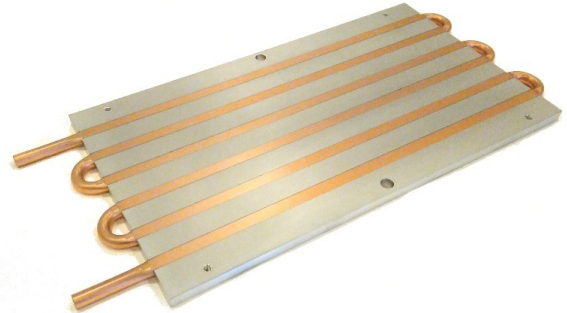


Triton Water Cooled Cold Plate

3L Power part number
MEC-000081



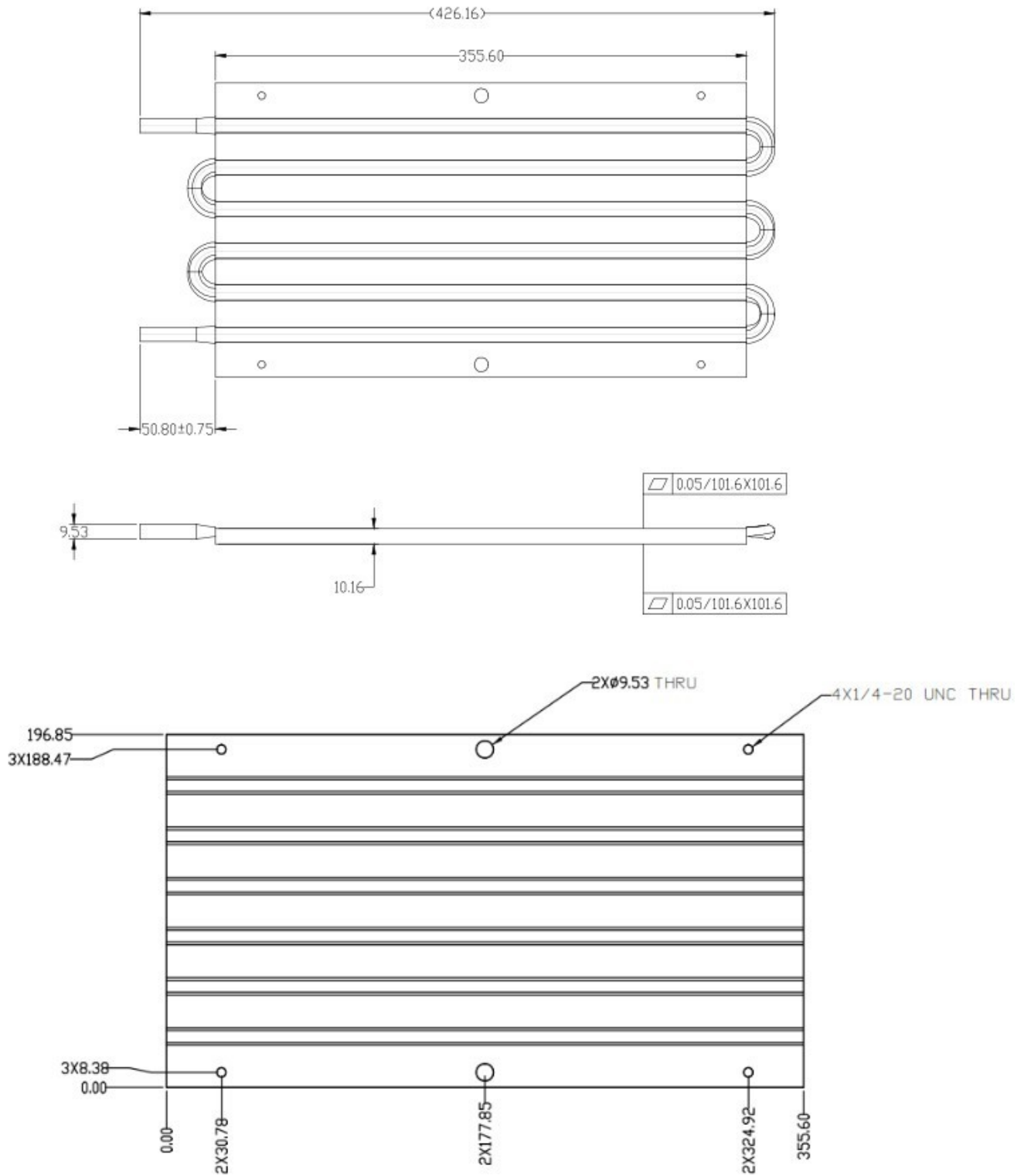
Description

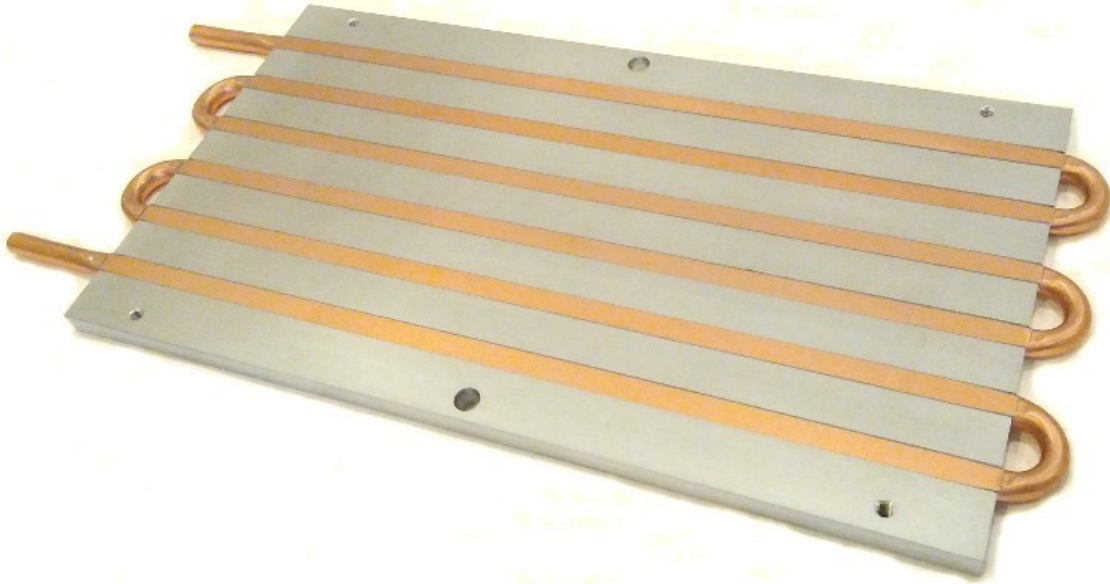
The Triton line of motor drives are three-phase motor drives optimized for high frequency switching operation (>100 kHz). The drives' advanced materials technology requires less cooling than previous generations of drives, and the Triton drive can typically receive adequate cooling by being bolted to a hull or other passive heatsink.

Where no suitable heatsinks are present, the Triton Water Cooled Cold Plate is specifically designed for use with Triton drives and only require about 1 gal/min of water flow (35C water) to adequately cool the Triton drive at full power. When ordered with a Triton drive, the heatsink is coated in thermal grease and bolted to the drive (preinstalled) so that the heatsink and drive are delivered as a package.

If the heatsink is not preinstalled at the factory, it is recommended that thermal grease with conductivity > 3 W/mK is used between the cold plate and drive. Four 3/4" 1/4-20 stainless steel bolts are used to attach the cold plate to the drive. Recommended torque is 50 in-lbs. Two through-holes exist for package mounting, if required. Dimensions are shown in millimeters below.

Liquid coolant connections are made via the 3/8" OD inlet and outlet tubes. Since adequate flow rates can be met with differential pressure between 1 and 2 psi., in many cases, simple connections can be made to the inlet/outlet tubes using flexible tubing and hose clamps.





More information on the Triton family of drives is available at www.3LPower.com.