

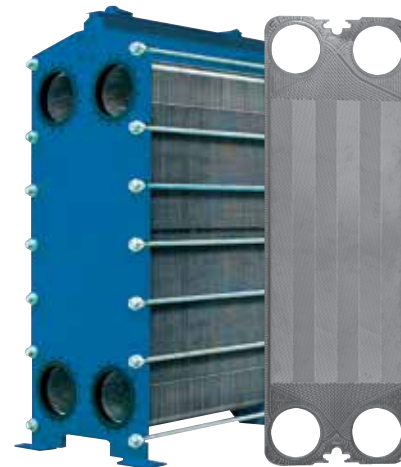


# AURORA<sup>®</sup> 1082PF AND 1082A SERIES GASKETED PLATE HEAT EXCHANGERS

# AURORA® 1082PF SERIES

## Gasketed Plate Heat Exchangers

The 1082PF Series are gasketed plate heat exchangers used for multiple and high pressure applications. The 1082PF Series uses a variety of materials that work across a broad range of liquids, temperatures and pressures. These heat exchangers are well-suited for liquid-to-liquid applications such as HVAC, chemical, sugar, marine, food, renewable energy and power.



### UNIQUE AND EFFICIENT

A 1°F temperature approach in a single-pass design comes from the smaller gap width combined with our unique design enabling you to reduce equipment size for a more efficient system design.

### PERFECT SELECTION

Materials, sizes and plate configurations offered in a wide variety combine with sophisticated selection software to provide you with the perfect selection for all your needs.

### COMPACT DESIGN

More space for other equipment is created through a more compact size than traditional shell-and-tube technology.

### SUITABILITY AS A PRESSURE BREAKER

Where space is especially tight, a 360 psig design pressure means suitability as a pressure breaker in high-rise applications.

### SAVING YOU MONEY

Maximizing heat transfer and minimizing the number of plates (and cost) is accomplished by plate corrugations distributing the liquid evenly across the entire plate width.

### REASSURANCE

ASME and PED pressure vessel certifications.

## 1082PF Series Pump Features

### FASTER, MORE EFFICIENT MAINTENANCE

- When reinstalling, plate lead-ins cause the plate pack to self-align.
- Gasket replacement is made easy with tools-free gaskets.
- No heavy lifting tools are needed since individual plates are used. Shorter down times result from our faster and more efficient maintenance.

### RELIABLE FOR YEARS TO COME

Careful corrugation design provides the ideal balance of high turbulence and proper fluid distribution, reducing fouling from less-than-perfect media.

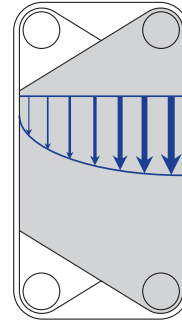
# 1082PF Series Pump Features

## HOW DOES A 1°F TEMPERATURE BENEFIT YOU?

You can accomplish the same end result with a smaller unit, increasing system efficiency at the same time, whether you need 1°F or not. You can do it without needing multiple units or a multipass heat exchanger and the extra piping cost that multipass represents. The benefits? Simpler design, smaller equipment, lower cost to your customers.

## SUPERIOR DESIGN – BETTER FOR YOU!

The Aurora plate design makes full use of the plate area, increasing efficiency with fewer plates providing even media flow over the entire width. Few plates are needed yet deliver the same or better heat transfer efficiency.



CONVENTIONAL DESIGN



CORRUGATED PLATE

# AURORA® 1082A SERIES AHRI CERTIFIED® Gasketed Plate Heat Exchangers

The 1082A Series Gasketed Plate Heat Exchangers are independently certified by the Air-Conditioning, Heating and Refrigeration Institute (AHRI) through AHRI Standard 400. This series supports the entire range of temperatures and pressures for HVAC applications, and offers a selection of plate, gasket and port connection options.

## A SERIES PLATE FEATURES

The features offered by the A Series Gasketed Plate Heat Exchanger ensure flexibility to choose the right plate for the right media and application without compromising high heat transfer efficiency.

Heat transfer plates have multiple lead-ins that ensure self-alignment of the plate pack for ease in closing. This feature reduces downtime when servicing the unit. Adhesive-free gasket attachment makes replacement a snap. A special design keeps gaskets in place even after several service cycles. Computer modeled heat transfer area design provides even flow distribution across the entire plate surface, maximizing heat transfer while minimizing fouling rates, plate count and cost.



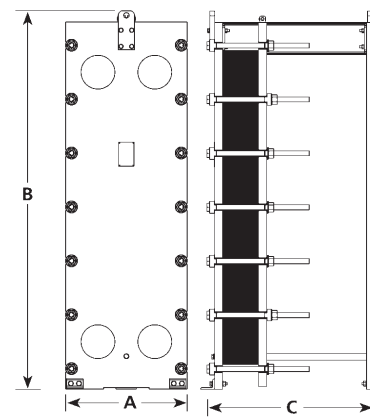
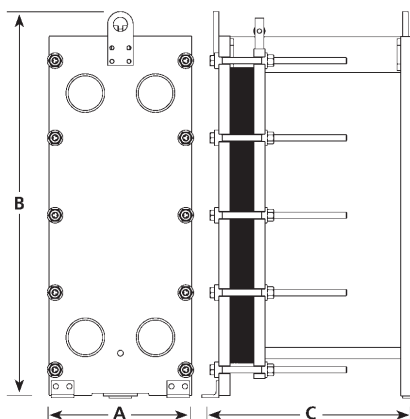
## 1082A SERIES VERSATILITY

- Independently certified performance guarantee
- Up to 450 psig design pressure
- Down to 1°F temperature approach
- Broad range of media applications
- Small footprint

# 1082PF Series: Technical Data

Pump Model	Connection Size	Dimensions in inches (mm)		
		A	B	C
AUR021	2" nominal (DN50)	12.7" (323)	26.6" (675)	Up to 44" (1120)
AUR023			40.4" (1025)	
AUR025			54.9" (1395)	
AUR041	4" nominal (DN100)	23.0" (584)	51.1" (1298)	Up to 158" (4013)
AUR043			67.5" (1716)	
AUR045			83.52" (2121)	
AUR049	6" nominal (DN150)	26.2" (665)	81.1" (2060)	Up to 84" (2134)
AUR062			70.1" (1781)	
AUR064			89.4" (2271)	
AUR069	10" nominal (DN250)	35.2" (895)	86.9" (2207)	Up to 108" (2744)
AUR102			89.5" (2273)	
AUR103			99.6" (2529)	
AUR104	14" nominal (DN350)	44.7" (1134)	112.8" (2866)	Up to 159" (4039)
AUR109			110.5" (2807)	
AUR142			115.4" (2930)	
AUR143	14" nominal (DN350)	44.7" (1134)	128.6" (3267)	Up to 238" (6045)
AUR144			141.9" (3604)	

\*Approximate, varies with design requirements.



MODELS AUR049, AUR069 AND AUR109 ONLY

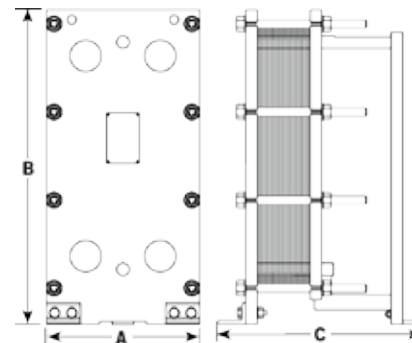
# 1082A Series AHRI Certified: Technical Data

Pump Model	Connection Size	Dimensions in inches (mm)		
		A	B	C
AUR021A	2"	12.7" (323)	26.6" (675)	Up to 44" (1118)
AUR023A			40.4" (1025)	
AUR025A			54.9" (1395)	
AUR041A	4"	21.3" (540)	51.1" (1298)	Up to 158" (4013)
AUR043A			67.5" (1716)	
AUR045A			83.52" (2121)	
AUR062A	6"	25.2" (640)	70.1" (1781)	Up to 159" (4039)
AUR064A			89.4" (2271)	
AUR102A			89.5" (2273)	
AUR103A	10"	35.2" (895)	99.6" (2529)	Up to 159" (4039)
AUR104A			112.8" (2866)	
AUR142A			115.4" (2930)	
AUR143A	14"	44.7" (1134)	128.6" (3267)	Up to 238" (6045)
AUR144A			141.9" (3604)	
AUR049A	4"	21.3" (540)	76.9" (1952)	Up to 158" (4013)
AUR069A	6"	25.1" (638)	93.6" (2377)	Up to 159" (4039)
AUR109A	10"	35.2" (895)	110.8" (2815)	Up to 159" (4039)

Performance	
Maximum Standard Design Pressure	
A Series AUR021A–AUR144A	Up to 300 psig (21 bar)
A Series AUR049A, AUR069A, AUR109A	Up to 450 psig (29 bar)
Maximum Standard Design Temperature	
A Series AUR021A–AUR144A	Up to 330°F (170°C)
A Series AUR049A, AUR069A, AUR109A	Up to 330°F (170°C)
Approximate Maximum Liquid Flow Rate	
AUR02	200 gpm (45 m³/hour)
AUR04	800 gpm (180 m³/hour)
AUR06	1770 gpm (400 m³/hour)
AUR10	4900 gpm (1110 m³/hour)
AUR14	9600 gpm (2180 m³/hour)
AUR049	800 gpm (180 m³/hour)
AUR069	1770 gpm (400 m³/hour)
AUR109	4900 gpm (1110 m³/hour)

Materials and Construction	
Heat Transfer Plate	304 SST, 316L SST, titanium and other appropriate material
Gasket	NBR, EPDM and other appropriate material
Pressure Plate	Carbon steel, as standard, and other appropriate material
Port Connections	Unlined, metal lined, welded neck flange and others



The specifications contained in this printing are intended only to serve the non-binding description of our products and services and are not subject to guarantee. Binding specifications, especially pertaining to performance data and suitability for specific operating purposes, are dependent upon the individual circumstances at the operation location and can, therefore, only be made in terms of precise requests.



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