3/4"	9 3/4"



Part No.
16834

Tornado Dual Fans w/ Brackets

- Available with dual 12" or 14" Tornado fans
- Sturdy metal bracket system
- Black powder coated finish
- Can be used for pusher or puller applications



Part No.	Fan Size	Airflow	CFM*	Amp Draw (Fan 1 / 2)	Dim A. (Width)	Dim B. (Height)	Dim C. (Overall Depth)	Dim D. (Mounting)	Dim E. (Mounting)	Dim F. (Mounting)
16824	Dual 12"	Reversible	1760	8.8 / 8.8	27 3/4"	14"	2 1/2"	10 1/8"	13 5/8"	23 1/2"
16834	Dual 14"	Reversible	2700	10.5 / 10.5	31 3/4"	15 5/8"	3 1/4"	12 1/8"	14 5/8"	27 1/2"

* CFM tested at zero static pressure.

High Output Electric Fans



THE LEADER IN PERFORMANCE COOLING



Part No.
16913



Part No.
16925



Part No.
16924

Part No.	Fan Size	CFM* High / Low	Amp Draw High / Low	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim C. (Overall Depth)	Dim E. (Mounting)	Dim F. (Mounting)
16913	14"	2100 / 1500	22 / 16.2	14 1/2"	14 1/2"	1 5/8"	2 5/8"	13 1/4"	8 3/4"
16917	17"	2400 / 1800	23.5 / 17.4	16 7/8"	16 7/8"	1 5/8"	2 5/8"	15 5/8"	8 7/8"
16924	12"	2000	24.8	13 1/8"	13 1/8"	2 3/8"	3 1/2"	9 3/8"	9 3/8"
16925	12"	2000	23.4	12 5/8"	12 5/8"	1 1/2"	3 1/8"	10 5/8"	7 7/8"

* CFM tested at zero static pressure.

Do It Yourself - Drop-in Single RAD Fans For The D.I.Y. Pros at Home!

Installing as a Pusher

Mounting kit included for Pusher installation.
No shroud necessary.

Installing as a Puller

Choose from 1 of 4 pusher style fans that can be pullers by
using your custom built shroud.**



**Custom built shroud not included.



Part No.
18916



Part No.
18910

Dyno-Cool - Curved Blade Fans

- **Powerful high-watt motors**
- **Low profile designs**
- **Quiet and efficient balanced curved blades**
- **Fully reversible for pusher or puller applications**



REVERSIBLE

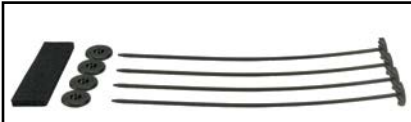


INCREASE FUEL
ECONOMY



INCREASE HORSEPOWER
& TORQUE

HARDWARE KIT



Hardware Kit Only Part # 16744

Part No.	Fan Size	Airflow	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)
18910	10"	Reversible	590	5.3	11 1/2"	10 3/4"	1 1/4"	2 3/8"	8 7/8"
18912	12"	Reversible	810	8.3	12 1/4"	12 1/4"	1 1/4"	2 3/8"	4 1/4"
18914	14"	Reversible	1230	9.7	14 7/8"	14 1/8"	1 1/4"	3 1/8"	6 3/4"
18916	16"	Reversible	1980	17.3	16 1/2"	15 3/4"	1 3/4"	3 7/8"	14 1/4"



Part No.
16914



Part No.
16909

Dyno-Cool - Straight Blade Fans

- **Powerful high-watt motors**
- **Low profile designs**
- **Fully reversible for pusher or puller applications**
- **Premium kit includes adjustable thermostat**



REVERSIBLE

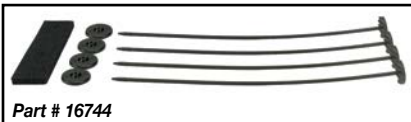


INCREASE FUEL
ECONOMY



INCREASE HORSEPOWER
& TORQUE

HARDWARE KIT



Part # 16744

Standard Part No.	Fan Size	Airflow	CFM*	Amp Draw	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Overall Depth)	Dim E. (Mounting)
16908	8"	Reversible	350	5.3	8 1/8"	8"	1 1/4"	2 1/4"	4 3/8"
16909	9"	Reversible	475	5.5	9 9/16"	10 7/16"	1 1/4"	2 1/4"	8 7/16"
16910	10"	Reversible	625	6.4	11"	11 1/4"	1 1/8"	2 3/8"	5 3/4"
16912	12"	Reversible	725	9.0	11 3/8"	12 3/8"	1 1/8"	2 3/8"	4 3/4"
16914	14"	Reversible	1225	12.4	14 1/8"	14 3/4"	1 1/4"	3 1/4"	7 1/8"
16916	16"	Reversible	1680	15.5	16"	16 7/8"	1 1/4"	3 7/8"	8 1/8"

* CFM tested at zero static pressure.

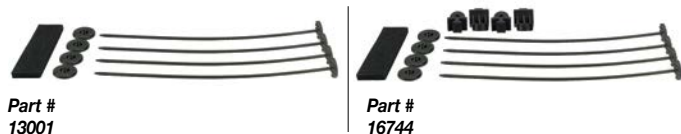
Electric Fan Accessories



THE LEADER IN PERFORMANCE COOLING

Plastic Rod Mounting Kits

- Complete electric fan mounting kit



Part #
13001

Part #
16744

Part No.	Description
13001	Plastic rod mounting kit
16744	Plastic rod kit with mounting feet

Circuit Breakers

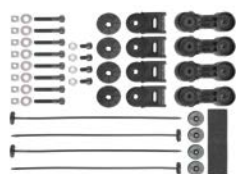
- Auto resetting design



Part #
16751

Part No.	Description
16751	25 Amp circuit breaker
16754	50 Amp circuit breaker

H.O. RAD Fan Premium Mounting Kit



- Patented adjustable mounting system for Derale part numbers 16212, 16214, 16217, 18212, 18214 & 18217



Part #
16746

Lighted Toggle Switch

- 3 pole, 12 volt switch
- Rocker type switch



Reverse View

Part No.
16740

Relay Wire Harness Kits



Part #
16763

Part #
16765

Part #
16764

Part No.	Description
16763	40/60 Amp Single Relay Wire Harness
16765	40/60 Amp Dual Relay Wire Harness
16764	40/60 Amp Relay



Shrouded Electric Fans - Quick Guide



Part #
16830



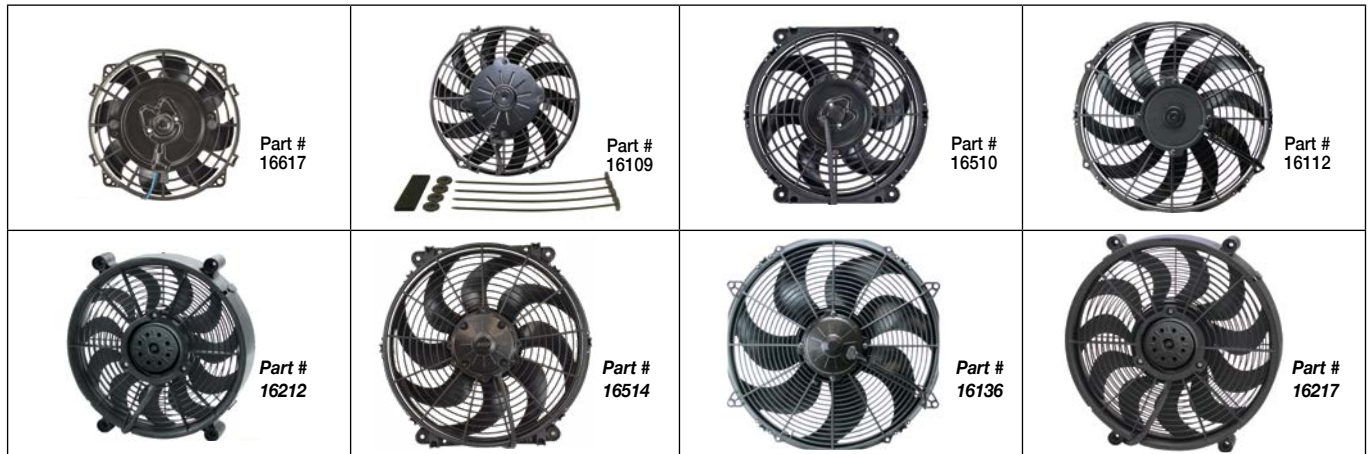
Part #
16826



Part #
67942

Shroud Size (Width)	Width	Height	Overall Depth	Part No.	Part No. w/ PWM Controller	Description	CFM*	Amp Draw	Page
13" - 19"	13"	13"	4"	16815	---	A12 Powerpack, Single Fan	2000	24.8	53
	15 3/4"	15 3/4"	3 1/4"	16926	---	M12 Powerpack, Single Fan	2000	23.4	57
	16 3/4"	17 5/8"	3"	16816	66816	A17 Powerpack, Single Fan	2400 / 1800	23.5 / 17.4	53
	17"	16 3/8"	2 3/4"	16817	66817	A14 Powerpack, Single Fan	2100 / 1500	22 / 16.2	53
	18"	13"	4"	16814	---	A12 Powerpack, Single Fan	2000	24.8	53
	18"	18"	3"	16818	66818	A17 Powerpack, Single Fan	2400 / 1800	23.5 / 17.4	53
	18 3/4"	17 5/8"	3"	16819	66819	A17 Powerpack, Single Fan	2400 / 1800	23.5 / 17.4	53
19" - 24"	19 1/2"	18"	3 5/8"	16919	---	S17 Powerpack, Single Fan	2400 / 1800	23.5 / 17.4	53
	20"	16 3/8"	2 3/4"	16820	66820	A14 Powerpack, Single Fan	2100 / 1500	22 / 16.2	53
	20 3/4"	17 5/8"	3"	16821	66821	A17 Powerpack, Single Fan	2400 / 1800	23.5 / 17.4	53
	21"	17 1/8"	3 1/2"		67923-185 (185°F)	B17 Brushless Powerpack, Single Fan	2800	35	51
					67923-195 (195°F)				
					67923-215 (215°F)				
	21"	16 3/4"	3"	16823	66823	A17 Powerpack, Single Fan	2400 / 1800	23.5 / 17.4	53
	22 1/4"	17 5/8"	3"	16822	66822	A17 Powerpack, Single Fan	2400 / 1800	23.5 / 17.4	53
	22 1/4"	17 5/8"	3 1/2"		67922-185 (185°F)	B17 Brushless Powerpack, Single Fan	2800	35	51
					67922-195 (195°F)				
					67922-215 (215°F)				
	22 1/2"	19"	4"	16830	66830	A11 Powerpack, Dual Fan	3750	18.7 Per Fan	55
	23 7/16"	15 7/16"	2 3/4"	16827	66827	A14 Powerpack, Single Fan	2100 / 1500	22 / 16.2	53
	23 3/4"	19 3/4"	4"	16835	66835	A11 Powerpack, Dual Fan	3750	18.7 Per Fan	55
24" - 34"	24"	15 1/2"	4"	16831	66831	A11 Powerpack, Dual Fan	3750	18.7 Per Fan	55
	24"	17"	3"	16828	66828	A17 Powerpack, Single Fan	2400 / 1800	23.5 / 17.4	53
	24"	17"	4"	16833	66833	A11 Powerpack, Dual Fan	3750	18.7 Per Fan	55
	24 3/4"	11 1/2"	3 1/4"	16812	66812	A10 Powerpack, Dual Fans	1650	9.2 Per Fan	56
	25 5/8"	15 1/8"	4"	16825	66825	A12 Powerpack, Dual Fans	4000	24.8 Per	55
	25 5/8"	17 1/8"	4"	16826	66826	A12 Powerpack, Dual Fans	4000	24.8 Per Fan	55
	26"	17 1/8"	3 1/2"		67926-185 (185°F)	B12 Brushless Powerpack, Dual Fan	4400	28.5 Per Fan	51
					67926-195 (195°F)				
					67926-215 (215°F)				
	26"	14"	3 3/4"	16850	66850	A12S Powerpack, Dual Fans	2675	14.2 Per Fan	56
	26"	18"	3 1/2"		67942-185 (185°F)	B12 Brushless Powerpack, Dual Fan	4400	28.5 Per Fan	51
					67942-195 (195°F)				
					67942-215 (215°F)				
	26"	18"	4"	16842	66842	A12 Powerpack, Dual Fans	4000	24.8 Per Fan	55
	26"	18"	4"	16927	66927	S12 Powerpack, Dual Fans	4000	24.8 Per Fan	55
	26 3/8"	16"	4"	16836	66836	A12 Powerpack, Dual Fans	4000	24.8 Per Fan	55
	27"	18"	4"	16837	66837	A12 Powerpack, Dual Fans	4000	24.8 Per Fan	55
	28 1/8"	17"	3 1/2"		67938-185 (185°F)	B12 Brushless Powerpack, Dual Fan	4400	28.5 Per Fan	51
					67938-195 (195°F)				
					67938-215 (215°F)				
	28 1/4"	17"	4"	16838	66838	A12 Powerpack, Dual Fans	4000	24.8 Per Fan	55
	28 5/8"	13 7/8"	3 1/4"	16928	---	M12 Powerpack, Dual Fans	4000	23.4 Per Fan	57
	31 3/8"	15 3/4"	3 1/4"	16934	---	M12 Powerpack, Dual Fans	4000	23.4 Per Fan	57
	31 1/2"	10 1/4"	3 1/4"	16839	---	A9S Powerpack, Triple Fans	2400	7.2 Per Fan	3
	34"	17 1/4"	3 3/4"	16843	66843	A17 Powerpack, Dual Fans	4800 / 3600	23.5 / 17.4	56

Single Electric Fans - Quick Guide



Fan Size	Overall Depth	Part No.	Airflow	CFM*	Amp Draw	Page
5"	2 1/4"	16105	Puller	315	3.6	59
7"	2 3/8"	16507	Reversible	400	4.8	60
7"	2 3/8"	16617	Reversible	400	4.8	60
8"	2"	16108	Puller	366	5.5	59
8"	2 1/4"	16908	Puller	350	5.3	62
8"	2 3/8"	16508	Reversible	500	4.8	60
8"	2 3/8"	16618	Reversible	500	4.8	60
9"	2"	16109	Puller	625	7.2	59
9"	2 1/4"	16909	Reversible	475	5.5	62
9"	2 1/2"	16509	Reversible	570	5.4	60
9"	2 1/2"	16619	Reversible	570	5.4	60
10"	2 1/16"	16110	Puller	802	9.2	59
10"	2 3/8"	16910	Reversible	625	6.4	62
10"	2 3/8"	18910	Reversible	590	5.3	62
10"	2 1/2"	16510	Reversible	650	5.3	60
10"	2 1/2"	16620	Reversible	650	5.3	60
11"	3 5/16"	16920	Puller	1380	11	59
12"	2 3/8"	16912	Reversible	725	9	62
12"	2 3/8"	18912	Reversible	810	8.3	62
12"	2 1/2"	16622	Reversible	880	8.8	60
12"	2 1/2"	16512	Reversible	880	8.8	60
12"	2 5/8"	16212	Reversible	1450 / 1000	21 / 15	59
12"	2 5/8"	18212	Reversible	1450 / 1000	21 / 15	59

Fan Size	Overall Depth	Part No.	Airflow	CFM*	Amp Draw	Page
12"	2 7/16"	16112	Puller	1328	14.2	59
12"	3"	16925**	Reversible	2000	23.4	61
12"	3 1/2"	16918	Puller	1350	16	59
12"	3 1/2"	16924**	Reversible	2000	24.8	61
13"	3 3/4"	16142	Puller	1640	21.8	59
14"	2 5/8"	16214	Reversible	2100 / 1500	22 / 16.2	59
14"	2 5/8"	16913**	Reversible	2100 / 1500	22 / 16.2	61
14"	2 5/8"	18214	Reversible	2100 / 1500	22 / 16.2	59
14"	3 1/8"	18914	Reversible	1230	9.7	62
14"	3 1/4"	16014	Reversible	1350	10.5	60
14"	3 1/4"	16514	Reversible	1350	10.5	60
14"	3 1/4"	16624	Reversible	1350	10.5	60
14"	3 1/4"	16914	Reversible	1225	12.4	62
14"	3 7/16"	16114	Puller	1864	21.5	59
16"	3 7/16"	16116	Puller	2024	21	59
16"	3 5/8"	18916	Reversible	1980	17.3	62
16"	3 3/4"	16136	Puller	1918	25.4	59
16"	3 7/8"	16916	Reversible	1680	15.5	62
16"	4 1/8"	16016	Reversible	2175	18.4	60
16"	4 1/8"	16516	Reversible	2175	18.4	60
16"	4 1/8"	16626	Reversible	2175	18.4	60
17"	2 5/8"	16217	Reversible	2400 / 1800	23.5 / 17.4	59
17"	2 5/8"	16917**	Reversible	2400 / 1800	23.5 / 17.4	61
17"	2 5/8"	18217	Reversible	2400 / 1800	23.5 / 17.4	59

* CFM tested at zero static pressure. **Drop-in fans-Puller applications require shroud.



THE LEADER IN PERFORMANCE COOLING

PWM Electric Fan Controllers

Get Complete Control of Your Engine Temperatures

Historically, cooling fans run at 100%, even when less airflow is needed, constantly turning on and off as the engine temperature changes. This reaction based temperature control system causes constant amperage spikes, excessive noise and premature wear. The Derales PWM fan controller continuously monitors your engine's temperature, therefore controlling the temperature and increasing the vehicles cooling efficiency, while reducing the amps used to do so. Here's how it works; The controller monitors your engine temperature

via the cool side of the radiator, therefore providing a more accurate reading for your cooling system. Using Soft Start Technology, fans ramp up slowly which eliminates harmful AMP spikes. The unit will continuously monitor your engine's temperature and operate the fans at the optimum fan rate as needed. The net result; the electric fans often only run between 40-60% to keep your engine cool. Additional benefits include, reduced fan speeds which means reduced fan noise, which tends to compete with that sweet sound of your engine!

Features and Benefits

- **Soft Start Technology**
- **Multiple fan controller**
- **Reduced fan noise**
- **Constantly adjusts fans speed to maintain the desired temperature**
- **Pulse Width Modulation controls fan(s) speed from 0-100%**
- **Air conditioning override circuit built-in**
- **Includes all necessary installation hardware**
- **Includes auto resetting circuit breaker**
- **Built-in protections: short circuit, over amperage, low voltage, high voltage, reverse polarity, over temperature and anti-flyback**
- **Complete pre-wired wire harness**
- **70 AMP capacity**
- **Maintains coolant temperatures from 130°F – 230°F**
- **20 second cool down timer when vehicle is turned off**
- **Black anodized 6061 aluminum housing**



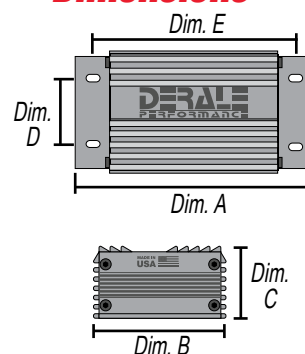
Part No.	Replacement Sensor	Dim A. (Width)	Dim B. (Height)	Dim C. (Depth)	Dim D. (Mounting)	Dim E. (Mounting)
16797	16757	5 13/16"	3"	1 5/8"	1 5/8"	5 1/8"

The Temp Sensor Makes The PWM More Efficient Than Ever

The temp sensor is changing the game for the PWM Electric Fan controller. After extensive research our product development team found a better way. The temp sensor is designed for maximum efficiency. Its lean profile allows for an easy installation by using a Heavy Duty epoxy pad. Once in place, its light weight aluminum body reacts quickly to the radiator temperatures. This quick heat soaking action makes for an accurate temperature reading, crucial to keeping temperatures under control.



Dimensions



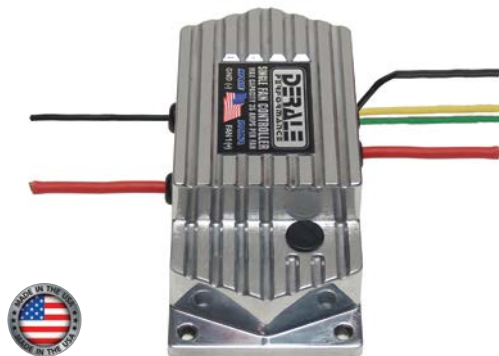
High Amp Electric Fan Controllers



THE LEADER IN PERFORMANCE COOLING



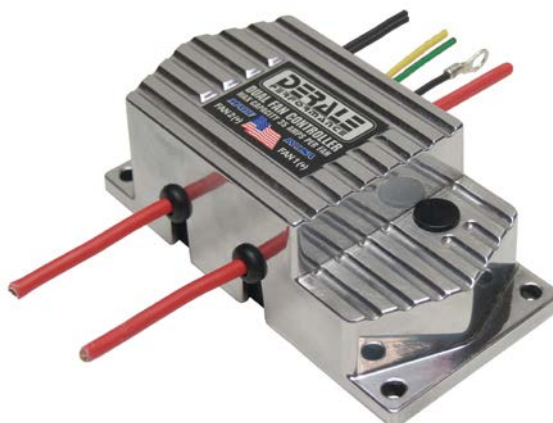
High Amp Adjustable Single Fan Controllers



- 35 Amp Capacity
- Adjustable fan activation range from 150°F - 240°F
- Turn-off temperature preset at 15°F below activation setting
- Die Cast Aluminum housing with bright finish
- Automatic resetting circuit breaker
- Air conditioning override circuit built-in

Part No.	Application	Probe	Repl. Probe No.
16778	Single Fan	Push-In	16753
16779	Single Fan	3/8" NPT	16753

High Amp Adjustable Dual Fan Controllers



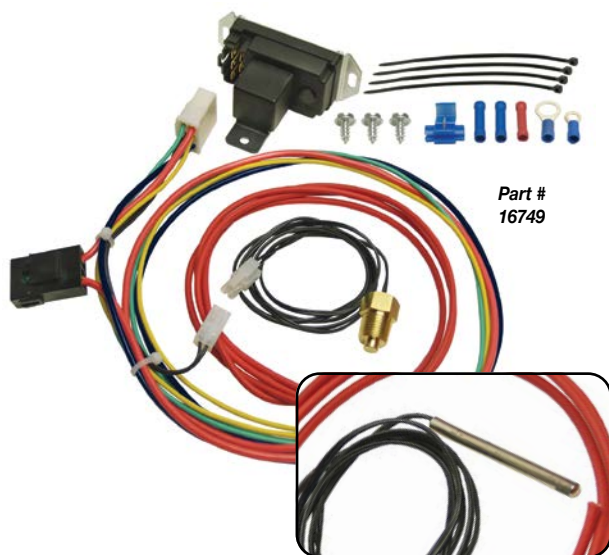
- 70 Amp Capacity (35 per output)
- Adjustable fan activation range from 150°F - 240°F
- Activate Fan #1 at desired temp, activate fan #2 10°F warmer than fan #1
- Turn-off temperature preset at 10°F below activation setting
- Die Cast Aluminum housing with bright finish
- Automatic resetting circuit breaker
- Air conditioning override circuit built-in

Part No.	Application	Probe	Repl. Probe No.
16788	Dual Fan	Push-In	16753
16789	Dual Fan	3/8" NPT	16753

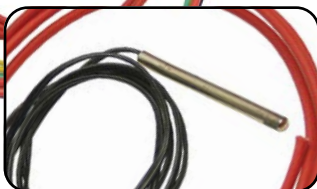


THE LEADER IN PERFORMANCE COOLING

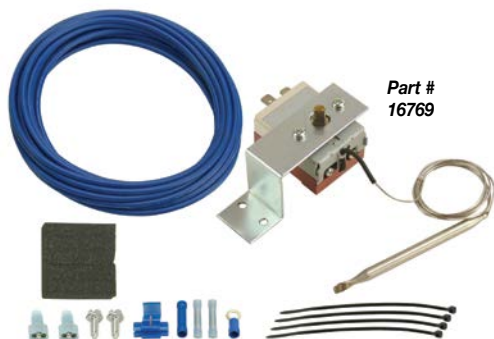
Electric Fan Controllers



Part #
16749



Part # 16759



Part #
16769



Part #
16720



Part #
16738

Adjustable Fan Controllers

- **25 Amp Capacity**
- **Adjustable fan activation range from 150°F - 240°F**
- **Turn-off temperature preset at 10°F below activation setting**
- **Interchangeable probe design, push-in radiator or 3/8" NPT thread-in probe**
- **Air conditioning override circuit built-in**

Part No.	Application	Probe	Rep. Probe No.
16749	Single Fan	3/8" NPT Thread in	16750
16759	Single Fan	Radiator Push-in	16760

Mechanical Fan Controller

- **16 Amp Capacity**
- **Adjustable fan activation range from 32°F - 240°F**
- **Turn-off temperature preset at 10°F below activation setting**
- **Radiator hose probe design**

Part No.	Application	Probe
16769	Single Fan	Radiator Push-In

Single Stage Fan Controllers

- **Turn-off temperature preset at 15°F below activation setting**
- **Available in 180°F or 190°F Turn-on temperature**
- **Available in 15 or 25 amp capacity**
- **25 amp capacity kits include relay and harness**
- **Available in push-in or thread-in probe**

Part No.	Amp. Capacity	Relay	Probe	Temp Activation
16720	25 amp	40/60 amp	3/8" Thread-In	180°F
16721	25 amp	40/60 amp	3/8" Thread-In	190°F
16730	15 amp	Not Included	3/8" Thread-In	180°F
16731	15 amp	Not Included	3/8" Thread-In	190°F
16735	25 amp	40/60 amp	Push-In / 3/8" Thread-In	180°F
16738	25 amp	40/60 amp	Push-In	180°F
16739	25 amp	40/60 amp	3/8" Thread-In	180°F



THE LEADER IN PERFORMANCE COOLING

PERFORMANCE FUEL PUMPS



Universal Inline Fuel Pump Kits

- **Compact design**
- **Constant high-flow rate**
- **Consistent pressure**
- **Rotary vane inline pump**



Derale introduces its latest addition to its growing Performance Line-up. Our Universal Inline Fuel pumps are manufactured using only the highest quality materials, manufacturing methods and technology in order to insure maximum performance and reliability. These pumps cover a wide range of low pressure carbureted fuel system applications. They are also available for a variety of fuel types including Gasoline, Diesel, E85, E100, M100 and Racing Fuel. All Derale Universal Inline Fuel Pumps include the necessary hardware for installation as well as inline filters where applicable. Boost your fuel delivery system's efficiency and performance with our universal inline fuel pumps!



Part No.	Fuel Type	Flow rate	Max Pump Pressure
72000	Gasoline	130LPH	4-7 PSI
72001	Gasoline	100LPH	2-3.5 PSI
72003	Diesel	130LPH	4-7 PSI
72004	E85 / E100 / M100 / Racing Fuel	130LPH	4-7 PSI



THE LEADER IN PERFORMANCE COOLING

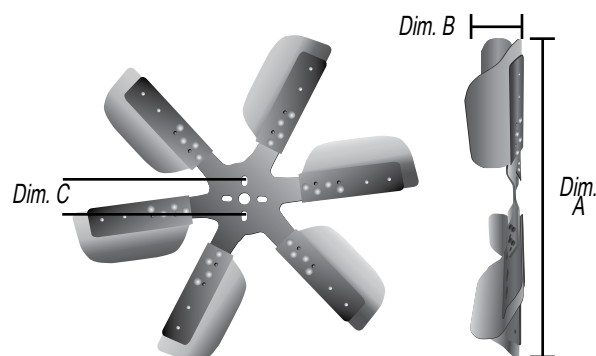
Belt Driven Fans

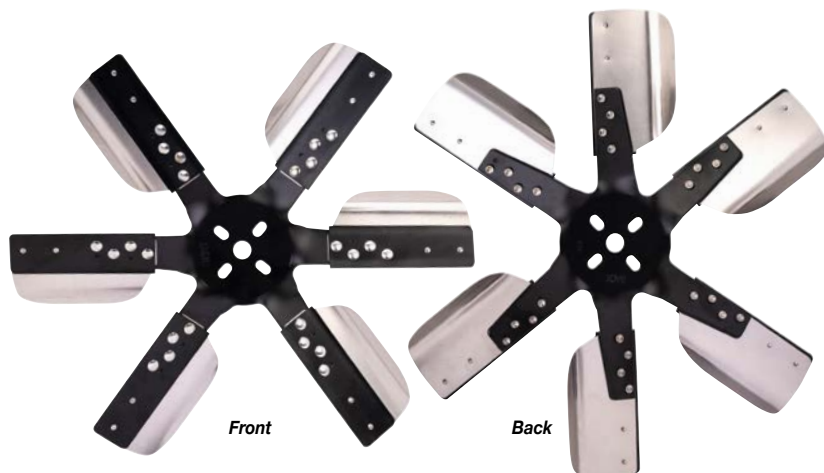


Features and Benefits

- **Designed, engineered and manufactured in the USA**
- **Universal designs to fit most applications**
- **Model designs range from 13" to 20" diameters**
- **Most designs available in standard and reverse rotation**

Dimensions



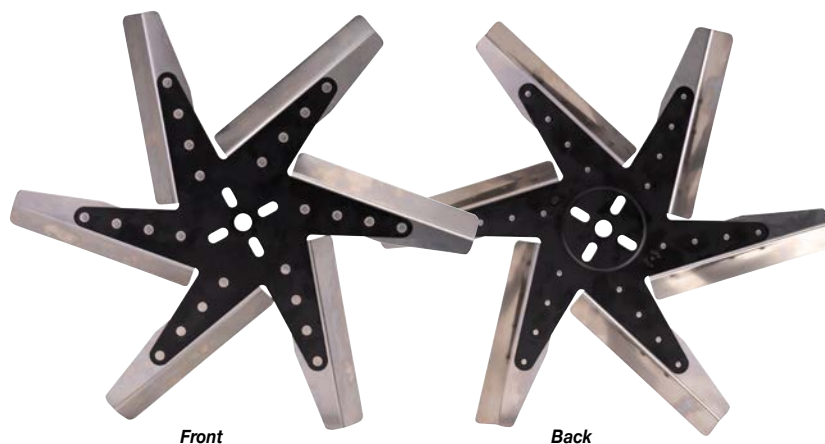


Heavy Duty Flex Fans

- **Rated up to 10,000 RPM's**
- **Improves performance and mileage**
- **Large surface area pulls more air at low speeds**
- **Heavy duty black powder coated steel hubs**
- **Durable stainless steel blades**
- **Available in standard or reverse rotation**



Stainless Black Hub Part No.	Fan Size	Rotation	Dim. A (Diameter)	Dim. B (Depth)	Dia. C (Flange)
17015	15"	Standard	14 3/4"	3 1/16"	1 3/4"-2 1/4"
17017	17"	Standard	17 1/4"	2 11/16"	1 3/4"-2 1/4"
17018	18"	Standard	18 1/4"	2 11/16"	1 3/4"-2 1/4"
17019	19"	Standard	19 1/4"	2 11/16"	1 3/4"-2 1/4"
17615	15"	Reverse	14 3/4"	3 1/16"	1 3/4"-2 1/4"
17617	17"	Reverse	17 1/4"	2 11/16"	1 3/4"-2 1/4"
17618	18"	Reverse	18 1/4"	2 11/16"	1 3/4"-2 1/4"
17619	19"	Reverse	19 1/4"	2 11/16"	1 3/4"-2 1/4"



High Performance Stainless

- **Rated up to 8,000 RPM's**
- **Stainless steel fan blades**
- **Black powder coated hub**
- **Available in standard or reverse rotation**



Stainless Black Hub Part No.	Fan Size	Rotation	Dim. A (Diameter)	Dim. B (Depth)	Dia. C (Flange)
19113	13"	Standard	13 3/8"	1 1/8"	1 3/4"-2 1/4"
19115	15"	Standard	15 1/4"	1 1/8"	1 3/4"-2 1/4"
19117	17"	Standard	17"	1 1/8"	1 3/4"-2 1/4"
19118	18"	Standard	18 1/4"	1 1/8"	1 3/4"-2 1/4"
19313	13"	Reverse	13 3/8"	1 1/8"	1 3/4"-2 1/4"
19315	15"	Reverse	15 1/4"	1 1/8"	1 3/4"-2 1/4"
19317	17"	Reverse	17"	1 1/8"	1 3/4"-2 1/4"
19318	18"	Reverse	18 1/4"	1 1/8"	1 3/4"-2 1/4"



THE LEADER IN PERFORMANCE COOLING



Standard
Rotation



Reverse
Rotation

Rigid Race Steel Blade Fans

- **Rated up to 8,000 RPM's**
- **Steel fan blades**
- **Maximum full-time airflow**
- **Available in standard and reverse rotation**

Standard Rotation Part No.	Reverse Rotation Part No.	Fan Size	Dim. A (Diameter)	Dim. B (Depth)	Dia. C (Flange)
17315	17415	15"	15"	2 1/4"	1 3/4"-2 1/4"
17317	17417	17"	17"	2 1/4"	1 3/4"-2 1/4"
17318	17418	18"	18"	2 1/4"	1 3/4"-2 1/4"
17319	17419	19"	18 7/8"	2 1/4"	1 3/4"-2 1/4"
17320		20"	19 7/8"	2 1/4"	1 3/4"-2 1/4"



Rigid Race Aluminum Blade Fans

- **Rated up to 8,000 RPM's**
- **Aluminum fan blades**
- **Maximum full-time airflow**
- **Available in standard rotation**

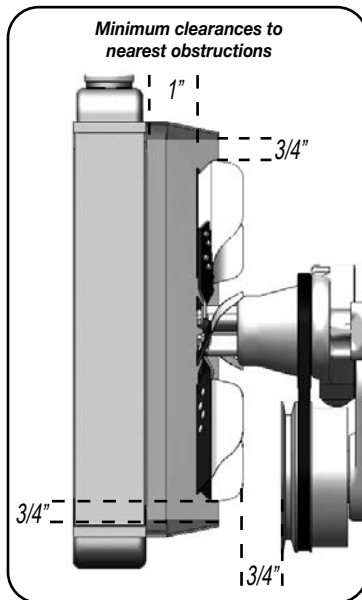
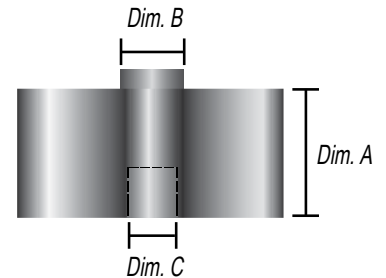
Part No.	Fan Size	Rotation	Dim. A (Diameter)	Dim. B (Depth)	Dia. C (Flange)
17517	17"	Standard	17"	2 1/4"	1 3/4"-2 1/4"
17518	18"	Standard	18"	2 1/4"	1 3/4"-2 1/4"



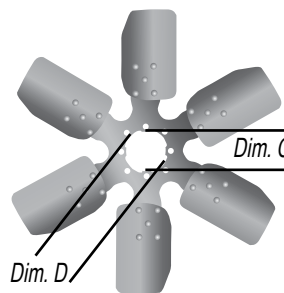


Belt Driven Fan Spacers

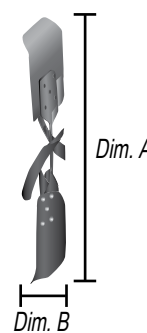
- Strong one-piece aluminum construction
- Closed loop design
- Designed to fit 5/8", 3/4" or 1.180 water pumps
- Standard 5/8" male pilot
- Clear anodized finish
- Includes mounting hardware



Part No.	Dim. A (Length)	Dim. B (Male Pilot Diameter)	Dim. C (Female Pilot Diameter)	Bolts (4 each)	Flange
31500	1/2"	5/8"	5/8"	5/16-18 / 5/16-24	1 3/4"-2 1/4"
31510	1"	5/8"	5/8" or 3/4"	5/16-18 / 5/16-24	1 3/4"-2 1/4"
31515	1 1/2"	5/8"	5/8" or 3/4"	5/16-18 / 5/16-24	1 3/4"-2 1/4"
31518	1 3/4"	5/8"	5/8" or 3/4"	5/16-18 / 5/16-24	1 3/4"-2 1/4"
31520	2"	5/8"	5/8" or 3/4"	5/16-18 / 5/16-24	1 3/4"-2 1/4"
31540	2 1/4"	5/8"	5/8" or 3/4"	5/16-18 / 5/16-24	1 3/4"-2 1/4"
31550	2 1/2"	5/8"	5/8" or 3/4"	5/16-18 / 5/16-24	1 3/4"-2 1/4"
31552	3"	5/8"	5/8" or 3/4"	5/16-18 / 5/16-24	1 3/4"-2 1/4"
31553	3 1/2"	5/8"	5/8" or 3/4"	5/16-18 / 5/16-24	1 3/4"-2 1/4"



Mounting bolt circles:
3" and 3-1/4"



Fan Clutch Fans

- Rated up to 8,000 RPM's
- Steel fan blades
- Maximum full-time airflow
- Available in standard or reverse rotation
- Black powder coated finish



Standard Rotation Part No.	Reverse Rotation Part No.	Fan Size	Dim. A (Diameter)	Dim. B (Depth)	Dia. C (Flange)	Dia. D (Flange)
17117	17917	17"	17 1/4"	1 15/16"	2 3/8"	2 5/8"
17118	17918	18"	18"	1 15/16"	2 3/8"	2 5/8"
17119		19"	19 1/8"	2 1/8"	2 3/8"	2 5/8"
17120		20"	20"	1 15/16"	2 3/8"	2 5/8"

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