



APV Plate Heat Exchanger NR5 R-15

The NR5 R-15 Paraflow Plate Heat Exchanger is available in five frame sizes and with over 800 NR5 plates. Three leg types are available offering lower port heights up to 38". This flexibility enables a simple drop-in for existing machine replacement. The NR5 R-15 is well suited to high capacity HTST duties in the dairy, brewery and liquid food industries.

NR5 R-15 frames are supplied with eight tie bars and able to accommodate NR5, R5 and ER5 plates. Frames are shipped with head tightening but can easily be reconfigured to permit follower tightening. Equipped with maximum platage, the frame offers 5000 ft²/ 460 m² of heat transfer surface.

Frame Design Features

- **Frame Size:** 5 frame lengths
- **Frame Construction:** Stainless steel clad
- **Frame Finish:** Polished
- **Tie Bars:** Stainless steel
- **Maximum Design Pressure:** 217 psig/15 barg. The pressure depends upon plate material, working temperatures, process conditions and local regulations. For additional details, refer to the application performance specifications supplied with your APV quotation.
- **Operating Temperatures:** Up to 392°F / 200°C depending on gasket material. Higher temperatures may be allowed depending on application.
- **Connections:** 4" Tri-Clamp and other sanitary fittings

Plate Design Features

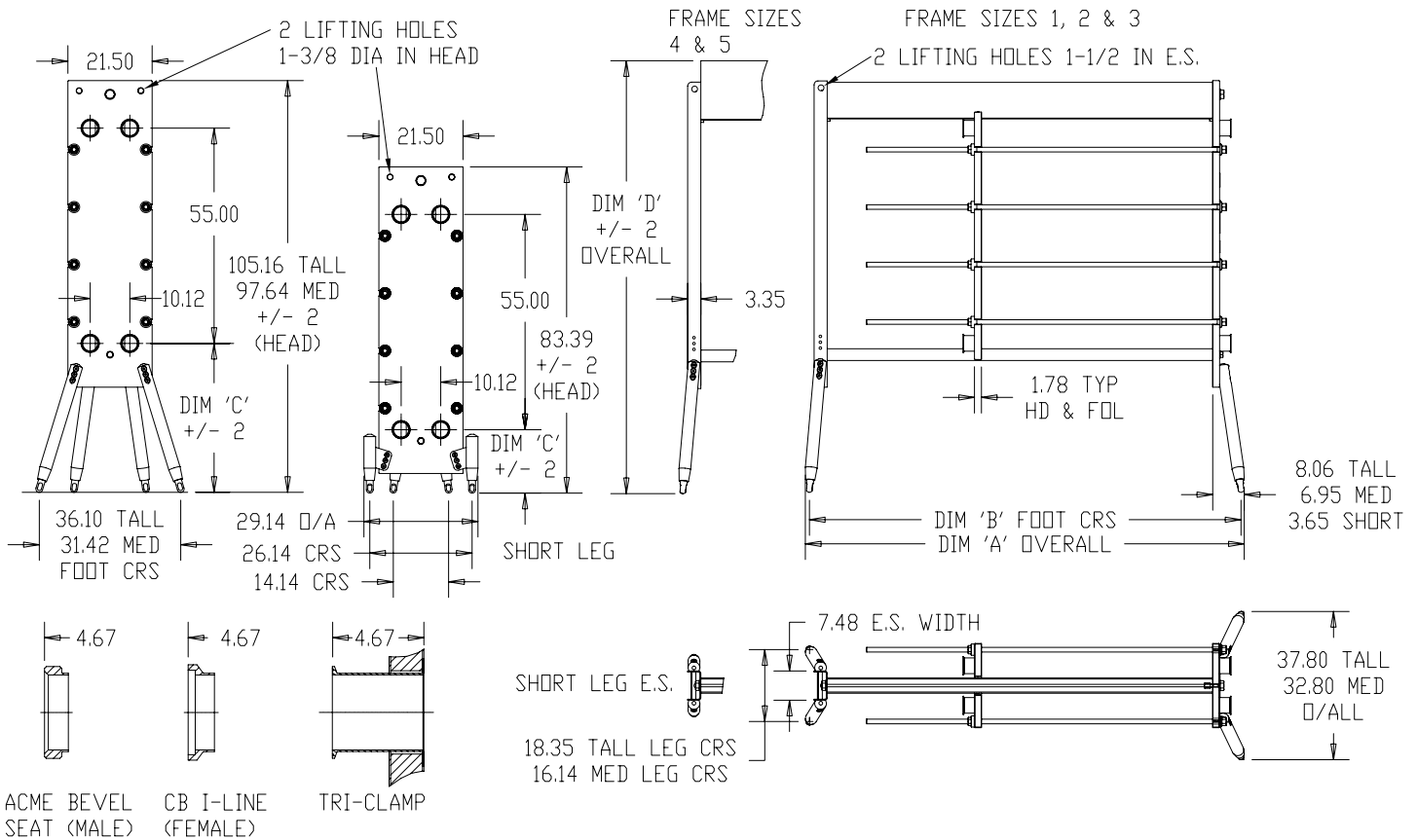
- **Plate Types:** NR5, R5, ER5
- **Plate Materials:** 316 Stainless steel, high Nickel alloys and other corrosion resistant materials
- **Gasket Materials:** NBR, EPDM, Fluoroelastomers and others
- **Gasket Fixing:** Easyclip (NR5), Paraclip (R5/ER5) adhesive free. Glued options available
- **Maximum Flow Rate:** 750 GPM/ 170 m³/hr
- **Heat Transfer Area/Plate:** NR5 = 5.84 ft², R5 = 5.60 ft², ER5 = 5.67 ft²
- **Plate Liquid Capacity/Fluid Channel:** NR5 = 0.53 US Gallon, R5/ER5 = 0.72 US Gallon

Additional Features:

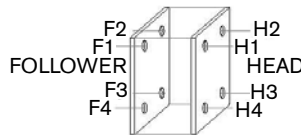
- Optional stainless steel protective plate pack shroud
- Intermediate grids (5.87" wide) with bosses (4" connections)
- The ER5 is essentially a Freeflow plate with very few contact points and like other Freeflow plates should only be operated with low working pressures, not exceeding 120 psig, and controlled fluctuations.



APV NR5 R-15 Plate Heat Exchanger Dimensions (in inches)



Frame Size	Max. Platage Dim. (in)	Maximum Frame Capacity	
		NR 5 0.6 mm Plates	R5/ER5 0.9 mm Plates
1	42.36	179	145
2	81.73	345	281
3	121.10	512	417
4	160.47	679	553
5	199.84	845	688



Frame Size	Tall Leg				Medium Leg				Short Leg			
	Net Weight in Pounds (no plates)	Dimensions in Inches			Net Weight in Pounds (no plates)	Dimensions in Inches			Net Weight in Pounds (no plates)	Dimensions in Inches		
		A Overall Length	B Foot Centers	C Port Height		D Overall Height	A Overall Length	B Foot Centers		C Port Height	D Overall Height	A Overall Length
1	2116	72.68	70.83		2050	70.91	69.06		1997	67.05	62.95	
2	2348	112.05	110.20	105.16	2282	110.28	108.43	97.64	2229	106.42	102.32	83.39
3	2582	151.42	149.57	38.00	2515	149.65	147.80	30.51	2463	145.79	141.69	16.22
4	2983	190.79	188.94		2917	189.02	187.17		2864	185.16	181.06	
5	3252	230.16	228.31	110.51	3186	228.39	226.54	103.00	3133	224.53	220.43	88.70

APV, An SPX Brand
 1200 West Ash Street
 Goldsboro, NC 27530
 Phone: (919) 735-4570 Toll free: (800) 207-2708 Fax: (919) 581-1167
 Email: answers.us@apv.com

For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.apv.com.

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation.

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