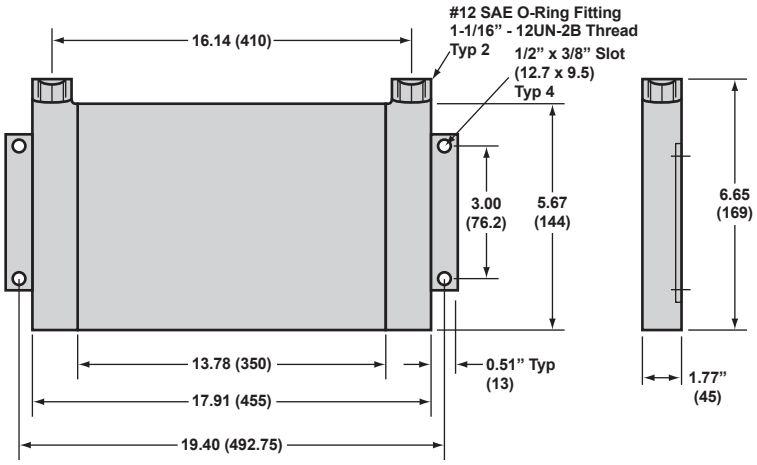
HPTO System Components

Product Specification Sheet

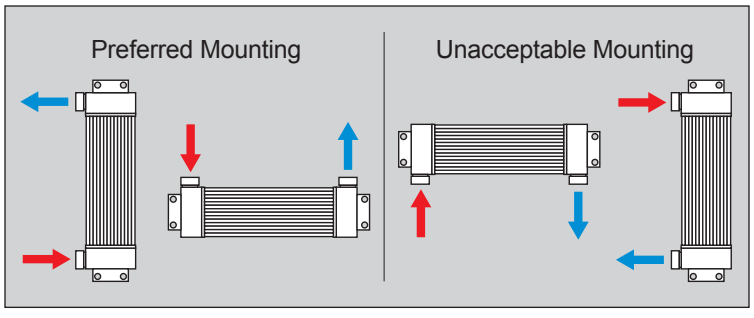
Compatible with HPTO12W

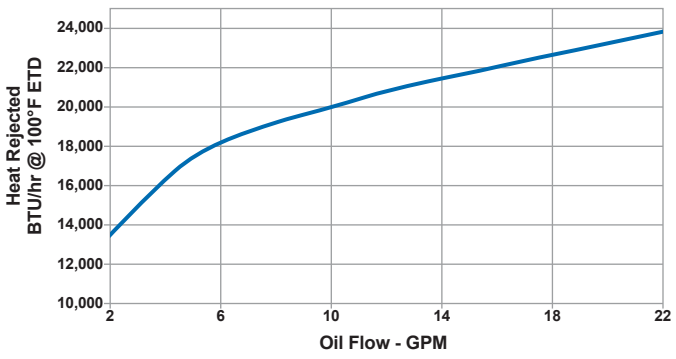
Cooler

PT Tech Part Number:	CHYFC-006
Manufacturer:	AKG Thermal Systems, Inc.
Manufacturer Part Number:	C-8
Construction:	Bar & Plate, Aluminum
Maximum Working Pressure:	250 psi (17.2 Bar)
Maximum Working Temp.:	250°F (121°C)



Note: Oil Ports may be reversed
We reserve the right to change dimensions without notice





NOTE: This cooler does not contain a cold weather bypass feature. If ambient air temperature is below 32°F (0°C) for extended periods of time, a cold weather bypass may be required to prevent exceeding the cooler's pressure rating.

Note: ETD = Entering Oil Temperature - Entering Air Temperature

Storage

Product should be stored in a dry area that has a constant temperature.

Temperature changes in the storage area cause condensation to form inside the heat exchanger. This condensation then causes corrosion which causes product failure. This failure is not covered by the guarantee.

If this criteria cannot be met, the cooler should be stored in a sealed plastic bag with disiccant added to absorb the moisture.

Storage Term:

6 Months: no specific internal corrosion protection procedures are required. All openings should be sealed with plastic plugs.

7-24 Months: Coolers should be flushed with oil and all openings re-sealed with plastic plugs.

25+ Months: Coolers should be completely filled with oil and sealed. These coolers should be flushed, inspected and re-sealed every 24 months.

Installation

Mounting: The cooler should be mounted in such a fashion that there is no restriction to the cooling air supply. Recirculation of warmed up air must be avoided. If mounted in a closed area, sufficient ventilation must be provided. Corrosive atmospheres can cause premature failure. If mounted in a location where ambient temperature may be quite cold, allowance has to be made for high oil viscosity, and potential freeze-up. A temperature controlled by-pass valve or an additional oil heating system may be installed. Care should be taken to select a location that has reasonably clean colling air. Dirty air fouls the unit and causes overheating. The cooler should be securely mounted to avoid injury.

Piping: All piping must be properly supported to prevent strain to the cooler. Pipe sizes should be based on the oil flow and pressure drop requirements, not the oil coolers connection size. Where excessive vibration may be a concern, flexible connectors should be used to eliminate stress.

Maintenance

Inspect the product regularly for corrosion, and dirty or clogged heat transfer surfaces.

External Cleaning: This can be done by either washing the cooler with a mild cleaner (compatible with aluminum), or with compressed air. A power spray washer works well. Care should be taken not to damage the fins. Do not use caustic cleaners.

Internal Cleaning: The cooler should be disconnected, and a cleaner suitable for removing the type of deposit, yet safe on aluminum should be recirculated through the cooler until clean. Make sure that they are flushed thoroughly after cleaning. If may help to blow the unit out with compressed air.

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