P/N: EXT-440CU

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Specifications Sheet

Generated: 2026-11-11

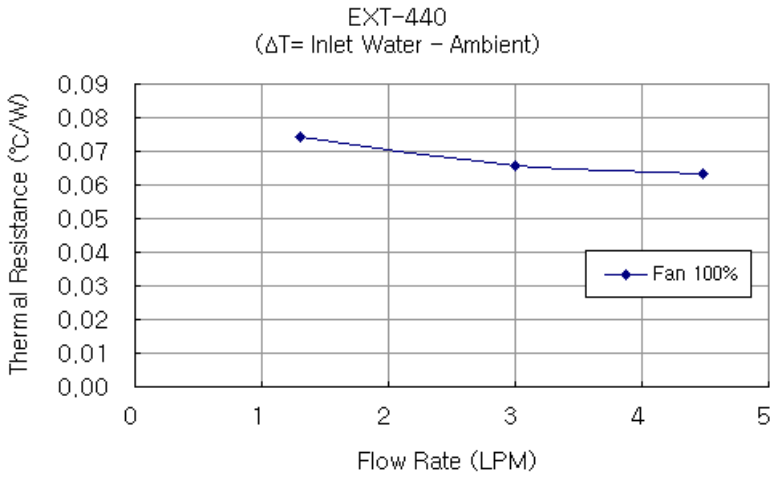
EXT-440CU Computer Liquid Cooling System, Rev3.0

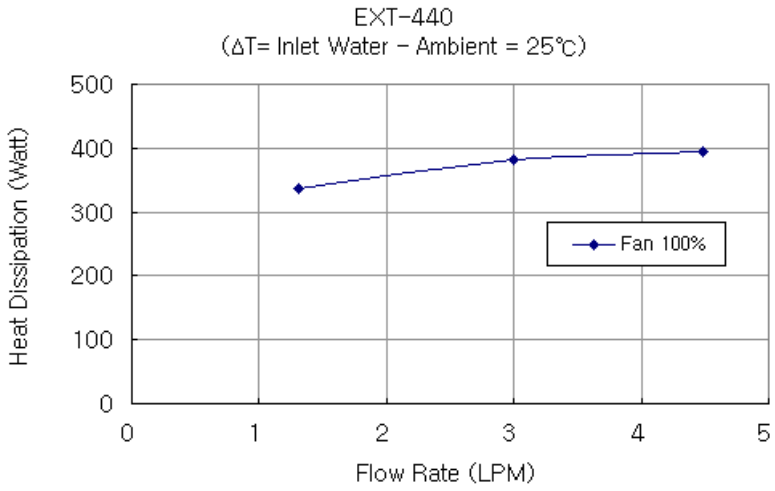


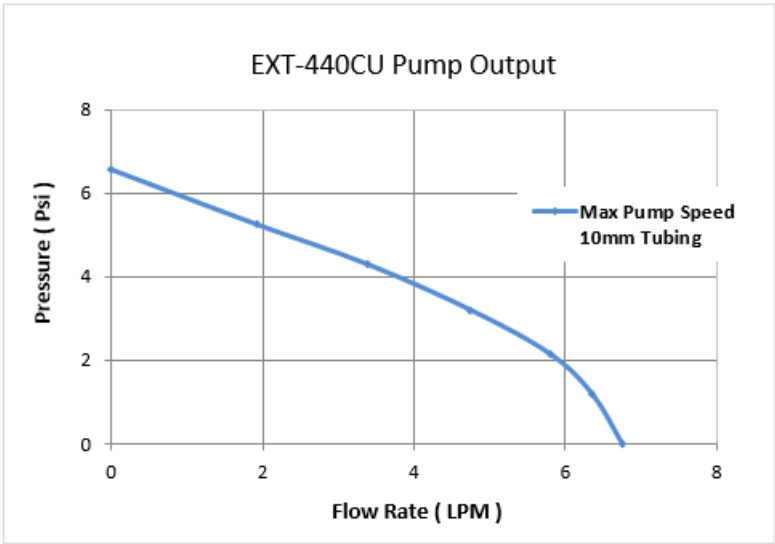
EXT-440CU is a compact ambient liquid cooling system designed with features for computer cooling. This model contains a single x 120mm fan copper/brass radiator, providing roughly 400W of cooling with a 25°C ambient delta. Just add tubing, fittings, coolant, and connect to your cold plate(s).

- Cooling capacity: 400W (1365BTU/hr) with 25°C liquid-ambient delta @ 6.5LPM
- Radiator fan speed: automatic based on temperature, or 10 manual levels
- Pump: 10 manual levels, up to 6.5LPM (1.7GPM)
- Adjust audio alarm based on 3 included temperature sensors
- Relay trigger can be adjusted based on temperature
- Power input: 12VDC (via computer Molex plug), or 110/220VAC with separate adapter
- Reservoir capacity: 157ml (5.3 fl oz)
- G 1/4 BSPP threads on back for fittings

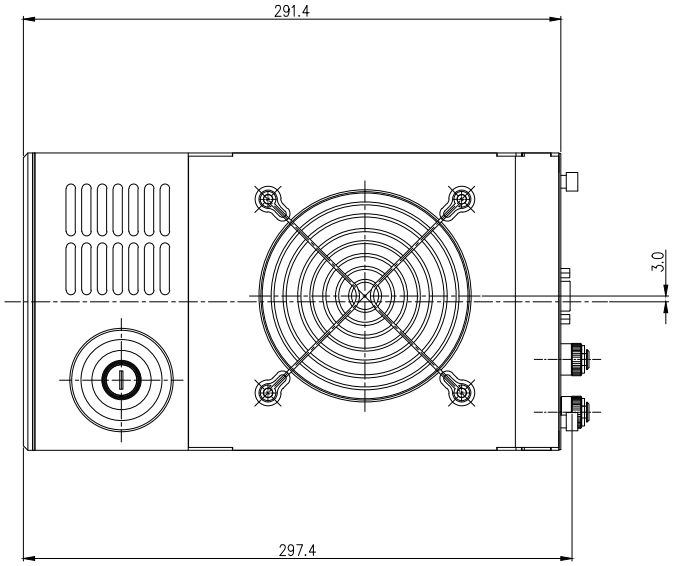
General	
Weight	5.50 lb (2.49 kg)
Fitting Thread	G 1/4 BSPP
Max Pressure Tolerance @ 25°C	1.5kgf/cm2 (21.3psi)
Max Temperature Tolerance	60°C (140°F)
Min Temperature Tolerance (*No Freezing)	-20°C (-4°F)
Noise (dBA)	34-44
Cooling Systems	
Cooling Capacity	400W (1365BTU/hr) @ 25°C liquid-ambient (25°C dT)
Display Type	LED
Max Flow Rate (10-13mm ID)	6.5LPM (1.7GPM)
Max Power Consumption	18W
Max Static Pressure (10-13mm ID)	0.46kgf/cm2 (6.5psi)
Power Source	12 VDC (110/220 VAC with Separate Adapter)
Radiator	Brass/Copper, 1 x 120mm fan
Temperature Sensors	10K Thermistors

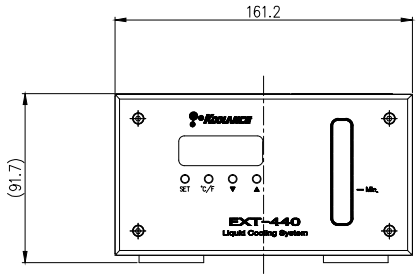

EXT-440
(ΔT= Inlet Water - Ambient)
Thermal Resistance (℃/W)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
1
2
3
4
5
Flow Rate (LPM)
Fan 100%

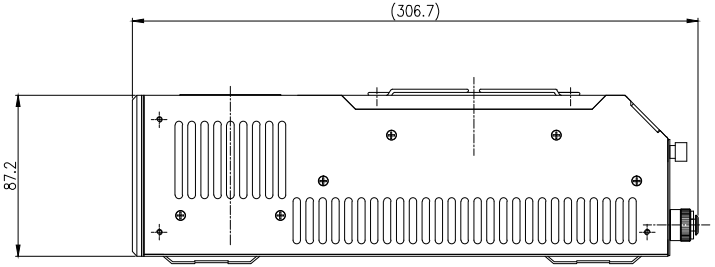

EXT-440
(ΔT= Inlet Water - Ambient = 25℃)
Heat Dissipation (Watt)
500
400
300
200
100
0
0
1
2
3
4
5
Flow Rate (LPM)
Fan 100%

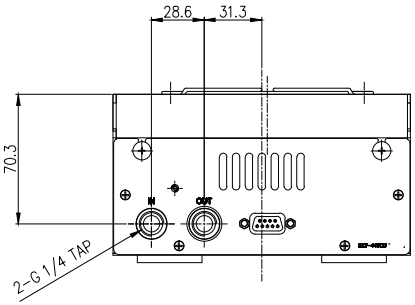

EXT-440CU Pump Output
Pressure (Psi)
8
6
4
2
0
0
2
4
6
8
Flow Rate (LPM)
Max Pump Speed
10mm Tubing

File









NO.	DESCRIPTION				MATER'L	QUANTITY	REMARKS
KOOLANCE					UNIT MM	ITEM EXT-440CU REV2.0	
	BY	BY	BY	APPRO. BY	SCALE N/S	TITLE Ass'y	
DATE					3RD ANGLE		
JAN.04.2019	S.J.LEE				CODE NO.	DWG. NO.	PAGE