Alfa Laval AC16 / ACH16 / ACK16

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.

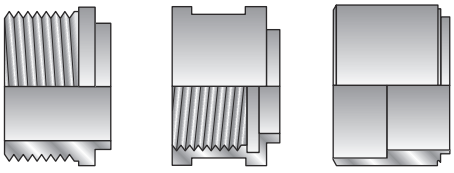
Different pressure ratings are available for different needs.

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 | Internal thread | 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]	0.267 + (0.04 * n)
Weight (lb) [2]	0.59 + (0.09 * n)

[1] n = number of plates

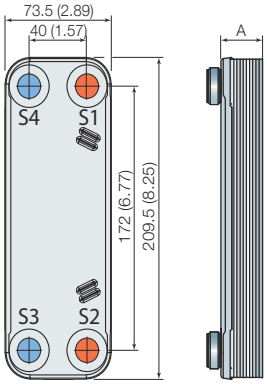
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	A (S1–S2): 0.03004 (0.0079) A (S3–S4): 0.02425 (0.0064) H: 0.02716 (0.0072)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate [1] m^3/h (gpm)	4.1 (18.1)
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)

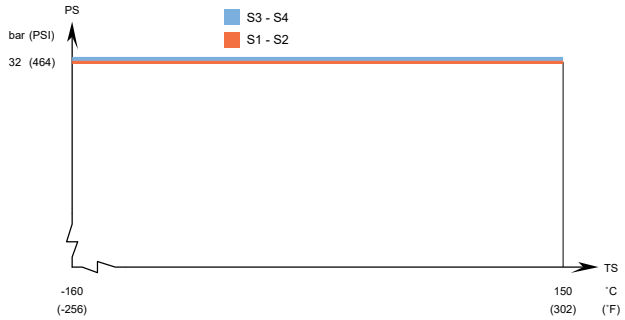
Dimensional drawing

Measurements in mm (inches)

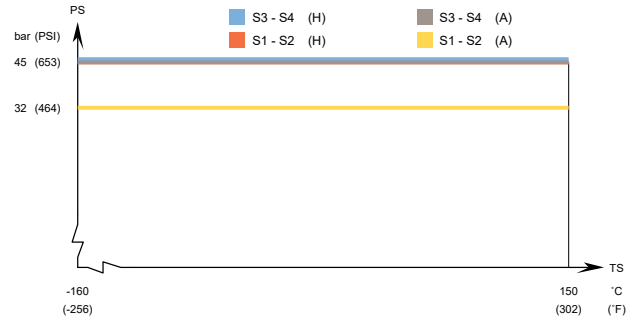


Design pressure and temperature

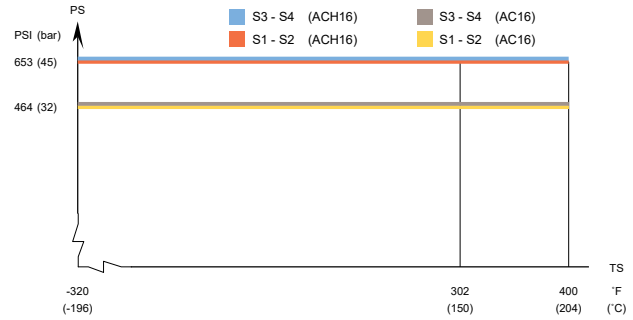
AC16 – PED approval pressure/temperature graph



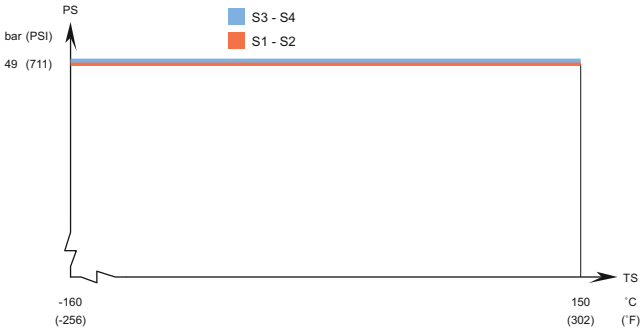
ACH16 – PED approval pressure/temperature graph



AC16/ACH16 – UL approval pressure/temperature graph



ACK16 – 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.

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.

Alfa Laval AC18 / ACH18 / ACK18

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.

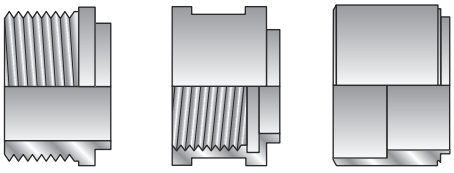
Different pressure ratings are available for different needs.

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 | Internal thread | 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

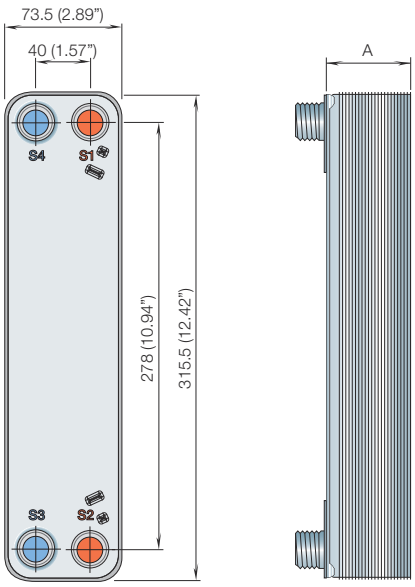
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	A (S1–S2): 0.042 (0.0111) A (S3–S4): 0.0345 (0.0091) H: 0.0379 (0.0100)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate [1] m^3/h (gpm)	4.1 (18.1)
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)

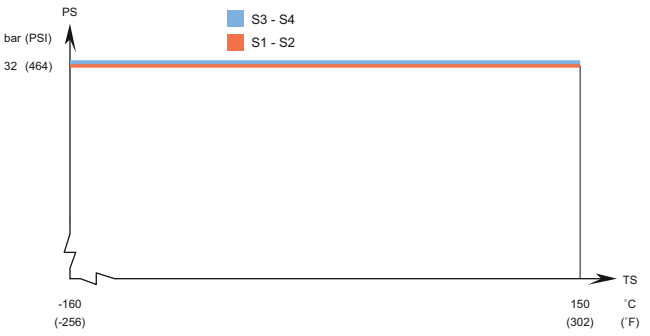
Dimensional drawing

Measurements in mm (inches)

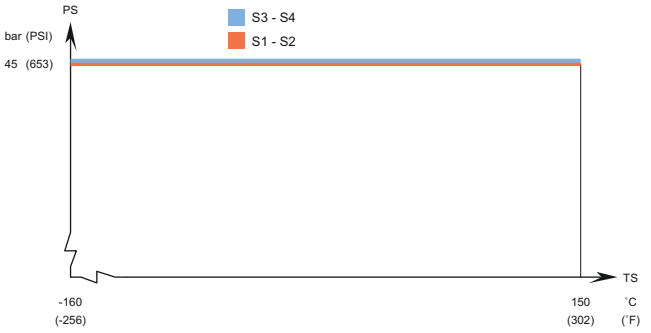


Design pressure and temperature

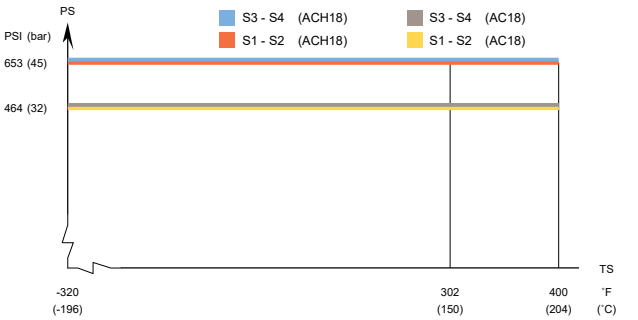
AC18 – PED approval pressure/temperature graph



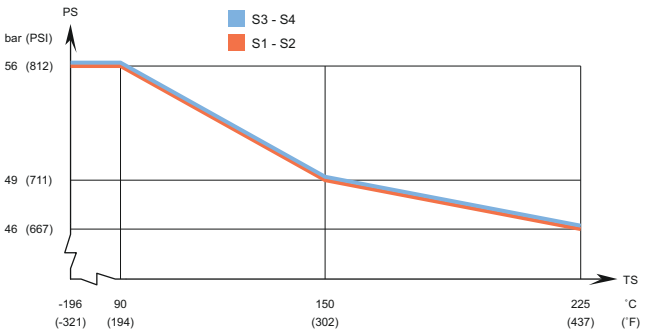
ACH18 – PED approval pressure/temperature graph



AC18/ACH18 – UL approval pressure/temperature graph



ACK18 – 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.

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.

Alfa Laval AC30EQ / ACH30EQ

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.

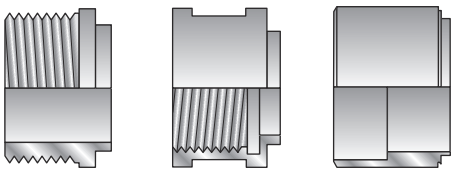
Different pressure ratings are available for different needs.

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

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]	2.20 + (0.20 * n)

[1] n = number of plates

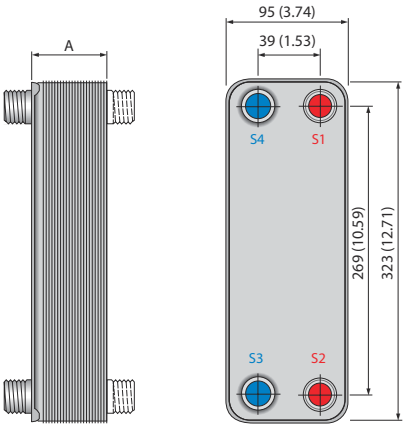
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	0.028 (0.0074)
Max. particle size, mm (inch)	0.6 (0.024)
Max. flowrate [1] m^3/h (gpm)	8.8 (38.7)
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)

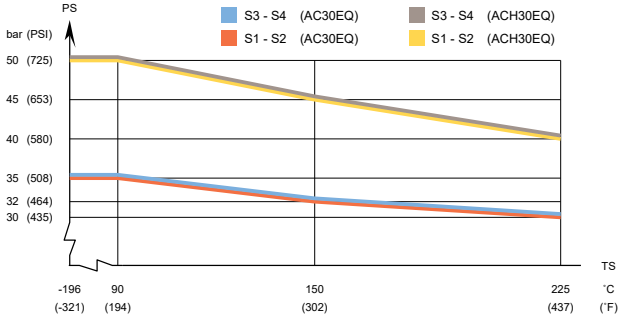
Dimensional drawing

Measurements in mm (inches)

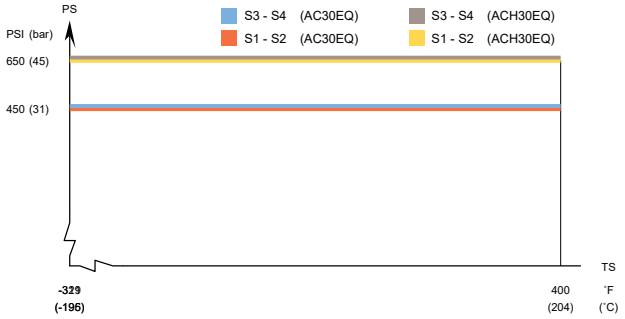


Design pressure and temperature

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

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com

Alfa Laval AC40 / ACH40 / ACP40

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
- 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.

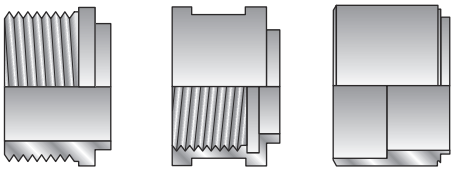
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

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

Technical Data

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

Dimensions and weight [1]	
A measure (mm)	12.5 + (1.55 * n)
A measure (inches)	0.49 + (0.06 * n)
Weight (kg) [2]	1.4 + (0.11 * n)
Weight (lb) [2]	3.09 + (0.24 * n)

[1] n = number of plates

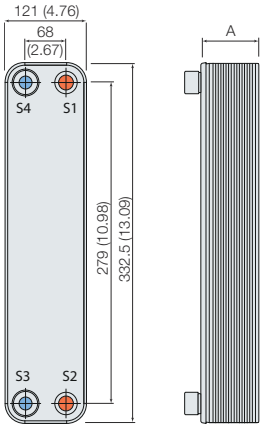
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.048 (0.0127) (S3-S4): 0.041 (0.0108)
Max. particle size, mm (inch)	0.6 (0.024)
Max. flowrate [1] m^3/h (gpm)	8.8 (38.7)
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)

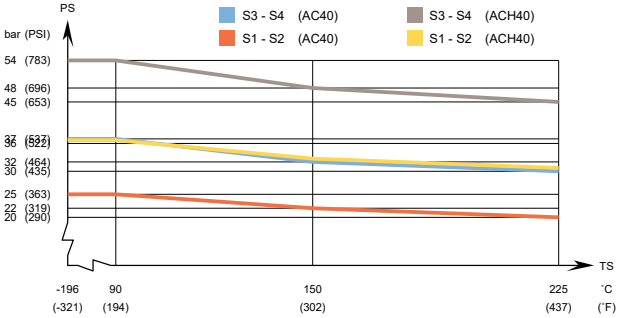
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

AC40/ACH40 – PED approval pressure/temperature graph



ACP40 – PED approval pressure/temperature graph

Designed for full vacuum.

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How to contact Alfa Laval

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Alfa Laval AC43/ACH43/ACP43

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
- All units are pressure and leak tested
- Gasket free

Branded Features

DynaStatic™	Flexible refrigerant distribution
FlexFlow™	Superior thermal performance
IceSafe	Controlled, non-destructive freezing
PressureSecure	Unparalleled strength for demanding duties
REFuture	A future-proof investment for tomorrow's refrigerants
ValuePlus	Total support – with value-adding options to fit your needs

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.

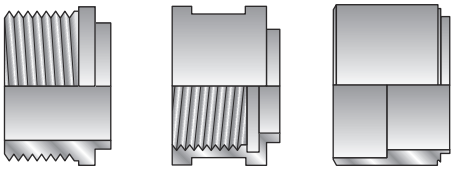
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

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

Technical Data

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

Dimensions and weight [1]	
A measure (mm)	12.5 + (1.55 * n)
A measure (inches)	0.49 + (0.06 * n)
Weight (kg) [2]	1.4 + (0.11 * n)
Weight (lb) [2]	3.09 + (0.24 * n)

[1] n = number of plates

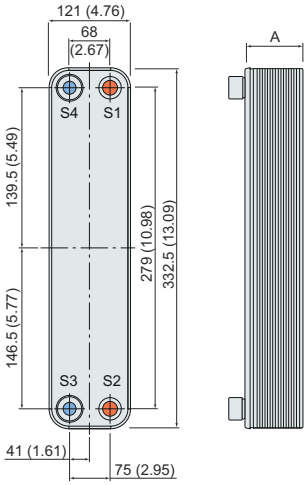
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.048 (0.0127) (S3-S4): 0.041 (0.0108)
Max. particle size, mm (inch)	0.6 (0.024)
Max. flowrate [1] m^3/h (gpm)	8.8 (38.7)
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)

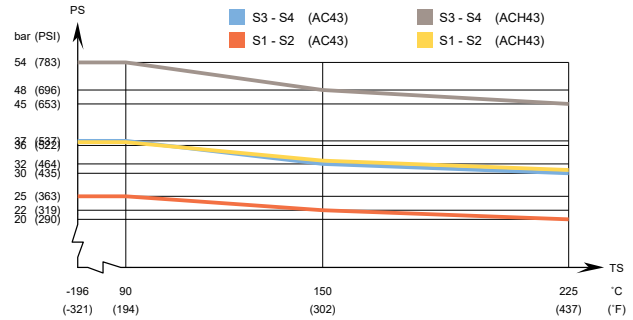
Dimensional drawing

Measurements in mm (inches)

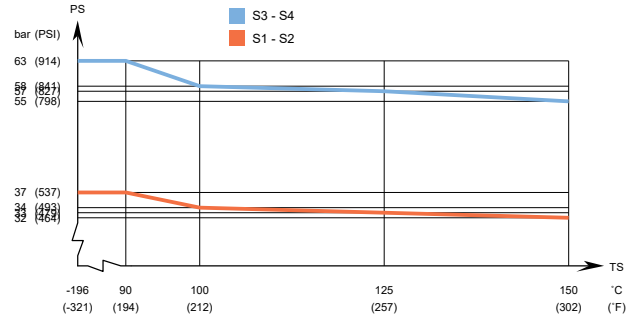


Design pressure and temperature

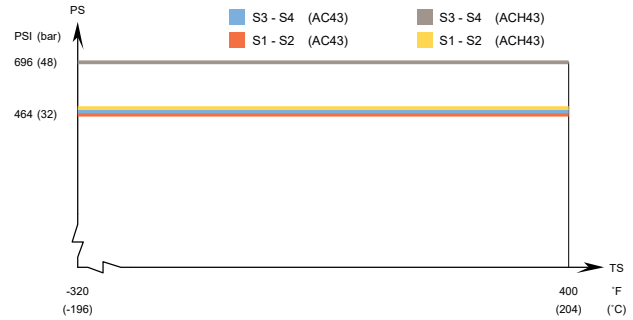
AC43/ACH43 – PED approval pressure/temperature graph



ACP43 – PED approval pressure/temperature graph



AC43/ACH43 – UL approval pressure/temperature graph



Designed for full vacuum.

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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

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Alfa Laval AC65 /ACH65

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

Branded Features

DynaStatic™	Flexible refrigerant distribution
FlexFlow™	Superior thermal performance
IceSafe	Controlled, non-destructive freezing
PressureSecure	Unparalleled strength for demanding duties
REFuture	A future-proof investment for tomorrow's refrigerants
ValuePlus	Total support – with value-adding options to fit your needs

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.

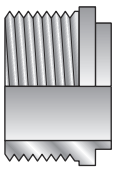
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

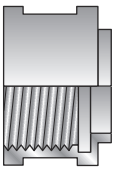
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

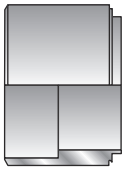
Examples of connections



External thread



Internal thread



Soldering

Technical Data

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

Dimensions and weight [1]	
A measure (mm)	11.5 + (1.38 * n)
A measure (inches)	0.45 + (0.05 * n)
Weight (kg) [2]	2.1 + (0.14 * n)
Weight (lb) [2]	69.44 + (3.00 * n)

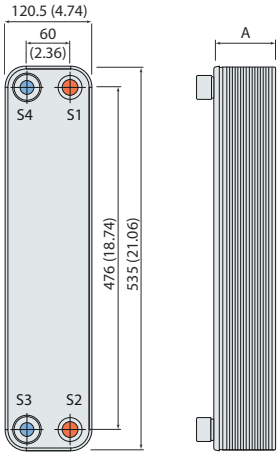
[1] n = number of plates

[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	S1–S2: 0.088 (0.0232) S3–S4: 0.046 (0.0122)
Max. particle size, mm (inch)	0.7 (0.028)
Max. flowrate m^3/h (gpm)	11 (48.4)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	120

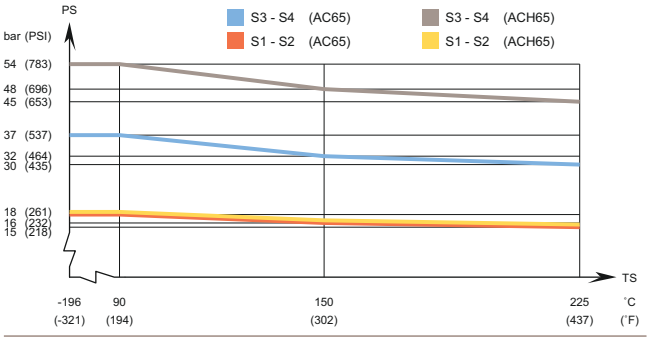
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

AC65/ACH65 – 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 AC70X / ACH70X / ACP70X

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.

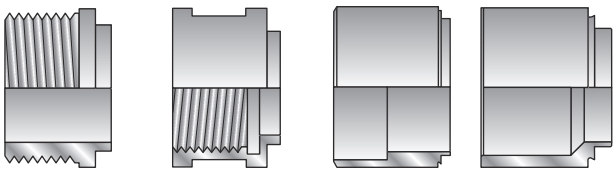
Different pressure ratings are available for different needs.

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 + (0.40 * n)

[1] n = number of plates

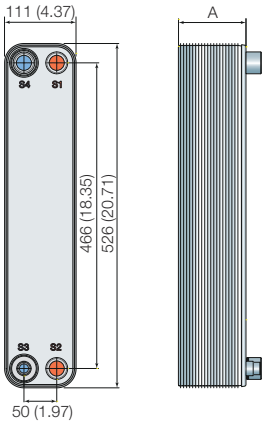
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	0.095 (0.0251)
Max. particle size, mm (inch)	1.0 (0.039)
Max. flowrate [1] m^3/h (gpm)	14 (61.6)
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)

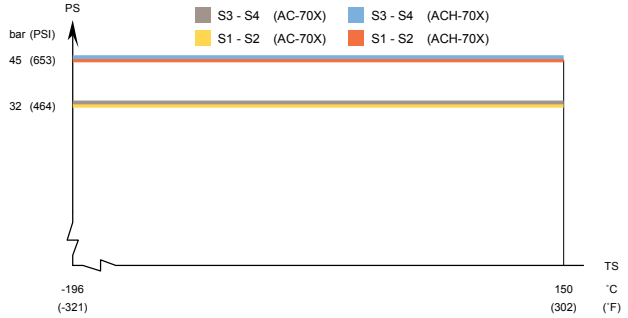
Dimensional drawing

Measurements in mm (inches)

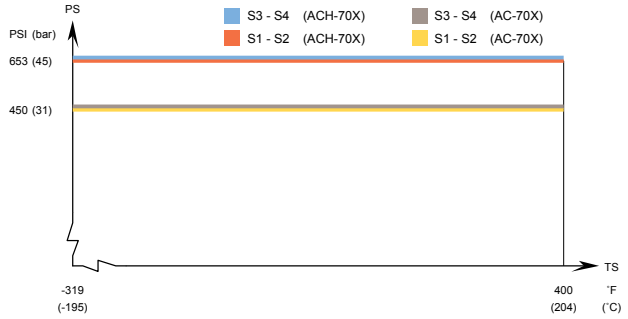


Design pressure and temperature

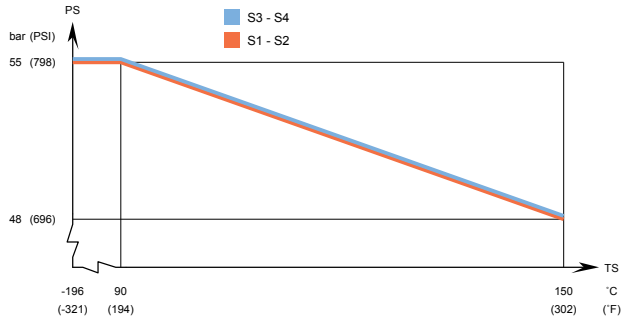
AC70X/ACH70X – PED approval pressure/temperature graph



AC70X/ACH70X – UL approval pressure/temperature graph



ACP70X – PED approval pressure/temperature graph



Designed for full vacuum.

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

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Alfa Laval AC72 / ACH72

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.

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.

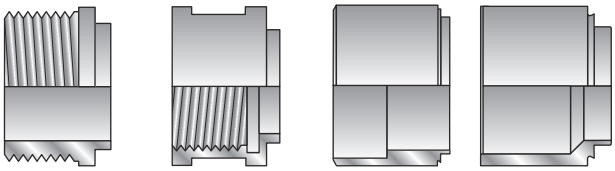
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

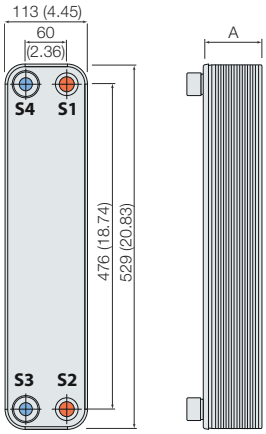
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.104 (0.0275) (S3-S4): 0.084 (0.0222)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate [1] m^3/h (gpm)	12 (52.8)
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)

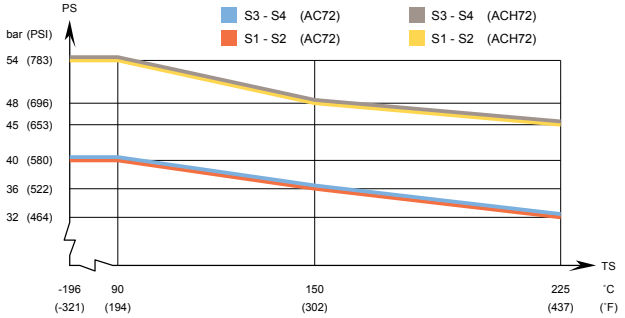
Dimensional drawing

Measurements in mm (inches)

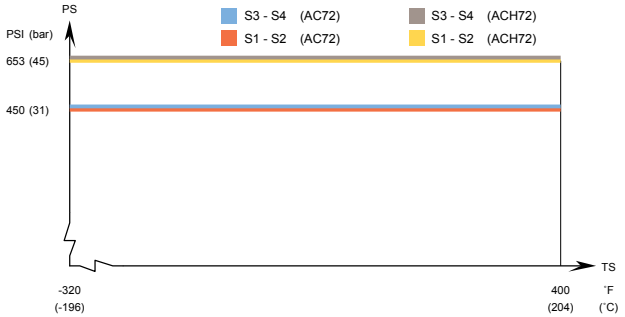


Design pressure and temperature

AC72/ACH72 – PED approval pressure/temperature graph /



AC72/ACH72 – UL approval pressure/temperature graph



Designed for full vacuum.

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 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

Branded Features

DynaStatic™	Flexible refrigerant distribution
FlexFlow™	Superior thermal performance
IceSafe	Controlled, non-destructive freezing
PressureSecure	Unparalleled strength for demanding duties
REFuture	A future-proof investment for tomorrow's refrigerants
ValuePlus	Total support – with value-adding options to fit your needs

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.

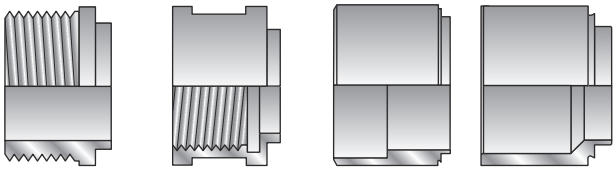
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

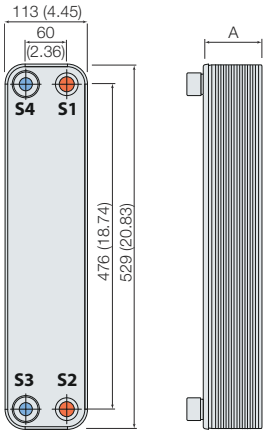
[2] Excluding connections

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)

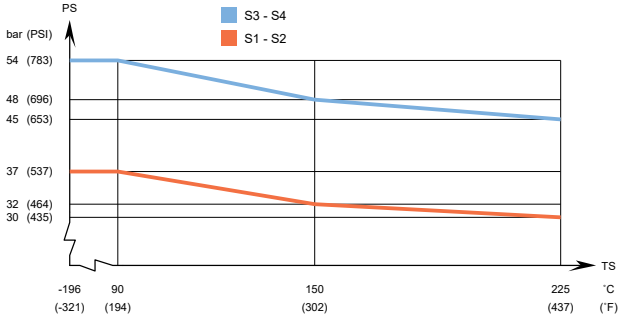
Dimensional drawing

Measurements in mm (inches)

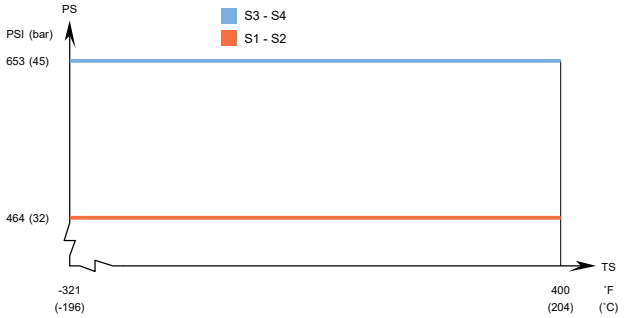


Design pressure and temperature

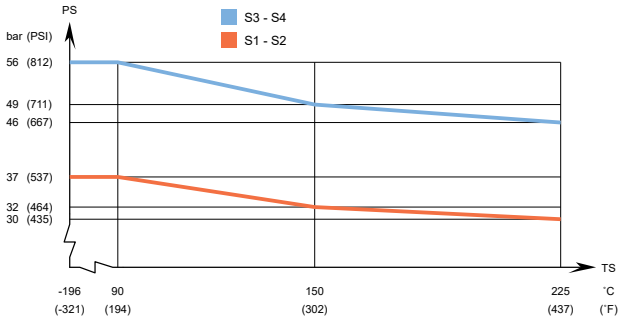
ACH73 – PED approval pressure/temperature graph



ACH73 – UL approval pressure/temperature graph



ACK73 – PED approval 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

Branded Features

DynaStatic™	Flexible refrigerant distribution
FlexFlow™	Superior thermal performance
IceSafe	Controlled, non-destructive freezing
PressureSecure	Unparalleled strength for demanding duties
REFuture	A future-proof investment for tomorrow's refrigerants
ValuePlus	Total support – with value-adding options to fit your needs

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.

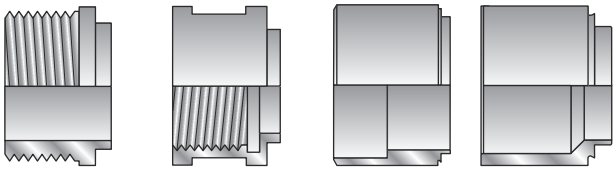
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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-measurement (mm)	12 + (1.96 * n)
A-measurement (inches)	0.47 + (0.08 * n)
Weight (kg) [2]	2.6 + (0.22 * n)
Weight (lb) [2]	5.73 + (0.49 * n)

[1] n = number of plates

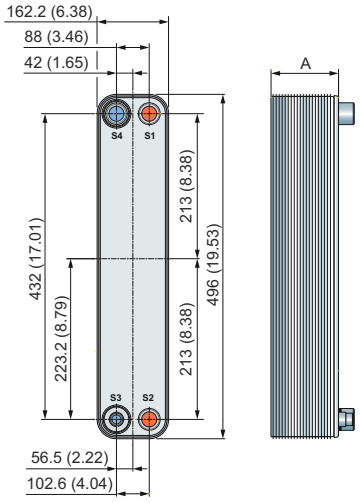
[2] Excluding connections

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)

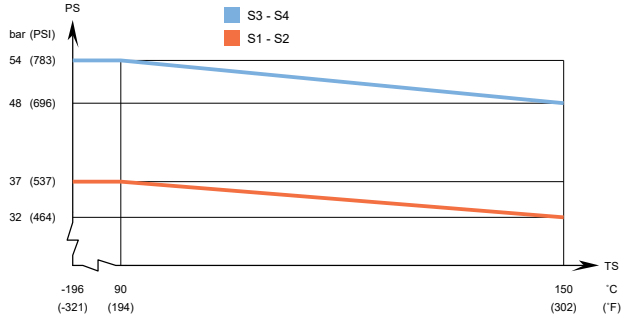
Dimensional drawing

Measurements in mm (inches)

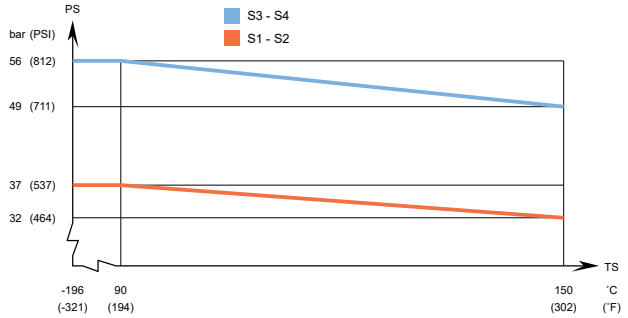


Design pressure and temperature

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 AC112 / ACH112

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.

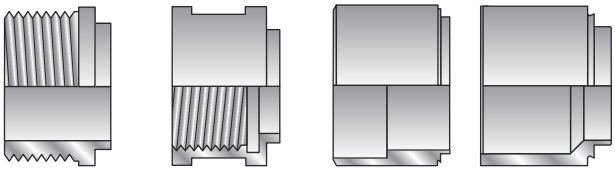
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

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

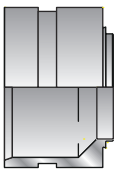
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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

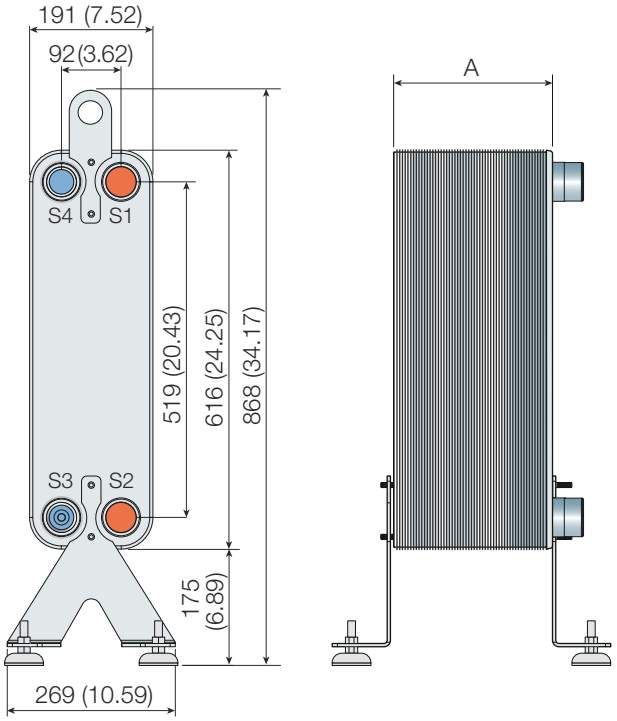
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	H, L, M: 0.18 (0.0476) AH, AM (S1-S2): 0.2 (0.0423) AH, AM (S3-S4): 0.16 (0.0423)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate [1] m^3/h (gpm)	51 (224.5)
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)

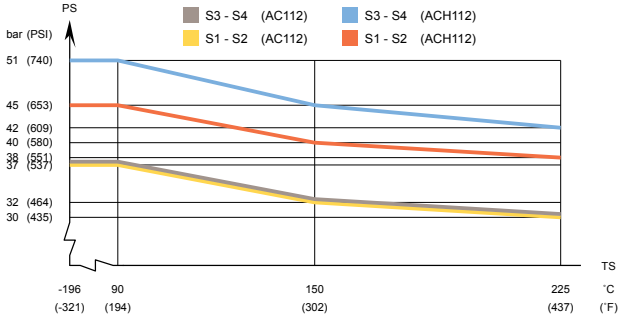
Dimensional drawing

Measurements in mm (inches)

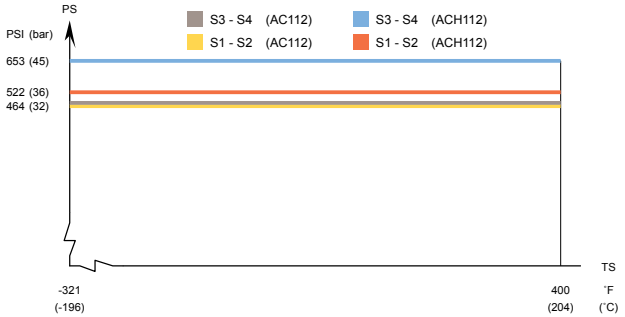


Design pressure and temperature

AC112/ACH112 – PED approval pressure/temperature graph



AC112/ACH112 – UL approval pressure/temperature graph



Designed for full vacuum.

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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

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Alfa Laval AC220EQ / ACH220EQ / ACP220EQ

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

Branded Features

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.

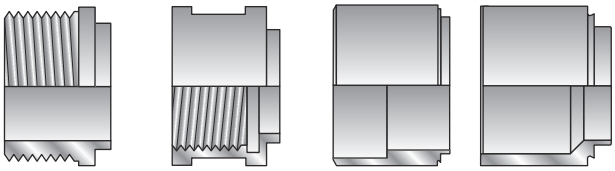
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

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

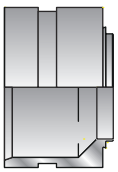
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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-measurement (mm)	16 + (2.06 * n)
A-measurement (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

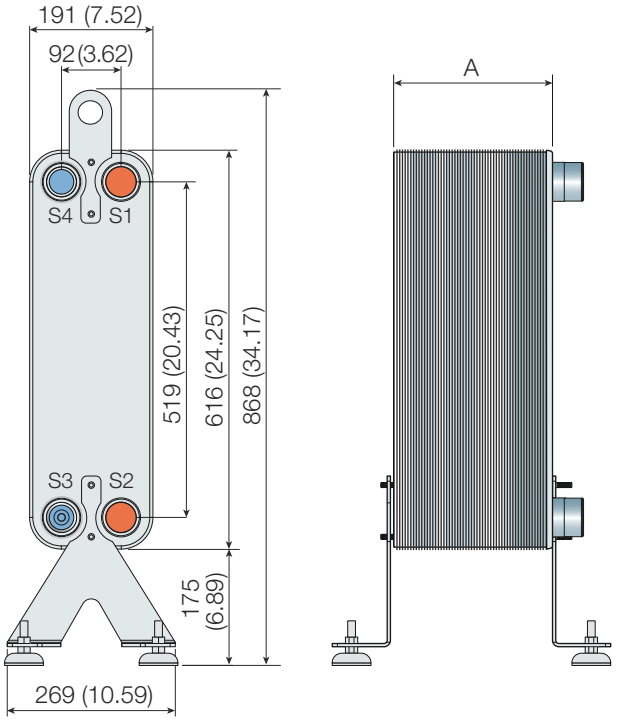
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	M, L: 0.2 (0.0528) AH, AM (S1-S2): 0.2 (0.0528) AH, AM (S3-S4): 0.16(0.0423)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate [1] m^3/h (gpm)	51 (224.5)
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)

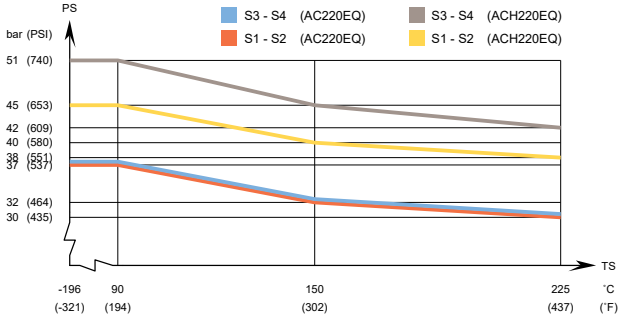
Dimensional drawing

Measurements in mm (inches)

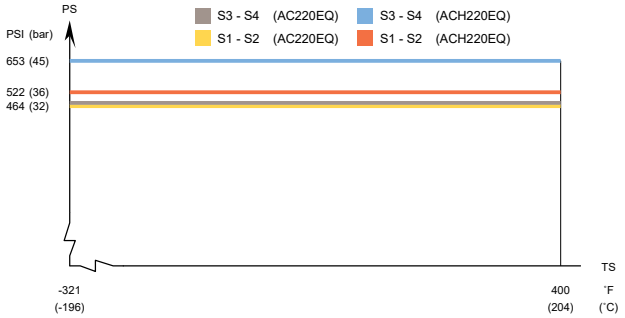


Design pressure and temperature

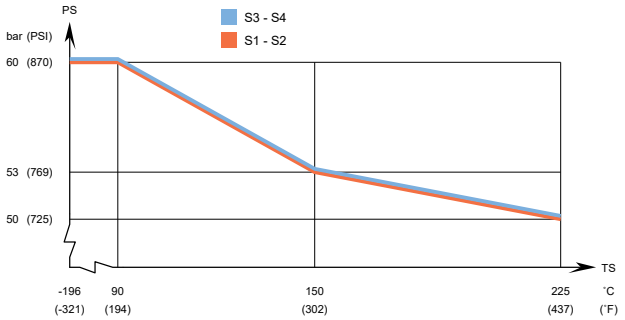
AC220EQ/ACH220EQ – PED approval pressure/temperature graph



AC220EQ/ACH220EQ – UL approval pressure/temperature graph



ACP220EQ – 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.

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.

Marine approvals

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

Alfa Laval AC230DQ / ACH230DQ

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

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.

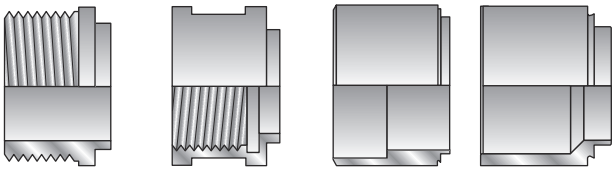
The True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

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

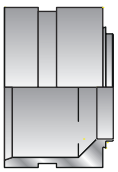
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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)	13 + (2.14 * n)
A measure (inches)	0.51 + (0.08 * n)
Weight (kg) [2]	6 + (0.40 * n)
Weight (lb) [2]	13.23 + (0.88 * n)

[1] n = number of plates

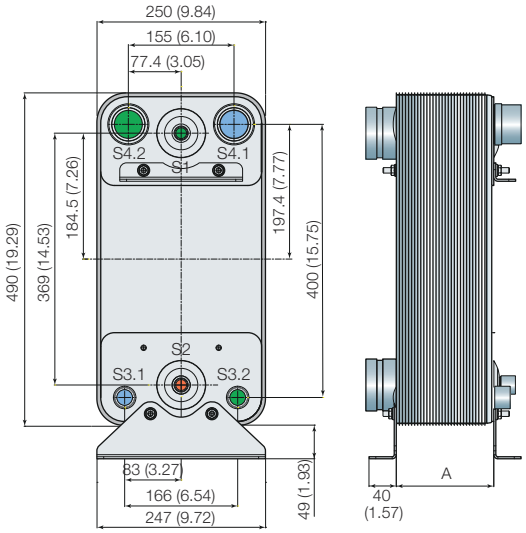
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.156 (0.0412) (S3-S4): 0.2 (0.0528)
Max. particle size, mm (inch)	0.9 (0.035)
Max. flowrate [1] m^3/h (gpm)	60 (264.2)
Flow direction	Diagonal
Min. number of plates	10
Max. number of plates	250

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

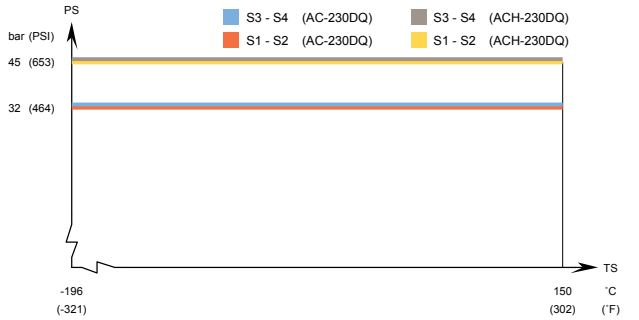
Dimensional drawing

Measurements in mm (inches)

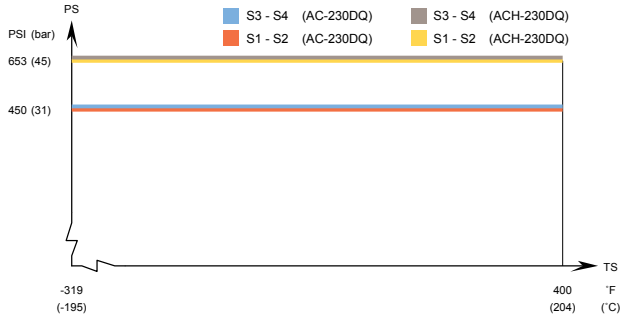


Design pressure and temperature

AC230DQ/ACH230EQ – PED approval pressure/temperature graph



AC230DQ/ACH230DQ – UL approval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval

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Alfa Laval AC232DQ / ACH232DQ

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

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.

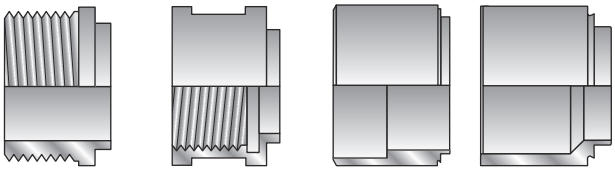
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

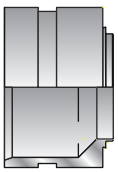
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

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)	13 + (2.14 * n)
A measure (inches)	0.51 + (0.08 * n)
Weight (kg) [2]	6 + (0.40 * n)
Weight (lb) [2]	13.23 + (0.88 * n)

[1] n = number of plates

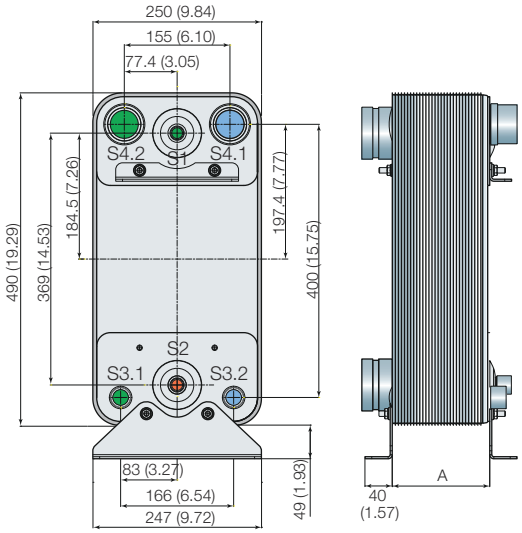
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.156 (0.0412) (S3-S4): 0.2 (0.0528)
Max. particle size, mm (inch)	0.9 (0.035)
Max. flowrate [1] m^3/h (gpm)	60 (264.2)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	260

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

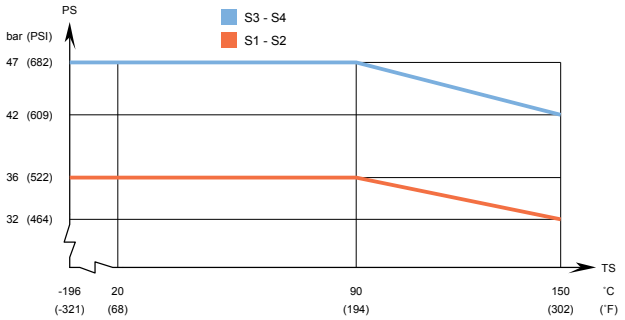
Dimensional drawing

Measurements in mm (inches)

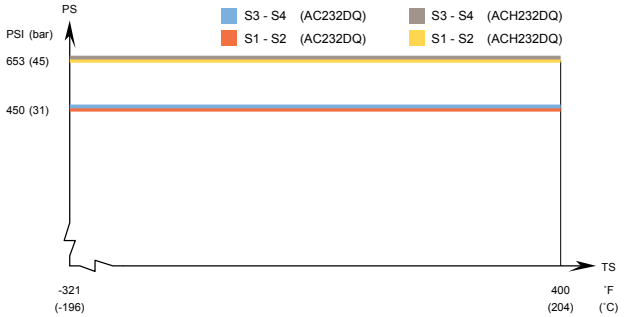


Design pressure and temperature

AC232DQ/ACH232DQ – PED approval pressure/temperature graph



AC232DQ/ACH232DQ – UL approval pressure/temperature graph



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 AC230EQ / ACH230EQ

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.

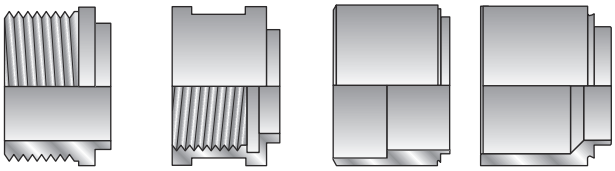
Single-circuit design.

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

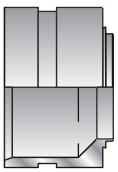
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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)	13 + (2.14 * n)
A measure (inches)	0.51 + (0.08 * n)
Weight (kg) [2]	5.6 + (0.40 * n)
Weight (lb) [2]	12.35 + (0.88 * n)

[1] n = number of plates

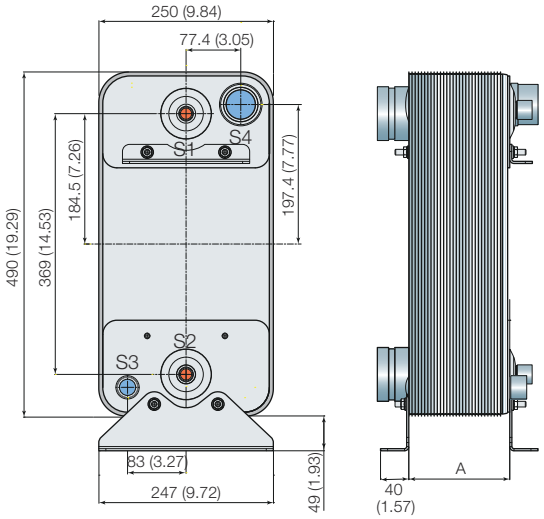
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.156 (0.0412) (S3-S4): 0.2 (0.0528)
Max. particle size, mm (inch)	0.9 (0.035)
Max. flowrate [1] m^3/h (gpm)	60 (264.2)
Flow direction	Diagonal
Min. number of plates	10
Max. number of plates	250

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

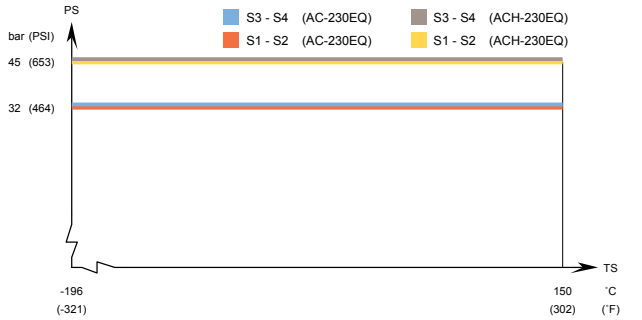
Dimensional drawing

Measurements in mm (inches)

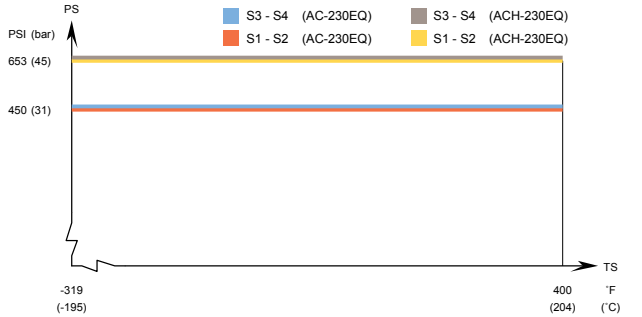


Design pressure and temperature

AC230EQ/ACH230EQ – PED approval pressure/temperature graph



AC230EQ/ACH230EQ – UL approval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval

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Alfa Laval ACH240DQ/ACK240DQ

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

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.

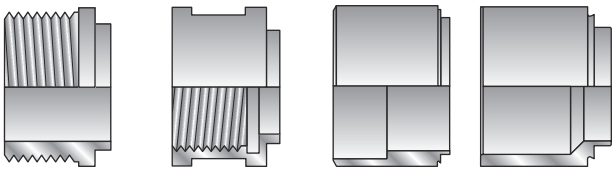
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

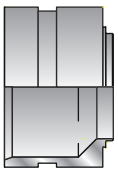
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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)	0.50 + (0.08 * n)
Weight (kg) [2]	6 + (0.43 * n)
Weight (lb) [2]	13.23 + (0.95 * n)

[1] n = number of plates

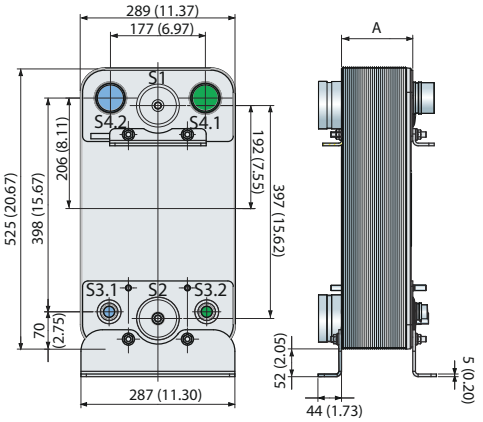
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.27 (0.0713) (S3-S4): 0.24 (0.0634)
Max. particle size, mm (inch)	0.9 (0.035)
Max. flowrate [1] m^3/h (gpm)	71 (312.6)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	262

[1] Water at 7 m/s (23.0 ft/s) (connection velocity)

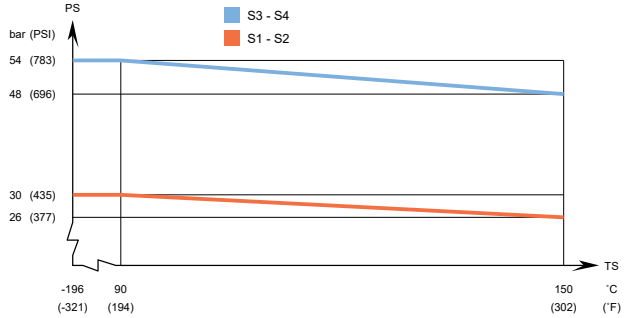
Dimensional drawing

Measurements in mm (inches)

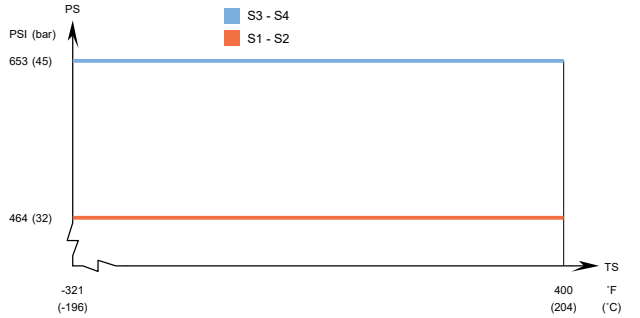


Design pressure and temperature

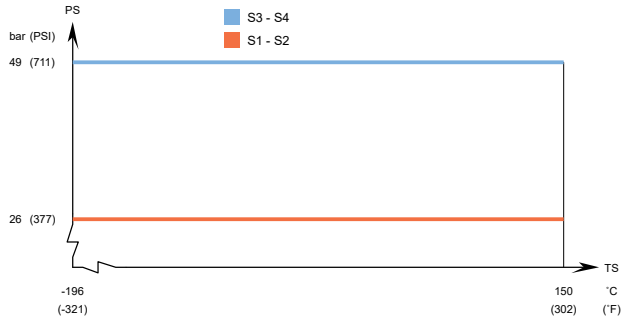
ACH240DQ – PED approval pressure/temperature graph



ACH240DQ – UL approval pressure/temperature graph



ACK240DQ – PED approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval ACH240EQ / ACK240EQ

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

Benefits

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

Branded Features

DynaStatic™	Flexible refrigerant distribution
FlexFlow™	Superior thermal performance
IceSafe	Controlled, non-destructive freezing
PressureSecure	Unparalleled strength for demanding duties
REFuture	A future-proof investment for tomorrow's refrigerants
ValuePlus	Total support – with value-adding options to fit your needs

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.

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.

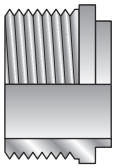
The asymmetry guarantees the best performance in both full- and partial-load conditions.

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

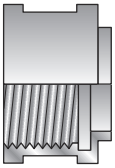
Based on standard components and a modular concept, including symmetric and asymmetric channels, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

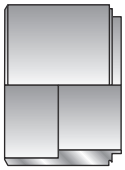
Examples of connections



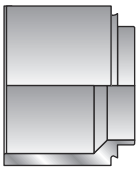
External thread



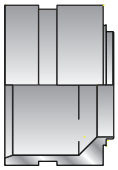
Internal thread



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)	0.50 + (0.08 * n)
Weight (kg) [2]	6 + (0.43 * n)
Weight (lb) [2]	13.23 + (0.95 * n)

[1] n = number of plates

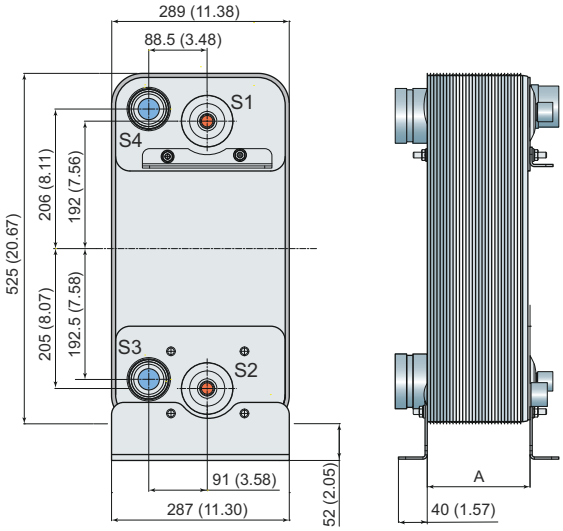
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.27 (0.0713) (S3-S4): 0.24 (0.0634)
Max. particle size, mm (inch)	0.9 (0.035)
Max. flowrate [1] m^3/h (gpm)	51 (224.5)
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)

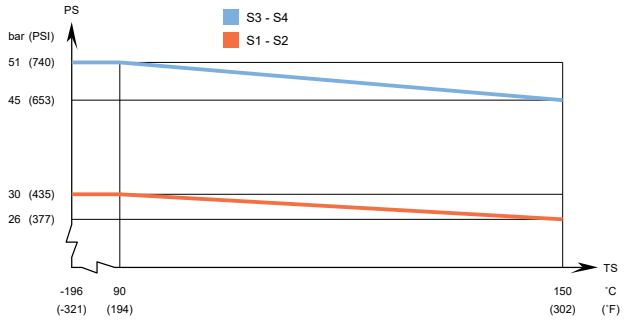
Dimensional drawing

Measurements in mm (inches)

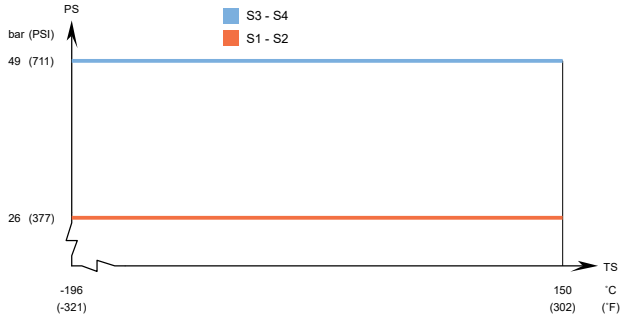


Design pressure and temperature

ACH240EQ – PED approval pressure/temperature graph



ACK240EQ – 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 AC500DQ / ACH500DQ

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

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.

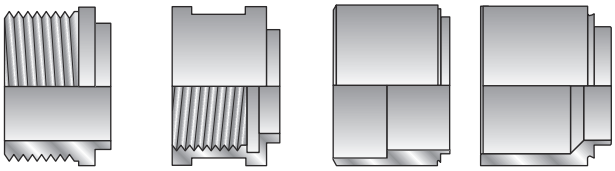
The True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

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

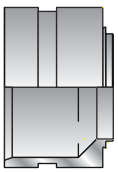
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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 + (0.10 * n)
Weight (kg) [2]	13 + (0.84 * n)
Weight (lb) [2]	28.66 + (1.85 * n)

[1] n = number of plates

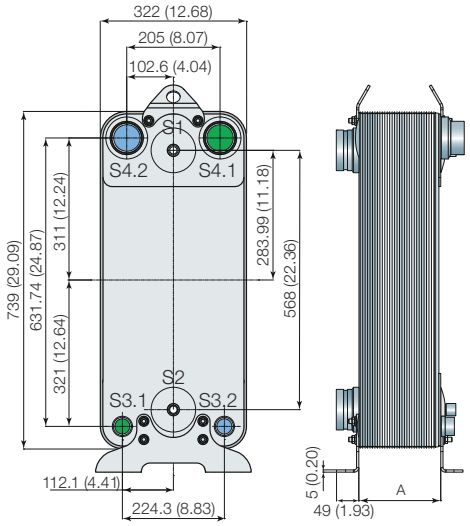
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.47 (0.1242) (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	Diagonal
Min. number of plates	10
Max. number of plates	270

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

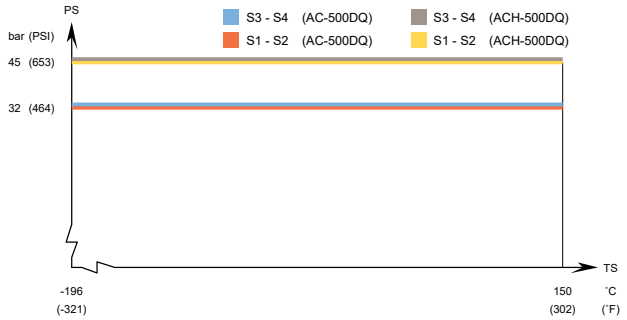
Dimensional drawing

Measurements in mm (inches)

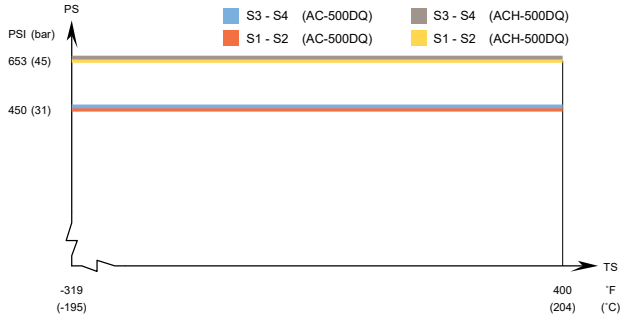


Design pressure and temperature

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 AC500EQ / ACH500EQ

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.

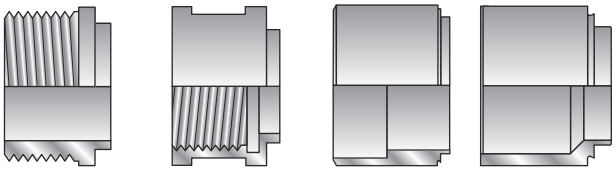
Single-circuit design.

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

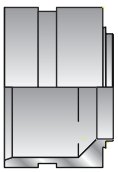
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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

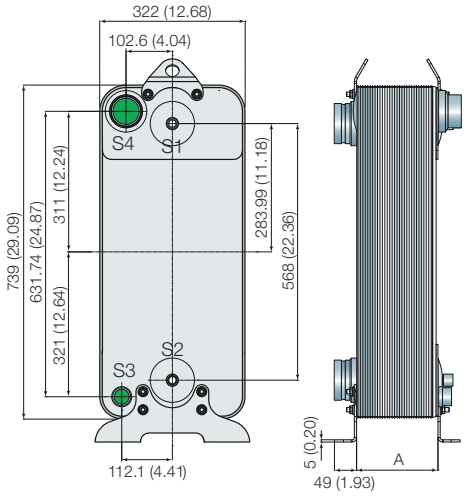
[2] Excluding connections

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)

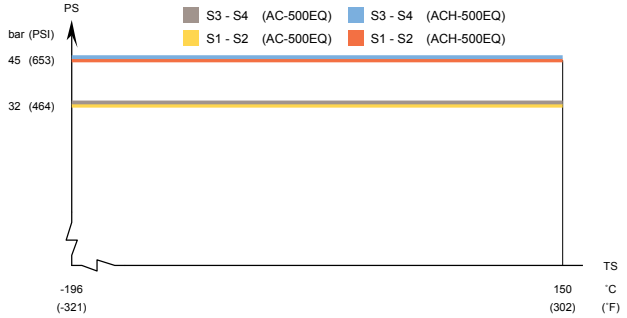
Dimensional drawing

Measurements in mm (inches)

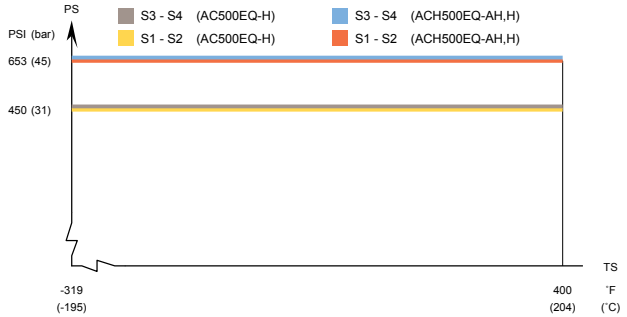


Design pressure and temperature

AC500EQ/ACH500EQ – PED approval pressure/temperature graph



AC500DEQ/ACH500EQ – UL approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval AC502DQ / ACH502DQ / ACK502DQ

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

Benefits

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

Branded Features

DynaStatic™	Flexible refrigerant distribution
FlexFlow™	Superior thermal performance
PressureSecure	Unparalleled strength for demanding duties
REFuture	A future-proof investment for tomorrow's refrigerants
ValuePlus	Total support – with value-adding options to fit your needs

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.

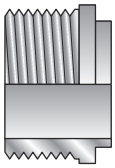
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

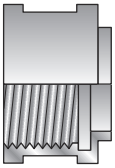
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

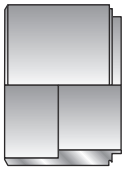
Examples of connections



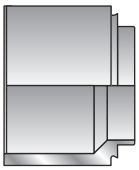
External thread



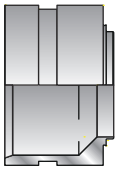
Internal thread



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 + (2.52 * n)
A measure (inches)	0.47 + (0.10 * n)
Weight (kg) [2]	13 + (0.48 * n)
Weight (lb) [2]	28.66 + (1.06 * n)

[1] n = number of plates

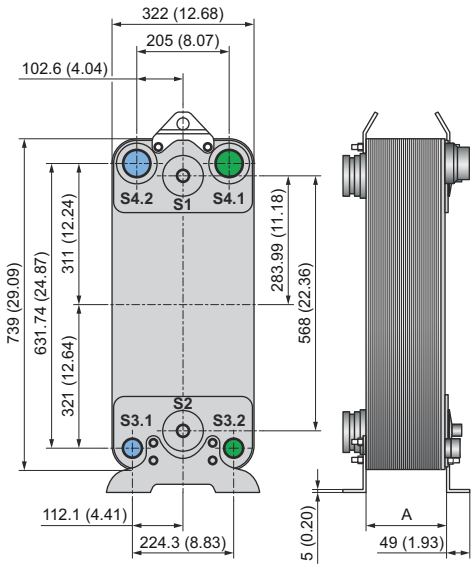
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	H (S1-S2):0.52 (0.1374) H (S3-S4): 0.5 (0.1321) AH (S1-S2): 0.52 (0.1374) AH (S3-S4): 0.45 (0.1189)
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)

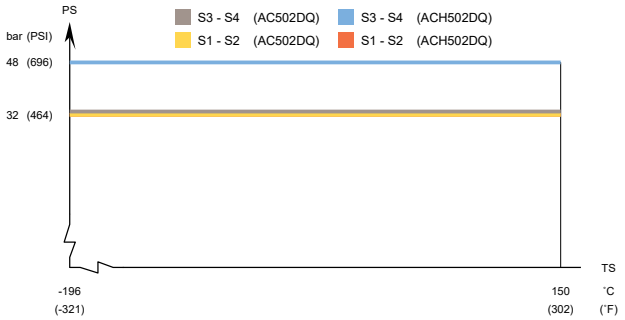
Dimensional drawing

Measurements in mm (inches)

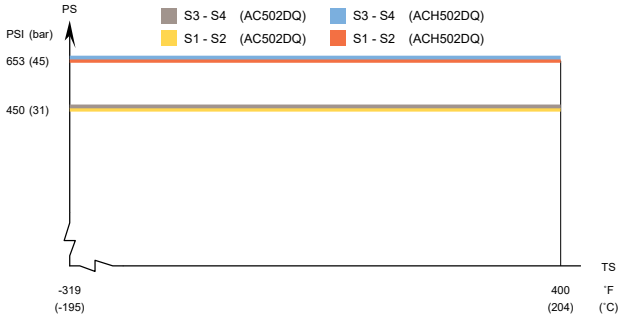


Design pressure and temperature

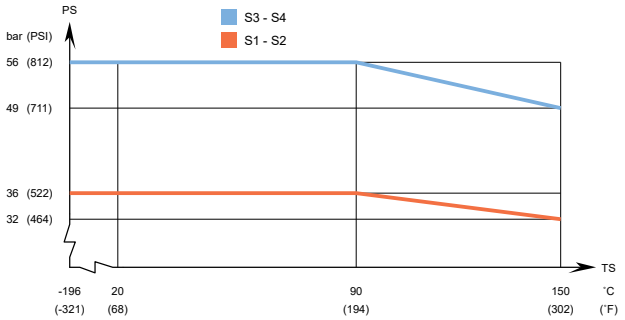
AC502DQ/ACH502DQ – PED approval pressure/temperature graph



AC502DQ/ACH502DQ – UL approval pressure/temperature graph



ACK502DQ – PED approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval AC502EQ

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

Benefits

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

Branded Features

FlexFlow™	Superior thermal performance
ValuePlus	Total support – with value-adding options to fit your needs

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.

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.

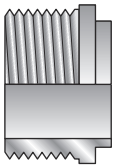
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

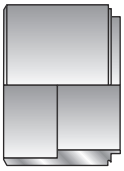
Based on standard components and a modular concept, including symmetric and asymmetric channels, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

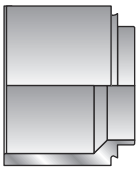
Examples of connections



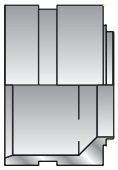
External thread



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]	13 + (0.84 * n)
Weight (lb) [2]	28.66 + (1.85 * n)

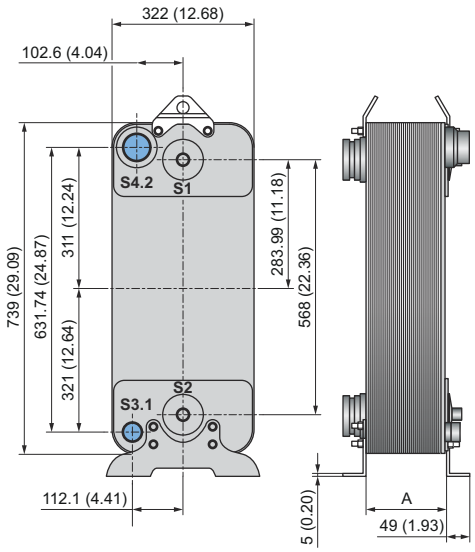
[1] n = number of plates

[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	AH (S1-S2): 0.52 (0.1374) AH (S3-S4): 0.45 (0.1189) H (S1–S2): 0.47 (0.1242) H (S13–S4): 0.5 (0.1321)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate m^3/h (gpm)	168 (739.7)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	270

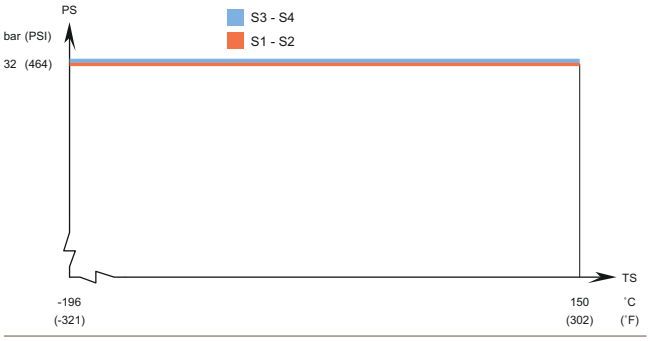
Dimensional drawing

Measurements in mm (inches)

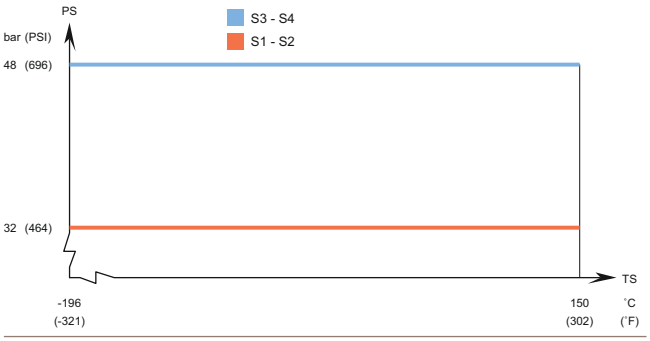


Design pressure and temperature

AC502EQ – PED approval pressure/temperature graph



ACH502EQ – PED approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval AC540DQ

Brazed plate heat exchanger for air conditioning and refrigeration

Introduction

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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

Branded Features

DynaStatic™	Flexible refrigerant distribution
FlexFlow™	Superior thermal performance
IceSafe	Controlled, non-destructive freezing
PressureSecure	Unparalleled strength for demanding duties
REFuture	A future-proof investment for tomorrow's refrigerants
ValuePlus	Total support – with value-adding options to fit your needs

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.

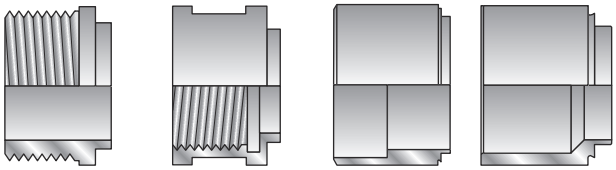
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

Based on standard components and a modular concept, including symmetric and asymmetric channels, 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)	16 + (2.64 * n)
A measure (inches)	0.63 + (0.10 * n)
Weight (kg) [2]	16.6 + (0.99 * n)
Weight (lb) [2]	36.60 + (2.18 * n)

[1] n = number of plates

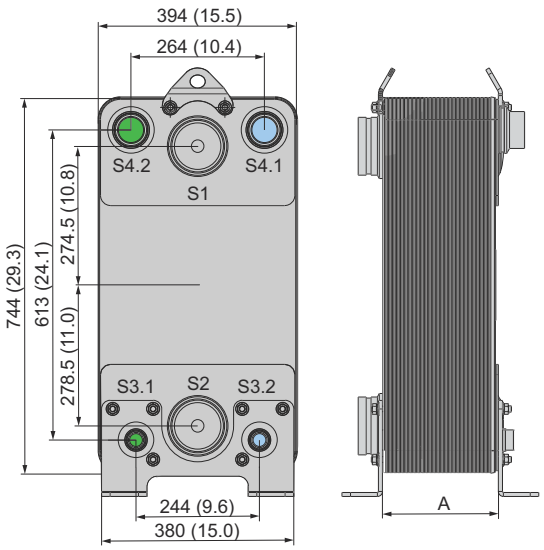
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1–S2) 0.73 (0.1928) (S3–S4) 0.56 (0.1479)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate [1] m^3/h (gpm)	280 (1232.8)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	330

[1] Water at 7 m/s (23.0 ft/s) (connection velocity)

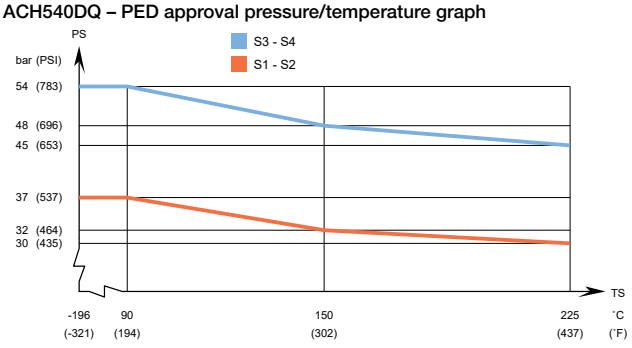
Dimensional drawing

Measurements in mm (inches)

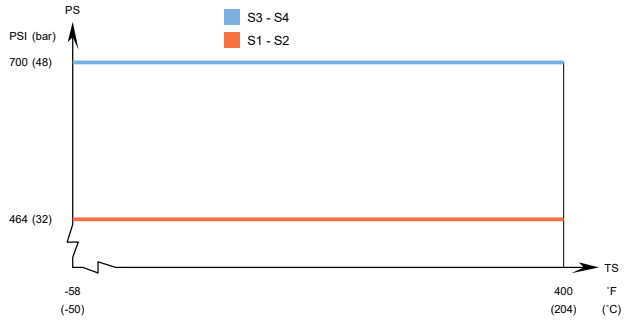


Design pressure and temperature

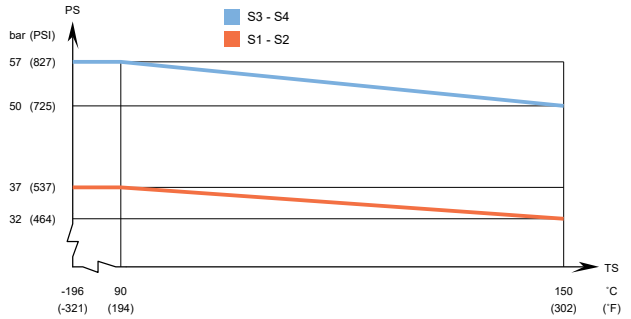
ACH540DQ – PED approval pressure/temperature graph



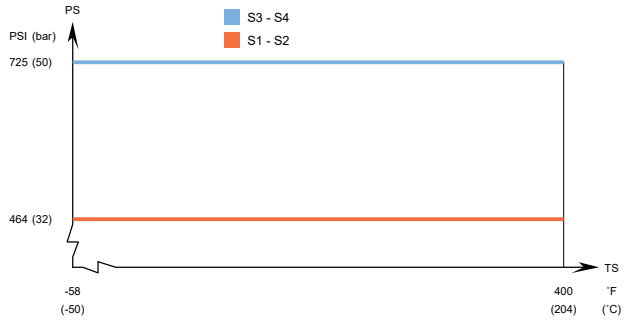
ACH540DQ – UL approval pressure/temperature graph



ACK540DQ – PED approval pressure/temperature graph



ACK540DQ – 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.

Alfa Laval AC1000DQ / ACH1000DQ / ACK1000DQ

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

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.

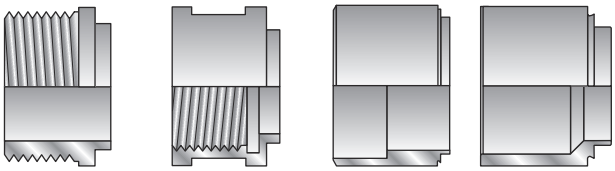
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

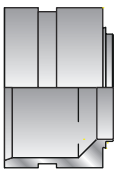
Innovative plate design and optional large plate package enable very high capacities of up to 1200 kW with R410A.

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 + (1.36 * n)
Weight (lb) [2]	69.44 + (3.00 * n)

[1] n = number of plates

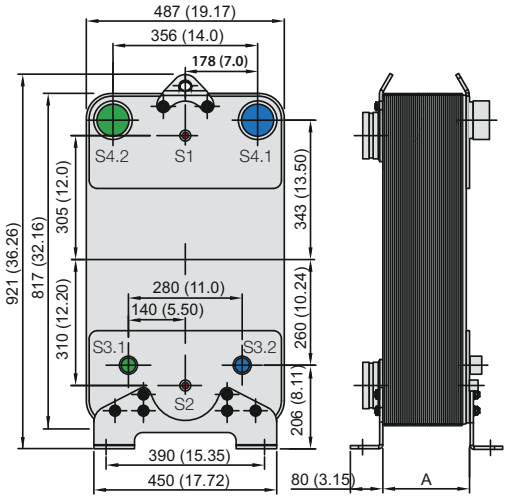
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1-S2): 0.74 (0.1955) (S3-S4): 0.61 (0.1611)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate [1] m^3/h (gpm)	200) (880.6)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	342

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

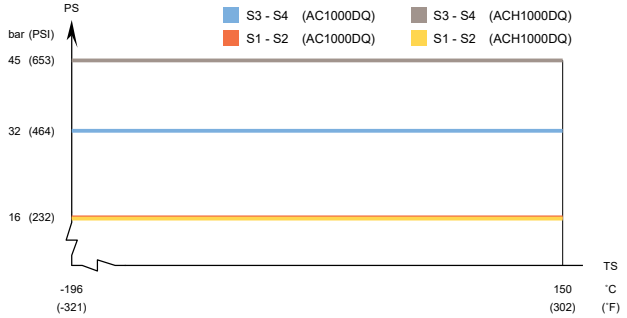
Dimensional drawing

Measurements in mm (inches)

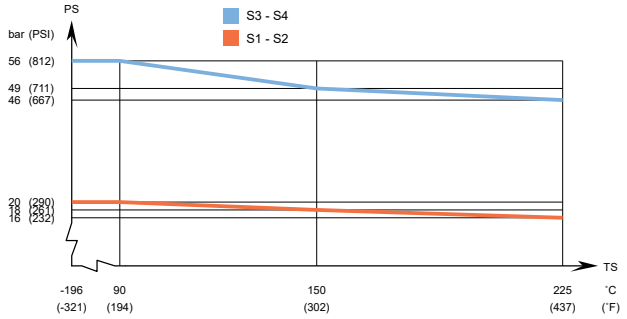


Design pressure and temperature

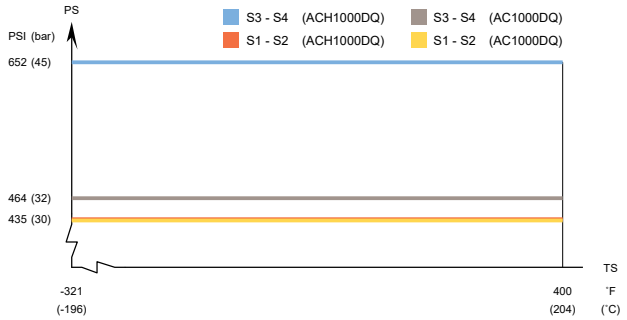
AC1000DQ/ACH1000DQ – PED approval pressure/temperature graph



ACK1000DQ – PED approval pressure/temperature graph



AC1000DQ/ACH1000DQ – 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

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com

Alfa Laval AC900/ACH900

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

Benefits

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

Branded Features

DynaStatic™	Flexible refrigerant distribution
FlexFlow™	Superior thermal performance
IceSafe	Controlled, non-destructive freezing
PressureSecure	Unparalleled strength for demanding duties
REFuture	A future-proof investment for tomorrow's refrigerants
ValuePlus	Total support – with value-adding options to fit your needs

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.

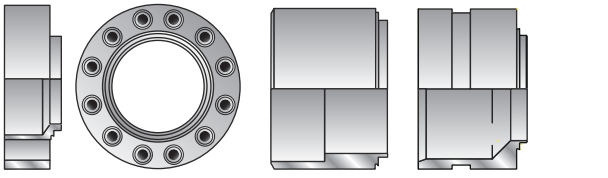
The channel design provides optimal efficiency in the most compact design.

The design 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.

Examples of connections



Compact flange | Soldering | 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]	41.5 + (1.39 * n)
Weight (lb) [2]	91.49 + (3.06 * n)

[1] n = number of plates

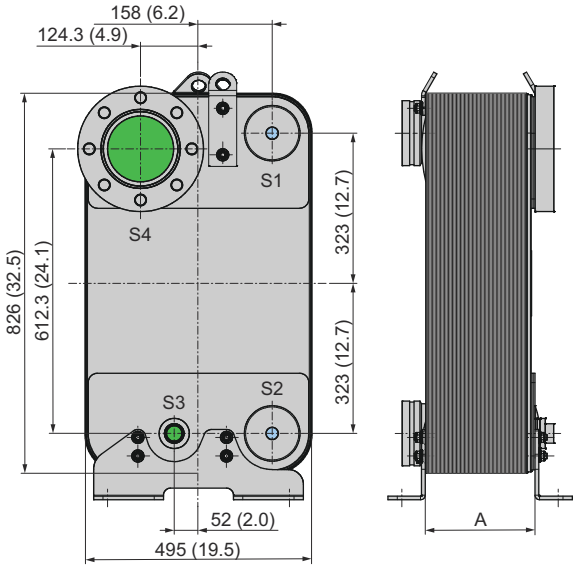
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	(S1–S2) 0.7 (0.1849) (S3–S4) 0.7 (0.1849)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate [1] m^3/h (gpm)	507 (2232.3)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	342

[1] Water at 7 m/s (23.0 ft/s) (connection velocity)

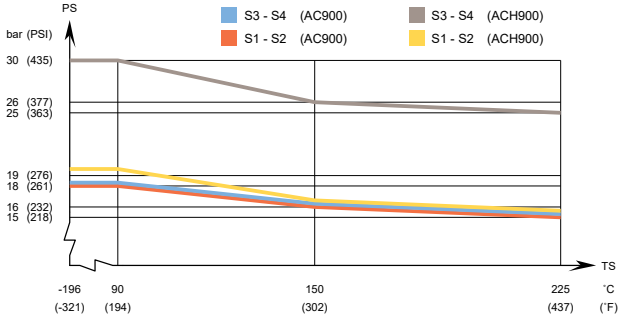
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

AC900/ACH900Q – 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.

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.

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