Mission-Critical Process Cooling System

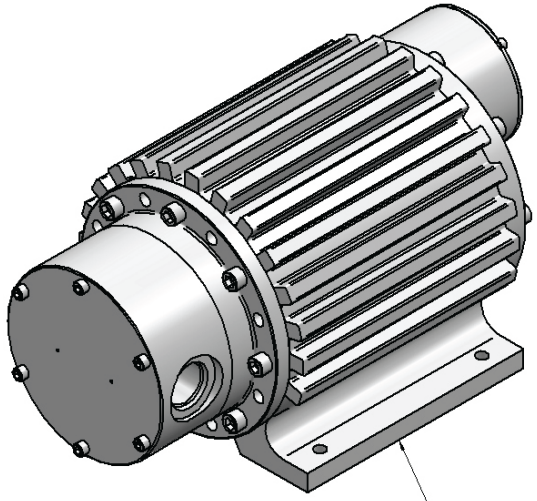
The modularized refrigerant based cooling system provides precision cooling to high-heat density areas typical of data centers, high energy medical devices, and critical process equipment. The cooling modules are configurable to suit a wide variety of site specific applications where floor space is a premium, including overhead, rack mounted, and in-line module placement.

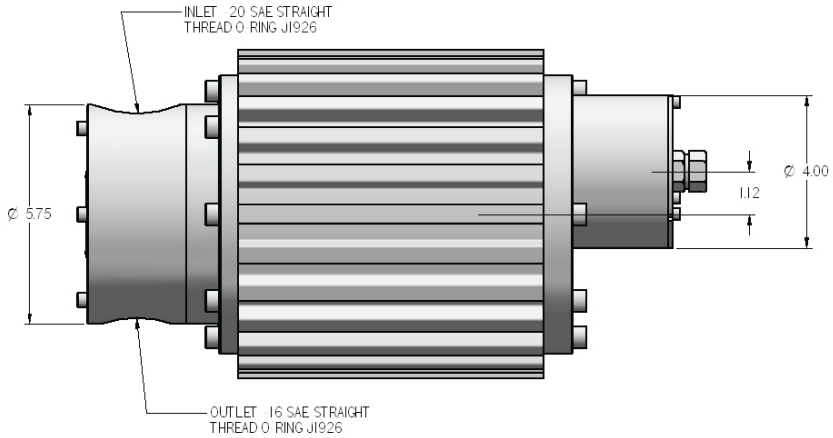
Pump Description:

The positive displacement pump assembly includes a gerotor type pump element driven by a multi-coil, three phase motor, capable of 460/230 VAC 60 Hz or 380/415 VAC 50 Hz operation, and UL certified for use in R-134a refrigerant. The motor and pump element are contained in a semi-hermetic housing system capable of withstanding 5X normal operating pressurei without catastrophic failure. The motor housing is constructed from an extrusion to provide an attractive as well as consistently leak-free and rugged product. The pump housings are hard anodized per AMS 2469D, Teflon impregnated for wear resistance. The motor housing, rear end-bell and electrical enclosure will be anodized per MIL-A-8625F.

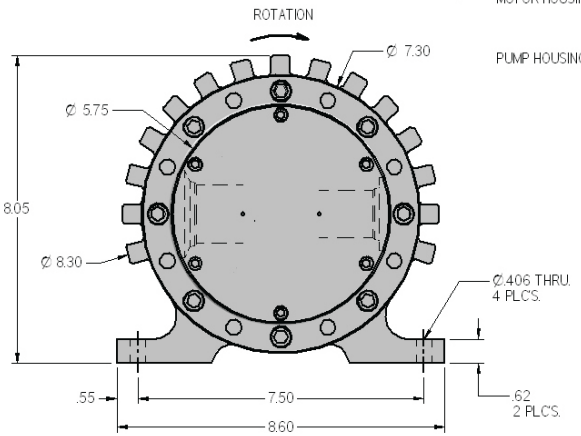
Selected Performance Data:

Fluid	R134a/R410a compatible
Flow Rate	18 GPM
Operating Pressure	40 PSID
Ambient Temperature	35 to 120 deg-F
Burst Pressure	430 psig
Construction	Hermetic
Drive Motor	Integral, 3-ph, 460/380/230 VAC

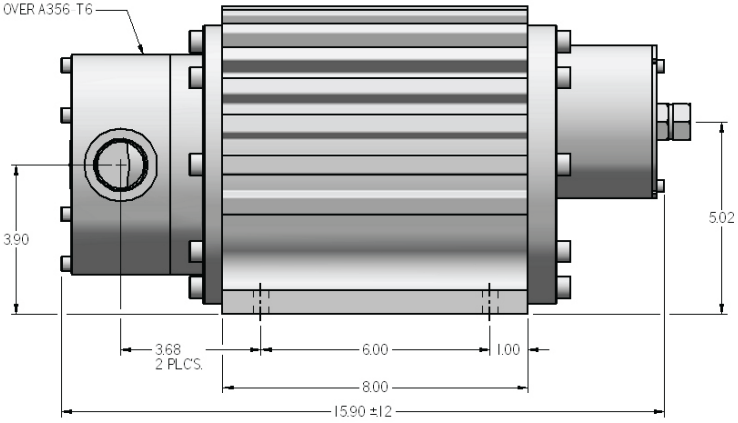




MOTOR HOUSING: CHROMIC ANODIZE OVER 6061-T6



PUMP HOUSINGS: HARD ANODIZE OVER A356-T6



CASE STUDY CS-156 REFRIGERANT PUMP