



APV Plate Heat Exchangers For Sanitary Applications

Benefit From Our Experience

If you're in the market for a sanitary plate heat exchanger, look no further than APV. Throughout our history, we've dedicated ourselves to the dairy, food, beverage and pharmaceutical industries. We draw on our extensive knowledge base to customize solutions for your unique application. Whether you are looking to maximize heat recovery, optimize run time or improve product quality, APV will deliver the latest innovations to help you achieve your process objectives.

APV provides an unmatched range of sanitary plate heat exchangers that feature:

- 3A and FDA compliance
- Optimum run time
- Duo-Safety system
- Manual or hydraulic closure
- Simple service upgrade path from single point manual tightening on NR5 Quad Drive to intelligently controlled hydraulic frame
- Designed for ease of inspection & cleaning
- Efficient operation
- Compact size
- Durable construction
- Frame longevity
- Flexible configurations
- High and low-leg designs available

APV offers an unmatched range of plate patterns, materials and thermal lengths capable of handling a wide range of applications and flow rates.

- Gasket attachment options
 - Glue free
 - Glued: FDA compliant heat cured for optimum bond

An APV specialist will help you determine which method is most suitable for your specific application.
- Both vertical and, for tougher applications, diagonal flow
- Wide variety of plate configurations available
- Unique design ensures easy cleanability

Typical Applications

- Baby food
- Broth/gravies
- Culture media
- Formula
- Juices
- Margarine
- Sauces
- Soy milk
- Table syrup
- Tomato products
- Whey
- Yogurt
- Beer
- Cream
- Evaporated milk
- Ice cream mix
- Juice concentrates
- Milk
- Soft drinks
- Sterile water
- Tea
- Vegetable oil
- Wine

Upgrade Options Frames

The innovative NR5-R5 Quad Drive and Vega V028 Binary Drive PHE's can now be supplied for manual plate pack compression for initial economy. Effortless upgrade to automatic opening and closing is possible even while the process is running.

Plates

The novel NR5 plates will fit in all installed R5 frames to enhance for example energy recovery in regenerators. The ER5 Freeflow plates fit in all R5 or NR5 frames for an upgraded resistance to suspended solids. The novel Vega V017 with enhanced process run time capability relative to SR2's, fits all SR2 frames.



Model	Conn	"High Leg"	"Low Leg"	Spindle	Hydraulic	"Max GPM"	"Active Area per plate ft ² "	Gasketed	Welded	Duo-Safety	Max Height	Max Width	Max Length
SR1 R-12	1.5"	X	X			125	0.92	X			43"	18"	37"
SR11	1.5"	X		X		125	0.92	X			37"	11"	69"
Vega V017 R-14	2.5"	X	X			300	1.85	X	X	X	65"	24"	76"
Vega V028 R-10	2.5"	X	X			300	2.96	X			87"	28"	138"
Vega V028 R-16	2.5"	X	X			300	2.96	X			87"	29"	138"
Vega V028 B-13 Binary Drive	2.5"	X		X	X	300	2.96	X			93"	36"	168"
NR5 R-15	4"	X	X			800	5.84	X			112"	38"	231"
NR51T	4"	X		X		800	5.84	X			106"	36"	205"
NR5 Q-15 Quad Drive	4"	X		X	X	800	5.84	X			116"	41"	348"
SR6GLSH	4"	X				800	6	X		X	91"	36"	142"

APV offers innovative plate designs to match your requirements, including:

ER5 Plate

The ER5 is tailored for processing liquids with suspended material. With 90% fewer contact points than standard plates, the ER5 provides clear passage of products with less risk of pulp or fiber hang-up. ER5 fits all R5 and NR5 frames.

NR5 EasyFlow Plate

The plate design of the NR5 EasyFlow is quite unique. Classic diagonal flow with naturally superior distribution means an increase in heat transfer and a reduction in CIP time. The plates equipped with Easyclip gaskets allow rapid replacement without glue and the Corner Interlock secures correct plate alignment adding resistance against plate damage. Contact points per ft²/m² are always looked upon with great interest - especially by manufacturers of products containing fibers/solids. Again, the NR5 stands out. Only 174 contact points/ft² versus 400+ on traditional hygienic plates. NR5 fits into all R5 frames and vice versa.

Vega Plate (V017 and V028)

The Vega is ideally suited for a broad range of food processing duties where there is a tendency for the product to foul the heated surface or where large temperature induced viscosity changes are likely to occur. Vega V017 fits all SR2 frames.

Start Benefiting Today

APV plate heat exchangers offer all the benefits you need to improve your process profitability.

- Multiple duties in a single frame
- Highly efficient design maximizes regeneration during heating and cooling
- Computer aided design tools that allow configurations to optimize process run-time

APV's experienced engineers will work with you every step of the way, from system design to implementation, to ensure you get the solution that best meets the needs of your process.

To learn more about how APV can help you improve the profitability of your process, call us today.

Quad-Drive



V028 R-10



APV, An SPX Brand
 1200 West Ash Street
 Goldsboro, NC 27530
 Phone: (919) 735-4570 Fax: (919) 581-1167
 Email: answers.us@apv.com
 www.apv.com
 www.spxft.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. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.

Issued: 09/2010 1103-01-08-2008-US Copyright © 2010 SPX Corporation

