Alfa Laval AC16 / ACH16

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser
- Cascade systems

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

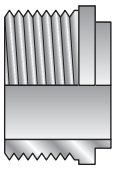
Different pressure ratings are available for different needs.

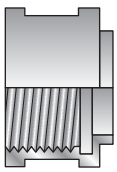
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections


External thread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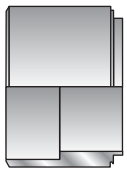

Soldering

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	8.8 + (2.16 * n)
A measure (inches)	0.35 + (0.09 * n)
Weight (kg)[2]	0.27 + (0.04 * n)
Weight (lb)[2]	0.59 + (0.09 * n)

1. n = number of plates
2. Excluding connections

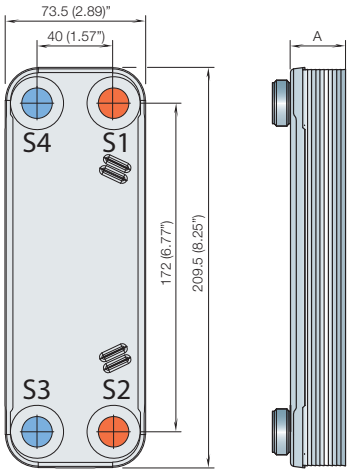
Standard data

Volume per channel, litres (gal)	A (S1-S2): 0.030 (0.008) A (S3-S4):0.024 (0.0063) H:0.027 (0.060)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate[1] m^3/h (gpm)	4.1 (18)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	60

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

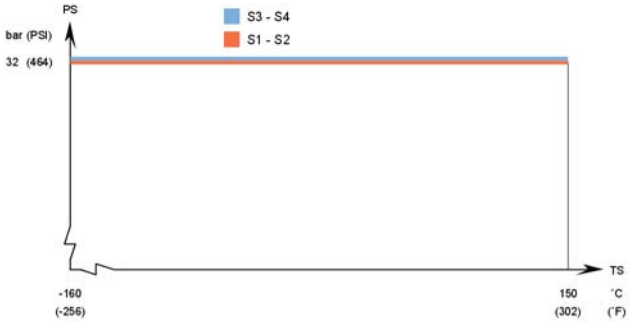
Dimensional drawing

Measurements in mm (inches)

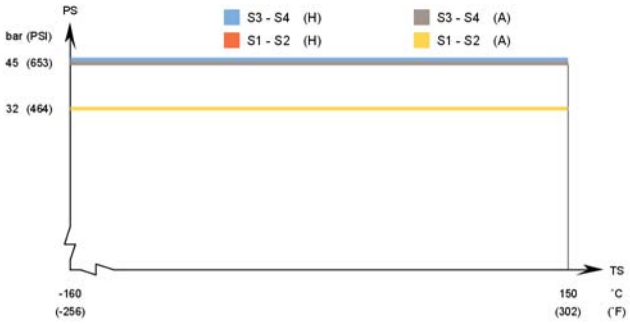


Design pressure and temperature

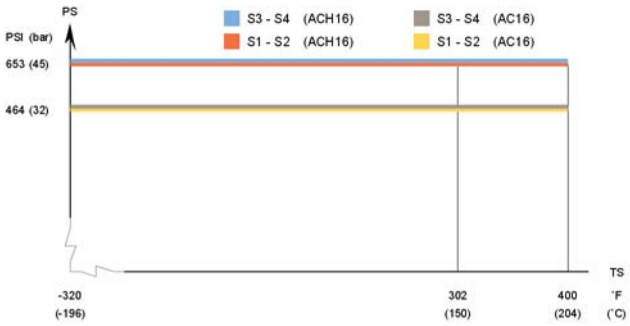
AC16 – PED approval pressure/temperature graph



ACH16 – PED approval pressure/temperature graph



AC16/ACH16 – UL approval pressure/temperature graph



Designed for full vacuum.

Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

NOTE: Values above are to be used as an indication. For exact values, please use the drawing generated by the Alfa Laval configurator or contact your local Alfa Laval representative.

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 direct.

Alfa Laval AC502DQ / ACH502DQ

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

The True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

The asymmetry guarantees the best performance in both full- and partial-load conditions.

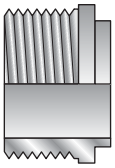
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

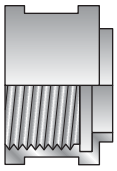
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections


External thread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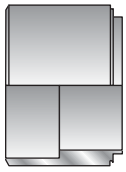
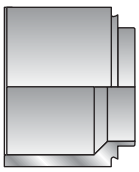
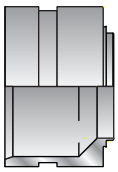

Soldering


Welding


Grooved connection

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	12 + (2.52 * n)
A measure (inches)	0.47 + (0.1 * n)
Weight (kg)[2]	13 + (0.84 * n)
Weight (lb)[2]	28.66 + (1.85 * n)

1. n = number of plates
2. Excluding connections

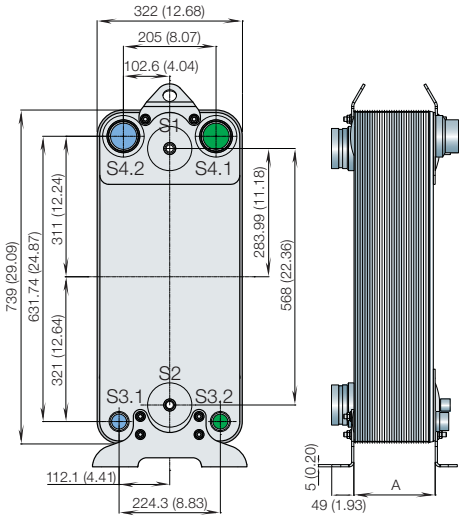
Standard data

Volume per channel, litres (gal)	H (S1-S2): 0.47 (0.121) H (S3-S4): 0.50 (0.129) AH (S1-S2): 0.52 (0.134) AH (S3-S4): 0.45 (0.116)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate[1] m^3/h (gpm)	120 (528)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	270

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

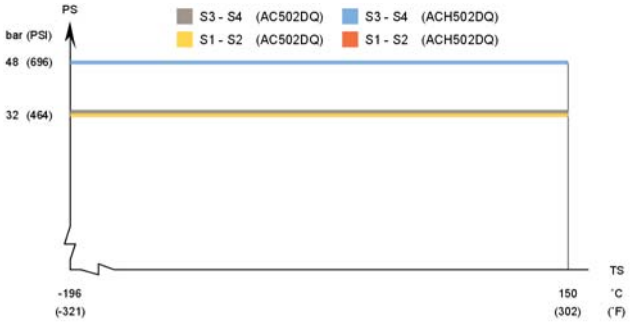
Dimensional drawing

Measurements in mm (inches)

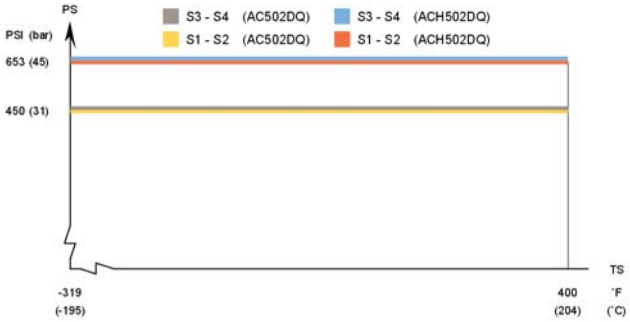


Design pressure and temperature

AC502DQ/ACH502DQ – PED approval pressure/temperature graph



AC502DQ/ACH502DQ – UL approval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval
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Alfa Laval AC500DQ /ACH500DQ

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

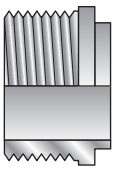
The True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

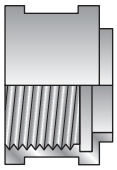
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

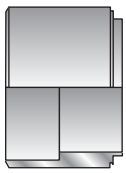
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

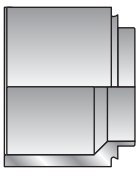
Suitable with most HFC, HFO and natural refrigerants.

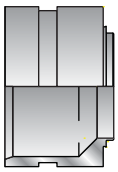
Examples of connections


External thread


Internal thread


Soldering


Welding


Grooved connection

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	12 + (2.61 * n)
A measure (inches)	0.47 + (0.1 * n)
Weight (kg)[2]	13 + (0.84 * n)
Weight (lb)[2]	28.66 + (1.85 * n)

1. n = number of plates
2. Excluding connections

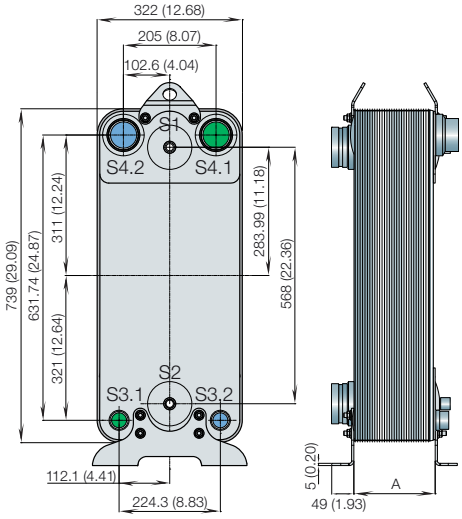
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.47 (0.121) (S3-S4): 0.50 (0.129)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate[1] m^3/h (gpm)	120 (528)
Flow direction	Diagonal
Min. number of plates	10
Max. number of plates	270

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

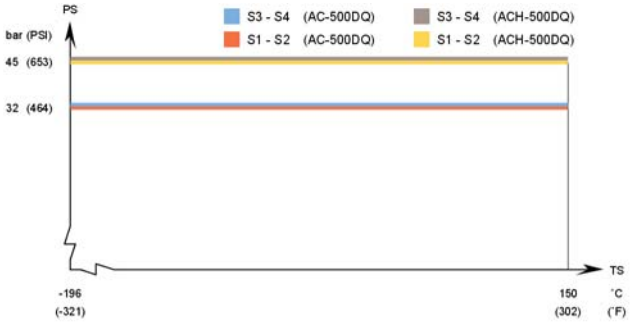
Dimensional drawing

Measurements in mm (inches)

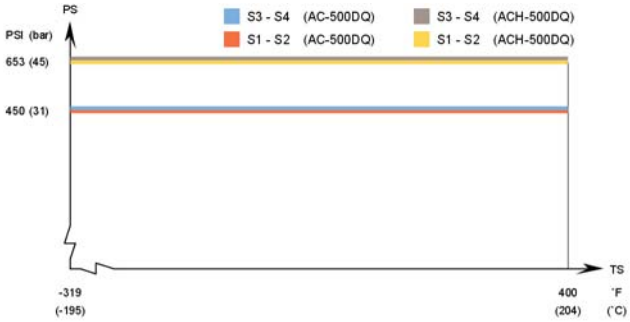


Design pressure and temperature

AC500DQ/ACH500DQ – PED approval pressure/temperature graph



AC500DQ/ACH500DQ – ULapproval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval
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Alfa Laval ACH74/ACK74

Brazed plate heat exchanger for air conditioning and refrigeration

Introduction

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications

- Evaporator
- Condenser
- Cascade systems

Benefits

- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design

The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Technical Data

Standard materials	
Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight [1]	
A measure (mm)	11 + (1.98 * n)
A measure (inches)	0.43 + (0.08 * n)
Weight (kg) [2]	2.6 + (0.22 * n)
Weight (lb) [2]	5.73 + (0.49 * n)

[1] n = number of plates

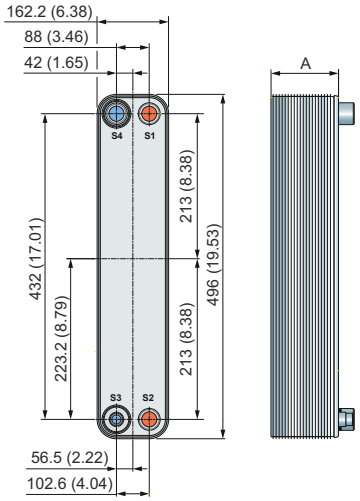
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1–S2)0.148 (0.0391) (S3–S4) 0.11 (0.0291)
Max. particle size, mm (inch)	1.0 (0.039)
Max. flowrate [1] m^3/h (gpm)	27 (118.9)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	180

[1] Water at 5 m/s (16.4 ft/s) (connection velocity)

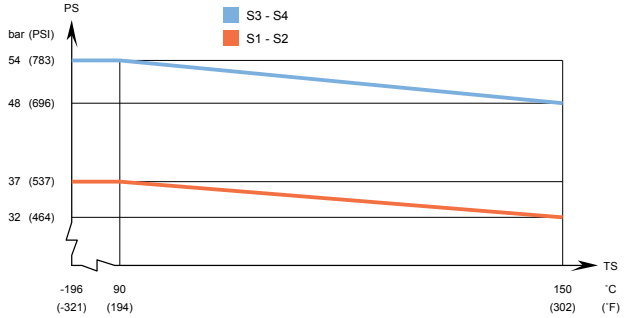
Dimensional drawing

Measurements in mm (inches)

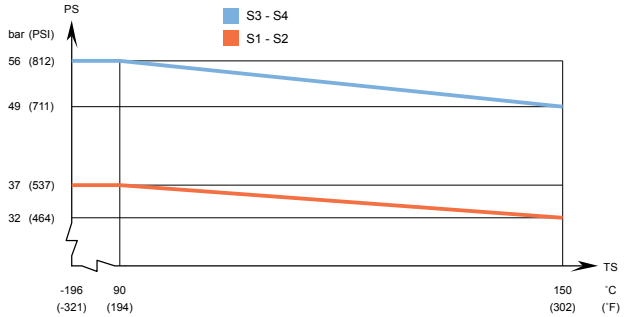


Design pressure and temperature

ACH74 – PED approval pressure/temperature graph



ACK74 – PED approval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval

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Alfa Laval ACH73

Brazed plate heat exchanger for air conditioning and refrigeration

Introduction

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications

- Evaporator
- Condenser
- Cascade systems

Benefits

- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design

The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

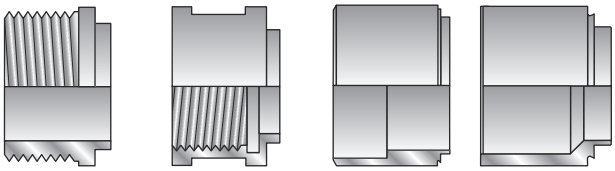
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections



External thread | Internal thread | Soldering | Welding

Technical Data

Standard materials	
Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight [1]	
A measure (mm)	13 + (1.98 * n)
A measure (inches)	0.51 + (0.08 * n)
Weight (kg) [2]	2.1 + (0.18 * n)
Weight (lb) [2]	4.63 + (0.40 * n)

[1] n = number of plates

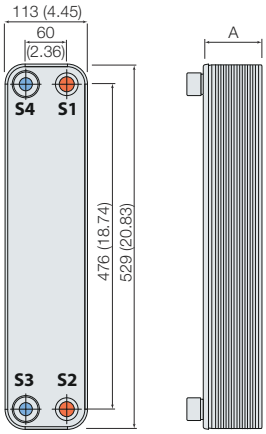
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.102 (0.0269) (S3-S4): 0.081 (0.0214)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate [1] m^3/h (gpm)	14 (61.6)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	160

[1] Water at 5 m/s (16.4 ft/s) (connection velocity)

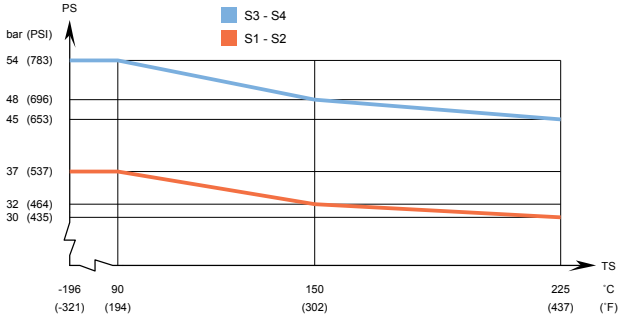
Dimensional drawing

Measurements in mm (inches)

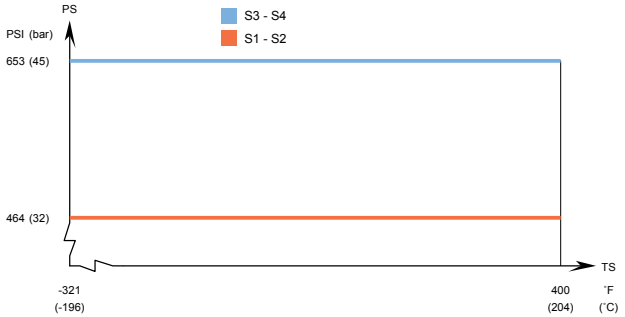


Design pressure and temperature

ACH73 – PED approval pressure/temperature graph



ACH73 – UL approval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval

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Alfa Laval AC1000DQ / ACH1000DQ

Brazed plate heat exchanger for air conditioning and refrigeration

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Applications
- Evaporator
- Condenser

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

The True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

The asymmetry guarantees the best performance in both full- and partial-load conditions.

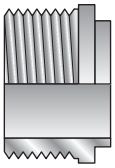
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

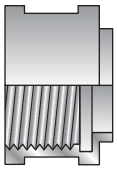
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

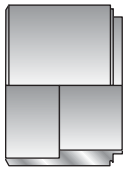
Innovative plate design and optional large plate package enable very high capacities of up to 1200 kW with R410A.

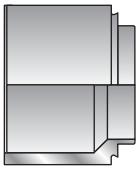
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

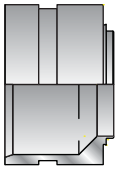
Examples of connections


External thread


Internal thread


Soldering


Welding


Grooved connection

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	18 + (2.41 * n)
A measure (inches)	0.71 + (0.09 * n)
Weight (kg)[2]	31.5 + (1.41 * n)
Weight (lb)[2]	69.45 + (3.11 * n)

1. n = number of plates
2. Excluding connections

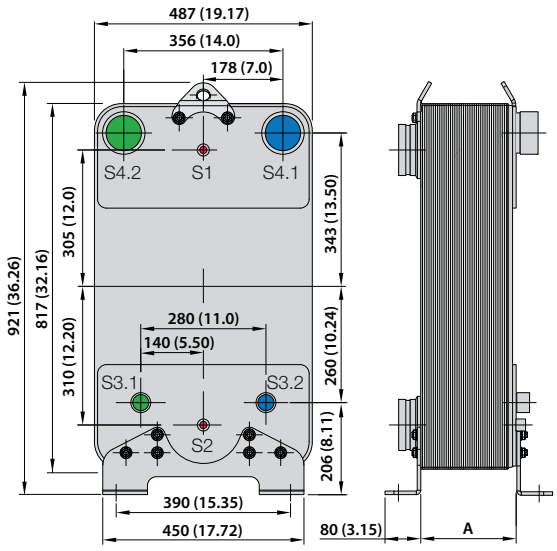
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.74 (0.191) (S3-S4): 0.61 (0.157)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate[1] m^3/h (gpm)	200 (880)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	298

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

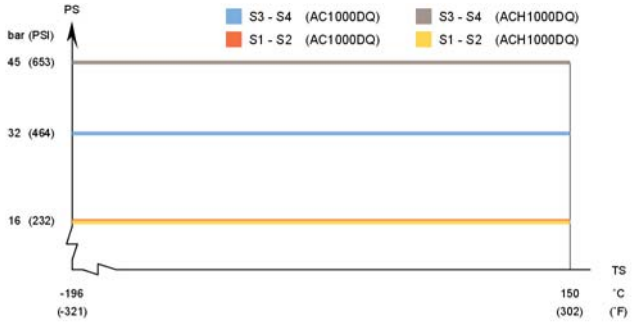
Dimensional drawing

Measurements in mm (inches)

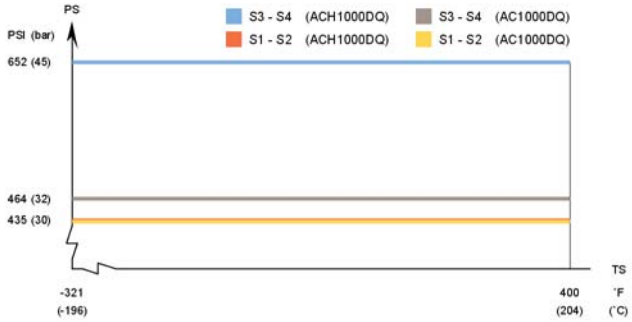


Design pressure and temperature

AC1000DQ/ACH1000DQ – PED approval pressure/temperature graph



AC1000DQ/ACH1000DQ – UL approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval AC500EQ / ACH500EQ / ACP500EQ

Brazed plate heat exchanger for air conditioning and refrigeration

Introduction

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications

- Evaporator
- Condenser
- Cascade systems

Benefits

- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design

The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

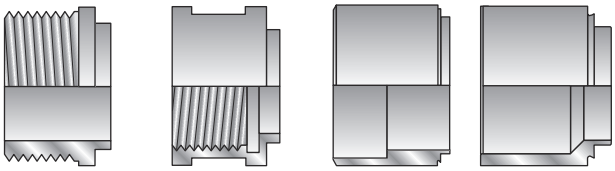
Single-circuit design.

The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

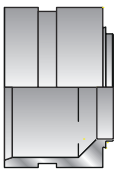
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections



External thread | Internal thread | Soldering | Welding



Grooved connection

Technical Data

Standard materials	
Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight [1]	
A measure (mm)	12 + (2.61 * n)
A measure (inches)	0.47 + (0.10 * n)
Weight (kg) [2]	12.5 + (0.84 * n)
Weight (lb) [2]	27.56 + (1.85 * n)

[1] n = number of plates

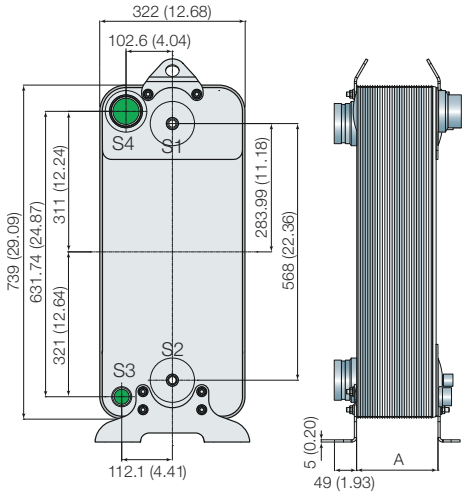
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.47 (0.1242) (S3-S4): 0.5 (0.1321)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate [1] m^3/h (gpm)	120 (528.3)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	270

[1] Water at 5 m/s (16.4 ft/s) (connection velocity)

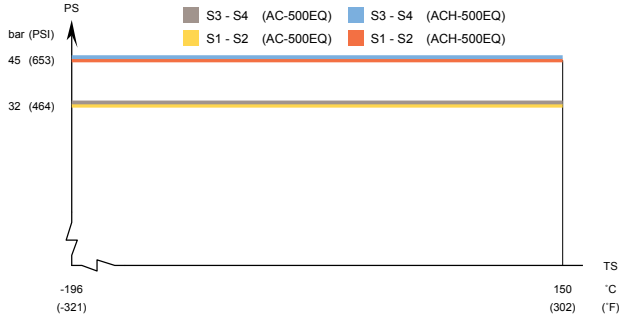
Dimensional drawing

Measurements in mm (inches)

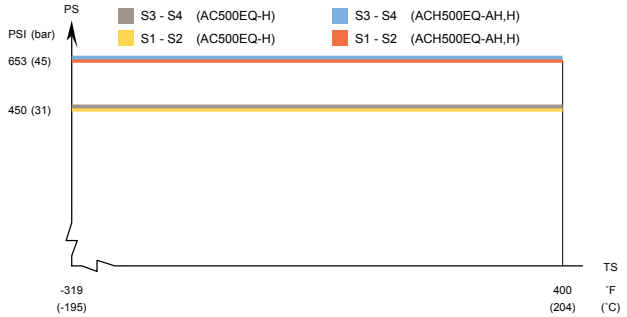


Design pressure and temperature

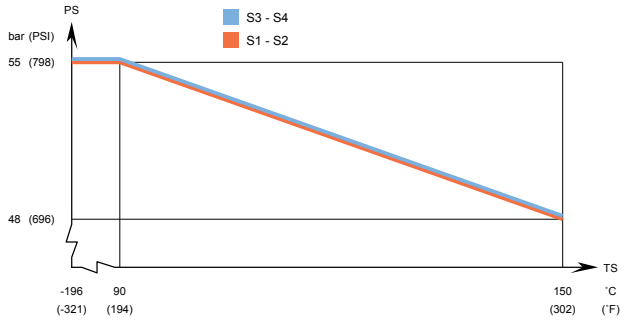
AC500EQ/ACH500EQ – PED approval pressure/temperature graph



AC500DEQ/ACH500EQ – UL approval pressure/temperature graph



ACP500EQ – PED approval pressure/temperature graph



Designed for full vacuum.

Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

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How to contact Alfa Laval

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Alfa Laval ACH240DQ

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

The True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

The asymmetry guarantees the best performance in both full- and partial-load conditions.

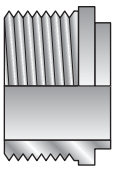
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

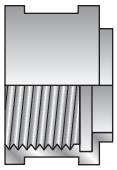
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

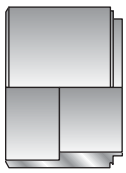
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

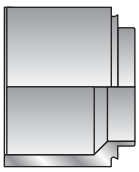
Suitable with most HFC, HFO and natural refrigerants.

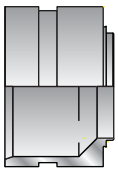
Examples of connections


External thread


Internal thread


Soldering


Welding


Grooved connection

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	12.6 + (2.13 * n)
A measure (inches)	0.5 + (0.08 * n)
Weight (kg)[2]	6 + (0.43 * n)
Weight (lb)[2]	13.23 + (0.95 * n)

1. n = number of plates
2. Excluding connections

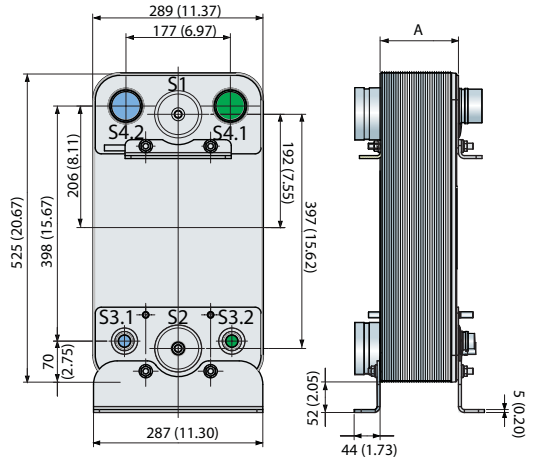
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.27 (0.070) (S3-S4): 0.24 (0.062)
Max. particle size, mm (inch)	0.9 (0.035)
Max. flowrate[1] m^3/h (gpm)	51 (224)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	262

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

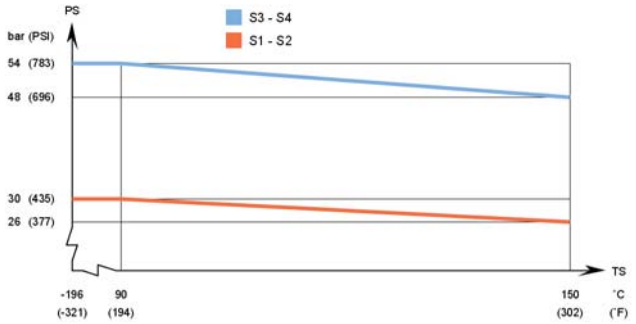
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

ACH240DQ – PED approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval AC232DQ / ACH232DQ

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

The True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	13 + (2.14 * n)
A measure (inches)	0.51 + (0.08 * n)
Weight (kg)[2]	6 + (0.4 * n)
Weight (lb)[2]	13.23 + (0.88 * n)

1. n = number of plates
2. Excluding connections

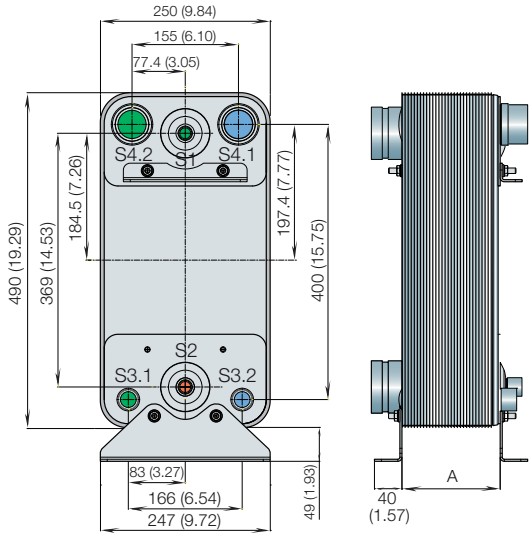
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.16 (0.040) (S3-S4): 0.20 (0.052)
Max. particle size, mm (inch)	0.9 (0.035)
Max. flowrate[1] m^3/h (gpm)	60 (264)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	260

1. Water at 7 m/s (16.4 ft/s) (connection velocity)

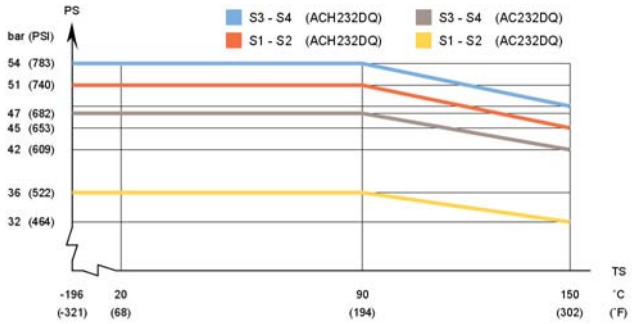
Dimensional drawing

Measurements in mm (inches)

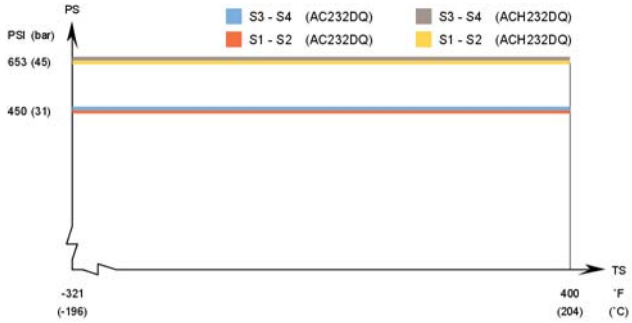


Design pressure and temperature

AC232DQ/ACH232DQ – PED approval pressure/temperature graph



AC232DQ/ACH232DQ – UL approval pressure/temperature graph



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Alfa Laval AC230EQ / ACH230EQ

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser
- Cascade systems

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

Single-circuit design.

The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	13 + (2.14 * n)
A measure (inches)	0.51 + (0.08 * n)
Weight (kg)[2]	5.6 + (0.4 * n)
Weight (lb)[2]	12.35 + (0.88 * n)

1. n = number of plates
2. Excluding connections

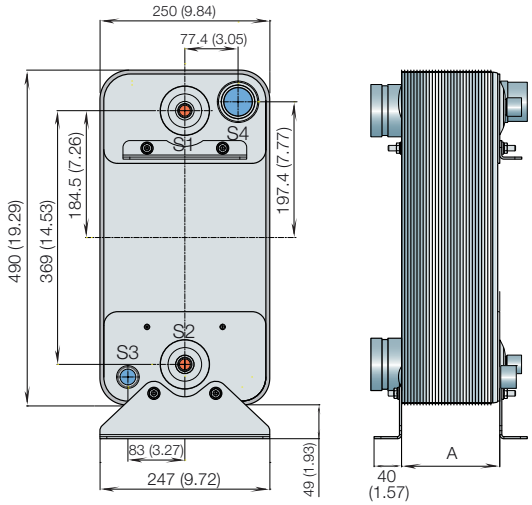
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.16 (0.040) (S3-S4): 0.20 (0.052)
Max. particle size, mm (inch)	0.9 (0.035)
Max. flowrate[1] m^3/h (gpm)	60 (264)
Flow direction	Diagonal
Min. number of plates	10
Max. number of plates	250

1. Water at 7 m/s (16.4 ft/s) (connection velocity)

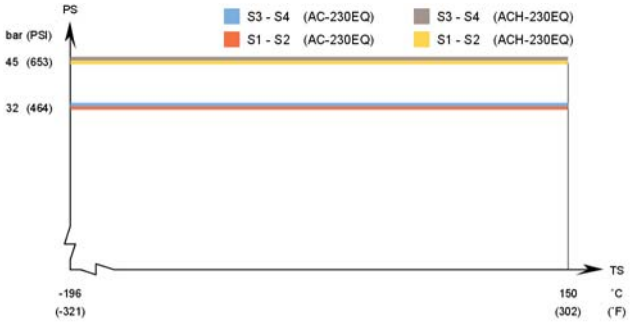
Dimensional drawing

Measurements in mm (inches)

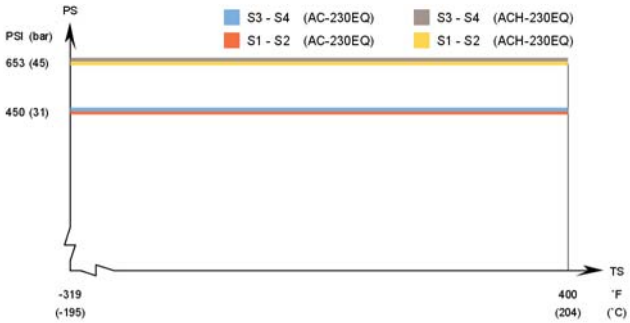


Design pressure and temperature

AC230EQ/ACH230EQ – PED approval pressure/temperature graph



AC230EQ/ACH230EQ – UL approval pressure/temperature graph



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Alfa Laval AC230DQ / ACH230DQ

Brazed plate heat exchanger for air conditioning and refrigeration

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Applications
- Evaporator
- Condenser

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

The True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	13 + (2.14 * n)
A measure (inches)	0.51 + (0.08 * n)
Weight (kg)[2]	6 + (0.4 * n)
Weight (lb)[2]	13.23 + (0.88 * n)

1. n = number of plates
2. Excluding connections

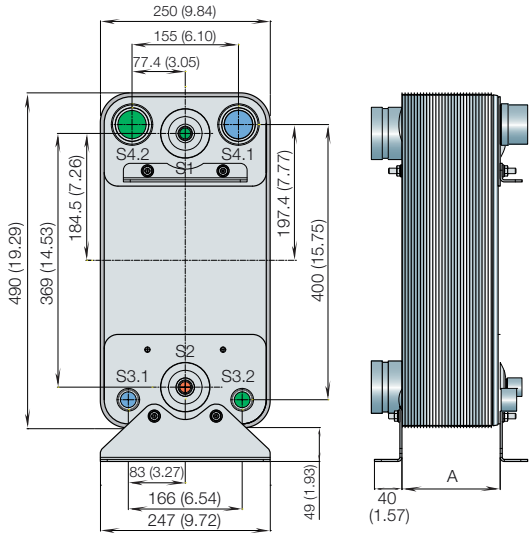
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.16 (0.040) (S3-S4): 0.20 (0.052)
Max. particle size, mm (inch)	0.9 (0.035)
Max. flowrate[1] m^3/h (gpm)	60 (264)
Flow direction	Diagonal
Min. number of plates	10
Max. number of plates	250

1. Water at 7 m/s (16.4 ft/s) (connection velocity)

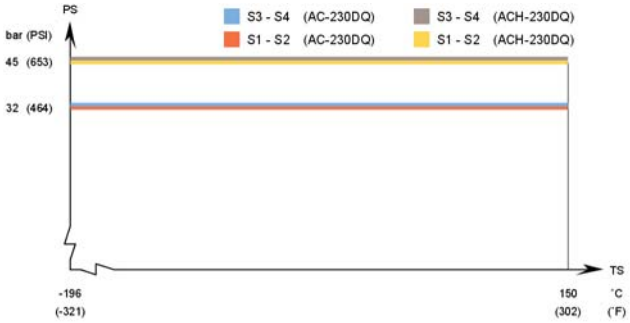
Dimensional drawing

Measurements in mm (inches)

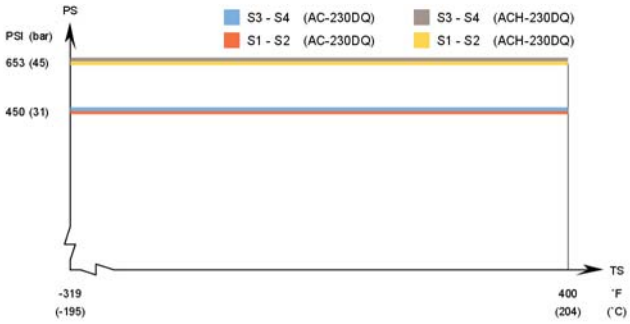


Design pressure and temperature

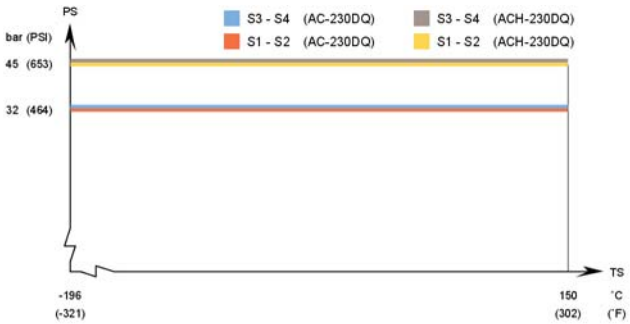
AC230DQ/ACH230EQ – PED approval pressure/temperature graph



AC230DQ/ACH230DQ – UL approval pressure/temperature graph



AC230DQ/ACH230EQ – PED approval pressure/temperature graph



Designed for full vacuum.

Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

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How to contact Alfa Laval
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Alfa Laval AC220EQ / ACH220EQ / ACP220EQ

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser
- Cascade systems

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

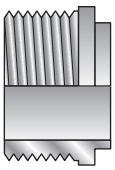
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

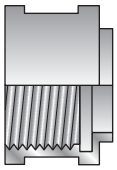
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

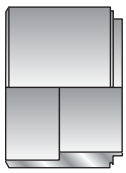
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

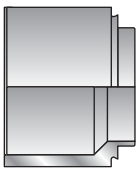
Suitable with most HFC, HFO and natural refrigerants.

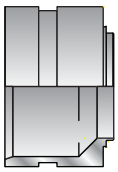
Examples of connections


External thread


Internal thread


Soldering


Welding


Grooved connection

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	16 + (2.07 * n)
A measure (inches)	0.63 + (0.08 * n)
Weight (kg)[2]	4.82 + (0.35 * n)
Weight (lb)[2]	10.63 + (0.77 * n)

1. n = number of plates
2. Excluding connections

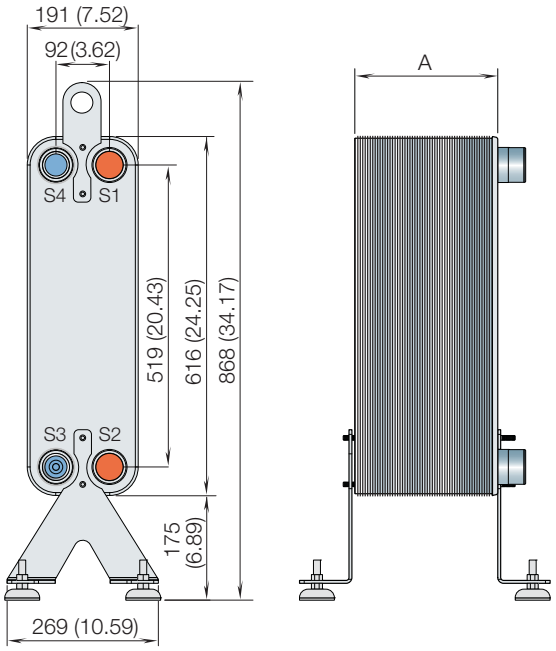
Standard data

Volume per channel, litres (gal)	M, L: 0.18 (0.046) AH, AM (S1-S2): 0.20 (0.052) AH, AM (S3-S4): 0.16 (0.041)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate[1] m^3/h (gpm)	51 (224)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	300

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

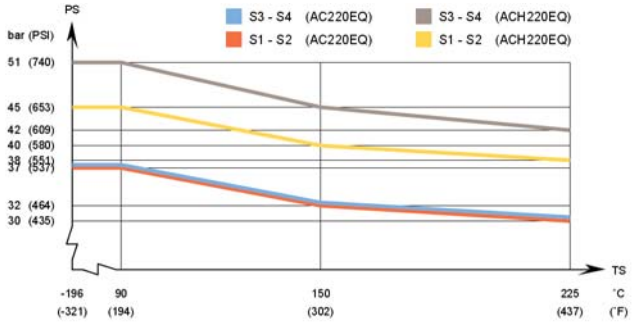
Dimensional drawing

Measurements in mm (inches)

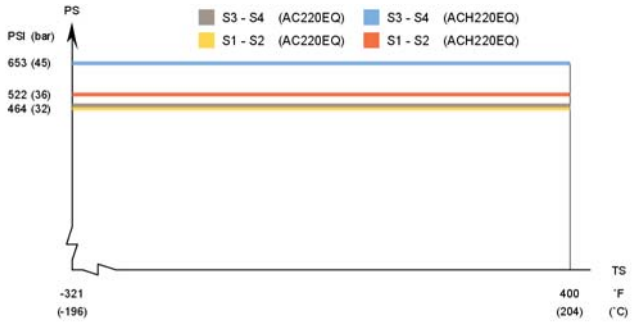


Design pressure and temperature

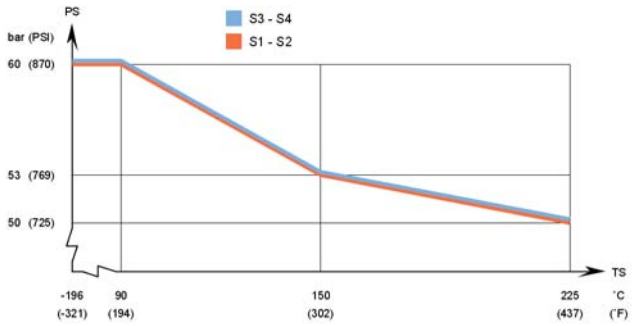
AC220EQ/ACH220EQ – PED approval pressure/temperature graph



AC220EQ/ACH220EQ – PED approval pressure/temperature graph



ACP220EQ – PED approval pressure/temperature graph



Designed for full vacuum.

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Marine Approvals

ACMH220EQ can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV, GL, LR, RINA, RMRS)

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 direct.

Alfa Laval AC112 / ACH112

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser
- Cascade systems

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

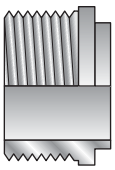
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

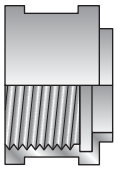
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections


External thread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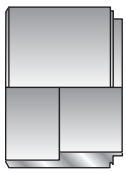
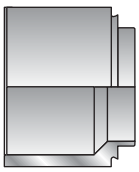
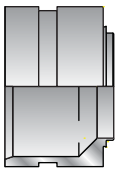

Soldering


Welding


Grooved connection

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	16 + (2.07 * n)
A measure (inches)	0.63 + (0.081 * n)
Weight (kg)[2]	4.82 + (0.35 * n)
Weight (lb)[2]	10.63 + (0.77 * n)

1. n = number of plates
2. Excluding connections

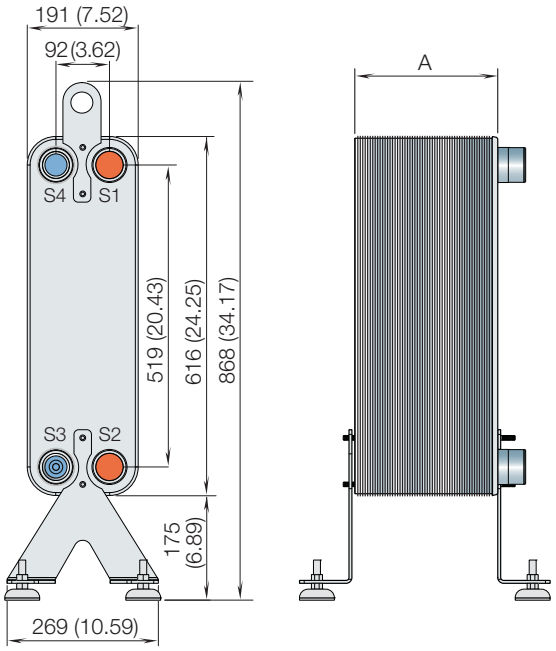
Standard data

Volume per channel, litres (gal)	H, L, M: 0.18 (0.046) AH, AM (S1-S2): 0.20 (0.052) AH, AM (S3-S4): 0.16 (0.041)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate[1] m^3/h (gpm)	51 (224)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	300

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

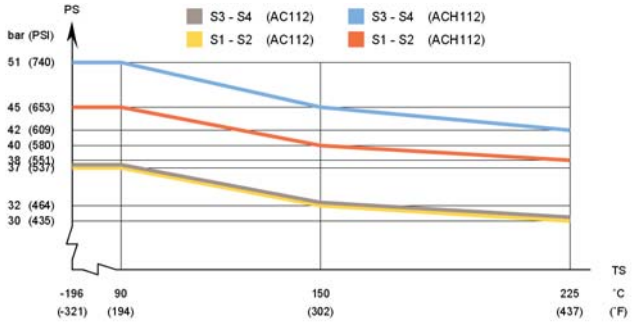
Dimensional drawing

Measurements in mm (inches)

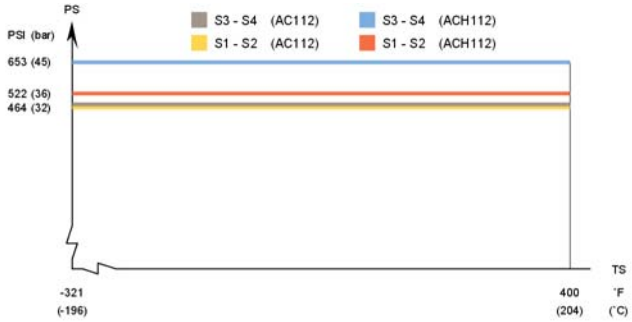


Design pressure and temperature

AC112/ACH112 – PED approval pressure/temperature graph



AC112/ACH112 – UL approval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval
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Alfa Laval AC72 / ACH72

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser
- Cascade systems

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

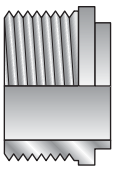
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

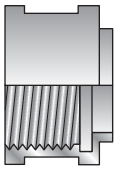
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

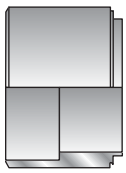
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

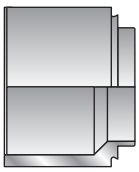
Suitable with most HFC, HFO and natural refrigerants.

Examples of connections


External thread


Internal thread


Soldering


Welding

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	13 + (1.98 * n)
A measure (inches)	0.51 + (0.08 * n)
Weight (kg)[2]	2.1 + (0.19 * n)
Weight (lb)[2]	4.63 + (0.42 * n)

1. n = number of plates
2. Excluding connections

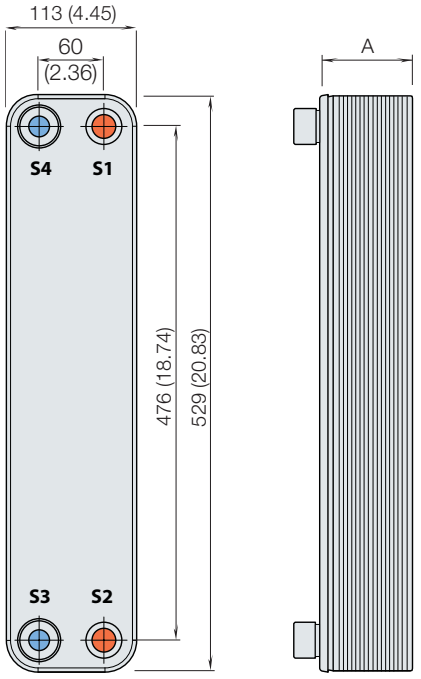
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.10 (0.027) (S3-S4): 0.084 (0.022)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate[1] m^3/h (gpm)	12 (53)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	160

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

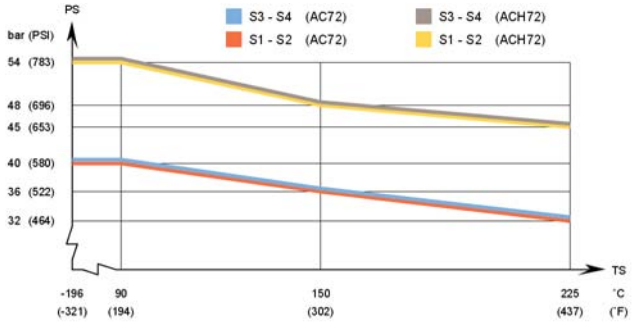
Dimensional drawing

Measurements in mm (inches)

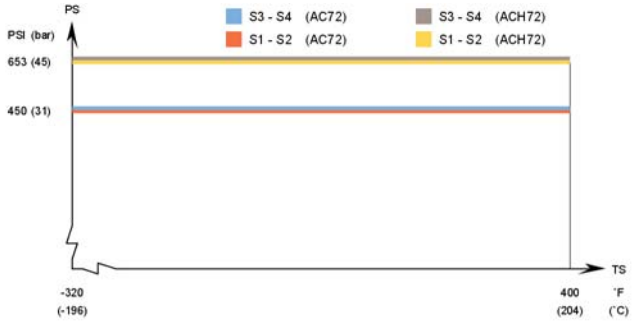


Design pressure and temperature

AC72/ACH72 – PED approval pressure/temperature graph



AC72/ACH72 – UL approval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval
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Alfa Laval AC70X / ACH70X / ACP70X

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser
- Cascade systems

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

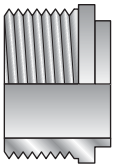
Different pressure ratings are available for different needs.

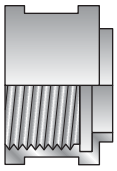
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

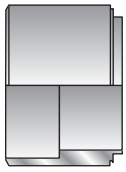
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

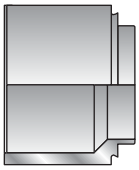
Suitable with most HFC, HFO and natural refrigerants.

Examples of connections


External thread


Internal thread


Soldering


Welding

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	11 + (2.3 * n)
A measure (inches)	0.43 + (0.09 * n)
Weight (kg)[2]	1.9 + (0.18 * n)
Weight (lb)[2]	4.19 + (0.4 * n)

1. n = number of plates
2. Excluding connections

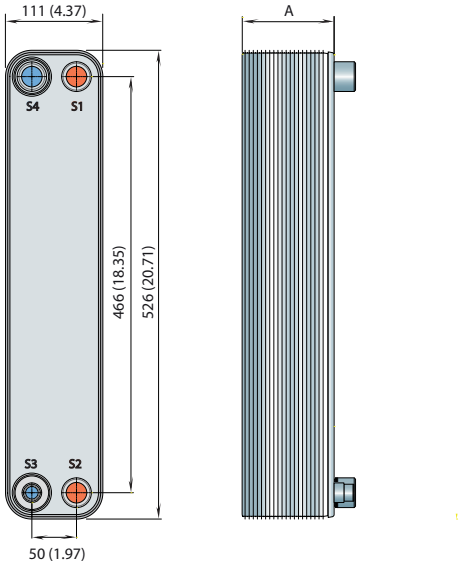
Standard data

Volume per channel, litres (gal)	0.095 (0.025)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate[1] m^3/h (gpm)	14 (62)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	124

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

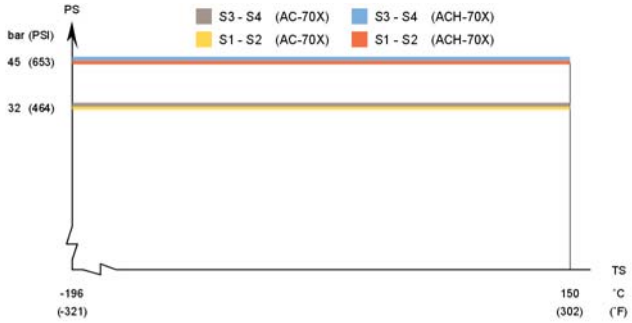
Dimensional drawing

Measurements in mm (inches)

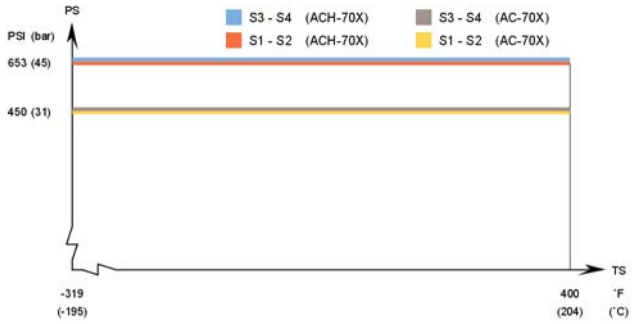


Design pressure and temperature

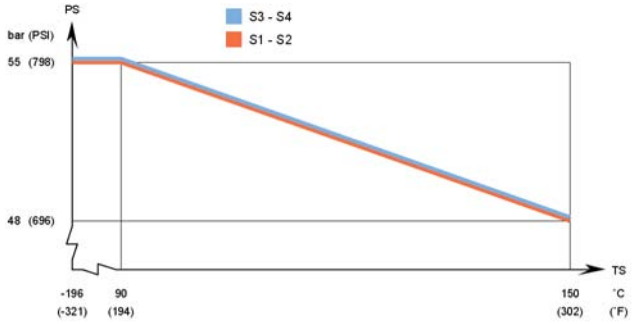
AC70X/ACH70X – PED approval pressure/temperature graph



AC70X/ACH70X – UL approval pressure/temperature graph



ACP70X – PED approval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval
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Alfa Laval AC30EQ / ACH30EQ

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser
- Cascade systems

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

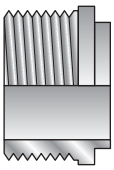
Different pressure ratings are available for different needs.

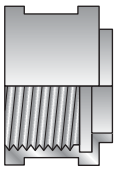
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections


External thread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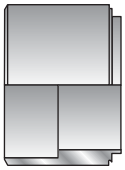

Soldering

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	9 + (1.52 * n)
A measure (inches)	0.35 + (0.06 * n)
Weight (kg)[2]	1 + (0.09 * n)
Weight (lb)[2]	2.2 + (0.2 * n)

1. n = number of plates
2. Excluding connections

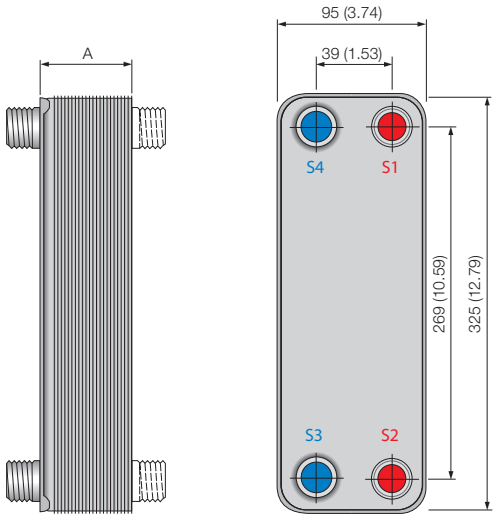
Standard data

Volume per channel, litres (gal)	0.028 (0.0072)
Max. particle size, mm (inch)	0.6 (0.024)
Max. flowrate[1] m^3/h (gpm)	8.8 (39)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	120

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

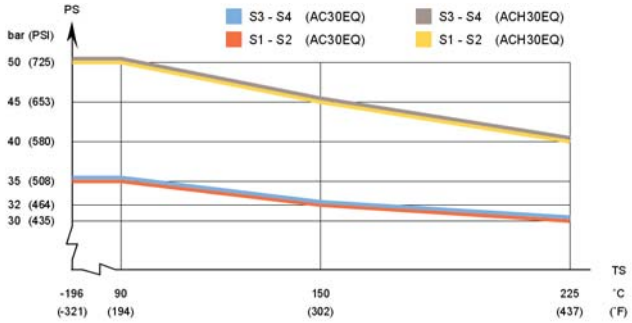
Dimensional drawing

Measurements in mm (inches)

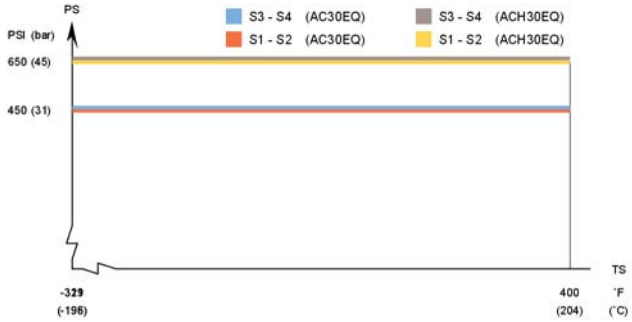


Design pressure and temperature

AC30EQ/ACH30EQ – PED approval pressure/temperature graph



AC30EQ/ACH30EQ – UL approval pressure/temperature graph



Designed for full vacuum.

Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

NOTE: Values above are to be used as an indication. For exact values, please use the drawing generated by the Alfa Laval configurator or contact your local Alfa Laval representative.

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 direct.

Alfa Laval AC18 / ACH18

Brazed plate heat exchanger for air conditioning and refrigeration

Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

Applications
- Evaporator
- Condenser
- Cascade systems

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

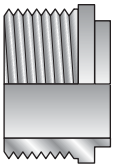
Different pressure ratings are available for different needs.

Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections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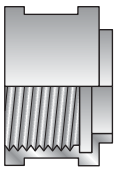
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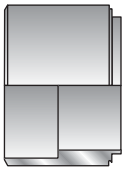

Soldering

Technical Data

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Dimensions and weight[1]

A measure (mm)	8.8 + (2.16 * n)
A measure (inches)	0.35 + (0.09 * n)
Weight (kg)[2]	0.4 + (0.07 * n)
Weight (lb)[2]	0.88 + (0.15 * n)

1. n = number of plates
2. Excluding connections

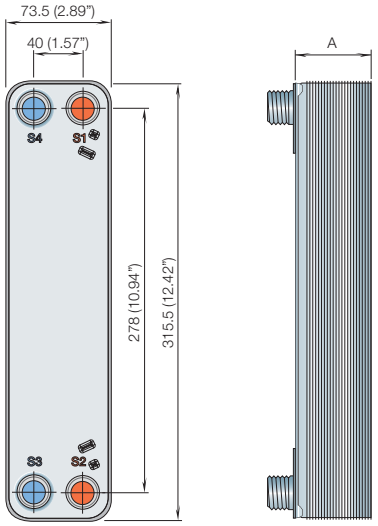
Standard data

Volume per channel, litres (gal)	A (S1-S2): 0.042 (0.011) A (S3-S4): 0.035 (0.0089) H: 0.038 (0.0098)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate[1] m^3/h (gpm)	4.1 (18)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	52

1. Water at 5 m/s (16.4 ft/s) (connection velocity)

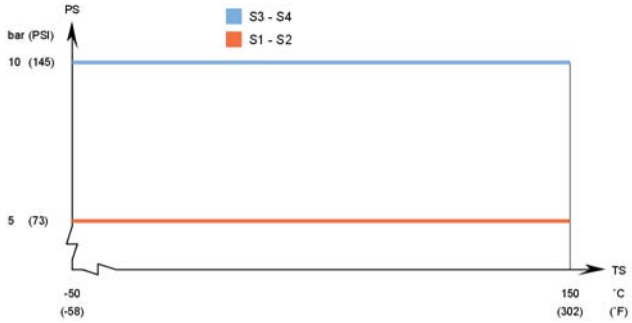
Dimensional drawing

Measurements in mm (inches)

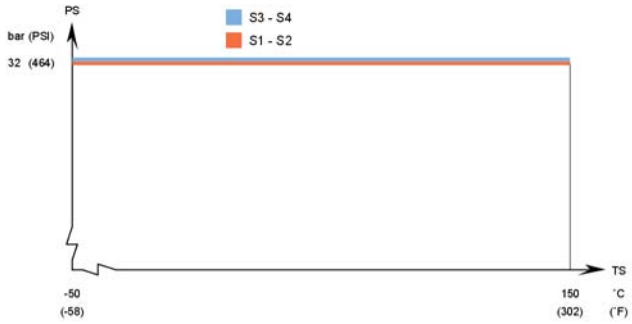


Design pressure and temperature

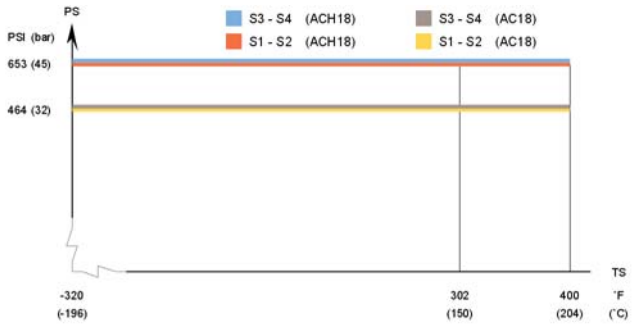
AC18 – PED approval pressure/temperature graph



ACH18 – PED approval pressure/temperature graph



AC18/ACH18 – UL approval pressure/temperature graph



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