



When Performance is Crucial

AlfaQ™ AHRI-certified 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, 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 help to ensure 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 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.

Once certified, buyers and users can be assured that:

- The 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 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.

AlfaQ™ 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™ 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.



Model	AQ1	AQ1L	AQ2	AQ2L	AQ2S	AQ4	AQ4L	AQ6
Nom flow rate m ³ /h/GPM	14/80	14/80	58/250	58/250	72/300	180/980	180/980	430/1850
Nom design temp C°/F°	180/300	180/300	180/300	180/300	180/300	180/300	180/300	180/300
Nom. Design pressure bar/psi	16/150	16/150	25/300	25/300	25/300	25/300	25/400	30/400



Model	AQ6L	AQ8	AQ8S	AQ10	AQ14	AQ14L	AQ20
Nom flow rate m ³ /h/GPM	430/1850	800/3600	700/3100	900/6000	1800/7900	2000/8000	3600/15500
Nom design temp C°/F°	180/300	180/300	180/300	180/300	180/300	180/300	180/300
Nom. Design pressure bar/psi	30/460	30/400	30/400	30/400	25/300	30/400	25/300

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Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information directly.



Alfa Laval is a participating company in the AHRI Standard 400 Certification Program