



NEW PRODUCT SPEC SHEET

Model Number: R7

- Recommend for Intel® Romley- EP / EX Platform, Sandy Bridge Processor, Socket LGA 2011
- Active Cooler by Vertical-Blowing for Workstation, 2U Server & up

Overall Specification:

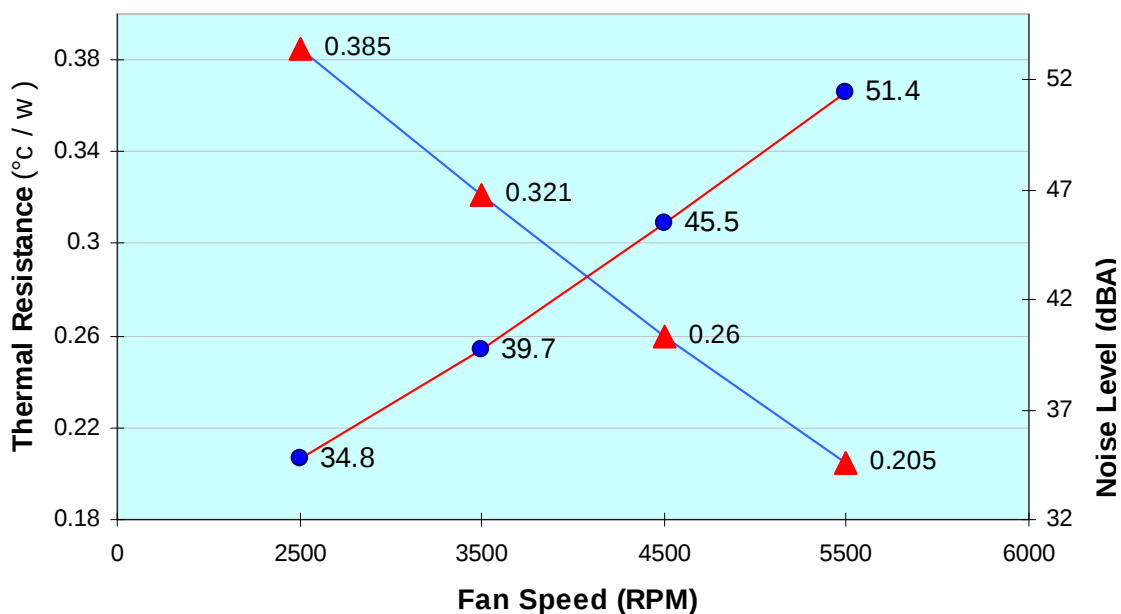
- Dimension: L x W x H 94.0mm x 89.5mm x 64.0mm (H 67.5 mm with Fan Guard)
- Weight: 460g $\pm$ 5g
- 7720 Down-Blowing Fan with PWM Function
- Material: Copper Base & Aluminum Fins with Heat Pipes Embedded
- Convenient Heat Sink Captive Mounting
- Thermal Grease Shin-Etsu G751 Pre-printed
- Backing Plate is not Included
- Support CPU Power up to 130 Watts

Fan Specification:

- Model Number: DF127720BH-PWMG
- Dimension: 77 x 77 x 20 mm
- Bearing: Double-Ball
- Rated Voltage: 12V
- Rated Speed:
 - o At Duty Cycle 0~20%: 1000 $\pm$ 15% RPM
 - o At Duty Cycle 50%: 2600 $\pm$ 10% RPM
 - o At Duty Cycle 100%: 5500 $\pm$ 10% RPM
- Rated Power:
 - o At Duty Cycle 0~20%: 0.54 W
 - o At Duty Cycle 50%: 1.68 W
 - o At Duty Cycle 100%: 9.0 W

- Maximum Airflow:
 - o At Duty Cycle 0~20%: 8.36 CFM
 - o At Duty Cycle 50%: 25.5 CFM
 - o At Duty Cycle 100%: 53.90 CFM
- Acoustical Noise:
 - o At Duty Cycle 0~20%: 20.6 dBA
 - o At Duty Cycle 50%: 35.1 dBA
 - o At Duty Cycle 100%: 51.4 dBA
- Rated Static Pressure:
 - o At Duty Cycle 0~20%: 0.240 mm-H₂O
 - o At Duty Cycle 50%: 1.250 mm-H₂O
 - o At Duty Cycle 100%: 5.591 mm-H₂O
- Lead Wire Pin Out:
 - o Pin#1-Black(-)
 - o Pin#2- Yellow(+)
 - o Pin#3- Green (Tachometer/ Signal Output)
 - o Pin#4- Blue (PWM)

Active Cooler R7 Cooling Performance VS. Airflow & Noise:

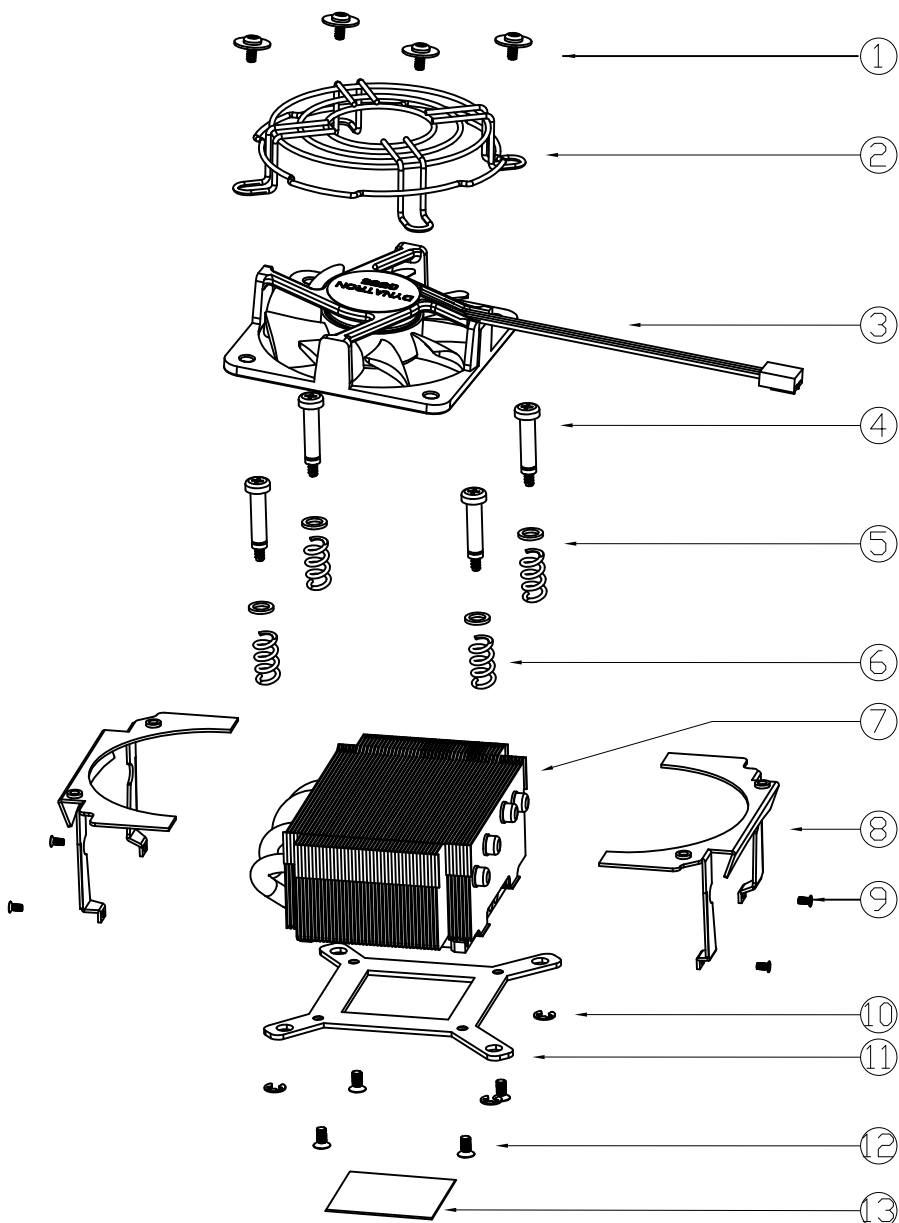
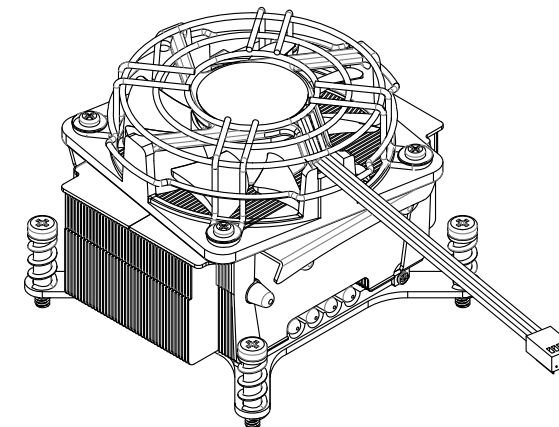


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COOLER ASSEMBLY

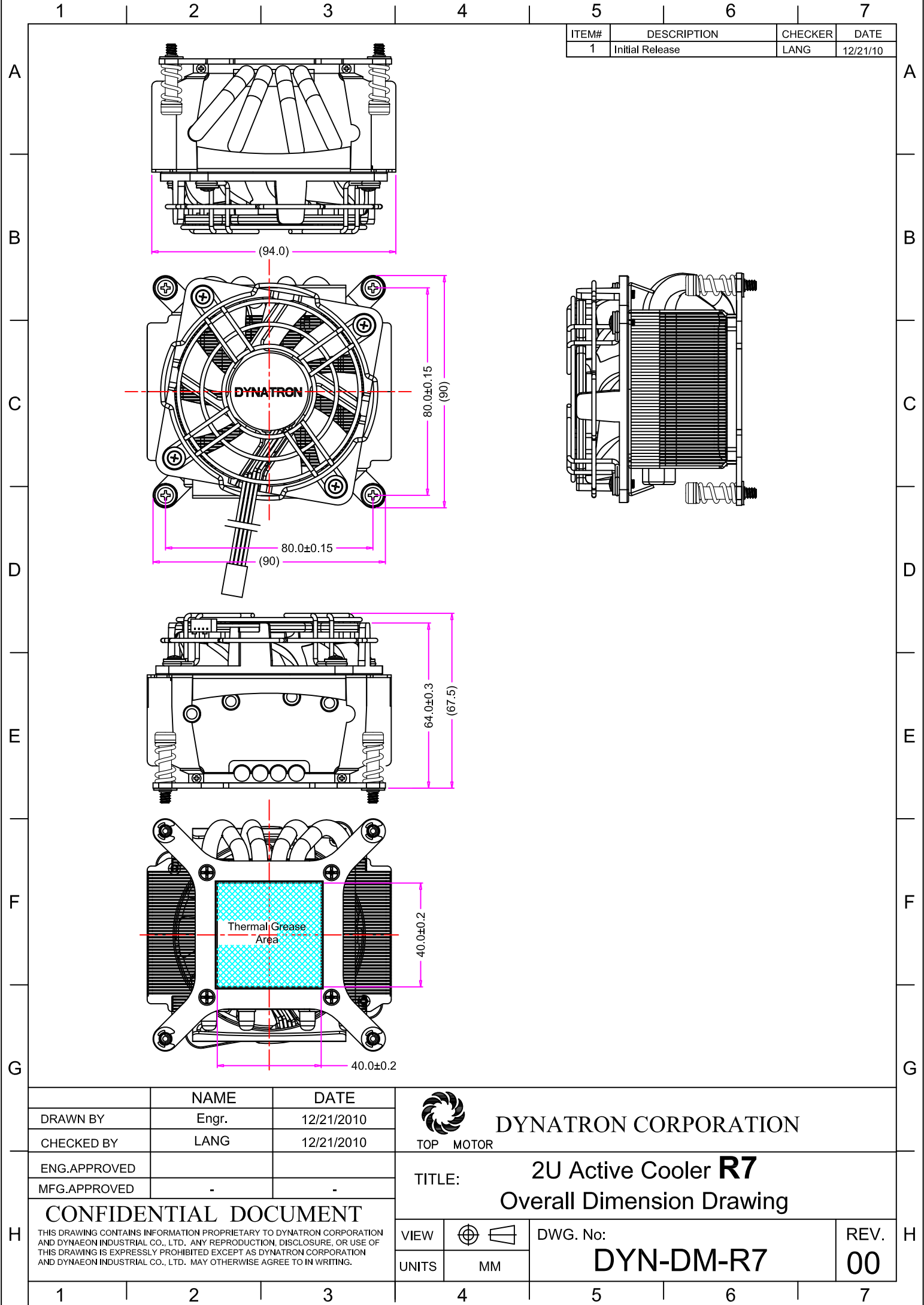
WHOLE SET OF COOLER



NOTE:
 1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE
 2. OVER ALL DIMENSION: 94.0mm x 89.1mm x 64.0mm
 3. HEATSINK DIMENSION: 94.0mm x 81.0mm x 43.0mm

13	THERMAL GREASE, PRE-PRINTED	SHIN-ETSU G751	1
12	SCREW, RETENTION	STEEL	4
11	RETENTION	STEEL	1
10	C-RING	STEEL	4
9	SCREW, FAN COVER	STEEL	4
8	FAN COVER	ALUMINUM	2
7	HEATSINK	AL. FIN+HEATPIPE	1
6	SPRING, HEATSINK	SWP (890G)	4
5	WASHER, HEATSINK	STEEL	4
4	SCREW, HEATSINK	STEEL<740G>	4
3	FAN, DF127720BU-PWM (6000RPM)	PLASTIC	1
2	FINGER GUARD	STEEL	1
1	SCREW, FAN	STEEL	4
ITEM#	DESCRIPTION	MATERIAL	QTY.

DATE		NAME	 DYNATRON CORPORATION TOP MOTOR
DRAWN	12/21/10	Engr.	
CHECKED	12/21/10	Lang	
ENG. APPR.			
MFG. APPR.			
COMMENTS:			TITLE: 2U Active Cooler R7 BOM & Exploded Assembly Drawing DWG. No: DYN-EP-R7
			REV 00



ITEM#	DESCRIPTION	CHECKER	DATE
1	Initial Release	LANG	12/21/10

	NAME	DATE
DRAWN BY	Engr.	12/21/2010
CHECKED BY	LANG	12/21/2010
ENG. APPROVED		
MFG. APPROVED	-	-

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DYNATRON CORPORATION

TOP MOTOR

TITLE: 2U Active Cooler **R7**
Overall Dimension Drawing

VIEW	
UNITS	MM

DWG. No:	DYN-DM-R7
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REV.	00
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