

# CFM56-7 ENGINES

B737-600/700/800/900 Aircraft



## Oil Cooler/Bypass Valve

**UA538551-3**

The oil cooler assembly consists of a finned core and collector housing that contains passages that direct the flow of oil to be cooled between the air passages. The housing is a casting which is brazed to the core. Oil flows through the passages in the core transferring heat through the walls of the passages to the air flowing across the air fins.

IN and OUT oil ports are located on top of the oiler cooler. The IN port was machined per MS33649-8. The OUT port was machined per MS33649-10. A bypass relief valve is installed on the housing between the IN and OUT ports. The bypass valve will operate if the oil passages become clogged or oil viscosity is high due to low temperatures and oil pressure drop across the core overcomes spring pressure. This opens valve and directs oil flow from IN port through valve and to OUT port. This causes most of the oil to bypass the cooler core.

With Triumph Thermal Systems' in-house design, development, testing, and manufacturing capabilities, along with NewGenAerospace's quality service, innovative programs and distribution networks, our partnership is uniquely able to bring solutions to you faster than anyone else in the business.



Since 1929, Triumph Thermal Systems (TTS) has been providing high-quality thermal management technologies to commercial customers worldwide.

### TRIUMPH THERMAL SYSTEMS:

- provides heat exchangers in aluminum, stainless steel and inconel material options for both plate fin and tubular geometries
- supports Liquid Cooling Systems for airborne electronics thermal management
- provides high-quality thermal management technologies and is committed to being a leading global manufacturer and supplier of heat exchange and thermal transfer systems and components
- is a premier solution provider for aircraft thermal management systems and support
- provides Plate Fin, Tubular, and Surface Heat Exchangers, Liquid Cooling Systems, Electronic Cooling Systems, Oil Reservoirs and High Temperature Bleed Air Environmental Control System Heat Exchangers

Exclusively Distributed By:



NewGenAerospace

Integrity • Commitment • Solutions

[sales@newgenaerospace.com](mailto:sales@newgenaerospace.com)  
+1 847 740 2216 (Main)  
[www.newgenaerospace.com](http://www.newgenaerospace.com)

# Your One-Stop-Shop for Triumph Thermal Systems

2022 Pricing, Effective 1/1/22 - 12/31/22



## New Material • Exchanges • Repair/Overhaul Facilitation

NewGenAerospace can save you both time and money with these newly offered programs and opportunities below—providing you with world class OEM products via our fast, reliable service to keep you in the air.

- **Repair and Overhaul**—all done with fast turnaround times
- **Advanced Rotable Exchange**—in most cases we can offer an advanced exchange for a faster TAT
- **Rotable Outright**—in most cases we can offer a rotatable outright unit for sale or in the case of a leaking unit
- **Factory New Product**—factory new world class OEM product with dependability and the Triumph Thermal System name and warranty to back it up

Part Number	Description	Approving Agency	Application	Repair	TAT Days	Overhaul	TAT Days
<b>7075M51G05; -09; -10</b>	TANK	FAA /EASA /CAAC	CF6-80A, 80C2, 80C	\$3,069.00	15	\$5,217.00	20
9100M30G13	TANK	FAA /EASA /CAAC	CF6-50	\$3,723.00	15	\$6,048.00	20
UA520620-45	TANK	FAA /EASA /CAAC		\$3,986.00	15	\$9,684.00	20
<b>UA526276-5 --&gt; -26</b>	AIR/OIL COOLER	FAA /EASA /CAAC	JT8D/727-200	\$2,087.00	15	\$2,783.00	20
UA530768-4	FUEL/OIL COOLER	FAA /EASA /CAAC	JT15D	\$1,573.00	15	\$1,856.00	20
UA533761-13	AIR/OIL COOLER	FAA /EASA /CAAC	L1011	\$1,763.00	15	\$1,856.00	20
UA537078-3	CSD OIL COOLER	FAA /EASA /CAAC	DC10/747-300	\$2,236.00	15	\$2,926.00	20
UA538283-2	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$2,012.00	15	\$5,415.00	20
UA538297-6	IDGS FUEL/OIL COOLER	FAA /EASA /CAAC	CF6-80/B767	\$1,216.00	15	\$1,516.00	20
UA538342-2	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$1,216.00	15	\$1,516.00	20
UA538404-9	AIR/OIL COOLER	FAA /EASA /CAAC	PW2037/B757	\$1,540.00	15	\$1,674.00	20
<b>UA538551-2</b>	CSD OIL COOLER	FAA /EASA /CAAC	B737-3/4/500	\$1,418.00	15	\$1,674.00	20
<b>UA538551-3</b>	CSD OIL COOLER	FAA /EASA /CAAC	B737--6/7/800	\$1,418.00	15	\$1,674.00	20
UA538728-1	IDG COOLER	FAA /EASA /CAAC	CF6-80	\$1,636.00	15	\$2,188.00	20
<b>UA538950-4; -7</b>	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$2,148.00	15	\$5,486.00	20
UA538950-8	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$1,798.00	15	\$2,325.00	20
UA539549-3	PRECOOLER	FAA /EASA /CAAC	CITAT.III,525	\$1,070.00	15	\$1,388.00	20
UA541264-1	VSCF AIR/OIL COOLER	FAA /EASA /CAAC	B737-3/4/500	\$1,070.00	15	\$1,388.00	20
UA541455-1	PRECOOLER	FAA /EASA /CAAC	CITAT. 625	\$1,070.00	15	\$1,388.00	20
<b>UA541461-5 --&gt; -14</b>	MAIN FUEL/OIL COOLER	FAA /EASA /CAAC	GE90/B777	\$2,715.00	15	\$4,497.00	20
<b>UA541462-8; -9</b>	IDG/VSCF AIR/OIL HX	FAA /EASA /CAAC	GE90/B777	\$2,778.00	15	\$5,485.00	20
UA541463-4	VSCF/LUBE OIL COOLER	FAA /EASA /CAAC	GE90/B777	\$1,834.00	15	\$2,289.00	20
<b>UA541464-4; -5; -6</b>	IDG FUEL/OIL COOLER	FAA /EASA /CAAC	GE90/B777	\$1,834.00	15	\$3,969.00	20
<b>UA541761-6; -7</b>	BUFFER AIR COOLER	FAA /EASA /CAAC	PW4168/A330	\$1,221.00	15	\$2,237.00	20
<b>UA541762-8; -9</b>	BUFFER AIR COOLER	FAA /EASA /CAAC	PW4084/B777	\$1,221.00	15	\$2,233.00	20
UA543097-5	HYDRAULIC AIR COOLER	FAA /EASA /CAAC	CRJ700	\$7,086.00	15	\$13,343.00	20
<b>UA544011-1; -2</b>	IDG/VSCF AIR/OIL HX	FAA /EASA /CAAC	GE90/B777	\$2,778.00	15	\$5,485.00	20
UA544051-3	IDG COOLER	FAA /EASA /CAAC	CF34	\$1,636.00	15	\$2,193.00	20
UA544142-1	CSD OIL COOLER	FAA /EASA /CAAC	CF34	\$1,418.00	15	\$1,674.00	20
UA544494-1	CSD OIL COOLER	FAA /EASA /CAAC	CF34	\$1,418.00	15	\$1,674.00	20

\*Please note—part numbers in **BOLD** indicate multiple part numbers.

# GE90 ENGINES



## VSCF Lube Oil/Oil Cooler Interface

**UA541463-4**

**Engine Series: -76B, -115B**

The UA541463 series VSCF/Lube Oil/Oil Cooler Interface assembly is a heat exchanger unit that is made of all brazed and welded aluminum alloy. The unit has a plate and fin core matrix that gives VSCF and Lube fluid passages.

The VSCF/Lube Oil/Oil Cooler Interface assembly uses VSCF oil to cool the engine lube oil. The lube oil circuit contains an integral bypass valve for lube oil bypass flow during cold oil operation cycles.

With Triumph Thermal Systems' in-house design, development, testing, and manufacturing capabilities, along with NewGenAerospace's quality service, innovative programs and distribution networks, our partnership is uniquely able to bring solutions to you faster than anyone else in the business.



Since 1929, Triumph Thermal Systems (TTS) has been providing high-quality thermal management technologies to commercial customers worldwide.

### TRIUMPH THERMAL SYSTEMS:

- provides heat exchangers in aluminum, stainless steel and inconel material options for both plate fin and tubular geometries
- supports Liquid Cooling Systems for airborne electronics thermal management
- provides high-quality thermal management technologies and is committed to being a leading global manufacturer and supplier of heat exchange and thermal transfer systems and components
- is a premier solution provider for aircraft thermal management systems and support
- provides Plate Fin, Tubular, and Surface Heat Exchangers, Liquid Cooling Systems, Electronic Cooling Systems, Oil Reservoirs and High Temperature Bleed Air Environmental Control System Heat Exchangers

**Exclusively Distributed By:**



**NewGenAerospace**

**Integrity • Commitment • Solutions**

**sales@newgenaerospace.com**  
**+1 847 740 2216 (Main)**  
**www.newgenaerospace.com**

# Your One-Stop-Shop for Triumph Thermal Systems

2022 Pricing, Effective 1/1/22 - 12/31/22



## New Material • Exchanges • Repair/Overhaul Facilitation

NewGenAerospace can save you both time and money with these newly offered programs and opportunities below—providing you with world class OEM products via our fast, reliable service to keep you in the air.

- **Repair and Overhaul**—all done with fast turnaround times
- **Advanced Rotable Exchange**—in most cases we can offer an advanced exchange for a faster TAT
- **Rotable Outright**—in most cases we can offer a rotatable outright unit for sale or in the case of a leaking unit
- **Factory New Product**—factory new world class OEM product with dependability and the Triumph Thermal System name and warranty to back it up

Part Number	Description	Approving Agency	Application	Repair	TAT Days	Overhaul	TAT Days
<b>7075M51G05; -09; -10</b>	TANK	FAA /EASA /CAAC	CF6-80A, 80C2, 80C	\$3,069.00	15	\$5,217.00	20
9100M30G13	TANK	FAA /EASA /CAAC	CF6-50	\$3,723.00	15	\$6,048.00	20
UA520620-45	TANK	FAA /EASA /CAAC		\$3,986.00	15	\$9,684.00	20
<b>UA526276-5 --&gt; -26</b>	AIR/OIL COOLER	FAA /EASA /CAAC	JT8D/727-200	\$2,087.00	15	\$2,783.00	20
UA530768-4	FUEL/OIL COOLER	FAA /EASA /CAAC	JT15D	\$1,573.00	15	\$1,856.00	20
UA533761-13	AIR/OIL COOLER	FAA /EASA /CAAC	L1011	\$1,763.00	15	\$1,856.00	20
UA537078-3	CSD OIL COOLER	FAA /EASA /CAAC	DC10/747-300	\$2,236.00	15	\$2,926.00	20
UA538283-2	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$2,012.00	15	\$5,415.00	20
UA538297-6	IDGS FUEL/OIL COOLER	FAA /EASA /CAAC	CF6-80/B767	\$1,216.00	15	\$1,516.00	20
UA538342-2	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$1,216.00	15	\$1,516.00	20
UA538404-9	AIR/OIL COOLER	FAA /EASA /CAAC	PW2037/B757	\$1,540.00	15	\$1,674.00	20
<b>UA538551-2</b>	CSD OIL COOLER	FAA /EASA /CAAC	B737-3/4/500	\$1,418.00	15	\$1,674.00	20
<b>UA538551-3</b>	CSD OIL COOLER	FAA /EASA /CAAC	B737--6/7/800	\$1,418.00	15	\$1,674.00	20
UA538728-1	IDG COOLER	FAA /EASA /CAAC	CF6-80	\$1,636.00	15	\$2,188.00	20
<b>UA538950-4; -7</b>	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$2,148.00	15	\$5,486.00	20
UA538950-8	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$1,798.00	15	\$2,325.00	20
UA539549-3	PRECOOLER	FAA /EASA /CAAC	CITAT.III,525	\$1,070.00	15	\$1,388.00	20
UA541264-1	VSCF AIR/OIL COOLER	FAA /EASA /CAAC	B737-3/4/500	\$1,070.00	15	\$1,388.00	20
UA541455-1	PRECOOLER	FAA /EASA /CAAC	CITAT. 625	\$1,070.00	15	\$1,388.00	20
<b>UA541461-5 --&gt; -14</b>	MAIN FUEL/OIL COOLER	FAA /EASA /CAAC	GE90/B777	\$2,715.00	15	\$4,497.00	20
<b>UA541462-8; -9</b>	IDG/VSCF AIR/OIL HX	FAA /EASA /CAAC	GE90/B777	\$2,778.00	15	\$5,485.00	20
UA541463-4	VSCF/LUBE OIL COOLER	FAA /EASA /CAAC	GE90/B777	\$1,834.00	15	\$2,289.00	20
<b>UA541464-4; -5; -6</b>	IDG FUEL/OIL COOLER	FAA /EASA /CAAC	GE90/B777	\$1,834.00	15	\$3,969.00	20
<b>UA541761-6; -7</b>	BUFFER AIR COOLER	FAA /EASA /CAAC	PW4168/A330	\$1,221.00	15	\$2,237.00	20
<b>UA541762-8; -9</b>	BUFFER AIR COOLER	FAA /EASA /CAAC	PW4084/B777	\$1,221.00	15	\$2,233.00	20
UA543097-5	HYDRAULIC AIR COOLER	FAA /EASA /CAAC	CRJ700	\$7,086.00	15	\$13,343.00	20
<b>UA544011-1; -2</b>	IDG/VSCF AIR/OIL HX	FAA /EASA /CAAC	GE90/B777	\$2,778.00	15	\$5,485.00	20
UA544051-3	IDG COOLER	FAA /EASA /CAAC	CF34	\$1,636.00	15	\$2,193.00	20
UA544142-1	CSD OIL COOLER	FAA /EASA /CAAC	CF34	\$1,418.00	15	\$1,674.00	20
UA544494-1	CSD OIL COOLER	FAA /EASA /CAAC	CF34	\$1,418.00	15	\$1,674.00	20

\*Please note—part numbers in **BOLD** indicate multiple part numbers.

# GE90 ENGINES



## IDG Fuel/Oil Cooler

**UA541464-6**

**Engine Series: -76B, -115B**

The UA541464 Series IDG Fuel/Oil Cooler assembly is a heat exchanger unit that is made of brazed and welded stainless steel components. The unit has a tubular core that contains pass-ages for directing flow of hot oil around the tubes to be cooled by fuel.

The IDG Fuel/Oil Cooler uses fuel flow to cool the IDG oil. The UA541464-4 unit contains an additional fuel pressure relief valve.

With Triumph Thermal Systems' in-house design, development, testing, and manufacturing capabilities, along with NewGenAerospace's quality service, innovative programs and distribution networks, our partnership is uniquely able to bring solutions to you faster than anyone else in the business.



Since 1929, Triumph Thermal Systems (TTS) has been providing high-quality thermal management technologies to commercial customers worldwide.

### TRIUMPH THERMAL SYSTEMS:

- provides heat exchangers in aluminum, stainless steel and inconel material options for both plate fin and tubular geometries
- supports Liquid Cooling Systems for airborne electronics thermal management
- provides high-quality thermal management technologies and is committed to being a leading global manufacturer and supplier of heat exchange and thermal transfer systems and components
- is a premier solution provider for aircraft thermal management systems and support
- provides Plate Fin, Tubular, and Surface Heat Exchangers, Liquid Cooling Systems, Electronic Cooling Systems, Oil Reservoirs and High Temperature Bleed Air Environmental Control System Heat Exchangers

**Exclusively Distributed By:**



**NewGenAerospace**

**Integrity • Commitment • Solutions**

**sales@newgenaerospace.com**  
**+1 847 740 2216 (Main)**  
**www.newgenaerospace.com**

# Your One-Stop-Shop for Triumph Thermal Systems

2022 Pricing, Effective 1/1/22 - 12/31/22



## New Material • Exchanges • Repair/Overhaul Facilitation

NewGenAerospace can save you both time and money with these newly offered programs and opportunities below—providing you with world class OEM products via our fast, reliable service to keep you in the air.

- **Repair and Overhaul**—all done with fast turnaround times
- **Advanced Rotable Exchange**—in most cases we can offer an advanced exchange for a faster TAT
- **Rotable Outright**—in most cases we can offer a rotatable outright unit for sale or in the case of a leaking unit
- **Factory New Product**—factory new world class OEM product with dependability and the Triumph Thermal System name and warranty to back it up

Part Number	Description	Approving Agency	Application	Repair	TAT Days	Overhaul	TAT Days
<b>7075M51G05; -09; -10</b>	TANK	FAA /EASA /CAAC	CF6-80A, 80C2, 80C	\$3,069.00	15	\$5,217.00	20
9100M30G13	TANK	FAA /EASA /CAAC	CF6-50	\$3,723.00	15	\$6,048.00	20
UA520620-45	TANK	FAA /EASA /CAAC		\$3,986.00	15	\$9,684.00	20
<b>UA526276-5 --&gt; -26</b>	AIR/OIL COOLER	FAA /EASA /CAAC	JT8D/727-200	\$2,087.00	15	\$2,783.00	20
UA530768-4	FUEL/OIL COOLER	FAA /EASA /CAAC	JT15D	\$1,573.00	15	\$1,856.00	20
UA533761-13	AIR/OIL COOLER	FAA /EASA /CAAC	L1011	\$1,763.00	15	\$1,856.00	20
UA537078-3	CSD OIL COOLER	FAA /EASA /CAAC	DC10/747-300	\$2,236.00	15	\$2,926.00	20
UA538283-2	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$2,012.00	15	\$5,415.00	20
UA538297-6	IDGS FUEL/OIL COOLER	FAA /EASA /CAAC	CF6-80/B767	\$1,216.00	15	\$1,516.00	20
UA538342-2	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$1,216.00	15	\$1,516.00	20
UA538404-9	AIR/OIL COOLER	FAA /EASA /CAAC	PW2037/B757	\$1,540.00	15	\$1,674.00	20
<b>UA538551-2</b>	CSD OIL COOLER	FAA /EASA /CAAC	B737-3/4/500	\$1,418.00	15	\$1,674.00	20
<b>UA538551-3</b>	CSD OIL COOLER	FAA /EASA /CAAC	B737--6/7/800	\$1,418.00	15	\$1,674.00	20
UA538728-1	IDG COOLER	FAA /EASA /CAAC	CF6-80	\$1,636.00	15	\$2,188.00	20
<b>UA538950-4; -7</b>	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$2,148.00	15	\$5,486.00	20
UA538950-8	SERVO FUEL HEATER	FAA /EASA /CAAC	CF6-80	\$1,798.00	15	\$2,325.00	20
UA539549-3	PRECOOLER	FAA /EASA /CAAC	CITAT.III,525	\$1,070.00	15	\$1,388.00	20
UA541264-1	VSCF AIR/OIL COOLER	FAA /EASA /CAAC	B737-3/4/500	\$1,070.00	15	\$1,388.00	20
UA541455-1	PRECOOLER	FAA /EASA /CAAC	CITAT. 625	\$1,070.00	15	\$1,388.00	20
<b>UA541461-5 --&gt; -14</b>	MAIN FUEL/OIL COOLER	FAA /EASA /CAAC	GE90/B777	\$2,715.00	15	\$4,497.00	20
<b>UA541462-8; -9</b>	IDG/VSCF AIR/OIL HX	FAA /EASA /CAAC	GE90/B777	\$2,778.00	15	\$5,485.00	20
UA541463-4	VSCF/LUBE OIL COOLER	FAA /EASA /CAAC	GE90/B777	\$1,834.00	15	\$2,289.00	20
<b>UA541464-4; -5; -6</b>	IDG FUEL/OIL COOLER	FAA /EASA /CAAC	GE90/B777	\$1,834.00	15	\$3,969.00	20
<b>UA541761-6; -7</b>	BUFFER AIR COOLER	FAA /EASA /CAAC	PW4168/A330	\$1,221.00	15	\$2,237.00	20
<b>UA541762-8; -9</b>	BUFFER AIR COOLER	FAA /EASA /CAAC	PW4084/B777	\$1,221.00	15	\$2,233.00	20
UA543097-5	HYDRAULIC AIR COOLER	FAA /EASA /CAAC	CRJ700	\$7,086.00	15	\$13,343.00	20
<b>UA544011-1; -2</b>	IDG/VSCF AIR/OIL HX	FAA /EASA /CAAC	GE90/B777	\$2,778.00	15	\$5,485.00	20
UA544051-3	IDG COOLER	FAA /EASA /CAAC	CF34	\$1,636.00	15	\$2,193.00	20
UA544142-1	CSD OIL COOLER	FAA /EASA /CAAC	CF34	\$1,418.00	15	\$1,674.00	20
UA544494-1	CSD OIL COOLER	FAA /EASA /CAAC	CF34	\$1,418.00	15	\$1,674.00	20

\*Please note—part numbers in **BOLD** indicate multiple part numbers.