

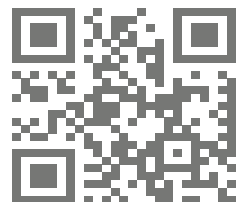


HEPI

Cooling Solutions



HEPI COOLING CLASSIC PRODUCTS



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HEPI manufactures and supplies high quality, innovative compatible replacement products that can also be tailored to our customers’ specific requirements. HEPI’s in-house engineering, product and service offerings, guarantee we can support customers throughout the full product life cycle while working to award the end user with the lowest total cost of ownership.

Our experience in application specific solutions assist our customers in avoiding costly machine breakdowns caused by inappropriate or ineffective cooling systems. This results in lower maintenance costs and greater machine uptime, increasing productivity. High quality, compatible replacement cooling systems ensure longer machine life expectancy through the reduction of unnecessary overheating machine components. An engineered solution from HEPI also generates other potential benefits, including high machine performance through increased efficiency and reduced fuel consumption.



HEPI #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
773F / 775F			
HE0174714-N	464-9054	CAT 773F & 775F MODULAR RAD PANEL TYPE 1	4
HE0174715-N	464-9043	CAT 773F & 775F MODULAR RAD PANEL TYPE 2	2
HE0174716-N	358-0289	CAT 773F & 775F CHARGE AIR COOLER	1
773G & 775G			
HE0174717-N	464-9055	CAT 773G & 775G MODULAR RAD PANEL TYPE 1; REPLACE 223-5092, 390-6779	4
HE0174718-N	464-9044	CAT 773G & 775G MODULAR RAD PANEL TYPE 2; REPLACE 223-5080, 390-6780	2
777F			
HE0174719-N	251-6149	CAT 777F CHARGE AIR COOLER	2
HE0174720-N	464-9056	CAT 777F MODULAR RAD PANEL TYPE 1; REPLACE 223-5093, 390-6781	5
HE0174721-N	464-9045	CAT 777F MODULAR RAD PANEL TYPE 2; REPLACE 223-5081, 390-6782	2
777G			
HE0174722-N	357-1622	CAT 777G CHARGE AIR COOLER	2
HE0174723-N	464-9046	CAT 777G MODULAR RAD PANEL TYPE 1; REPLACE 223-5082, 380-8650	1
HE0174724-N	464-9057	CAT 777G MODULAR RAD PANEL TYPE 2; REPLACE 223-5094	6
785D			
HE0174726-N	370-9331	CAT 785D CHARGE AIR COOLER; REPLACE 327-6119	2
HE0174725-N		CAT 785D, 789, 777, 794 CHARGE AIR COOLER	
789D			
HE0174732-N	331-5138	CAT 789D, 793F CHARGE AIR COOLER	2
793D			
HE0174728-N	464-9040	CAT 793D OFF MODULAR RAD PANEL (TOP); REPLACE 223-5074, 387-4371	2
HE0174729-N	464-9049	CAT 793D OFF MODULAR RAD PANEL (TOP); REPLACE 223-5087, 387-4378	8
HE0174730-N	464-9041	CAT 793D OFF MODULAR RAD PANEL (BOTTOM); REPLACE 223-5075, 387-4372	2
HE0174731-N	464-9050	CAT 793D OFF MODULAR RAD PANEL (BOTTOM); REPLACE 223-5088, 387-4379	8
793F			
HE0174732-N	331-5138	CAT 789D, 793F CHARGE AIR COOLER	2
HE0175601-N	209-7824	CAT 793D, 793F, 797 & 797B REAR AXLE OIL COOLER ASSEMBLY	1
HE0175586-N	320-8196	CAT 793D, 793F, 797 & 797B REAR AXLE OIL COOLER ASSEMBLY	1
HE0176157-N	334-2923	CAT 793F, 795F, 797F & 798AC, 789D CONDENSER	1
HE0175627-N	370-9333	CAT 793F CHARGE AIR COOLER	2
HE0174727-N		CAT 793F CHARGE AIR COOLER	
795F			
HE0174733-N	323-1741	CAT 795F AC MINING TRUCK CAC 2 UNITS PER MACHINE	2

HEPI TRUCK COOLING SOLUTIONS

PRODUCT NAME	HEPI CAC
EQUIPMENT SUITABILITY	Caterpillar 795F Truck
HEPI#	C18500
OEM PART #	323-1741



HEPI #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
EXCAVATORS			
6020B			
HE0175918-N	468-7694	CAT 6020B HYD OIL COOLER	1
6040			
HE0174702-N	533-8330	CAT 6040 RAD&CHARGE AIR COOLER COMBINED ASSEMBLY; REPLACE 151-0111, 369-1276	1
HE0174703-N		CAT 6040 CHARGE AIR COOLER (PART OF HE0174702-N)	1
HE0174704-N		CAT 6040 RADIATOR (PART OF HE0174702-N)	1
HE0175403-N	535-4973	CAT 6040 HYD OIL COOLER; REPLACE 402-0949, 227-3620	2
6060			
HE0175600-N	534-7440	CAT 6060 RAD & CHARGE AIR COOLER COMBINED ASSEMBLY; REPLACE 402-5327, 369-4101	1
HE0174705-N	535-4527	CAT 6060 CHARGE AIR COOLER 2 PIECES COMBINED (COR); REPLACE 404-2754, 600-4553	1
HE0174706-N		CAT 6060 CAC - TYPE1 - LEFT (PART OF HE0174705-N)	1
HE0174707-N		CAT 6060 CAC - TYPE1 - RIGHT (PART OF HE0174705-N)	1
HE0174709-N	535-4523	CAT 6060 RAD; REPLACE 404-2753, 600-4552	1
HE0175405-N	534-3807	CAT 6060 HYD OIL COOLER	4
HE0175406-N	533-9066	CAT 6030, 40, 50, 60, 90 SWING BOX OIL COOLER; REPLACE 151-0089, 152-0435, 367-8624	4
6090			
HE0175407-N	534-1029	CAT 6090 HYD OIL COOLER; REPLACE 425-3735, 600-3667	4
INDUSTRIAL ENGINES			
C7 / C9			
HE0174772-N	186-0117	CAT C7, C9 CHARGE AIR COOLER – INDUSTRIAL ENGINE	
HE0174789-N	230-5006	CAT C7, C9 RAD – INDUSTRIAL ENGINE	
3054C / 3054E			
HE0174686-N	236-8741	CAT 3054C & 3054E CHARGE AIR COOLER	
HE0174688-N	236-8741	CAT 3054C & 3054E RADIATOR	
HE0174689-N	236-8741	CAT B&P SUIT 3054C C3054E C4.4 INDUSTRIAL ENGINE C/W RAD / CAC ASSEMBLY	
ANCILLARY EQUIPMENT			
854K			
HE0174734-N	387-4367	CAT 844K, 854K, 990K, 992K, 994H AMOCS RAD PANEL; REPLACE 223-5120	16
D10R			
		CHARGE AIR COOLER - TO SUIT 16M 972H GRADER	1
HE0174794-N	119-4774	CAT D8L, D9R, D10R, D9N, D10N & 24H (MOTOR GRADER) AMOCS RAD PANEL	11
D10T			
HE0175602-N	528-0686	CAT D10T CHARGE AIR COOLER TYPE 1 (LEFT); REPLACE 267-9441	1
HE0175603-N	539-8656	CAT D10T CHARGE AIR COOLER TYPE 2 (RIGHT); REPLACE 267-9442	1
HE0174794-N	213-9906	CAT D9T & D10T AMOCS RAD PANEL (LONG); REPLACE 119-4774	10
HE0174795-N	204-7184	CAT D10T AMOCS RAD PANEL (SHORT); REPLACE 213-9907, 163-4057	2
D10T2			
HE0174796-N	421-4021	CAT D10T2 CHARGE AIR COOLER	1
HE0174797-N	393-5050	CAT D10T2 RADIATOR	2
HE0175645-N	373-6407	CAT D10T2 OIL COOLER	1

HEPI #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
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ANCILLARY EQUIPMENT

D11T / D11R

HE0174798-N	373-8721	CAT D11T RAD (SINGLE PIECE DESIGN); REPLACE 338-2217	2
HE0174799-N	213-8188	CAT D11R & D11T AMOCS RAD PANEL; REPLACE 131-1106	12
HE0175572-N	338-2219	CAT D11T CHARGE AIR COOLER	2
HE0175644-N	338-1924	CAT OIL D11T & D11R COOLER HYDRAULIC AMA TEMP. CONTROLLED	1
HE0175587-N	267-9443	CAT D11R & D11T CHARGE AIR COOLER - TYPE 1 - LEFT	1
HE0175588-N	267-9444	CAT D11R & D11T CHARGE AIR COOLER - TYPE 2 - RIGHT	1
HE0175651-N	426-5397	CAT D11R & D11T OIL COOLER AMA	2
HE0176173-N	482-4404	CAT D11R & D11T CHARGE AIR COOLER	2
HE0176426-N	549-3814	CAT D11R & D11T OIL COOLER	1

988G

HE0174752-N	173-6753	CAT 834G, 834H, 836G, 836H, 988G & 988H BRAKE / AXLE COOLER	1
HE0174753-N	204-2642	CAT 988G & 988H HYD OIL COOLER; REPLACE 204-2640	1
HE0174754-N	152-7990	CAT 834G, 836G & 988G AMOCS RAD PANEL	7

988H

HE0174755-N	387-4366	CAT 834H, 834K,988H & 988K AMOCS RAD PANEL; REPLACE 223-5117	8
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992K

HE0174734-N	387-4367	CAT 844K, 854K, 990K, 992K, 994H AMOCS RAD PANEL; REPLACE 223-5120	14
HE0174761-N	346-0799	CAT 854K & 992K CHARGE AIR COOLER; REPLACE 280-0111	2
HE0174763-N	261-3853	CAT 844K, 854K, 990H, 990K & 992K HYD OIL COOLER	1

993K

HE0174764-N	488-9086	CAT 993K CHARGE AIR COOLER; REPLACE 250-8617	2
HE0174765-N	250-8480	CAT 993K HYD OIL COOLER	1
HE0174766-N	387-4368	CAT 993K, 994K, 994H AMOCS RAD PANEL; REPLACE 223-5121	14

994H

HE0174734-N	387-4367	CAT 844K, 854K, 990K, 992K, 994H AMOCS RAD PANEL; REPLACE 223-5120	13
HE0174766-N	387-4368	CAT 993K, 994K, 994H AMOCS RAD PANEL; REPLACE 223-5121	5
HE0176134-N	592-8472	CAT 994, 994D, 994F & 994H BRAKE/STEERING OIL COOLER; REPLACE 457-5675, 355-1657	1
HE0174767-N	592-8471	CAT 994, 994D, 994F & 994H HYD OIL COOLER; REPLACE 457-5674, 186-0058, 355-1656	1
HE0174768-N	250-8298	CAT994H WHEEL LOADER TRANSMISSION OIL COOLER	1
HE0174769-N	250-8299	CAT994H WHEEL LOADER TRANSMISSION OIL COOLER	1
HE0175892-N	415-8333	CAT 994K CHARGE AIR COOLER	2
HE0175666-N	384-7671	CAT 994K HYDRAULIC & STEERING OIL COOLER	1

16M

HE0174678-N	349-5933	CAT 16M, 966H & 972H CHARGE AIR COOLER TYPE 1 (410 mm WIDTH)	1
HE0174679-N	260-0354	CAT 16M, 966H & 972H CHARGE AIR COOLER (445 mm WIDTH)	1
HE0174680-N	365-6876	CAT 16M, 18M, 24M, 631G & 637G HYD OIL COOLER; REPLACE 239-8530	1
HE0174681-N	256-5311	CAT 16M, 627G, 637G RAD; REPLACE 443-3189, 494-4832	1
HE0175686-N	494-4833	CAT RADIATOR SUITS; 16M-3, 16, 18M & 18	1

HEPI #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
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24M

HE0174684-N	396-9735	CAT 24M CHARGE AIR COOLER; REPLACE 274-7831	1
HE0174685-N	464-9051	CAT 24M MODULAR RAD PANEL; REPLACE 223-8985, 387-4380	3
C33709	457-2391	CAT 24M OIL COOLER	1
HE0175703-N	457-2383	CAT 24M CHARGE AIR COOLER	2

PRODUCT HIGHLIGHT

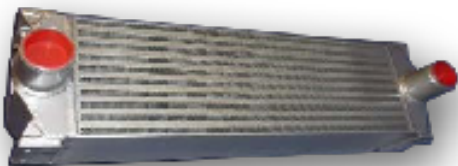
- HEPI manufactures and supplies high-quality, innovative products that can be customized to meet specific customer requirements. With in-house engineering capabilities, HEPI supports customers throughout the entire product life cycle, ensuring the lowest total cost of ownership.
- Its bar and plate product line serves a wide range of industries, offering heavy-duty replacement components suitable for multiple engine configurations. Key benefits include optional custom piping systems, expansion slits that prevent premature cracking, and an open fin design that reduces blockages and simplifies cleaning.

HEPI D10T2 CHARGE AIR COOLER



PRODUCT NAME	HEPI D10T2 CAC
EQUIPMENT SUITABILITY	Caterpillar D10T2 Dozer
HEPI #	C18574

PRODUCT TYPE	Charge Air Cooler (CAC)
SERIAL # RANGE	D10T2 RAB1 onwards, D10T2 JJW1 onwards
OEM PART #	421-4021



PRODUCT NAME	HEPI Radiator Panel
EQUIPMENT SUITABILITY	Caterpillar D11T/R Dozer
HEPI#	C18578
OEM PART #	213-8188

PRODUCT NAME	HEPI Radiator
EQUIPMENT SUITABILITY	Caterpillar 3054C/E Engine
HEPI#	C18445
OEM PART #	236-8741

HEPI #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
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TRUCKS

HD 785-7

HE0175711-A	56E-07-21133	HD785-7 CONDENSER	1
HE0175088-N	561-03-81660	HD785-7 CHARGE AIR COOLER – BAR & PLATE	2
HE0175090-N	561-03-81280	HD785-7 HYDRAULIC OIL COOLER – BAR & PLATE	1
HE0175091-N	561-03-81632	HD785-7 RAD PANEL TYPE 1 – BAR & PLATE	2
HE0175092-N	561-03-81652	HD785-7 RAD PANEL TYPE 2 – BAR & PLATE	1
HE0175093-N	561-03-81642	HD785-7 RAD PANEL TYPE 3 – BAR & PLATE	1
C16938	561-03-81632	KOMATSU HD785-7 RAD PANEL TYPE 1 – DL	2
C16939	561-03-81652	KOMATSU HD785-7 RAD PANEL TYPE 2 – DL	2
C16940	561-03-81642	KOMATSU HD785-7 RAD PANEL TYPE 3 – DL	1



PRODUCT HIGHLIGHT

HEPI HD785-7 COOLING PACK ASSEMBLY

PRODUCT NAME	HEPI Cooling Pack Assembly
EQUIPMENT SUITABILITY	Komatsu HD785-7 Truck
HEPI #	561-03-84300

PRODUCT TYPE	Complete Assembly
SERIAL# RANGE	30001-UP
OEM PART #	N/A

We take pride in our experience and reputation for delivering the highest quality products and service to our clients; assisting you with the design, manufacture and supply of suitable radiator, heat exchanger, or complete module solutions.

ENGINEERING CAPABILITIES

Our Engineering team utilizes 3D modeling and design verification software to design, optimize, engineer and manufacture to meet the customer’s specific cooling requirements. Using computer-aided design software enables us to deliver on new projects faster and more efficiently.

ENGINEERING INNOVATION

At HEPI, we are continuously developing our products to offer innovative solutions that increase productivity through longer service life, more efficient products and time saved through availability.

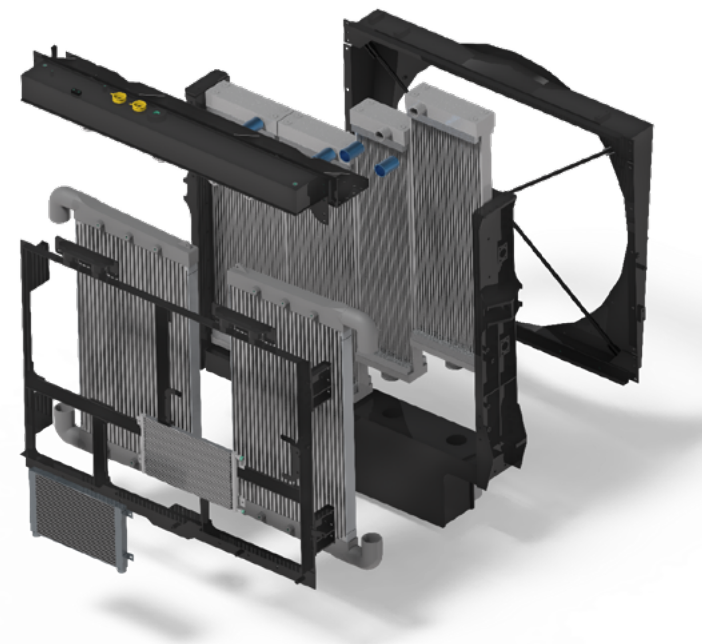
PROPRIETARY SOFTWARE

Using our proprietary software, we can continually improve our bar and plate range to better suit the specific application requirements.

CUSTOM SOLUTIONS

Our experience in application specific solutions assist our customers in avoiding costly machine breakdowns caused by inappropriate or ineffective cooling systems. This results in lower maintenance costs and more machine uptime, increasing productivity.

High quality cooling systems ensure longer machine life expectancy through the reduction of unnecessary overheating machine components. An engineered solution from H-E Parts also generates other potential benefits, including high machine performance through increased efficiency and reduced fuel consumption.



HEPI#	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
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EXCAVATORS

PC 1250

HE0175103-N	21N-03-37412	PC1250-8 HYD OIL COOLER	1
HE0175104-N	21N-03-41110	PC1250LC-8 RADIATOR PANEL	3
HE0175606-N	21N-03-43510	PC1250LC-8 CHARGE AIR COOLER (OEM TANK REQ'D)	1

PC 2000

HE0175118-N	21T-03-31711	PC2000-8 RAD PANEL	3
HE0175652-N	21T-03-31160	PC2000-CHARGE AIR COOLER	1

PC 210

HE0175631-N	2A5-03-25641	PC210 BAR & PLATE	1
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PC 3000

HE0175136-N	95019940	PC3000-6 HYDRAULIC OIL COOLER	1
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PC 4000 / PC 5500

HE0175156-N	95809040	PC4000 & PC5500 HYDRAULIC OIL COOLER	1
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ANCILLARY EQUIPMENT

WA 600

HE0175215-N	426-03-37591	WA600-6 CHARGE AIR COOLER	1
HE0175216-N	426-03-37571	WA600-6 RAD	4

WA 900

HE0175222-N	427-S05-1810	WA800-3, 900-3, 1200-3 & WD900-3 BRAKE OIL COOLER	2
HE0175698-N	427-03-22820	WA900 CHARGE AIR COOLER	

D375

HE0175687-N	195-03-63114	D375A-5 RAD	3
HE0175074-N	195-03-65181	D375A-6 CHARGE AIR COOLER	2

HEPI EXCAVATOR COOLING SOLUTIONS



PRODUCT NAME	HEPI Radiator		
EQUIPMENT SUITABILITY	Komatsu Excavator	PC	2000
HEPI#	C18969		
OEM PART #	21T-03-31711		



PRODUCT NAME	HEPI CAC		
EQUIPMENT SUITABILITY	Komatsu WA 600 Loader		
HEPI#	C19075		
OEM PART #	426-03-37591		

HEPI#	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
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EXCAVATORS

R9350

HE0175239-N	10000392	994B & R9350 HYD OIL COOLER (LGE); PART OF 103271133	1
HE0175240-N	5617986	994B & R9350 HYD OIL COOLER (SML); PART OF 10327134	1
HE0175241-N	5617987	994B & R9350 GEARBOX OIL COOLER; PART OF 10327134	2

R9400

HE0175231-N	11823532	9400 HYD OIL COOLER (LGE); REPLACE 10800651	1
HE0175232-N	11821219	9400 HYD OIL COOLER (SML)	1
HE0175233-N	11821218	9400 GEARBOX OIL COOLER	1

R996

HE0175246-N	5611936	996 HYD OIL COOLER	4
HE0175248-N	5611937	996 SPLITTER BOX OIL COOLER	4

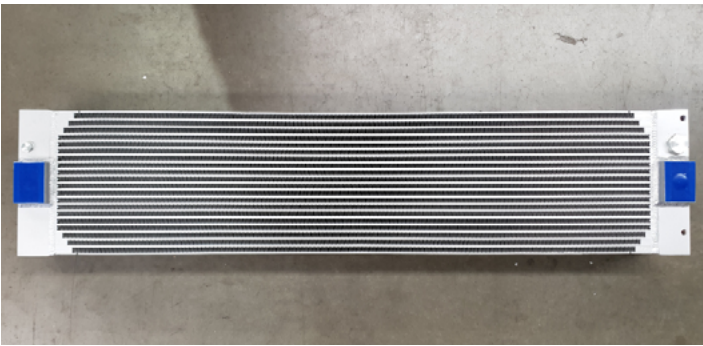
R9800

HE0175234-N	10333648	9800 HYDRAULIC OIL COOLER	1
HE0175236-N	10333649	9800 GEARBOX OIL COOLER - TO SUIT PUMP DRIVE	1

R9600

HE0175917-N	1101378700	R9600 SML OIL COOLER	
HE0175916-N	1101180900	R9600 LGE OIL COOLER	

HEPI EXCAVATOR COOLING SOLUTIONS



PRODUCT NAME	HEPI Splitter Box Oil Cooler
EQUIPMENT SUITABILITY	Liebherr R996 Excavator
HEPI#	C19114
OEM PART #	5611937



PRODUCT NAME	HEPI Gearbox Oil Cooler
EQUIPMENT SUITABILITY	Liebherr R9800 Excavator
HEPI#	C19101
OEM PART #	10333649

HEPI PART #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
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EXCAVATORS

EX1200

C15179	1386-621-1000	HITACHI EX1200-6 CHARGE AIR COOLER (DL)	1
C18753	1381-639-8010 1381-639-8020 1381-639-8030	HITACHI EX1200-6 RAD PANEL	3
C18754	4682425 4682426	HITACHI EX1200 HYD OIL COOLER	2
C18755	4444691	HITACHI EX1200-5 CHARGE AIR COOLER	1
C18758	4658096	HITACHI EX1200 OIL COOLER	1

EX2500 / EX2600

C18760	4427952	HITACHI EX2500-1, EX2500-5 & EX25006 OIL COOLER; REPLACE 9227508	4
C18762	4729782	HITACHI EX2600-6 HYDRAULIC OIL COOLER	2

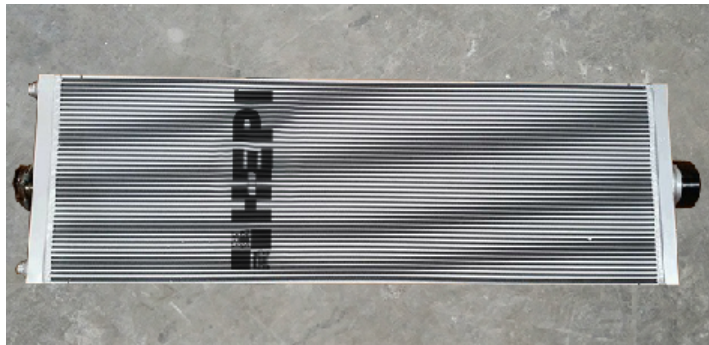
EX3600

C18765	4421620	HITACHI EX3600 HYD OIL COOLER	4
C18766	335611	HITACHI EX3600 OIL COOLER	1

EX5500 / EX5600

C18769	4439687	HITACHI EX1900 & EX5500 HYD OIL COOLER; REPLACE 4412356, 4665529	4
C18770	YA00008446	HITACHI EX5600-6 HYDRAULIC OIL COOLER; REPLACE 10887335	4

HEPI EXCAVATOR COOLING SOLUTIONS



PRODUCT NAME	HEPI Radiator
EQUIPMENT SUITABILITY	Hitachi EX1200 Excavator
HEPI#	C18753
OEM PART #	1381-639-8010 / 1381-639-8020 / 1381-639-8030



PRODUCT NAME	HEPI Oil Cooler
EQUIPMENT SUITABILITY	Hitachi EX1200 Excavator
HEPI#	C18754
OEM PART #	4682425 / 4682426

ATLAS COPCO / EPIROC

HEPI PART #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
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SURFACE DRILL RIGS

FLEXIROC D65

HE0174530-N	D65 COMPRESSOR OIL COOLER	1
HE0174531-N	D65 COMPRESSOR OIL & CHARGE AIR COOLER (DUAL)	1

FLEXIROC T45

HE0175598-N	T45 RAD	1
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ECM 720

HE0174533-N	ECM720 COMPRESSOR OIL COOLER	1
HE0174534-N	ECM720 CHARGE AIR COOLER	1
HE0174535-N	ECM720 HYD OIL COOLER	1
HE0174536-N	ECM720 RADIATOR	1

L7 / L8

HE0174558-N	3222 3313 98	L7 COMPRESSOR OIL COOLER TYPE 1	1
HE0174559-N		L7 COMPRESSOR OIL COOLER (1342mm X 458mm X 140mm)	1
HE0174560-N	3222 3049 48	L7 HYD OIL COOLER	1
HE0174561-N	3222 3178 90	L7 & L8 CHARGE AIR COOLER	1
HE0174563-N	3222 3178 89	L7 & L8 RAD	1
HE0174565-N	3222 3175 51	L8 HYD OIL COOLER TYPE 1	1
HE0174567-N	3222 3175 92	L8 COMPRESSOR OIL COOLER TYPE 2	1
HE0174569-N	4563 419 0000	L8 COMPRESSOR OIL COOLER TYPE 3	1
HE0174570-N		L8 HYD OIL COOLER (1490mm X 305 X 140mm)	1
HE0174571-N	3222 3157 67	L8 COMPRESSOR AUXILIARY COOLER	1
HE0174573-N	3222 3313 22	L7-40, L8-30 & EPIROC D65 COMPRESSOR OIL COOLER	1
HE0174574-N	3222 3313 82	L7-40, L8-30 & EPIROC D65 CHARGE AIR COOLER	1
HE0174575-N	3222 3313 85	L7-40, L8-30 & EPIROC D65 FUEL COOLER	1
HE0174576-N	3222 3313 21	L7-40, L8-30 & EPIROC D65 HYD OIL COOLER	1
HE0174577-N	3222 3313 79	L7-40, L8-30 & EPIROC D65 RAD	1
HE0174595-N		L7 & L7-40CR COMPRESSOR OIL COOLER (1090mm X 1020mm X 140mm)	1

D65

HE0175633-N	OIL COOLER TYP 1 1090 X 478 X 140mm, 4 PORTS	1
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DRILL RIG COOLING SOLUTIONS

HEPI IS A LEADING PROVIDER OF RELIABLE, APPLICATION SPECIFIC HEAT TRANSFER SOLUTIONS. H-E PARTS MANUFACTURE AND SUPPLY HIGH QUALITY, INNOVATIVE PRODUCTS THAT ARE TAILORED TO OUR CUSTOMERS SPECIFIC REQUIREMENTS. H-E PARTS IN-HOUSE ENGINEERING, PRODUCT AND SERVICE OFFERINGS, GUARANTEE WE SUPPORT CUSTOMERS THROUGHOUT THE FULL PRODUCT LIFECYCLE AND ENSURES THE LOWEST TOTAL COST OF OWNERSHIP IS ACHIEVED.

Hagstrom Drilling approached HEPI with overheating issues relating to a possible engine fan and radiator concern in their Morooka MST 1500 Drill Rig. This machine is designed and manufactured in Japan where the ambient temperatures are approximately 30° C / 86° F. Most Australian industrial sites average 50 °C / 122 ° F.

After struggling with this issue for many years working in these high temperature areas, it was apparent that the fan and radiator required urgent assessment. In addition to the radiator and fan assessment, the question was asked what options were available to improve/increase the cooling capacity of the hydraulic system.

HEPI offered three improvements for the customer:

- Re-build the radiator with a high efficiency core to better suit the high ambient temperatures
- Redesign a replacement fan suitable to the engine and capable of cooling at high ambient temperatures
- Custom designed a hydraulic oil cooling package including 4 x 24V electric thermo fans removing the need for the two existing under capacity units

HEPI replaced the radiator core with a more efficient core that allows for a larger cooling capacity with better airflow. In combination with the radiator re-build, HEPI worked closely with Multi-Wing to redesign a suitable replacement fan that provides higher airflow. The radiator and fan combination work better to achieve a more efficient cooling solution, better suited to Australia’s ambient temperatures of 50 °C / 122 ° F.

HEPI also supplied a hydraulic oil cooling pack, which was a combination of a heavy-duty aluminum bar and plate oil cooler, 4 thermo fans and fan housing. The hydraulic cooler design will attach to the side of the machine providing superior cooling for the hydraulic oil circuit.

HEPI offered the customer a timely solution that reduced associated costs with equipment downtime while being considerate of their time constraints.

More HEPI case studies can found on our website under the whitepaper and resource sections.

LOCATION	Western Australia
APPLICATION	Morooka MST 1500 Drill Rig
PRODUCT	HEPI Hydraulic Cooler



HEPI#	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
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ROTARY BLASTHOLE DRILL RIGS

ROC F9 / ROC F9-11

HE0174538-N		F9 CHARGE AIR COOLER	938mm x 300mm x 140mm	1
HE0174539-N		F9 RAD	940mm x 565mm x 140mm	1
HE0174540-N	3222 2901 90	F9-11 COMPRESSOR OIL COOLER	1040mm x 418mm x 113mm	1
HE0174541-N		F9-11 CHARGE AIR COOLER	940mm x 295mm x 140mm	1
HE0174542-N		F9-11 HYD OIL COOLER	1040mm x 449mm x 113mm	1
HE0174543-N		F9 -11 RAD	940mm x 570mm x 140mm	1

DM45 / V

* & INGERSOLL RAND

HE0174532-N		DM45E HYD OIL COOLER	1640mm x 645mm x 140mm	1
HE0174984-N		DM45 COMPRESSOR OIL COOLER *	1575mm x 807mm x 140mm	1
HE0174985-N		DM45 HYD & COMPRESSOR DUAL OIL COOLER *	1490mm x 1448mm x 140mm	1
HE0174986-N		DM45 HYD OIL COOLER *	1573mm x 576mm x 140mm	1
HE0174987-N		DM45 HYD OIL COOLER C18825 in ASSEMBLY *		1
HE0174988-N		DM50 COMPRESSOR OIL COOLER *	1828mm x896mm x 140mm	1
HE0174989-N		DM50 COMPRESSOR OIL COOLER C18828 IN ASSEMBLY *		1

PV-235

HE0174586-N		PV235 HYD OIL COOLER	1640mm x 930mm x 140mm	1
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PV-271 / PV-275

HE0174587-N	2657 9018 94	PV27 &DML60 CHARGE AIR COOLER TYPE 1 (LEFT)		1
HE0174588-N	2657 9019 02	PV271 & DML60 CHARGE AIR COOLER (RIGHT)		1
HE0174589-N		PV271 & PV275 FUEL COOLER	750mm x 508mm x 40mm	1
HE0174590-N	2658 6351 43	PV271 & PV275 OIL COOLER	1598mm x 450mm x 140mm	1
HE0174591-N	2657 8949 66	PV271, PV275 & DML60 COMPRESSOR OIL COOLER	1640mm x 895mm x 140mm	1
HE0174593-N	2657 8949 74	PV271, PV275 & DML60 HYD OIL COOLER	1640mm x 780mm x 140mm	1
HE0174594-N	2657 8004 50	PV271, PV275 & DML60 RAD	1715mm x 770mm x 140mm	1

HEPI R2900 RADIATOR ARRANGEMENT

PRODUCT NAME	HEPI R2900 Radiator
EQUIPMENT SUITABILITY	Caterpillar R2900 Underground Loader
HEPI PART #	C30992 (C30919 without frame)

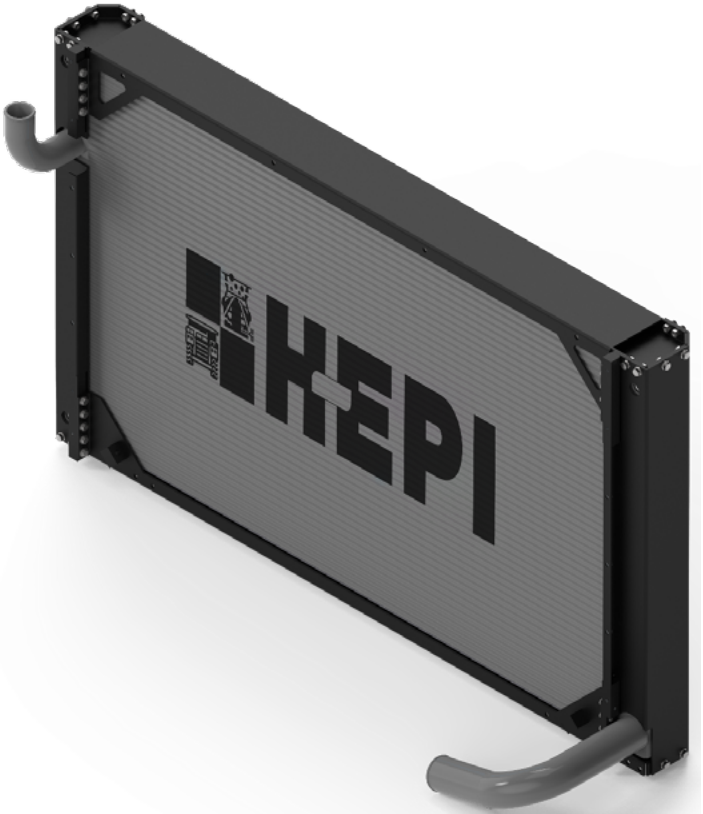
HEPI manufactures and supplies high quality, innovative HEPI products that can also be tailored to our customers’ specific requirements. H-E Parts in-house engineering, HEPI product and associated service offerings, guarantee we can support customers throughout the full product life cycle while working to award the end user with the lowest total cost of ownership.

FEATURES AND BENEFITS

With our extensive range and abilities of our HEPI bar and plate product line, we are able to supply replacement components for a variety of customers across a range of industries. Benefits of this product line include a combination of the below features:

- Heavy duty bar and plate design to suit multiple engine configurations
- Corner block reinforcements prevent premature failure of end tubes
- Anodized cores and aluminum for extended service life resulting in less downtime and resistant to corrosion
- Sideband expansion slits allow the core to expand and contract evenly to prevent premature cracking
- Enhanced external open fin design to prevent blockages and ease cleaning
- A range of customized seals, clamps, blanking plates, end caps and other accessories

PRODUCT TYPE	Radiator
SERIAL # RANGE	ZLK1-UP
OEM PART #	529-6144



UNDERGROUND EQUIPMENT

HEPI PART #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
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CATERPILLAR

R1700

HE0175383-N	166-2347	CAT R1700 HYD OIL COOLER	1
HE0175384-N	7E-4136	CAT R1700G & R2900G BRAKE OIL COOLER	1
HE0175385-N	166-2374	CAT R1700G & R2900 HYD OIL COOLER	1

R2900

HE0175389-N	481-2591	CAT R2900G OIL COOLER; REPLACE 293-3085	1
HE0175684-N	330-5033	CAT R2900 CHARGE AIR COOLER	1
HE0175384-N	7E-4136	CAT R1700G & R2900G BRAKE OIL COOLER	1
HE0175599-N	529-6144	CAT R2900G RADIATOR	

ATLAS COPCO / EPIROC

MT426

HE0174578-N		MT426 HYD OIL COOLER	1
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MT5010 / MT6020

HE0174579-N	5574 2362 00	MT5010 & MT6020 AUXILIARY OIL COOLER,	1
HE0174580-N		MT5010 & MT6020 DROPBOX COOLER ONLY	1
HE0174581-N		MT5010 & MT6020 DROPBOX COOLER; 12V ASSY	1
HE0174582-N	5541 0255 00	MT5010 & MT6020 DROPBOX COOLER; 24V ASSY	1
HE0174585-N	55407808000	MT6020 HYDRAULIC OIL COOLER	1

MT65

HE0175596-N	5508 0260 09	MT65 UP COOLER PART OF 5508 0263 08	1
HE0175608-N	5590 0168 96	MT65 DROPBOX COOLER CO4 PART OF 5590 0170 93	1
HE0175609-N	5590 0168 96	MT65 DROPBOX COOLER CO7 PART OF 5590 0170 93	1
HE0175931-N	6060010824	MT65 UPBOX	1
HE0175932-N	6060010823	MT65 HYDRAULIC OIL COOLER	1
HE0175650-N	6060002646	MT65 CHARGE AIR COOLER	1
HE0175926-N	1102237100	MT65 HYDRAULIC OIL COOLER	1
HE0175596-N	5580026308	MT65 HYDRAULIC OIL COOLER	1

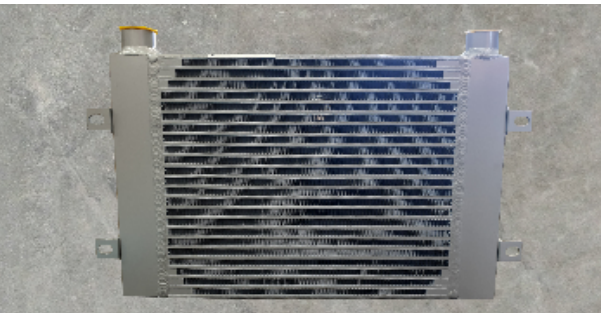
ST18

HE0175630-N		ST18 OIL COOLER W/ PRESSURE RELIEF BLOCK	1
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ST1030B

HE0174596-N		ST1030B HYD OIL COOLER (PART OF C18342)	1
HE0174597-N		ST1030B TRANS OIL COOLER (PART OF C18342)	1

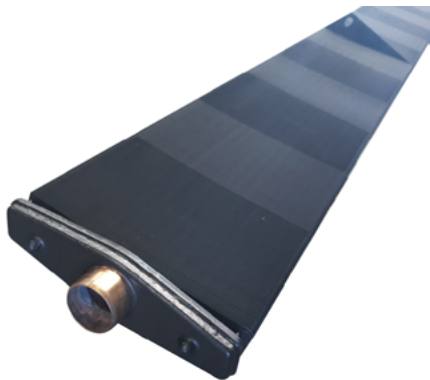
HEPI UNDERGROUND COOLING SOLUTIONS



PRODUCT NAME	HEPI Oil Cooler
EQUIPMENT SUITABILITY	Atlas Copco / Epiroc MT5010 / MT6020 Underground Truck
HEPI#	C18326
OEM PART #	N/A

CATERPILLAR FOLDED CORES

HEPI PART #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
HE0135756-A	2W0181	CAT RAD PANEL FOR 785B, 785C, 785D, 789B, 793C etc...	26
HE0176331-A	2W5539	CAT RAD PANEL FOR 789C, 793B, 793C etc...	58
HE0051177-A	2W5540	CAT RAD PANEL FOR 16H, 793C etc...	60
HE0176333-A	2W6632	CAT RAD PANEL FOR 797B, D10N etc...	40
HE0058175-A	7W2173	CAT RAD PANEL FOR 777C, 777D, 797B etc...	23
HE0176335-A	9Y3318	CAT RAD PANEL FOR 789D, 795F etc...	58



SEALS

HEPI PART #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
HE0176337-A	272-5437	CAT SEAL (SMALL), SUIT 777D, 793D, 980H etc...	20
HE0176338-A	272-5438	CAT SEAL (LARGE), SUIT 777D, 793D, 980H etc...	20
HE0174794-N	6i-2431	CAT SEAL FOR AMOCS RAD PANEL, SUIT 992K, 993K, 994H etc...	20
HE0133526-A	160-6387	CAT SEAL FOR FOLDED CORES PANEL (LONG), SUIT 777D, 789D, 793C etc...	50
HE0133525-A	160-6386	CAT SEAL FOR FOLDED CORES PANEL (SHORT), SUIT 777D, 789D, 793C etc...	50



HEPI COOLING END CAPS

HEPI PART #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
C30805	N/A	1-3/4"	N/A
C30806	N/A	2"	N/A
C30810	N/A	3"	N/A
C30811	N/A	3.5"	N/A
C30812	N/A	4"	N/A
C30813	N/A	4.5"	N/A
C30814	N/A	5"	N/A
C30815	N/A	5.5"	N/A
C30816	N/A	6"	N/A

VINYL PORT COVER

HEPI CLAMPS

HEPI PART #	OEM PART #	FULL DESCRIPTION	QTY PER MACHINE
C14329	8T-4983	32 - 54mm 200L STAINLESS STEEL CONSTANT TORQUE	N/A
C14330	8T-6703	45 - 67mm 250L STAINLESS STEEL CONSTANT TORQUE	N/A
C14331	8T-4984	57 - 79mm 300L STAINLESS STEEL CONSTANT TORQUE	N/A
C14332	N/A	70 - 92mm 350L STAINLESS STEEL CONSTANT TORQUE	N/A
C14333	8T-4985	83 - 105mm 400L STAINLESS STEEL CONSTANT TORQUE	N/A
C14334	3X-2201	95 - 118mm 450L STAINLESS STEEL CONSTANT TORQUE	N/A
C14335	8T-4986	108 - 130mm 500L STAINLESS STEEL CONSTANT TORQUE	N/A
C14336	9X-6654	121 - 143mm 550 L STAINLESS STEEL CONSTANT TORQUE	N/A



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HEPI



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Cooling Solutions

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