

When performance is crucial



Alfa Laval AlfaQ™ AHRI-certified gasketed plate heat exchangers

When performance is crucial, each component of an HVAC system must be optimized to perform exactly as specified.

The Air Conditioning, Heating and Refrigeration Institute (AHRI) Standard 400 certification is an independent, third-party verification of thermal performance. AHRI 400 is now a global standard, assuring customers worldwide that the heat exchangers they choose will perform according to specification.

Performance certification verifies that the product performs in accordance with the manufacturer's published ratings, and is particularly useful in applications such as district-cooling substations with plate heat exchangers, ice-storage systems, data centres and free-cooling systems.

Alfa Laval was the first to offer a broad range of heat exchanger innovations – the AlfaQ™ range – that are certified to AHRI 400.

Certification leads the “green” wave

AHRI-certified heat exchangers can meet the Leadership in Energy and Environmental Design (LEED) standards for heating and cooling applications. LEED is an internationally recognized mark, providing building owners and

operators with a framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

Through its certification program and standards, AHRI strives to help customers save energy, improve their productivity and contribute to a better environment.

AHRI Certification Procedures and Benefits

Performance deficiencies in an HVAC system are difficult to detect and can result in much higher energy costs. Certification of all components assures the buyer that the system will perform optimally.

To certify a product to AHRI standards, the manufacturer submits specifications and performance data to AHRI for performance evaluation and potential certification.

The certification assures buyers and users that:

- The gasketed plate heat exchanger will perform in accordance with the manufacturer's published ratings.
- Product performance can be easily compared for their specific application.

Alfa Laval has accomplished a 100% success rate in the AHRI performance certification program for more than a decade.

Cost-effective for everyone involved

Consultants

- Allows for the design of a system in which all the major components are independently performance certified, ensuring that targets on power consumption and climate control can be met.
- Provides a verifiable basis for heat exchanger selection.
- Protects the owner and consulting engineer from performance concerns during commissioning and after installation.

Contractors

- Eliminates field acceptance tests of each component, thereby reducing payment hold-back times after commissioning.
- Ensures that all certified gasketed plate heat exchangers included in proposals will deliver the stated thermal performance.
- Reduces troubleshooting time during commissioning and after start-up.

End users

- Reduces lifetime operating costs significantly by assuring a more energy-efficient system.
- Ensures full investment value by reducing costs for field tests and additional component performance margins.



Alfa Laval AlfaQ™ gasketed plate heat exchangers, the optimal choice

Alfa Laval's broad range of heat exchangers for HVAC applications include gasketed, semi-welded, fully-welded, double-wall plate, and brazed heat exchangers. The AlfaQ™ Series are part of our gasketed plate heat exchanger portfolio.

AlfaQ™ gasketed plate heat exchangers are available to meet most heat-transfer

requirements – whether large or small – and include a three-year warranty, demonstrating our commitment to optimizing the performance of our customers' processes.

AlfaQ™ Series is the optimal choice when performance is crucial.





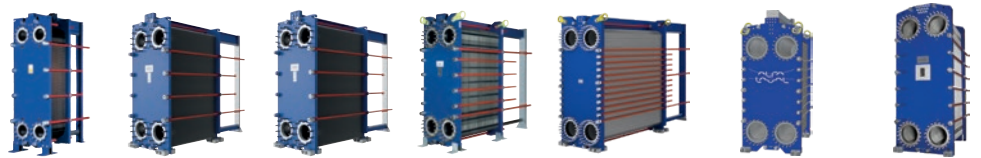
Technical specifications AlfaQ



Model	AQ1A	AQ1	AQ1L	AQ2A	AQ2	AQ2L	AQ2S
Max. flow rate kg/s/GPM	2/30	4/60	5/80	14/220	16/250	20/300	20/300
Max. temperature C° (PED) /F° (ASME)	180/-	180/300	180/350	180/350	180/350	180/350	180/350
Max. design pressure bar (PED) /psi (ASME)	16/-	16/150	16/150	16/150	25/300	25/300	25/300
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Model	AQ3	AQ4	AQ4L	AQ6	AQ6L	AQ8S	AQ8
Max. flow rate kg/s/GPM	30/475	50/800	50/800	80/1300	120/1900	190/3040	225/3600
Max. temperature C° (PED) /F° (ASME)	180/350	180/350	180/350	180/350	180/350	180/350	180/350
Max. design pressure bar (PED) /psi (ASME)	16/150	25/300	25/400	30/300	30/400	30/400	30/400
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Model	AQ10	AQ14S	AQ14	AQ14L	AQ18	AQ20S	AQ20
Max. flow rate kg/s/GPM	350/5600	550/8700	550/8700	650/10400	1000/16000	1300/20800	1300/20800
Max. temperature C° (PED) /F° (ASME)	180/350	180/350	180/350	180/350	250/350	180/350	180/350
Max. design pressure bar (PED) /psi (ASME)	30/400	25/400	25/400	30/400	16/250	25/300	25/300
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