

Airfin Cooler

Easy to clean, easy to install, and practically maintenance free. Constructed of corrosion-resistant materials, permitting use in most fluid-processing applications.

Features/Benefits

- Provides a reliable means of reducing the temperatures surrounding a mechanical seal - without the use of cooling water
- Atmosphere's air is the coolant - rendering economy and eliminating problems of water treatment and disposal
- It does not require a coolant - accidental shut off and winter freeze-ups are eliminated
- Use of expensive coolants - is eliminated
- 625 FC means "Forced Convection" - an electric or air motor drives a squirrel-cage type blower wheel which draws atmospheric air into the cooler from the top and bottom openings
- Fan increases air flow to 500 cfm over the finned tubing within the body of the cooler
See Curves on reverse page
- Available in a Natural Convection Model - 625 NC

Operating Parameters

- Temperature: To 800° F (425° C)
- Pressure: To 1200 PSIG (80 Barg)

Materials of Construction

- Tubes: 304 Stainless Steel Finned Tubing
- Fins: Carbon Steel
- Frame: Painted Carbon Steel with Protective Shroud
- Blower: Galvanized Steel
- Motor: Electric - 1/3 horse power (0.25 Kw), 1 or 3 phase
Air - 1/3 HP (0.25 Kw) with 60 PSI air
- Connections: 316 SS, 0.500 NPT female

Maximum Tube Side Pressure Ratings

	100°F	200°F	300°F	400°F	600°F	800°F
	35°C	95°C	150°C	205°C	315°C	425°C
PSIG	2300	2050	1800	1650	1400	1200
Barg	160	140	125	115	95	80

- Maximum Temperature: 800°F (426°C)
- Effective Cooling Area: 26.8 ft² (2.5 m²)



Model 625 NC
Code: WCA14640733

Model 625 FC Electric Motor
3 phase Code: WCA14020233
1 phase Code: WCA18856933



Model 625 FC Air Motor
Code: WCA26748333

Performance Curves

To interpret the performance curves, define the pump operating conditions as illustrated below. The Airfin cooler performance curves are based upon installing either a NC (Natural Convection) Cooler or a FC (Forced Convection) Cooler in the bypass line. Note that there are two (2) curves for each model of Airfin Cooler; one for heat transfer fluids and one for water. Select the applicable curve for your operating conditions.

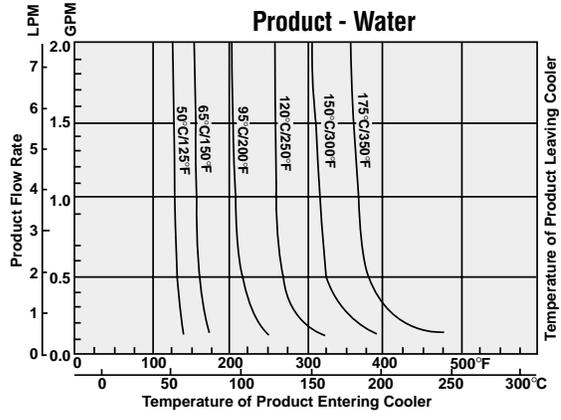
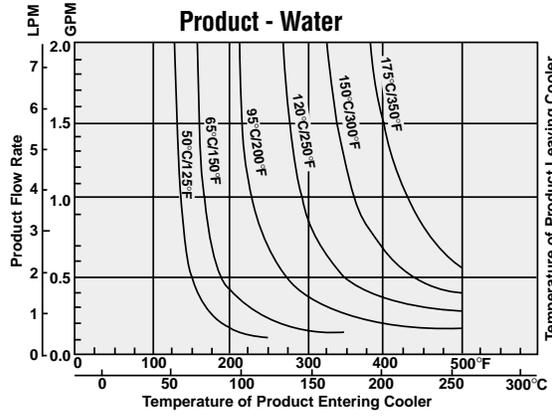
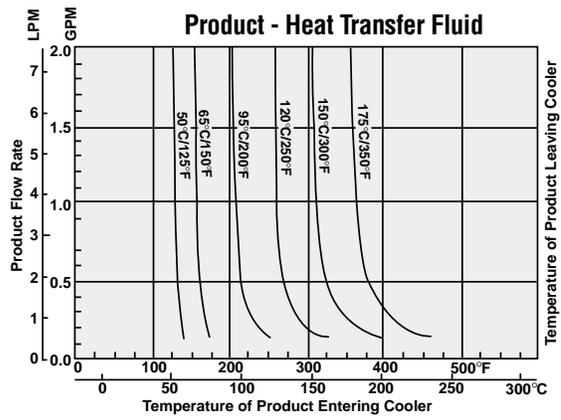
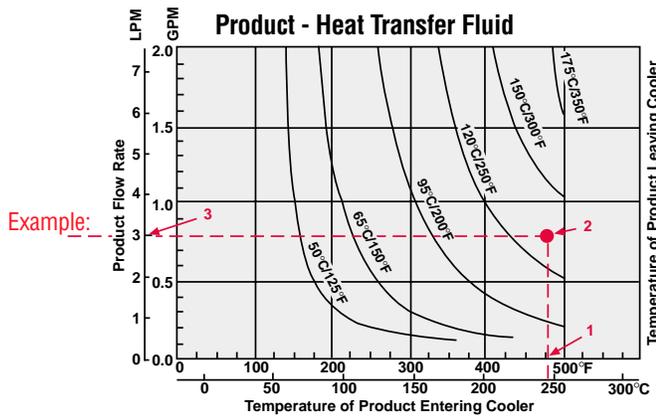
Locate Performance Curve:

- Step 1: Enter the graph on the axis at the "Temperature of the Product Entering Cooler: Assume 475°F (245°C)
- Step 2: Move vertically until you intersect the curve for the desired "Temperature of the Product Leaving the Cooler"; assumed to be 275°F (135°C)
- Step 3: Coordinate the intersect with the axis, "Product Flow Rate". You will require a maximum flow of 3 LPM (0.8 GPM). Size and install an orifice in the bypass line to control the rate of flow.

Note: Curves based on 100°F (35°C) ambient temperature. If the product inlet or ambient temperature exceeds those shown on the graph; please contact your Flowserve representative.

Model 625 FC

Model 625 NC



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