



# ARI 400 Certification For APV Paraflow Plate Heat Exchangers

With today's rising energy costs, the need to ensure that air conditioning and commercial refrigeration equipment meets the performance specifications is critical. Performance deficiencies in an HVAC system can sometimes be hard to find and can result in much higher energy costs. As a result, the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) established standards and a certification process to ensure that performance for various HVAC equipment is met. More recently the liquid to liquid plate heat exchanger has been added to this standard since it is a very important part of the HVAC cooling system.

Certification ensures confidence to owners, operators, consulting engineers, and contractors that the plate heat exchanger manufacturers' thermal performance claims have been tested and are accurate. AHRI affords an accurate and unbiased evaluation of HVACR equipment. AHRI's certification programs demonstrate that performance claims have been independently measured and verified. Upon verification, the ARI Performance Certified® mark is applied to the product to serve as a visual statement of conformance.



## ARI Certification

ARI certification is a standard that establishes definitions, test requirements and minimum data requirements for published ratings, marking and nameplate data, and conformance conditions.

The ARI Standard 400 certification establishes benchmarks for product performance excellence and was developed to provide a common and consistent method of evaluating the thermal performance of liquid-to-liquid heat exchangers.

## ARI Certification Benefits

- Ensures a more energy efficient HVAC system thereby reducing total operating expenses
- Provides independent verification of a plate heat exchanger selection
- Ensures the ARI certified plate heat exchanger will deliver the stated thermal performance
- Protects owner and consulting engineer from performance issues during startup and operation
- Eliminates the need for field tests of the component, thereby reducing bond hold back times after startup



# APV AR Series Paraflow Plate Heat Exchangers

The APV AR Plate Heat Exchanger Series has earned the trusted ARI Performance Certified™ mark, an assurance of the product's performance in accordance with ARI Standard 400. The APV AR Series includes the gasketed type, welded pair design, and double wall configuration so you can be certain that there is a plate heat exchanger that will fit your specific HVAC requirements.

## Typical Plate Heat Exchanger Applications for HVAC Systems Include:

- Free cooling
- Thermal Storage
- Water Source Heat Pump
- Pressure Interceptor
- District Heating
- District Cooling
- Domestic Water Heating
- Isolation of cooling tower water

APV Model	Connection Diameter (in.)	Maximum US GPM	Plate Options:	Approx. Height (in.)	Approx. Width (in.)	Approx. Length (in.)	Maximum Surface Area (Sq. Ft.)
			G-Gasketed D-Dual Safety L-Semi-Welded				
AR1-1	1.5	125	G	34	17	20 - 36	150
AR2-1	2.0	200	G, D, L	44	15	27 - 67	650
AR3-1	3.0	460	G, D	63	18.5	23 - 108	1,900
AR4-1	4.0	800	G	50	25	54 - 113	1,550
AR4-2	4.0	800	G	68	25	54 - 113	2,850
AR4-3	4.0	800	G	91	25	54 - 113	4,200
AR6-1	6.0	1,800	G	67	29	41 - 114	2,700
AR6-2	6.0	1,800	G	85	29	41 - 114	4,150
AR6-3	6.0	1,800	G	122	29	41 - 114	6,900
AR8-1	8.0	3,100	G	62	36	55 - 151	3,950
AR8-2	8.0	3,100	G	77	36	55 - 151	6,250
AR8-5	8.0	3,100	G	122	36	55 - 151	13,800
AR9-2	8.0	3,100	G,L	86	33	60 - 126	5,050
AR9-3	8.0	3,100	G,L	103	33	60 - 126	6,700
AR9-4	8.0	3,100	G,L	120	33	60 - 126	8,700
AR12-1	12.0	7,000	G,L	75	40	58 - 211	6,100
AR12-2	12.0	7,000	G,L	94	40	58 - 211	10,700
AR12-3	12.0	7,000	G,L	109	40	58 - 211	12,850
AR12-4	12.0	7,000	G,L	119	40	58 - 211	15,050
AR12-5	12.0	7,000	G,L	138	40	58 - 211	19,400
AR16-1	16.0	13,200	G	106	51	137 - 256	17,600
AR16-2	16.0	13,200	G	118	51	137 - 256	22,500
AR16-3	16.0	13,200	G	130	51	137 - 256	25,700

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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit [www.apv.com](http://www.apv.com).

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

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