

# SHELLCOOL

Optimize Performance, Ensure Reliability

## Choose flexaseal shellcool for your heat exchange requirements

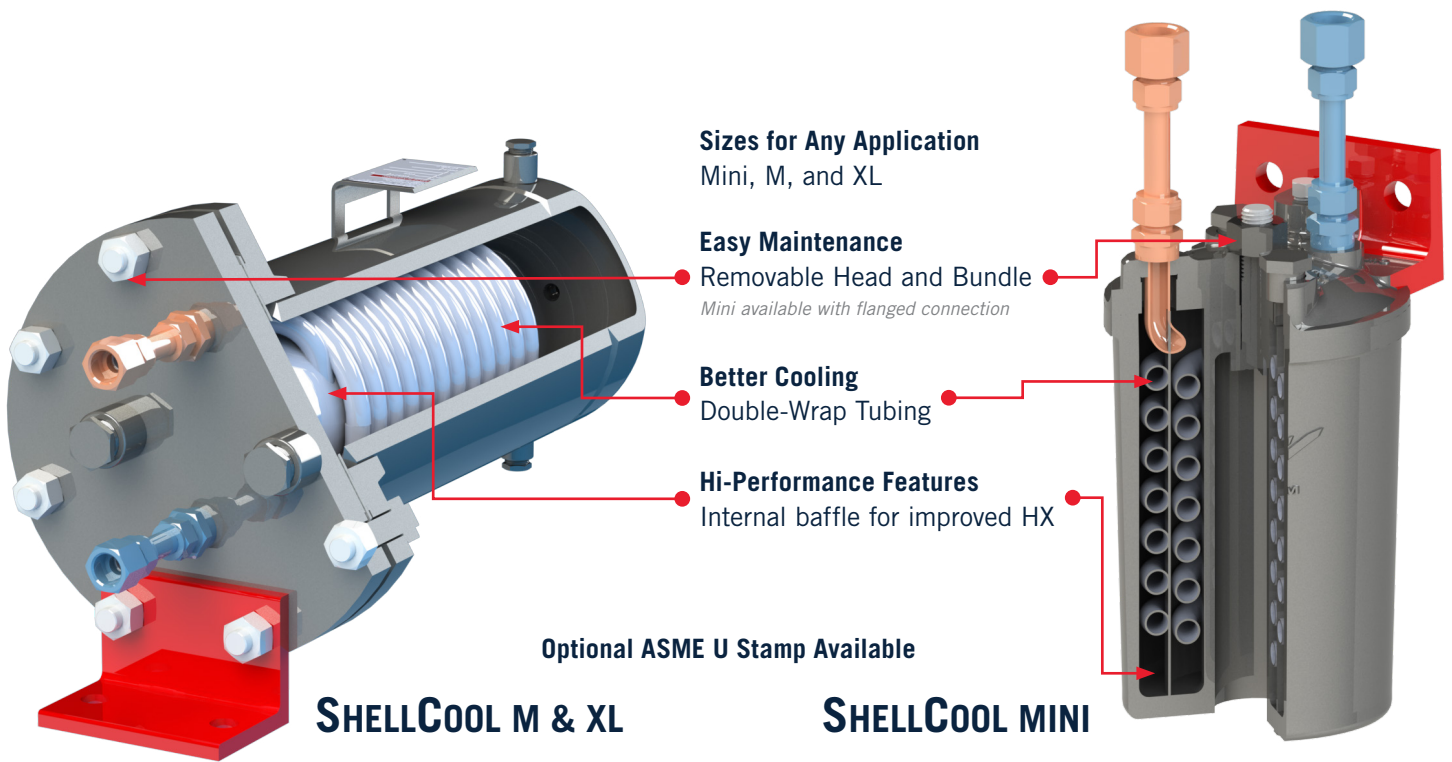
The ShellCool heat exchanger is a top-of-the-line solution for process /barrier fluids in seal applications. The ShellCool heat exchanger system can be applied with API 682 conforming Flush Plans 21, 22, 23, 41, 53B, 53C, 54, and 55.

The ShellCool heat exchanger provides exceptionally effective cooling and lubrication to critical mechanical seal components, eliminating common failures from high process temperatures and friction.

Our heat exchanger will keep your processing equipment operating longer with fewer failures and requires almost no maintenance. Protect your investment with ShellCool to save time and money for your plant.

**APPLICATION**

API 682 Conforming  
Flush Plans 21, 22,  
23, 41, 53B, 53C,  
54, and 55



**STANDARD 2-4 WEEK DELIVERY**

## SPECIFICATIONS

### MATERIALS OF CONSTRUCTION

Shell	CS*, 304L, 316L, per spec
Tube	316L*, CS, 304L, exotics including Inconel or Hastelloys
Bracket	CS
Fittings	316L or to match tube material
Gasket (M, XL)	Spiral Wound Flexitallic CGI
O-Rings (Mini)	FKM Standard, FFKM Available

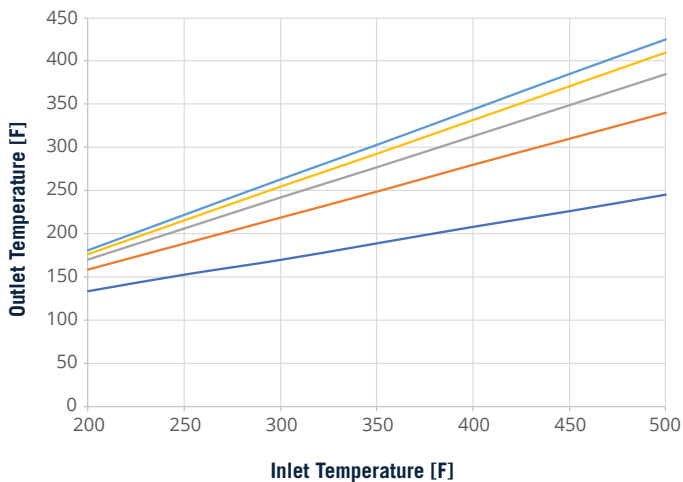
\*Standard Materials, others available by request.

### OPERATING PARAMETERS

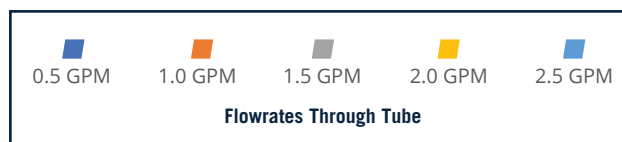
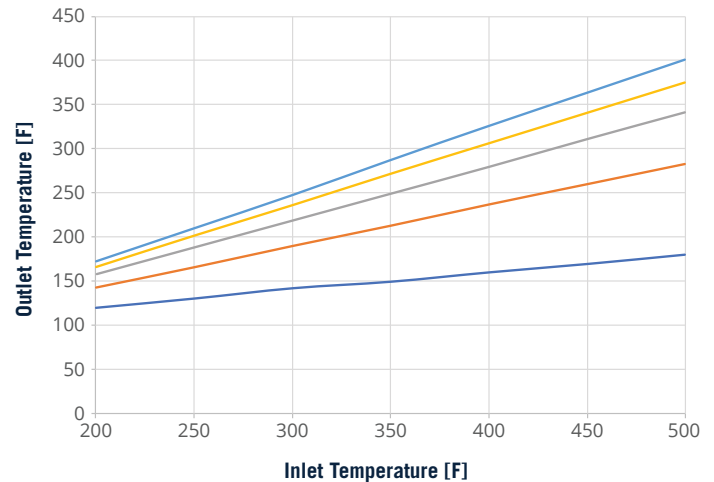
Coolant Media	Water or 50/50 Ethylene Glycol/Water
Temperature	700 °F (370 °C) max inlet
Coolant Flowrate (API 682)	M & XL: 9–14 GPM (0.55-0.90 L/s) Mini: 4–6 GPM (0.25-0.40 L/s) <i>NOT TO EXCEED 5–8 FT/S VELOCITY IN ALL CASES</i>
Tube Working Pressure	M & XL: 1500 psig (103 bar) @ max temp Mini: 3072 psig (212 bar) @ max temp

## PERFORMANCE CURVES

SHELLCOOL MINI - OIL

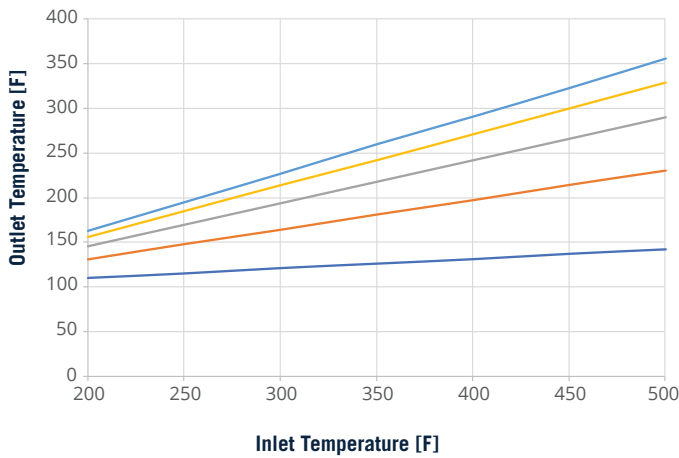


SHELLCOOL MINI - WATER

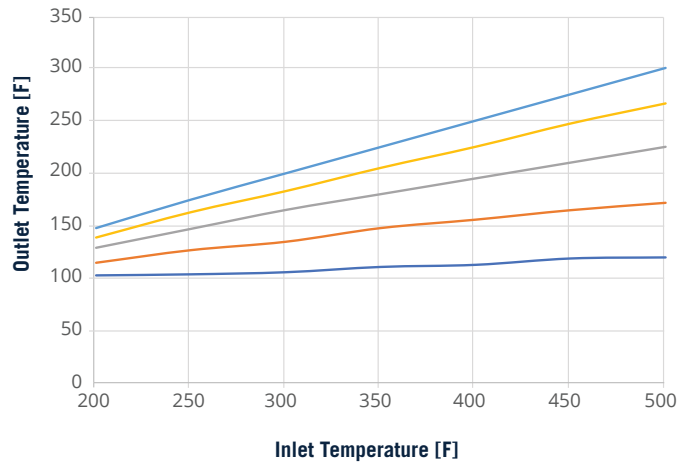


PERFORMANCE CURVES *cont'd*

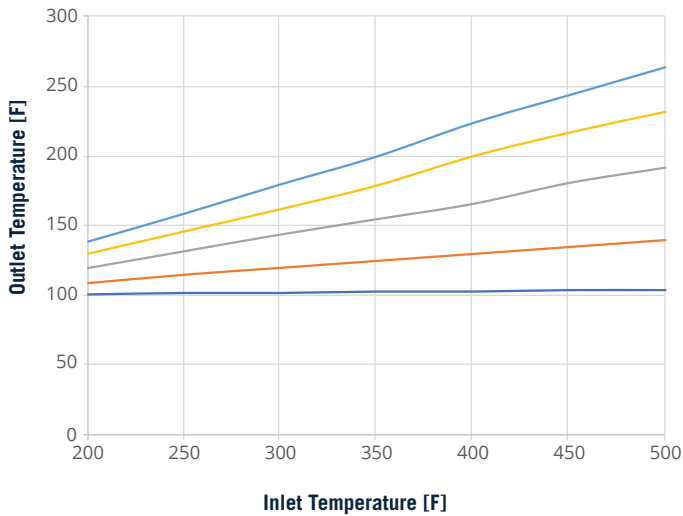
**SHELLCOOL M - OIL**



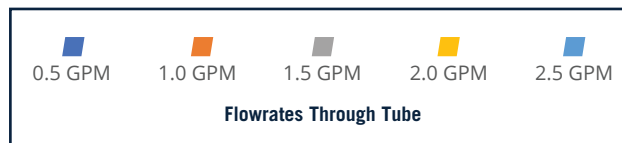
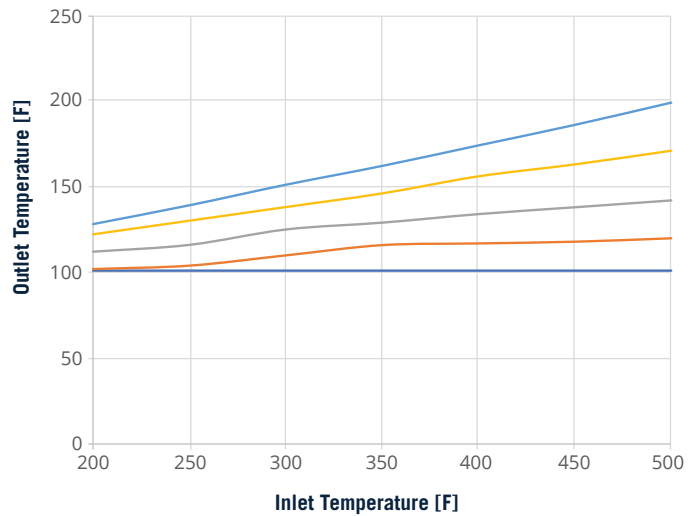
**SHELLCOOL M - WATER**



**SHELLCOOL XL - OIL**



**SHELLCOOL XL - WATER**



NOTE: All curves modeled with 90 °F (32 °C) coolant at flowrate operating parameters specified. The information provided is to be used as a selection guide only. Each application should be reviewed in detail as specific properties of process fluids and environmental variables may have a significant effect on cooler performance. Information subject to change without notice.