

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.

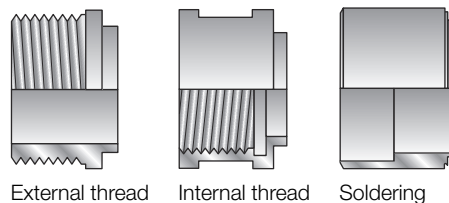
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO₂ footprint.

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

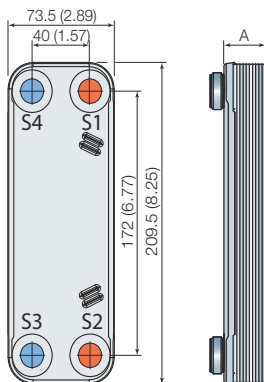
Standard data

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)

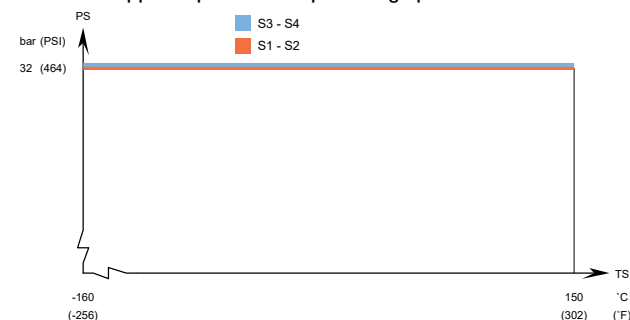
Dimensional drawing

Measurements in mm (inches)

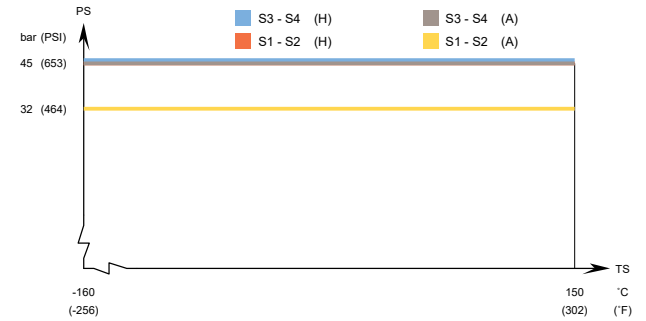


Design pressure and temperature

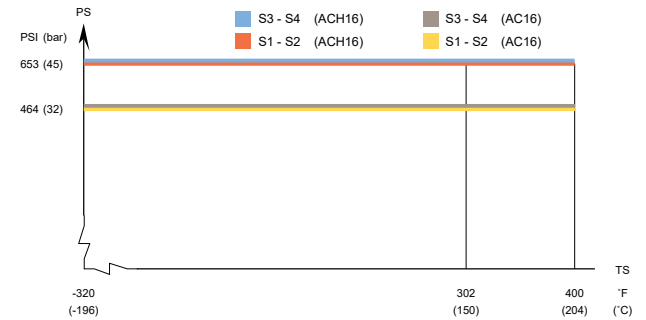
AC16 – PED approval pressure/temperature graph



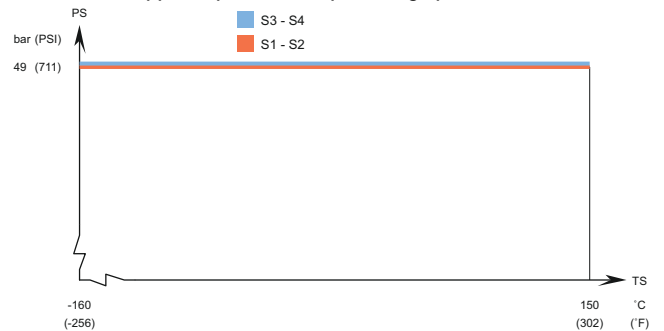
ACH16 – PED approval pressure/temperature graph



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

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Different pressure ratings are available for different needs.

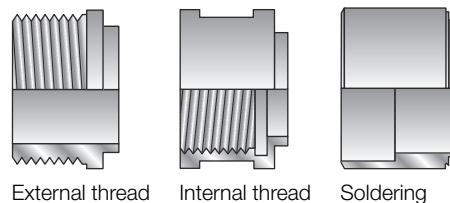
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO₂ footprint.

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

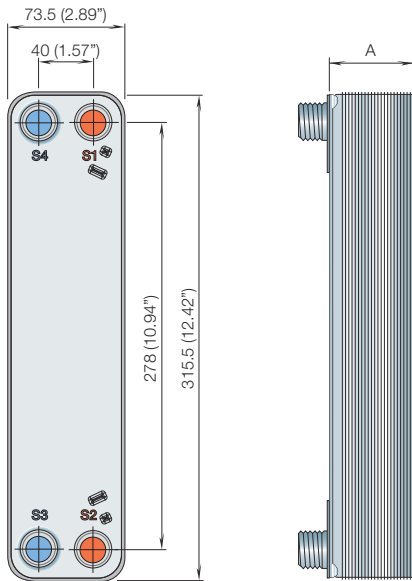
Standard data

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)

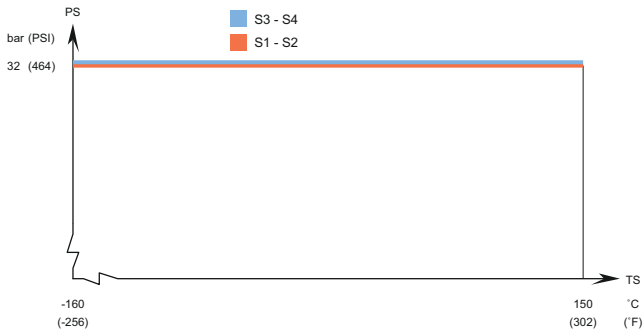
Dimensional drawing

Measurements in mm (inches)

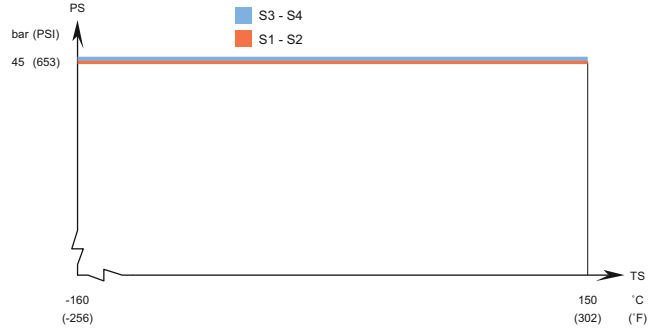


Design pressure and temperature

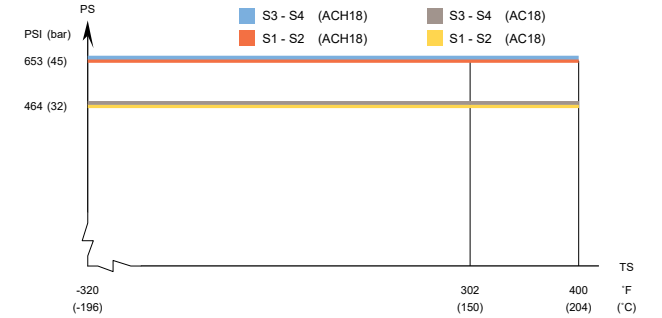
AC18 – PED approval pressure/temperature graph



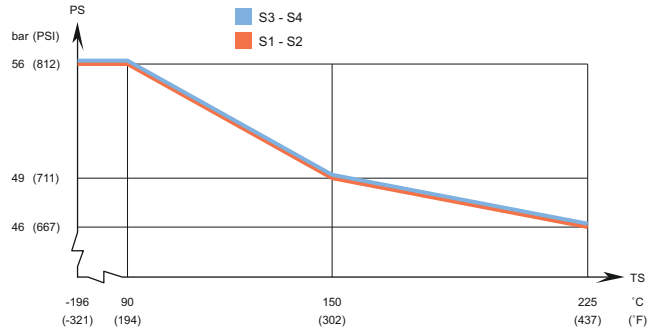
ACH18 – PED approval pressure/temperature graph



AC18/ACH18 – UL approval pressure/temperature graph



ACK18 – PED approval pressure/temperature graph



Designed for full vacuum.

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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.

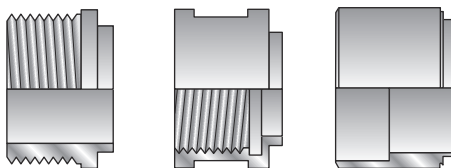
Different pressure ratings are available for different needs.

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

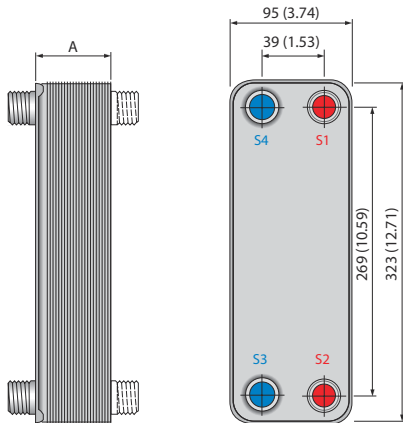
Standard data

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)

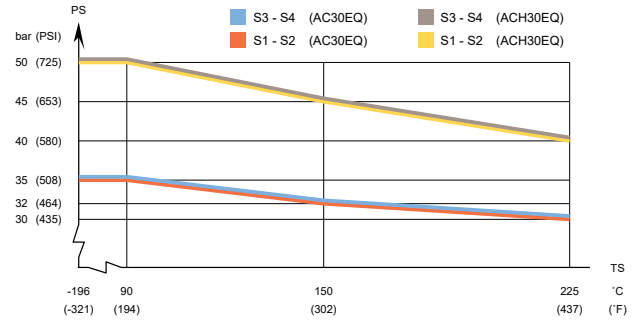
Dimensional drawing

Measurements in mm (inches)

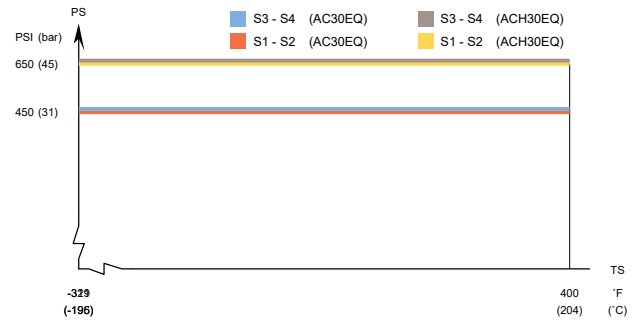


Design pressure and temperature

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.

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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 CO₂ footprint.

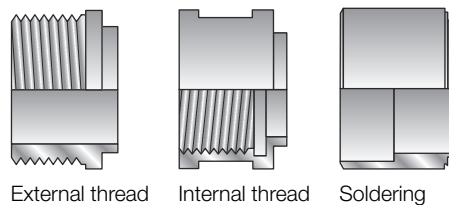
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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



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

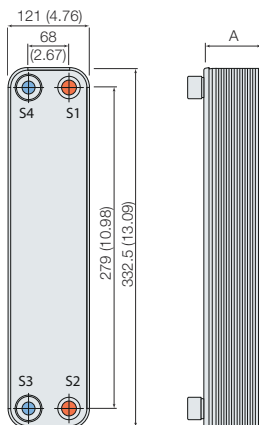
Standard data

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)

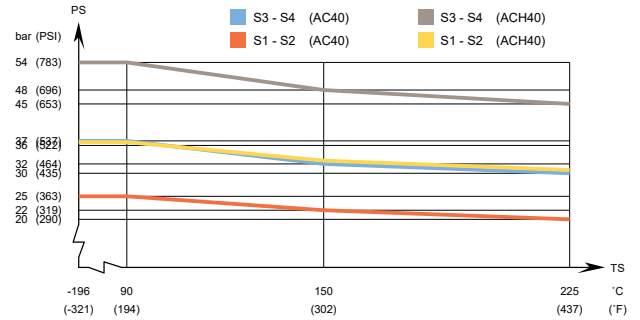
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

AC40/ACH40 – PED approval pressure/temperature graph



ACP40 – PED approval pressure/temperature graph

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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.



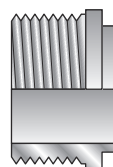
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The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

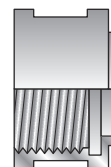
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

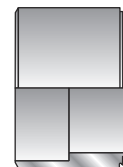
Examples of connections



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

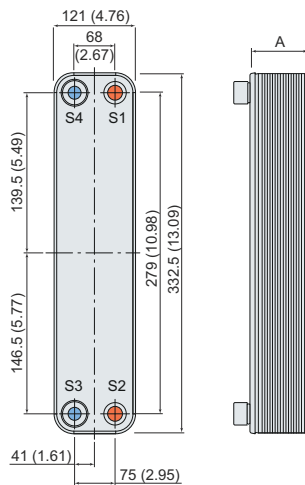
Standard data

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)

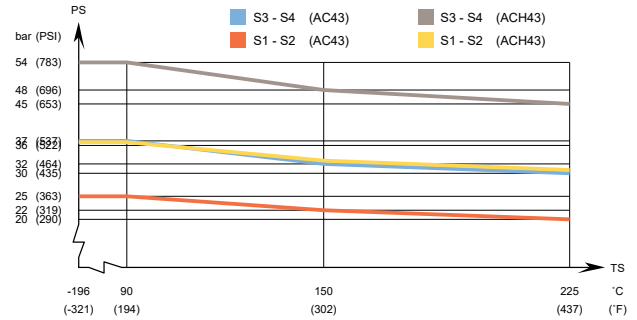
Dimensional drawing

Measurements in mm (inches)

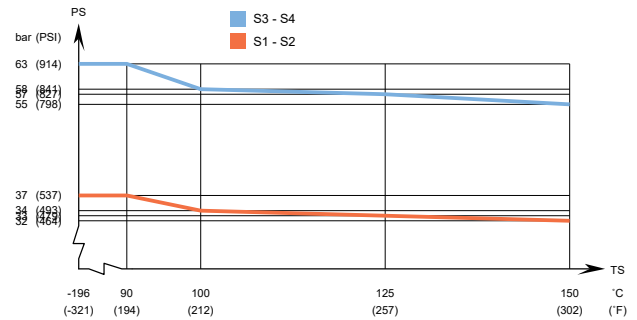


Design pressure and temperature

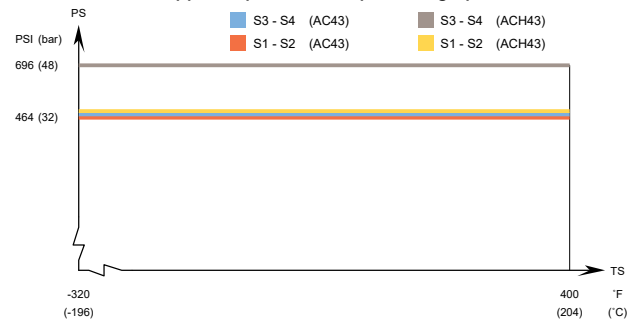
AC43/ACH43 – PED approval pressure/temperature graph



ACP43 – PED approval pressure/temperature graph



AC43/ACH43 – UL approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval AC65 /ACH65

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Applications

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Benefits

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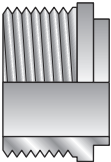
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

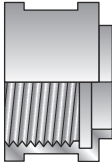
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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

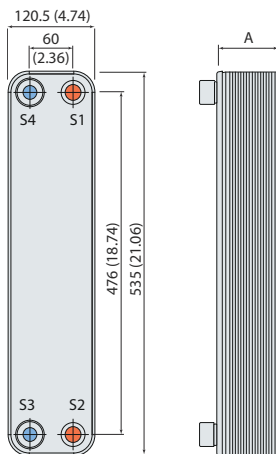
² Excluding connections

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

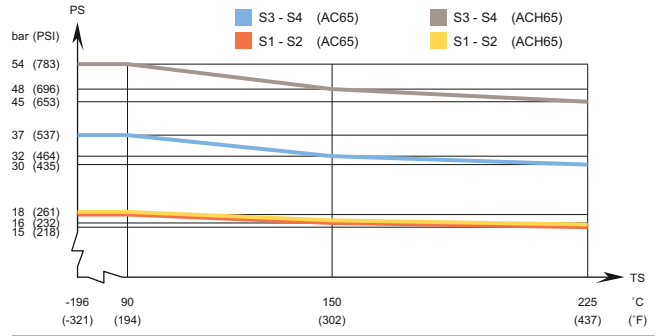
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

AC65/ACH65 – PED approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval AC70X / ACH70X / ACP70X

Brazed plate heat exchanger for air conditioning and refrigeration

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- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
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- Gasket free

Design

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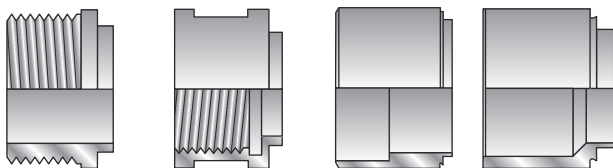
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Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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

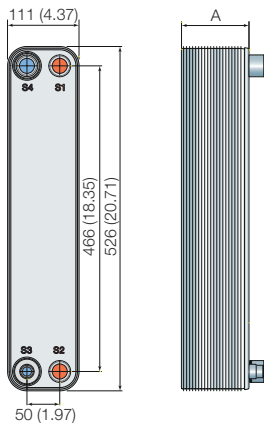
Standard data

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)

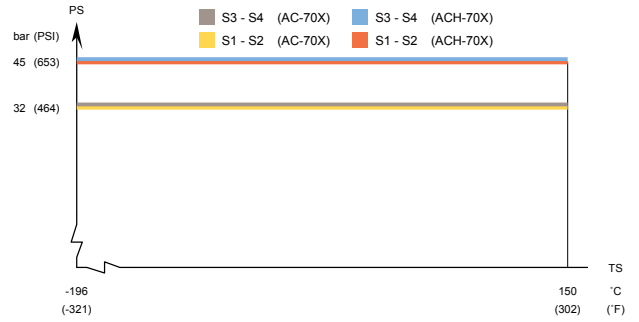
Dimensional drawing

Measurements in mm (inches)

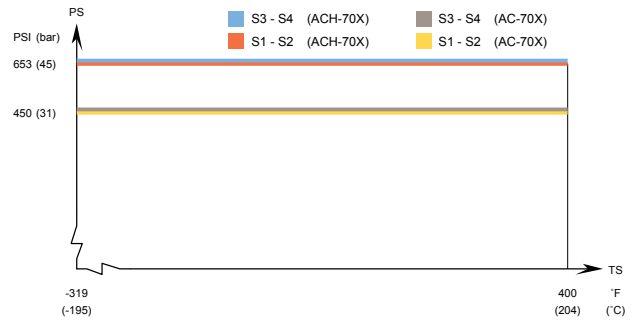


Design pressure and temperature

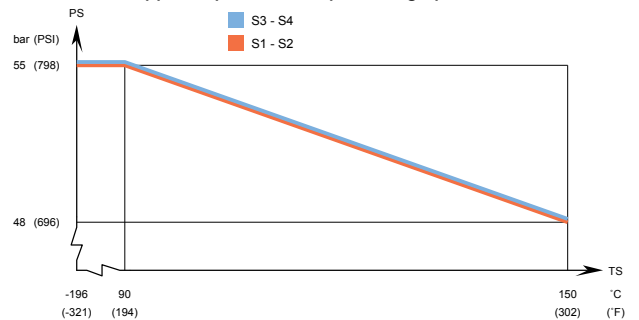
AC70X/ACH70X – PED approval pressure/temperature graph



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.

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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 CO₂ 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.

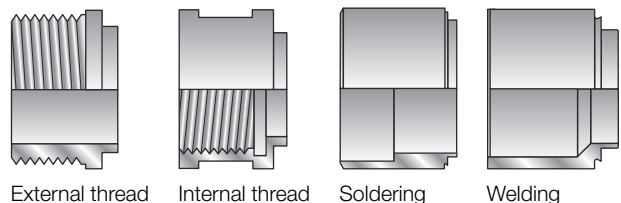
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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

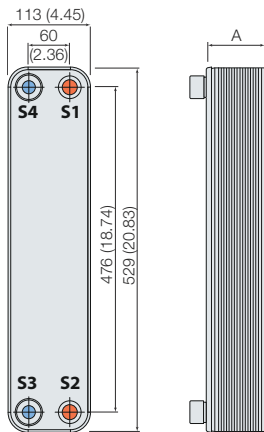
Standard data

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)

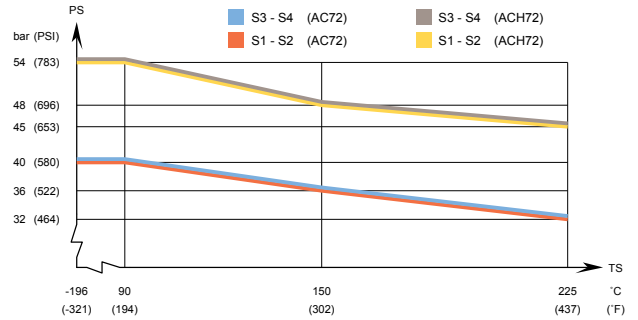
Dimensional drawing

Measurements in mm (inches)

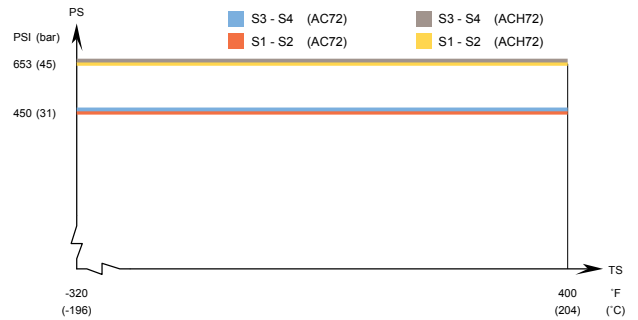


Design pressure and temperature

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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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 CO₂ footprint.

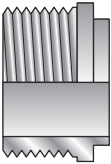
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

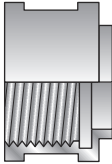
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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

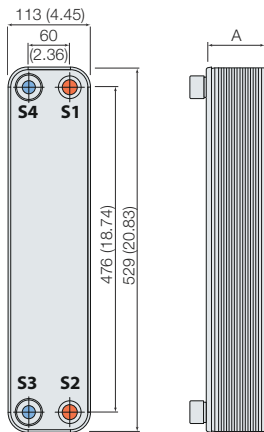
Standard data

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)

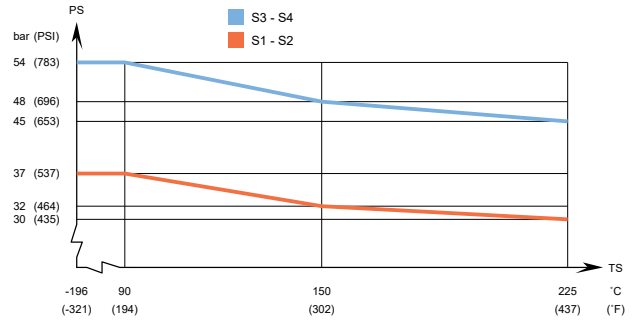
Dimensional drawing

Measurements in mm (inches)

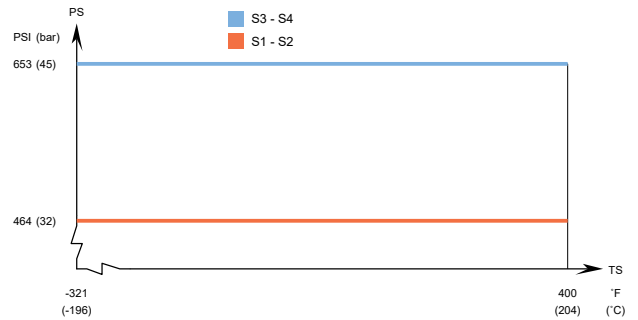


Design pressure and temperature

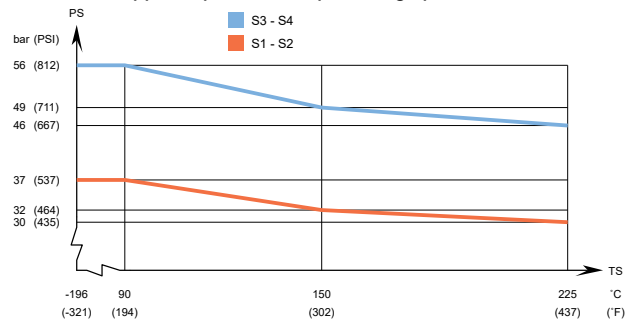
ACH73 – PED approval pressure/temperature graph



ACH73 – UL approval pressure/temperature graph



ACK73 – PED approval pressure/temperature graph



Designed for full vacuum.

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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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 CO₂ footprint.

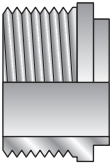
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

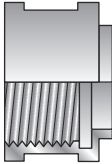
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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

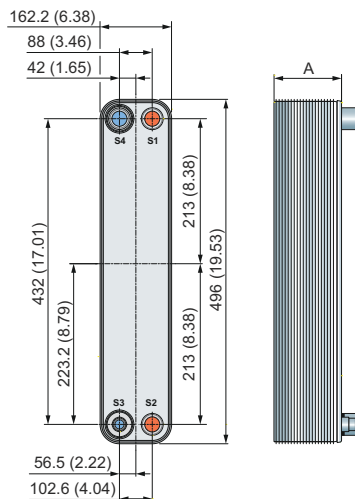
Standard data

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)

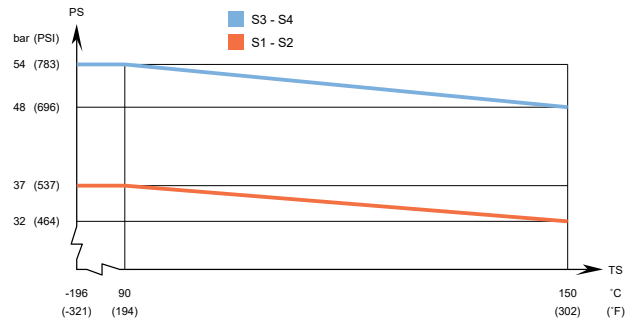
Dimensional drawing

Measurements in mm (inches)

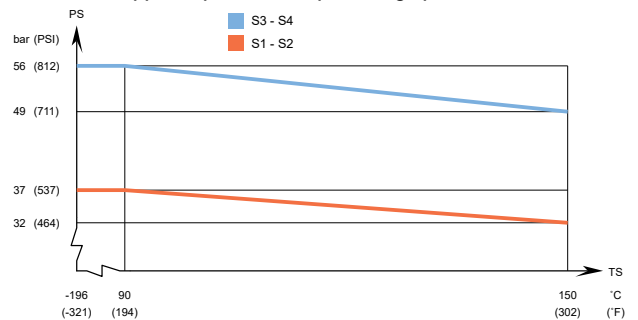


Design pressure and temperature

ACH74 – PED approval pressure/temperature graph



ACK74 – PED approval pressure/temperature graph



Designed for full vacuum.

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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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 CO₂ footprint.

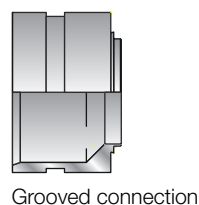
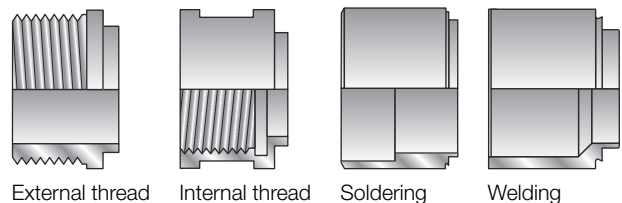
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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



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

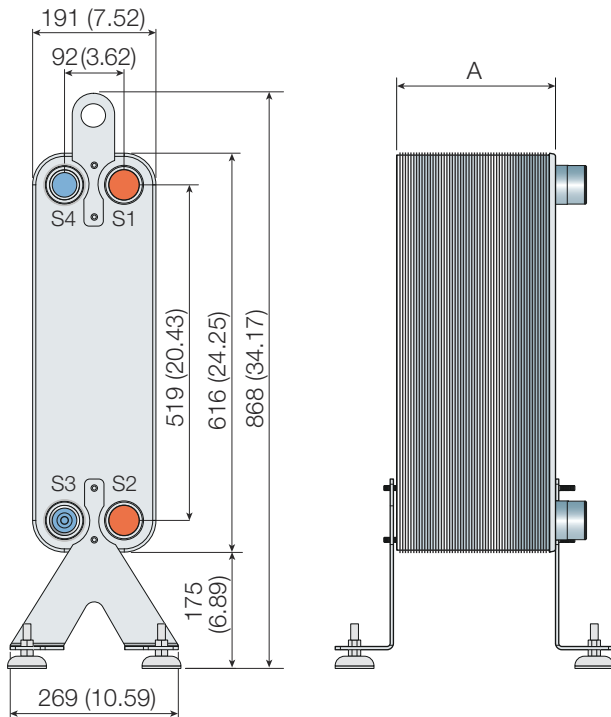
Standard data

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)

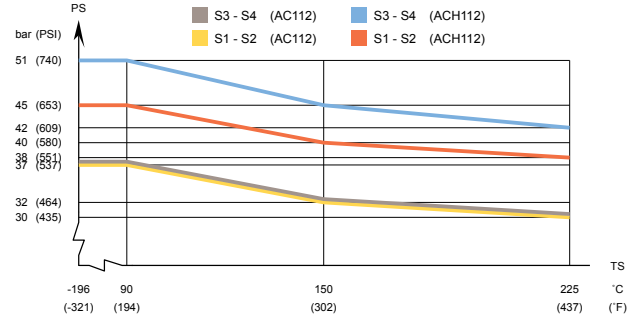
Dimensional drawing

Measurements in mm (inches)

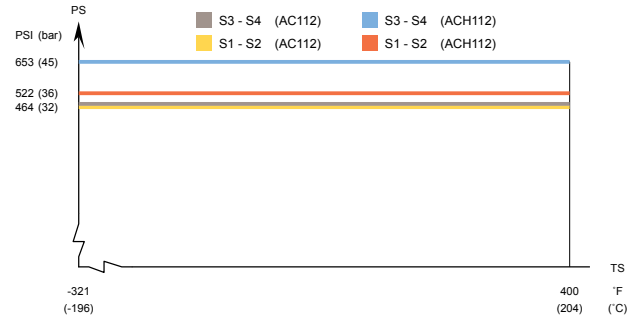


Design pressure and temperature

AC112/ACH112 – PED approval pressure/temperature graph



AC112/ACH112 – UL approval pressure/temperature graph



Designed for full vacuum.

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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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 CO₂ footprint.

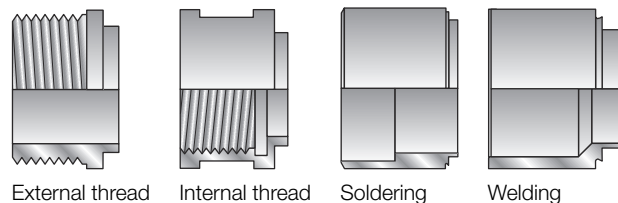
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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



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

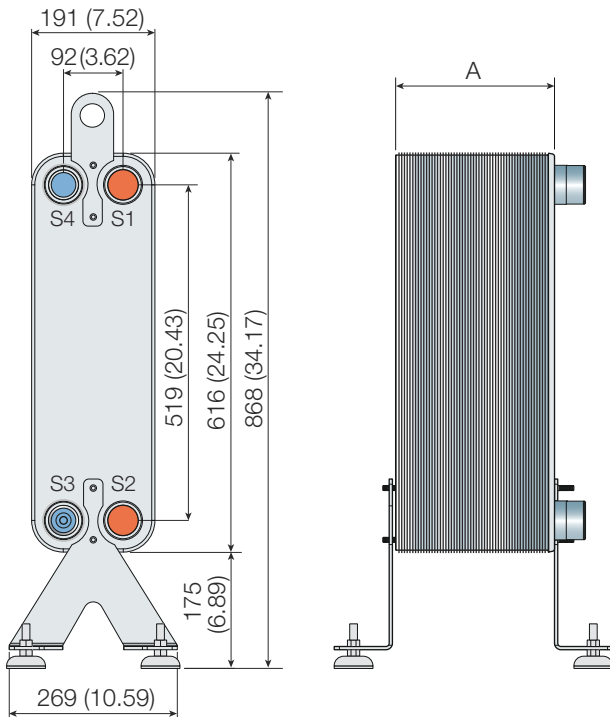
Standard data

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)

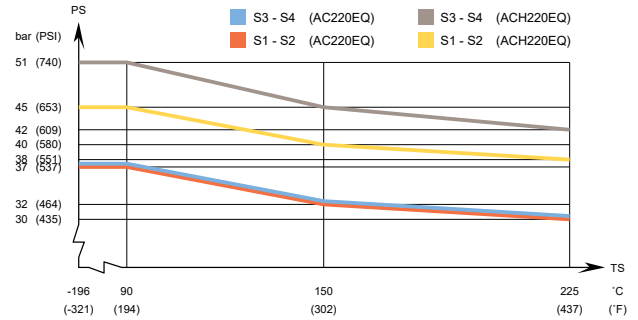
Dimensional drawing

Measurements in mm (inches)

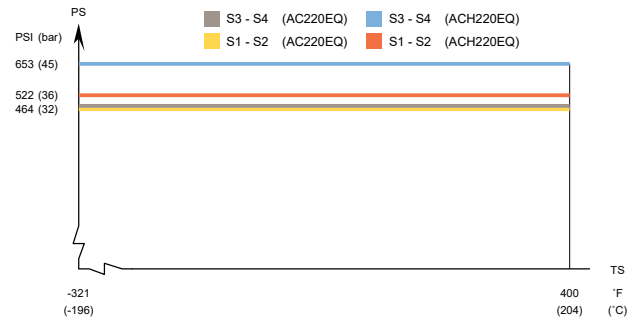


Design pressure and temperature

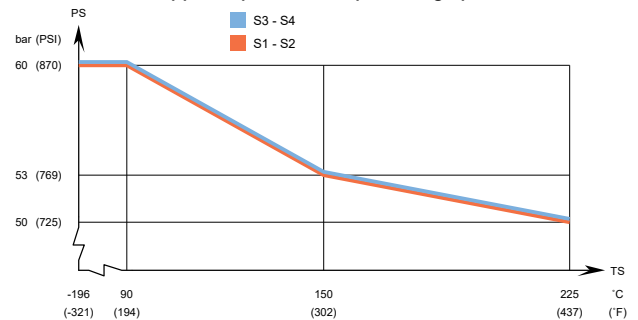
AC220EQ/ACH220EQ – PED approval pressure/temperature graph



AC220EQ/ACH220EQ – UL approval pressure/temperature graph



AC220EQ – 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.

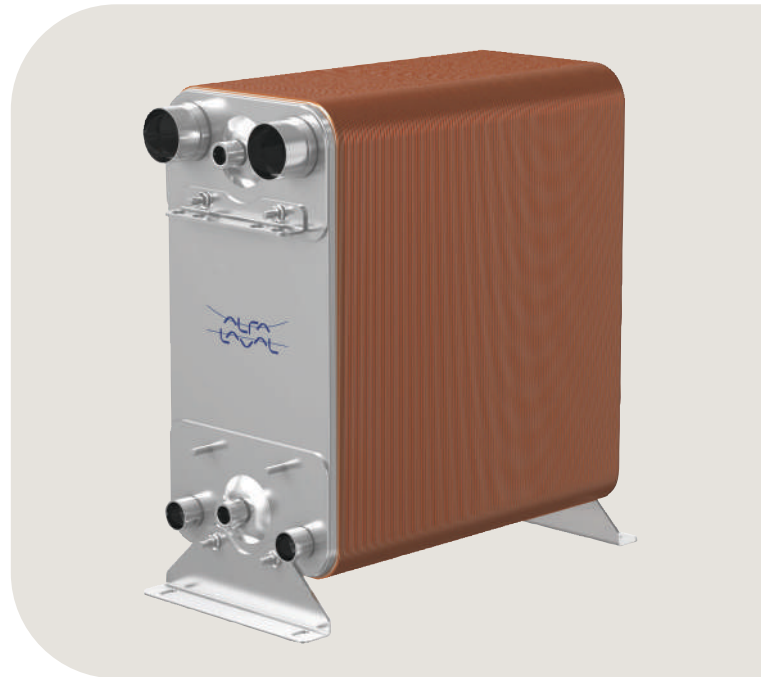
Different pressure ratings are available for different needs.

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

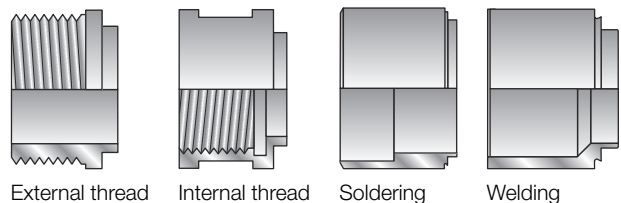
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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

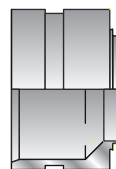


External thread

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

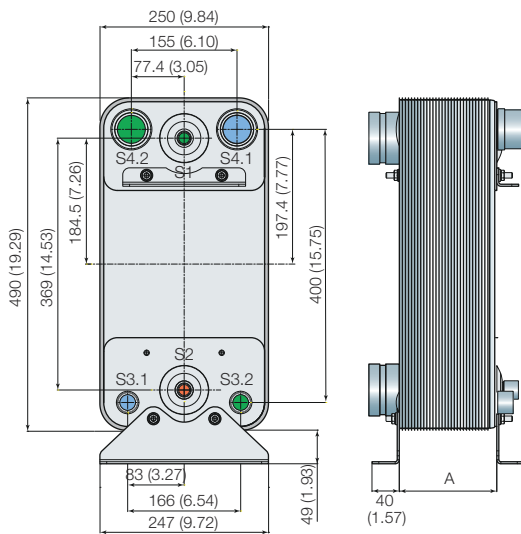
Standard data

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)

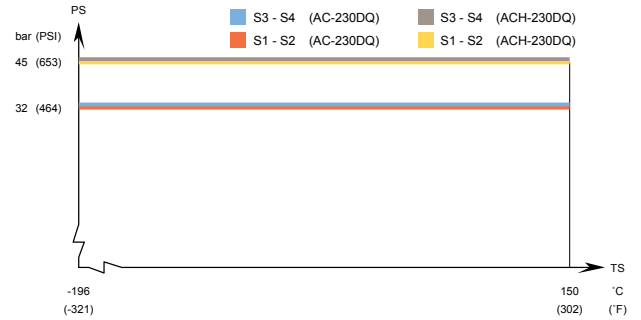
Dimensional drawing

Measurements in mm (inches)

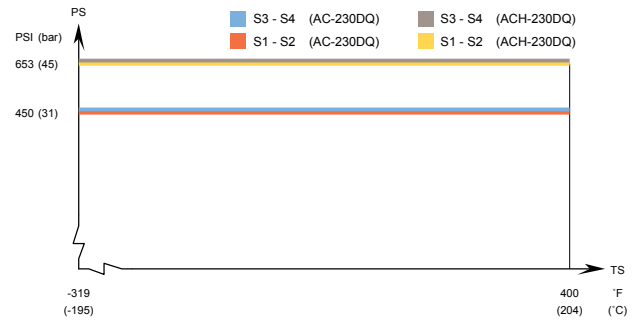


Design pressure and temperature

AC230DQ/ACH230EQ – PED approval pressure/temperature graph



AC230DQ/ACH230DQ – UL approval pressure/temperature graph



Designed for full vacuum.

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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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.

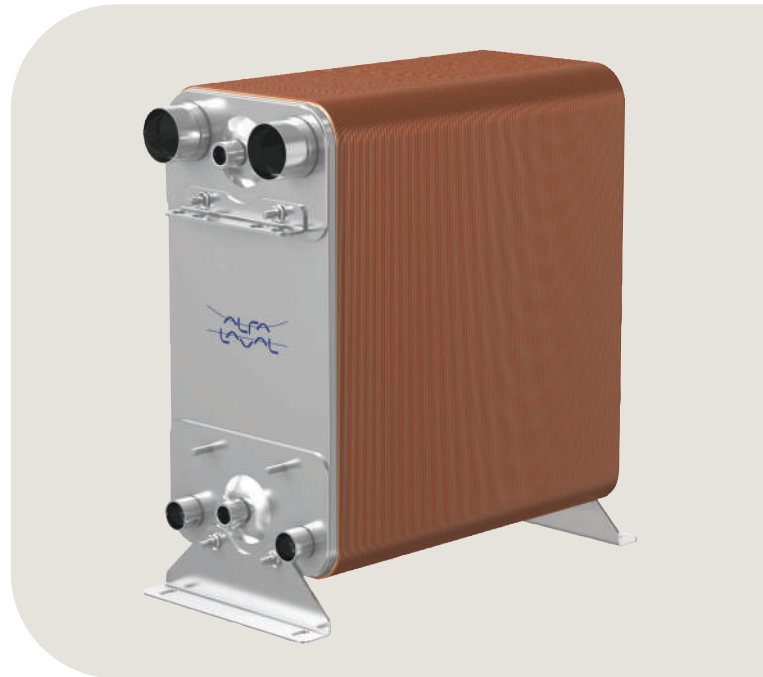
The True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

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.

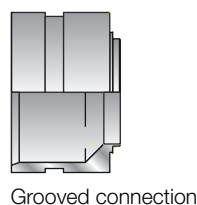
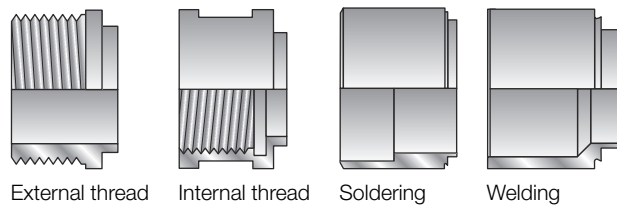
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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



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

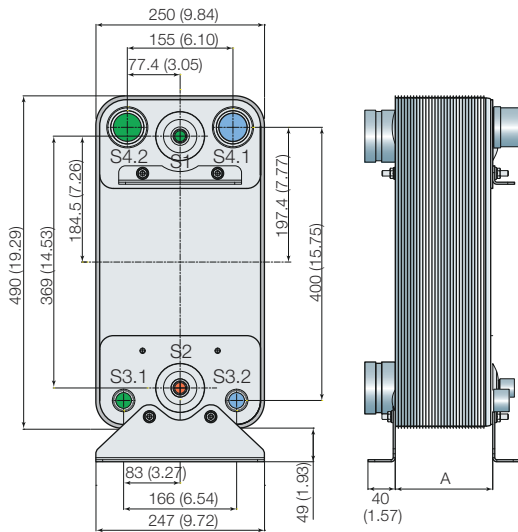
Standard data

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)

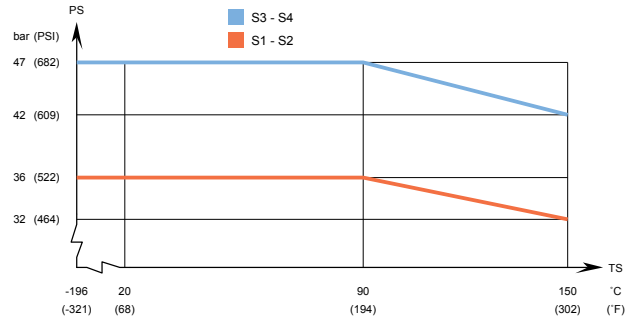
Dimensional drawing

Measurements in mm (inches)

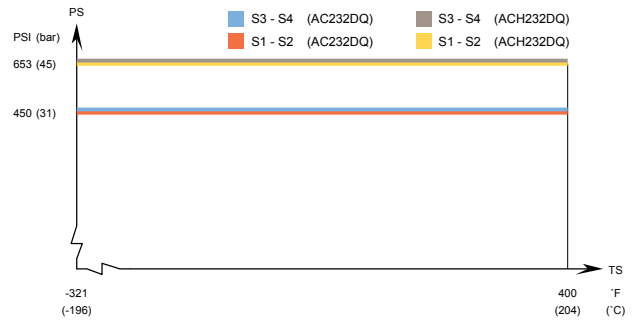


Design pressure and temperature

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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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.

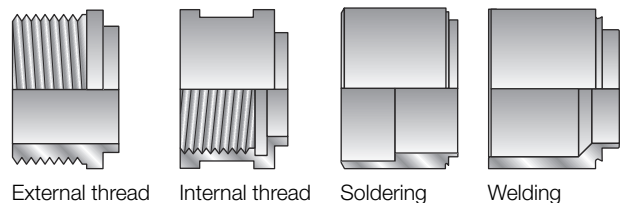
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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



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

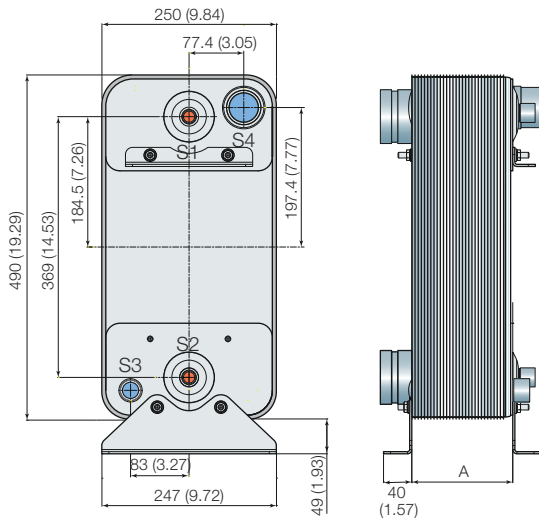
Standard data

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)

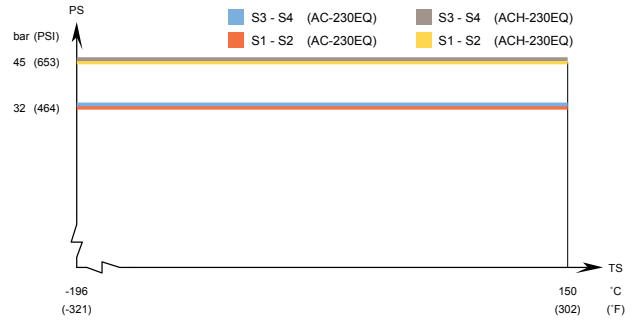
Dimensional drawing

Measurements in mm (inches)

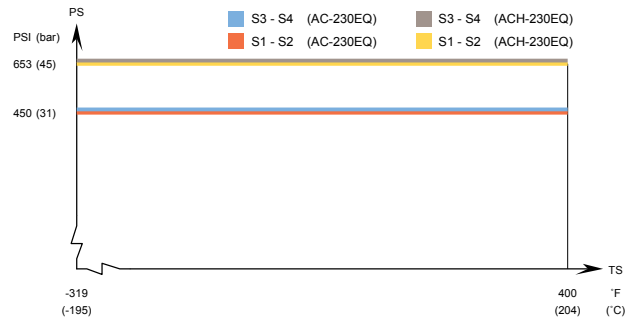


Design pressure and temperature

AC230EQ/ACH230EQ – PED approval pressure/temperature graph



AC230EQ/ACH230EQ – UL approval pressure/temperature graph



Designed for full vacuum.

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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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 CO₂ 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.

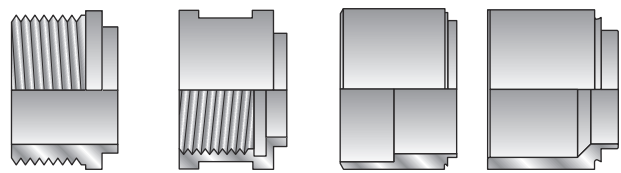
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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

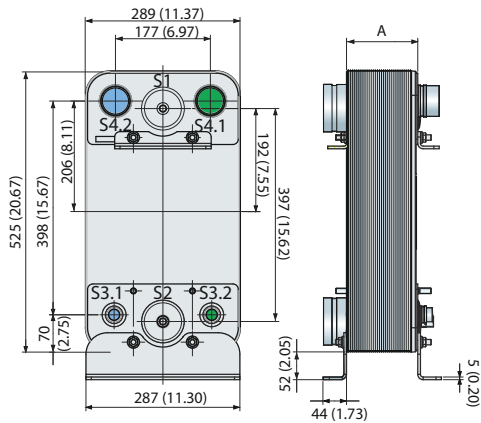
Standard data

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)

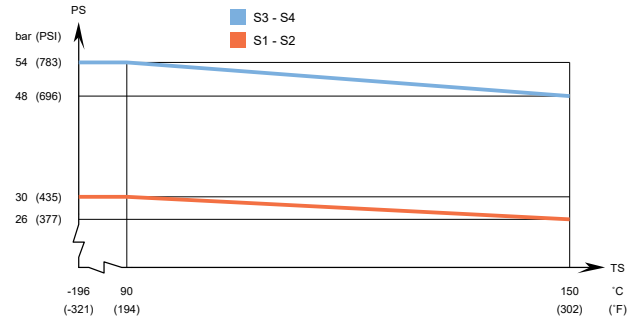
Dimensional drawing

Measurements in mm (inches)

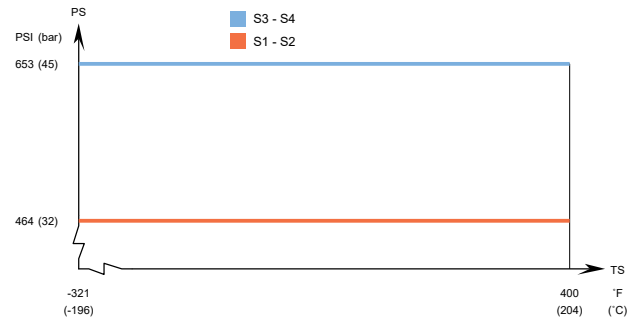


Design pressure and temperature

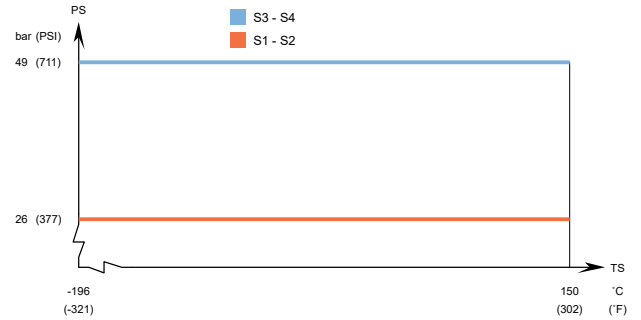
ACH240DQ – PED approval pressure/temperature graph



ACH240DQ – UL approval pressure/temperature graph



ACK240DQ – PED approval pressure/temperature graph



Designed for full vacuum.

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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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 CO₂ footprint.

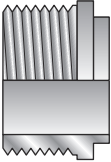
The asymmetry guarantees the best performance in both full- and partial-load conditions.

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

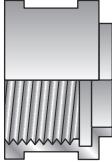
Based on standard components and a modular concept, including symmetric and asymmetric channels, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections



External thread



Internal thread



Soldering



Welding



Grooved connection

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.

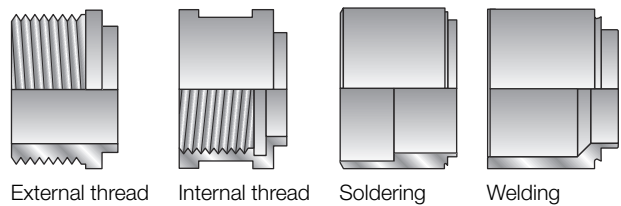
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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



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

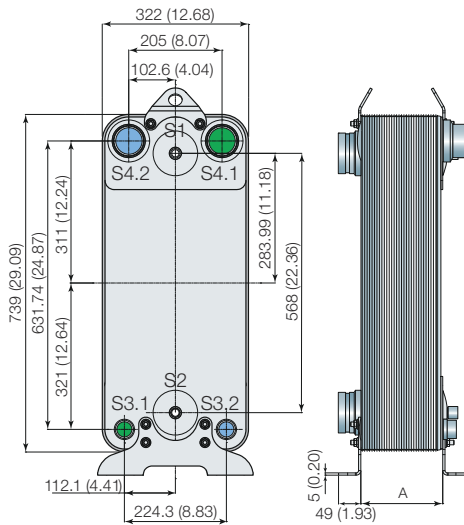
Standard data

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)

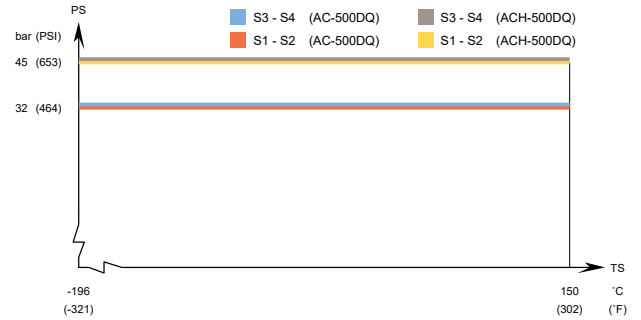
Dimensional drawing

Measurements in mm (inches)

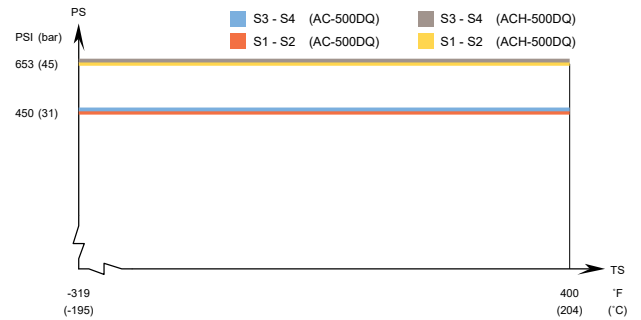


Design pressure and temperature

AC500DQ/ACH500DQ – PED approval pressure/temperature graph



AC500DQ/ACH500DQ – 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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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.

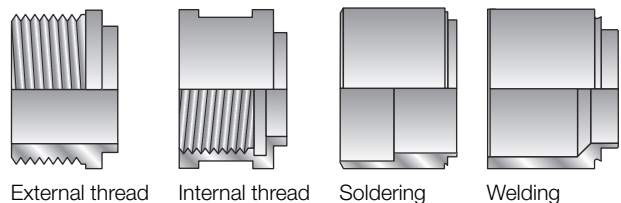
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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

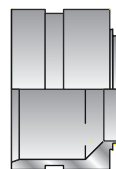


External thread

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

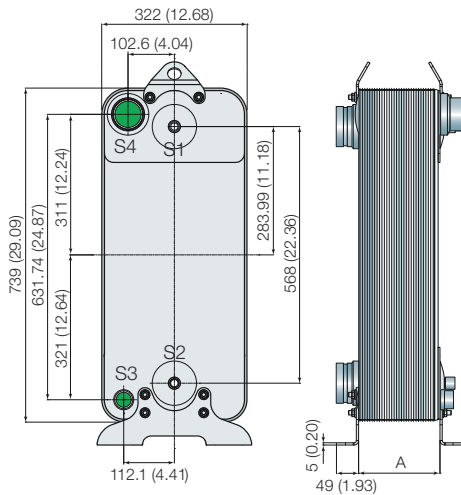
Standard data

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)

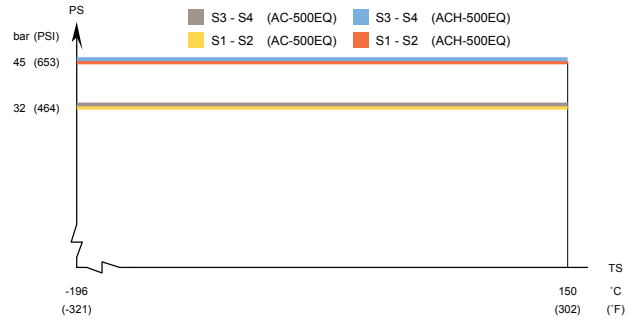
Dimensional drawing

Measurements in mm (inches)

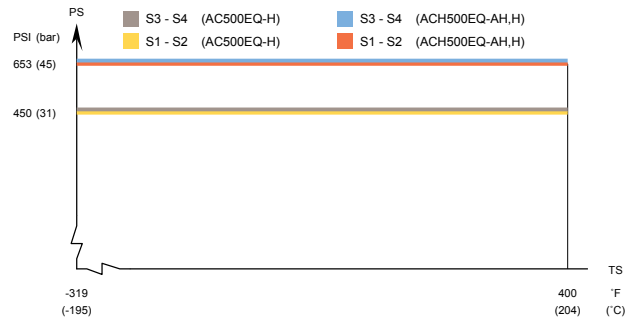


Design pressure and temperature

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 CO₂ footprint.

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

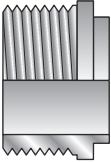
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/ brine pressure drop. This results in reduced environmental impact and lower costs.

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

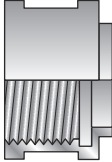
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

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

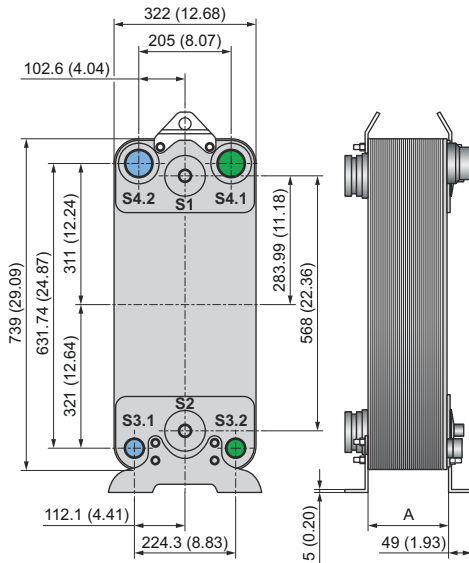
Standard data

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)

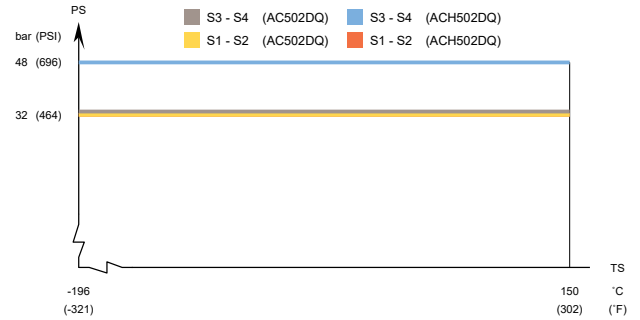
Dimensional drawing

Measurements in mm (inches)

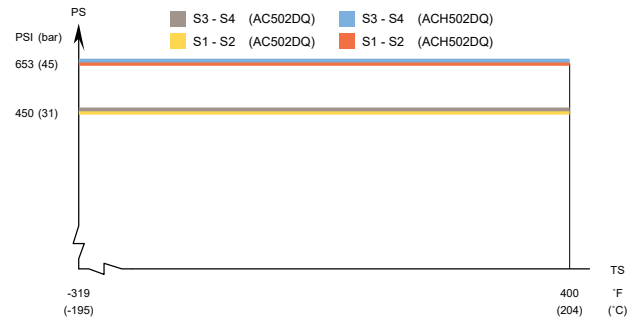


Design pressure and temperature

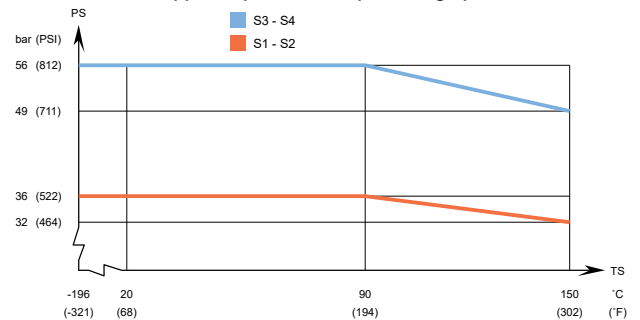
AC502DQ/ACH502DQ – PED approval pressure/temperature graph



AC502DQ/ACH502DQ – UL approval pressure/temperature graph



ACK502DQ – PED approval pressure/temperature graph



Designed for full vacuum.

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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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 CO₂ 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/



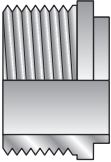
brine pressure drop. This results in reduced environmental impact and lower costs.

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.

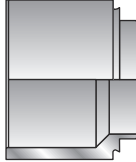
Examples of connections



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

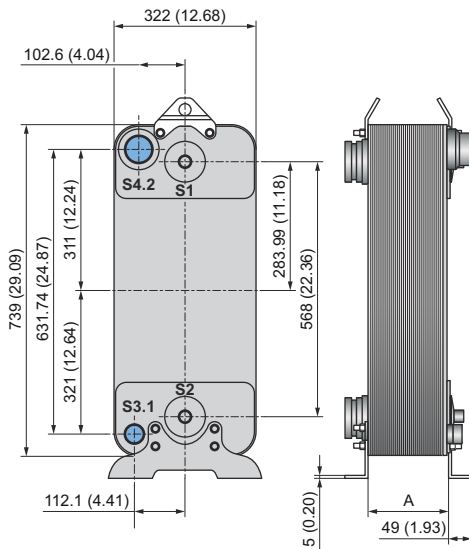
² Excluding connections

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

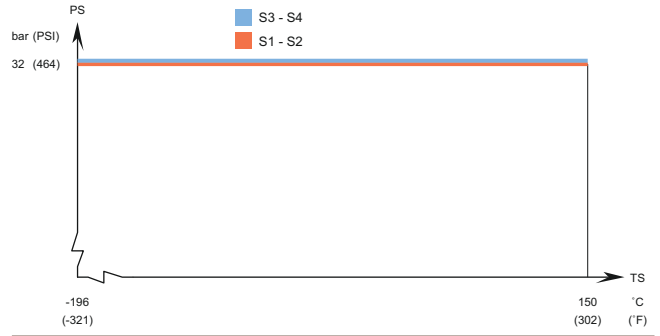
Dimensional drawing

Measurements in mm (inches)

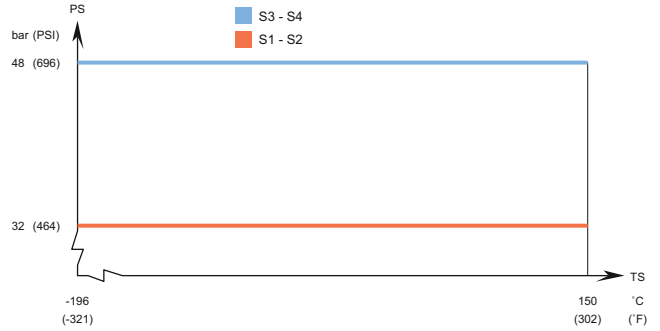


Design pressure and temperature

AC502EQ – PED approval pressure/temperature graph



ACH502EQ – PED approval pressure/temperature graph



Designed for full vacuum.

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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Alfa Laval AC540DQ

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.

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 CO₂ footprint.

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

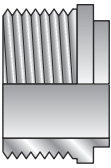
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/ brine pressure drop. This results in reduced environmental impact and lower costs.

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

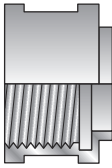
Based on standard components and a modular concept, including symmetric and asymmetric channels, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections



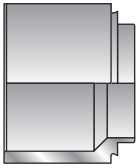
External thread



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

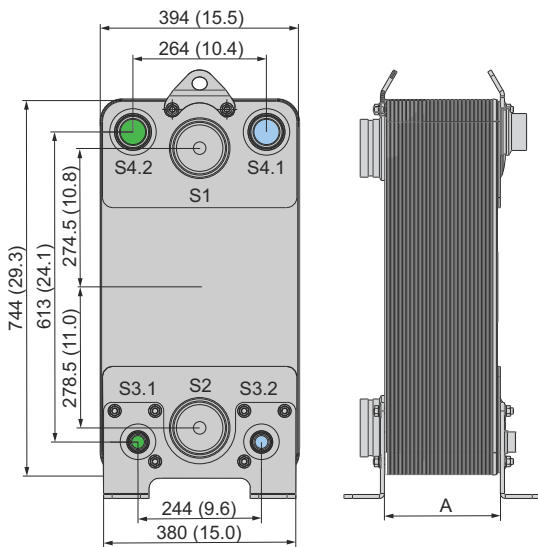
Standard data

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)

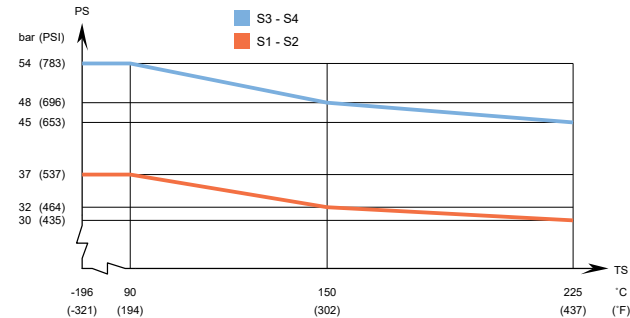
Dimensional drawing

Measurements in mm (inches)

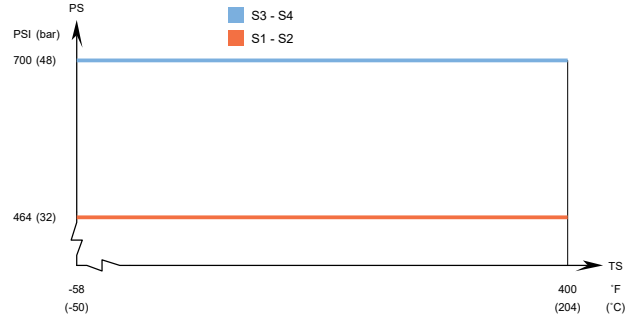


Design pressure and temperature

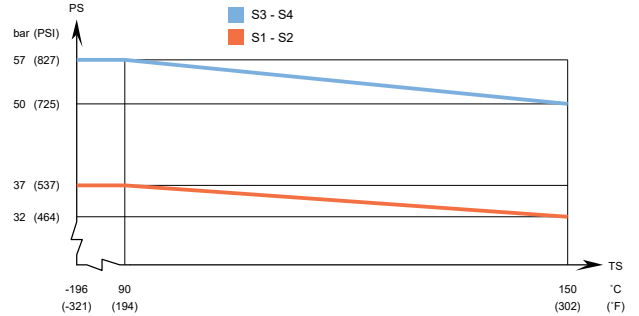
ACH540DQ – PED approval pressure/temperature graph



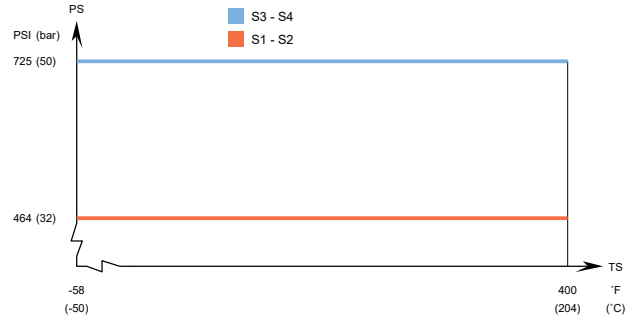
ACH540DQ – UL approval pressure/temperature graph



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.

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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 CO₂ 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.

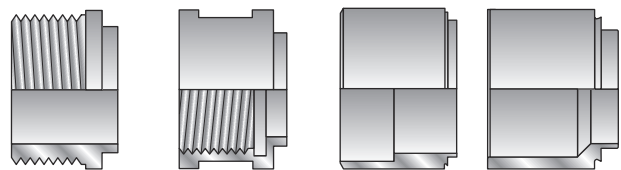
The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.



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

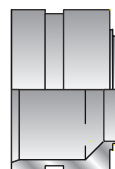


External thread

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

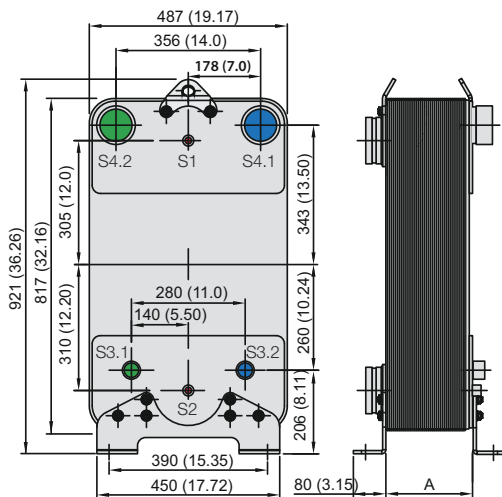
Standard data

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)

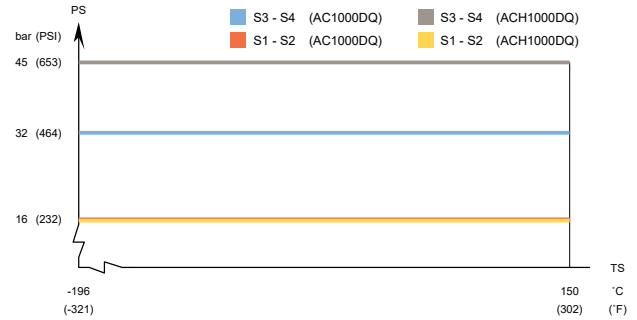
Dimensional drawing

Measurements in mm (inches)

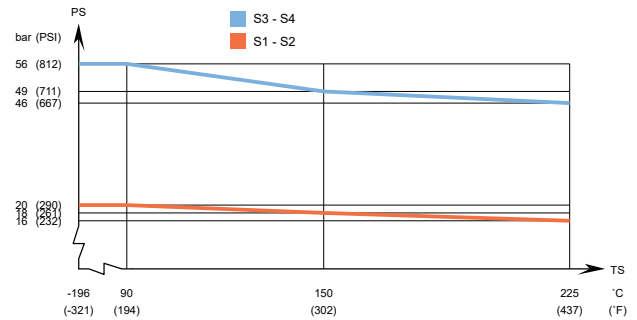


Design pressure and temperature

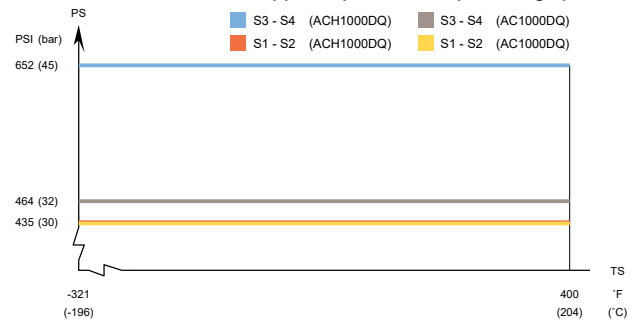
AC1000DQ/ACH1000DQ – PED approval pressure/temperature graph



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.

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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.

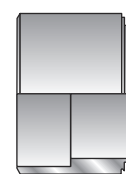
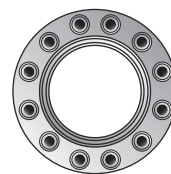
Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/brine pressure drop. This results in reduced environmental impact and lower costs.

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

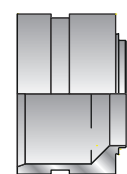
Examples of connections



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

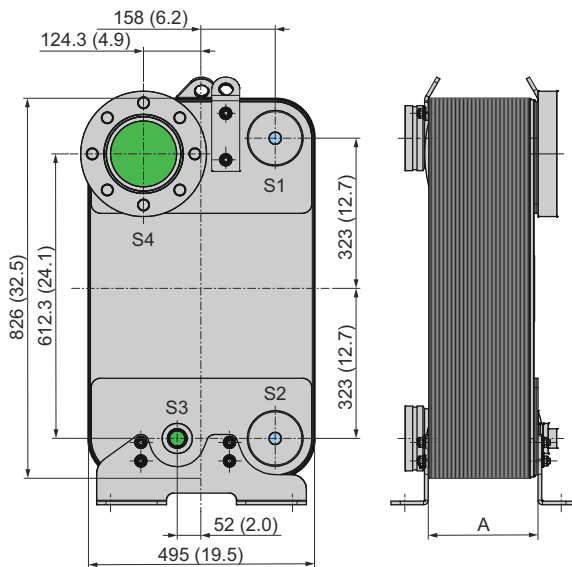
Standard data

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)

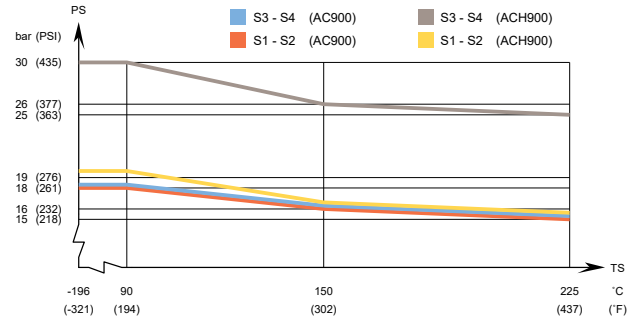
Dimensional drawing

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.

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Alfa Laval CB110 / CBH110 / CBP110 / CBK110

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

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

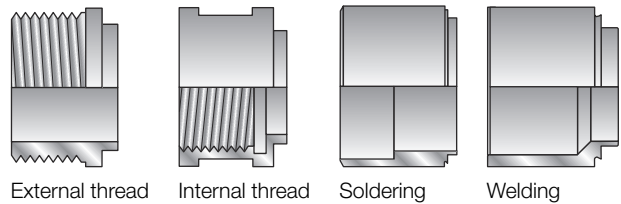
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

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

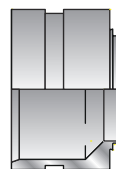


External thread

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

Dimensions and weight ¹

A-measurement (mm)	15 + (2.56 * n)
A-measurement (inches)	0.59 + (0.10 * 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

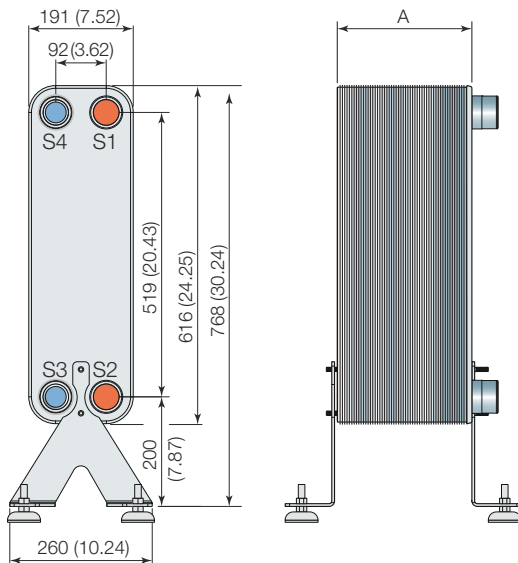
Standard data

Volume per channel, litres (gal)	0.21 (0.0555)
Max. particle size, mm (inch)	1.2 (0.047)
Max. flowrate ¹ m ³ /h (gpm)	51 (224.5)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	240

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

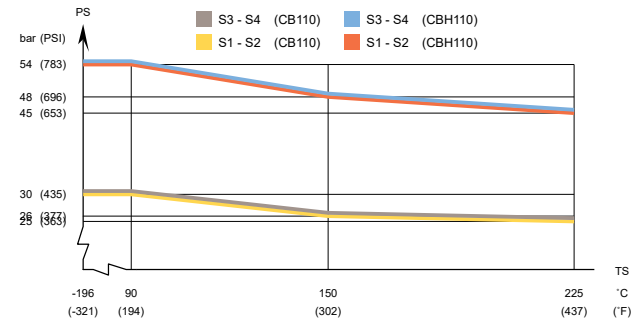
Dimensional drawing

Measurements in mm (inches)

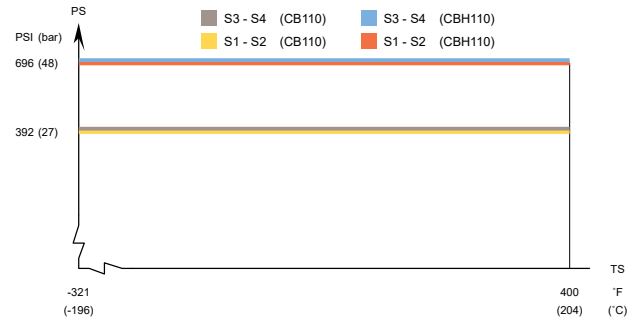


Design pressure and temperature

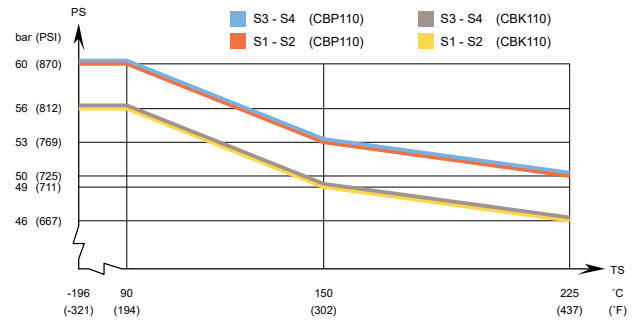
CB110/CBH110 – PED approval pressure/temperature graph



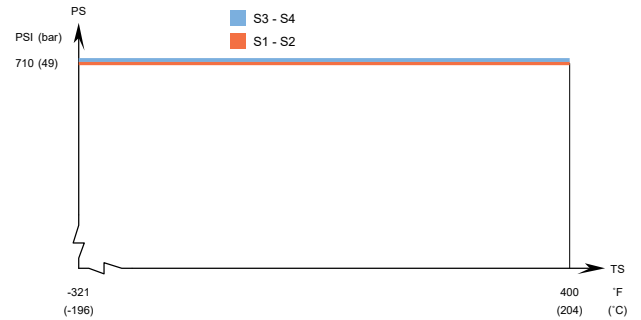
CB110/CBH110– UL approval pressure/temperature graph



CB110 / CBP110 – PED approval pressure/temperature graph



CBK110 – 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.

Marine approvals

CBM110 can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV-GL, KR, LR, RINA)

Alfa Laval CB112 / CBH112 / CBP112 / CBXP112

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

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.

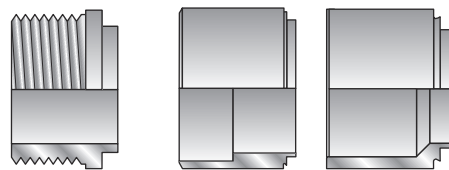
The XP design is particularly suited for CO₂ applications.

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 CO₂ footprint.

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.



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

Dimensions and weight ¹

A-measurement (mm)	16 + (2.07 * 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

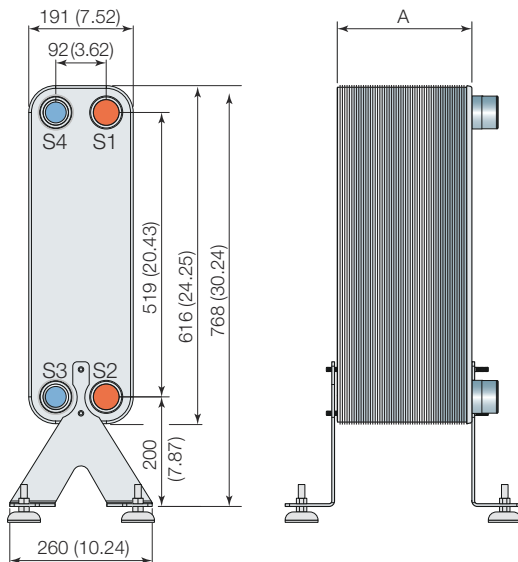
Standard data

	H, L, M: 0.18 (0.0476)
Volume per channel, litres (gal)	CB/CBH/CBP AH (S1-S2): 0.2 (0.0528) CB/CBH/CBP AH (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)

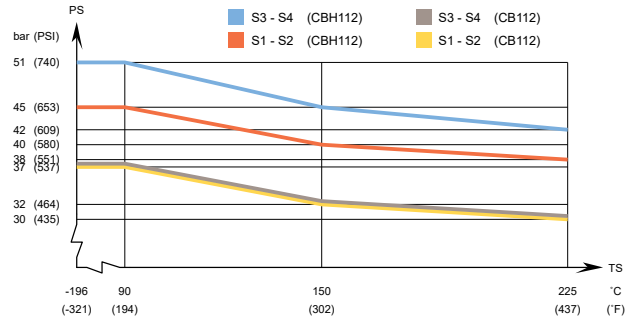
Dimensional drawing

Measurements in mm (inches)

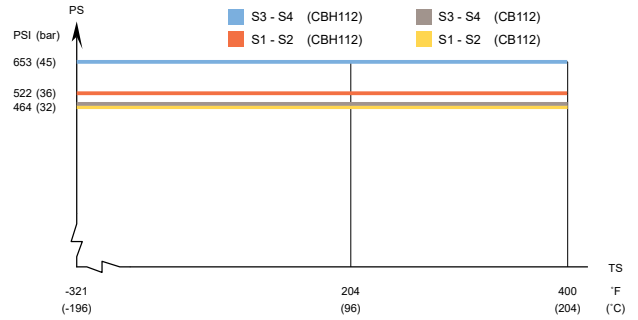


Design pressure and temperature

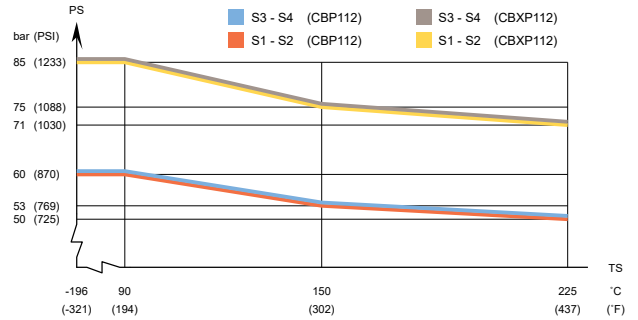
CB112/CBH112 – PED approval pressure/temperature graph



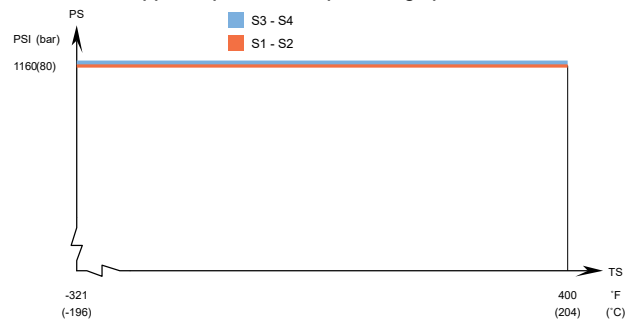
CB112/CBH112 – UL approval pressure/temperature graph



CBP112 / CBXP112 – PED approval pressure/temperature graph



CBXP112 – 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 CB18 / CBH18

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Oil cooling
- Industrial heating and cooling

Benefits

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

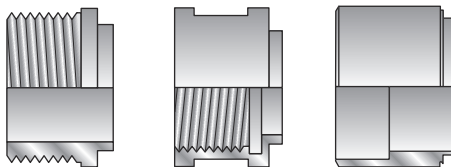
Design

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.

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.

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

Dimensions and weight ¹

A measure (mm)	$7 + (2.16 * n)$
A measure (inches)	$0.28 + (0.09 * n)$
Weight (kg) ²	$0.217 + (0.07 * n)$
Weight (lb) ²	$0.48 + (0.15 * n)$

¹ n = number of plates

² Excluding connections

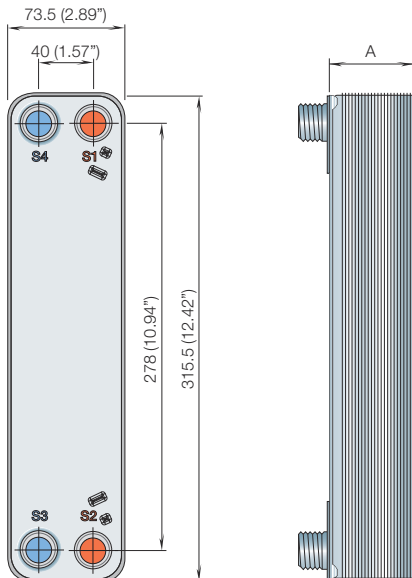
Standard data

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)

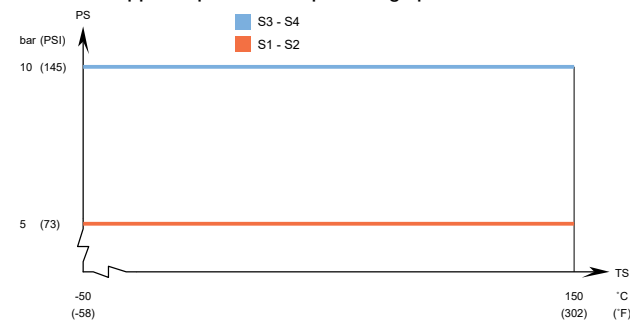
Dimensional drawing

Measurements in mm (inches)

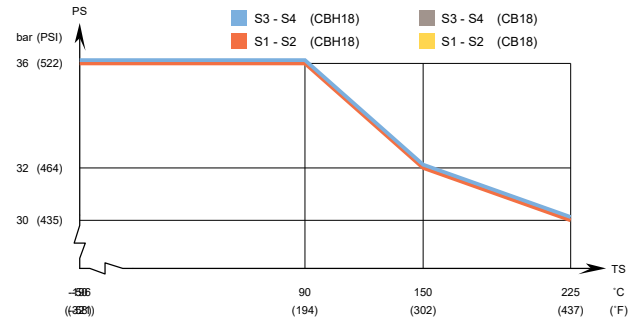


Design pressure and temperature

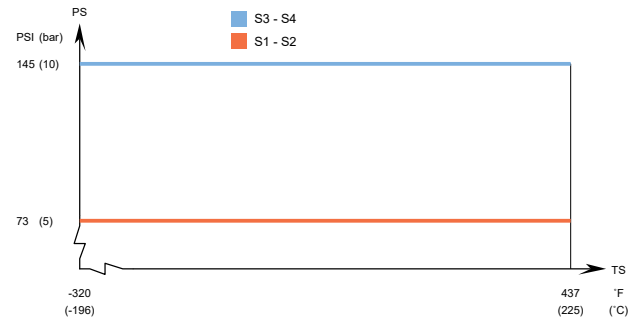
CB18 – PED approval pressure/temperature graph



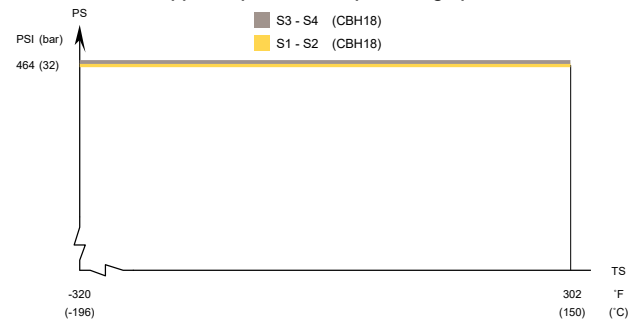
CBH18 – PED approval pressure/temperature graph



CB18 – UL/CRN approval pressure/temperature graph



CBH18 – UL/CRN 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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Alfa Laval CBH18DW

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Double wall plates are used as an extra precaution to avoid intermixing of fluids.

Applications

- HVAC heating and cooling
- 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
- Leak detection
- No fluid contamination

Branded Features



ValuePlus

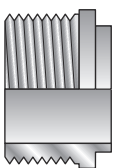
Total support – with value-adding options to fit your needs

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.

The double wall construction provides external leak detection and minimizes the risk of mixing the fluids. The thermal performance is similar to single wall heat exchanger.

Examples of connections



External thread



Soldering



Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A measure (mm)	12.2 + (2.27 * n)
A measure (inches)	0.48 + (0.09 * n)
Weight (kg) ²	0.6 + (0.13 * n)
Weight (lb) ²	1.32 + (0.29 * n)

¹ n = number of plates

² Excluding connections

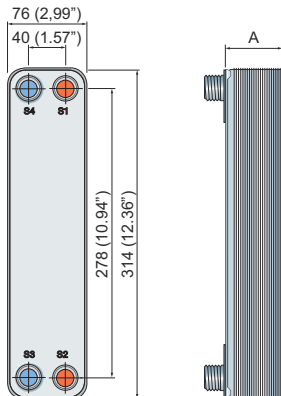
Standard data

Volume per channel, litres (gal)	0.0335 (0.0088)
Max. particle size, mm (inch)	0.6 (0.024)
Max. flowrate ¹ m ³ /h (gpm)	4.1 (18.1)
Flow direction	Parallel
Min. number of plates	10 (DW)
Max. number of plates	52 (DW)

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

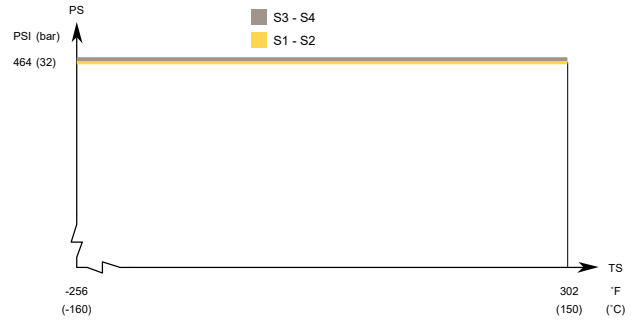
Dimensional drawing

Measurements in mm (inches)

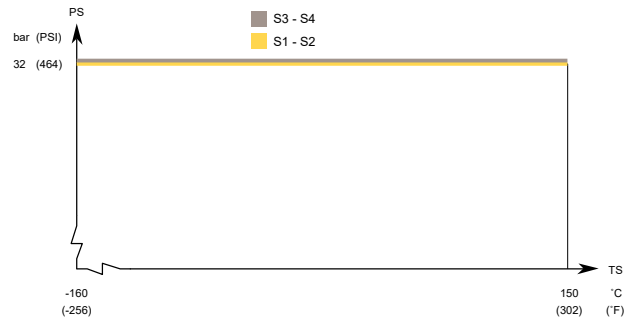


Design pressure and temperature

CBH18DW – UL approval pressure/temperature graph



CBH18DW – 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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How to contact Alfa Laval

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Alfa Laval CB20 / CBH20

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

Benefits

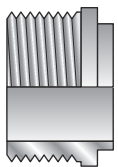
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design

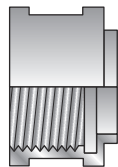
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

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

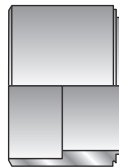
Examples of connections



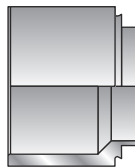
External thread



Internal thread



Soldering



Welding



Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A measure (mm)	CB: $8 + (1.5 * n)$ CBH: $10 + (1.5 * n)$
A measure (inches)	CB: $0.31 + (0.06 * n)$ CBH: $0.39 + (0.06 * n)$
Weight (kg) ²	CB: $0.6 + (0.08 * n)$ CBH: $0.9 + (0.08 * n)$
Weight (lb) ²	CB: $1.32 + (0.18 * n)$ CBH: $1.98 + (0.18 * n)$

¹ n = number of plates

² Excluding connections

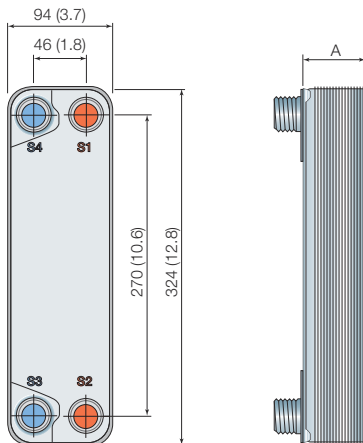
Standard data

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	10
Max. number of plates	CB: 110 CBH: 94

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

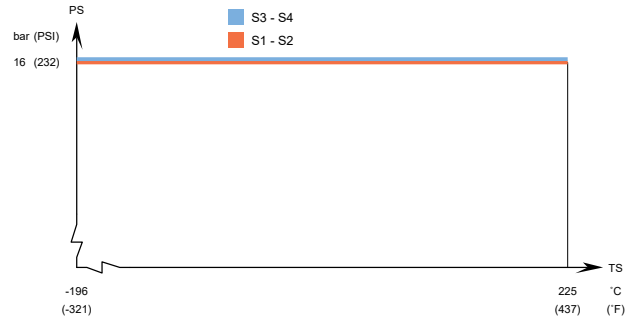
Dimensional drawing

Measurements in mm (inches)

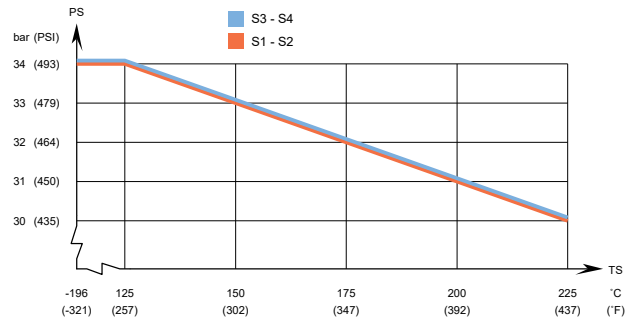


Design pressure and temperature

CB20 – PED approval pressure/temperature graph



CBH20 – 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 CB200 / CBH200

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

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

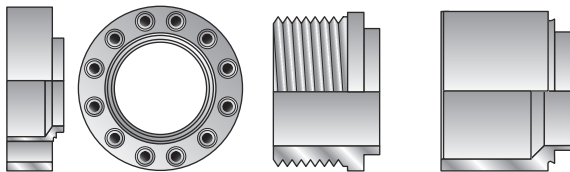
Design

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.

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

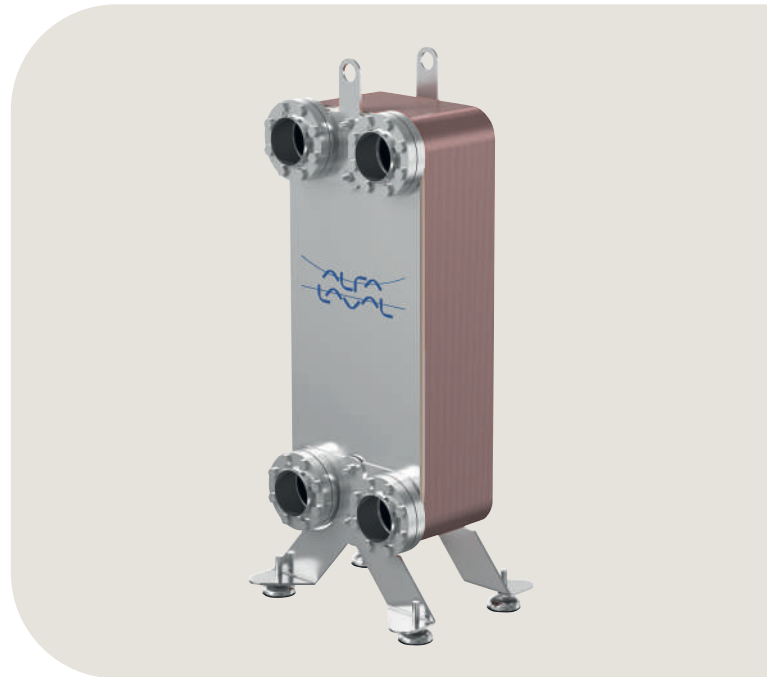
Examples of connections



Compact flange

External thread

Welding



Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A-measurement (mm)	11 + (2.7 * n)
A-measurement (inches)	0.43 + (0.11 * n)
Weight (kg) ²	12 + (0.60 * n)
Weight (lb) ²	26.46 + (1.32 * n)

¹ n = number of plates

² Excluding connections

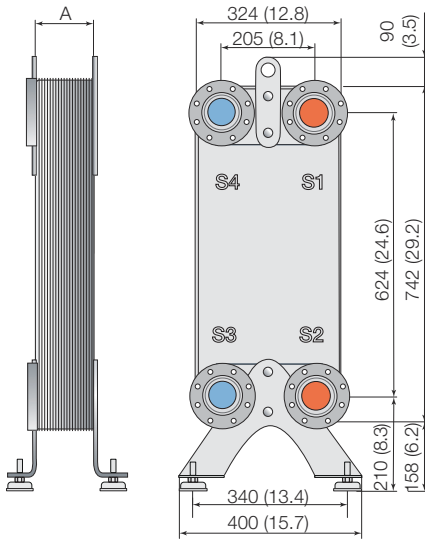
Standard data

Volume per channel, litres (gal)	0.51 (0.1347)
Max. particle size, mm (inch)	1.8 (0.071)
Max. flowrate ¹ m ³ /h (gpm)	128 (563.6)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	230

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

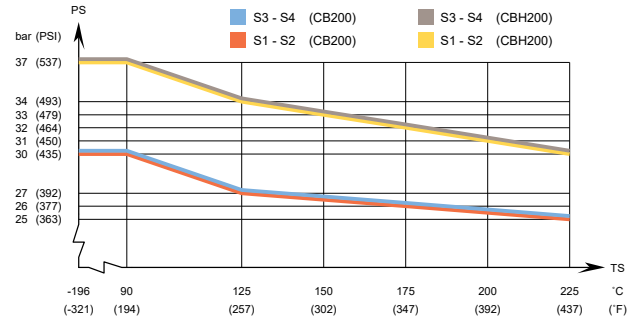
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

CB200/CBH200 – 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

CBMH200 can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV-GL, KR, LR, RINA)

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How to contact Alfa Laval

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Alfa Laval CB210 / CBH210 / CBK210

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

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



PressureSecure

Unparalleled strength for demanding duties



ValuePlus

Total support – with value-adding options to fit your needs

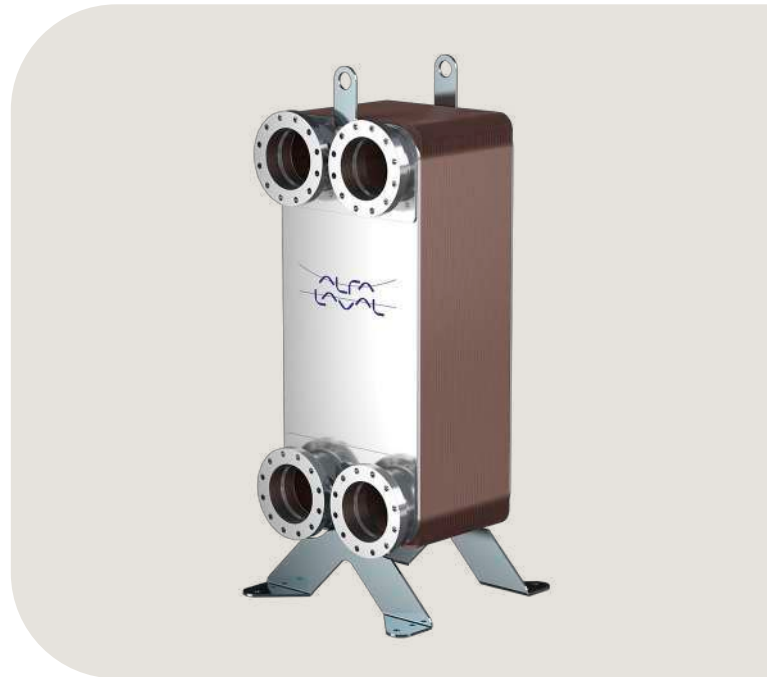
Design

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.

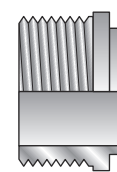
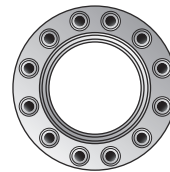
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.



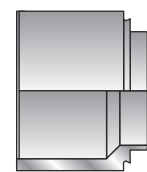
Examples of connections



Compact flange



External thread



Welding

Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A-measurement (mm)	H, L, M: $11 + (2.18 * n)$ AH, AM: $11 + (2.14 * n)$
A-measurement (inches)	H, L, M: $0.43 + (0.09 * n)$ AH, AM: $0.43 + (0.08 * n)$
Weight (kg) ²	$12 + (0.61 * n)$
Weight (lb) ²	$26.46 + (1.34 * n)$

¹ n = number of plates

² Excluding connections

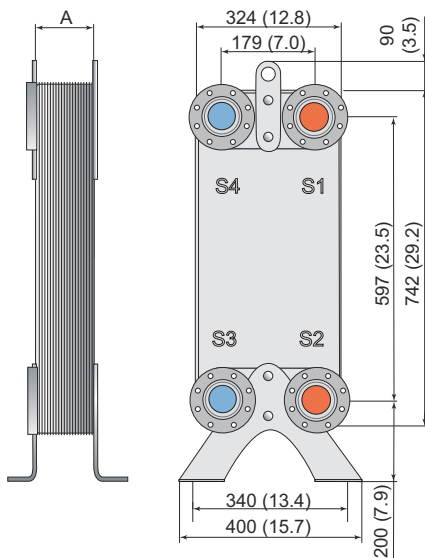
Standard data

	AH, AM (S1-S2): 0.636 (0.1680)
Volume per channel, litres (gal)	AH, AM (S3-S4): 0.416 (0.1099)
	H, L, M: 0.503 (0.1329)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate ¹ m ³ /h (gpm)	162 (713.3)
Flow direction	Parallel
	CB: 20
Min. number of plates	CBH: 20 CBK: 20
	CB: 360
Max. number of plates	CBH: 300 CBK: 204

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

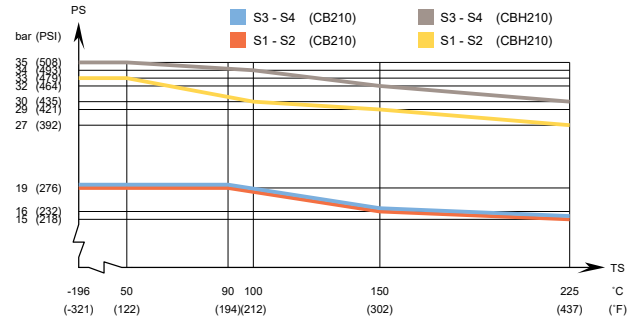
Dimensional drawing

Measurements in mm (inches)

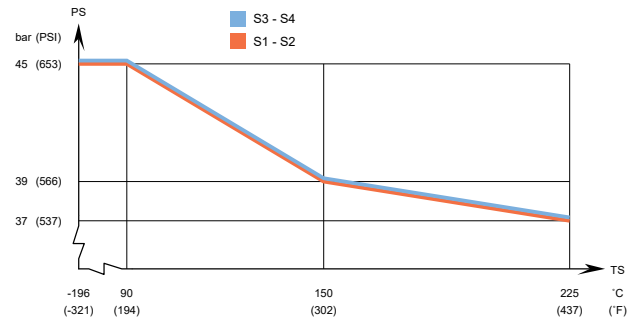


Design pressure and temperature

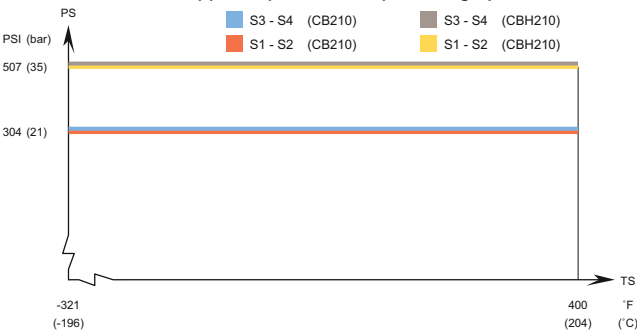
CB210/CBH210 – PED approval pressure/temperature graph



CBK210 – PED approval pressure/temperature graph



CB210/CBH210 – 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.

Marine approvals

CBMK210 can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV-GL, KR, LR, RINA)



Alfa Laval CB24

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- 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



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.

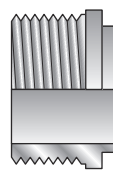
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO₂ footprint.



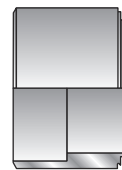
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections



External thread



Soldering

Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A measure (mm)	$6.2 + (1.17 * n)$
A measure (inches)	$0.24 + (0.05 * n)$
Weight (kg) ²	$0.515 + (0.07 * n)$
Weight (lb) ²	$1.14 + (0.15 * n)$

¹ n = number of plates

² Excluding connections

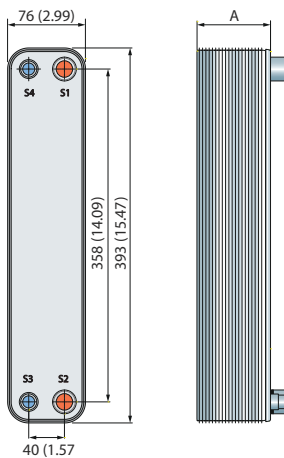
Standard data

Volume per channel, litres	S1-S2: 0.0347 (0.0092)
(gal)	S3-S4: 0.0184 (0.0049)
Max. particle size, mm	0.5 (0.020)
(inch)	
Max. flowrate ¹ m ³ /h	4.1 (18.1)
(gpm)	
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	56

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

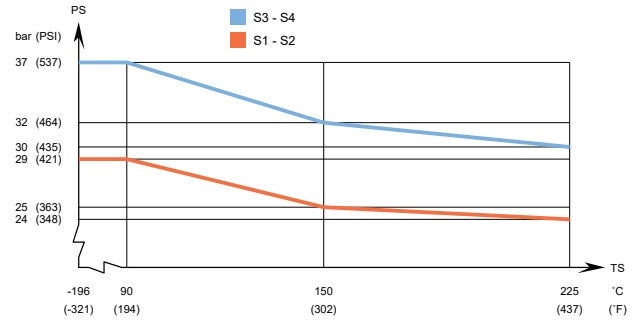
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

CB24 – 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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Alfa Laval CB30 /CBH30 / CBP30

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

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

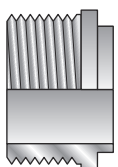
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

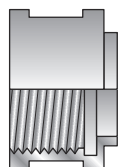
The unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

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



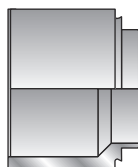
External thread



Internal thread



Soldering



Welding



Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A-measurement (mm)	13 + (2.31 * n)
A-measurement (inches)	0.51 + (0.09 * n)
Weight (kg) ²	1.2 + (0.11 * n)
Weight (lb) ²	2.65 + (0.24 * n)

¹ n = number of plates

² Excluding connections

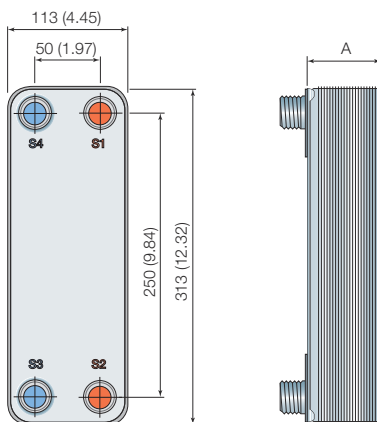
Standard data

Volume per channel, litres (gal)	0.054 (0.0143)
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	4
Max. number of plates	150

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

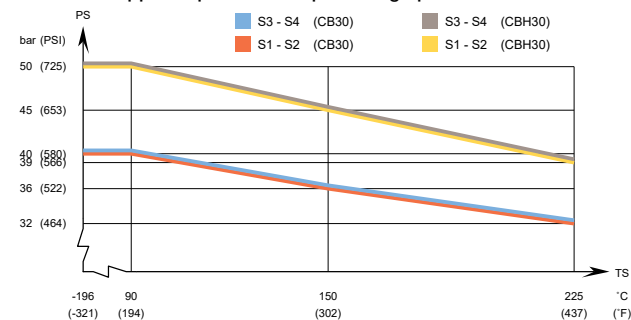
Dimensional drawing

Measurements in mm (inches)

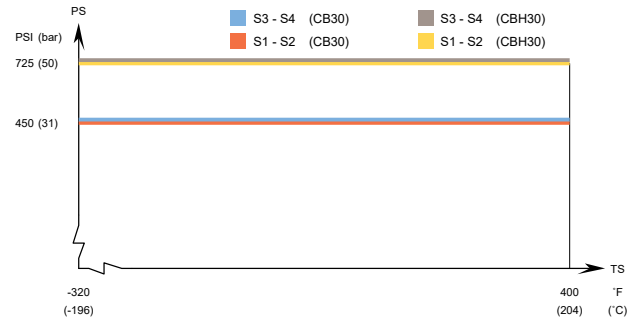


Design pressure and temperature

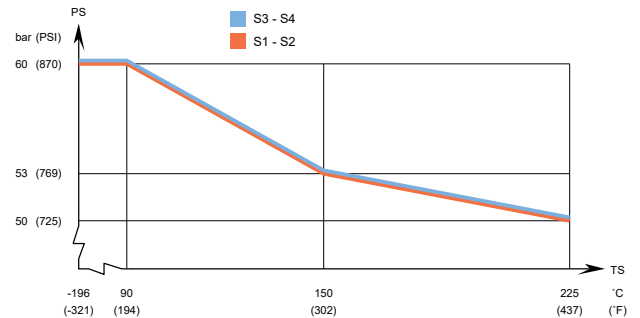
CBP30 – PED approval pressure/temperature graph



CBP30 – UL approval pressure/temperature graph



CBP30 – 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

CBM30 can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV-GL, KR, LR, RINA)

Alfa Laval CB300 / CBH300

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

Benefits

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

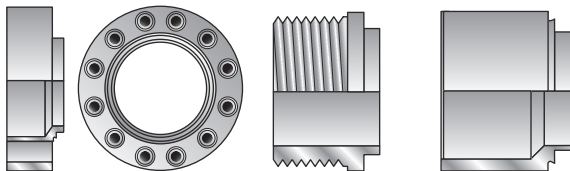
Design

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.

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



Compact flange

External thread

Welding



Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A measure (mm)	$11 + (2.62 * n)$
A measure (inches)	$0.43 + (0.10 * n)$
Weight (kg) ²	$21 + (1.26 * n)$
Weight (lb) ²	$46.30 + (2.78 * n)$

¹ n = number of plates

² Excluding connections

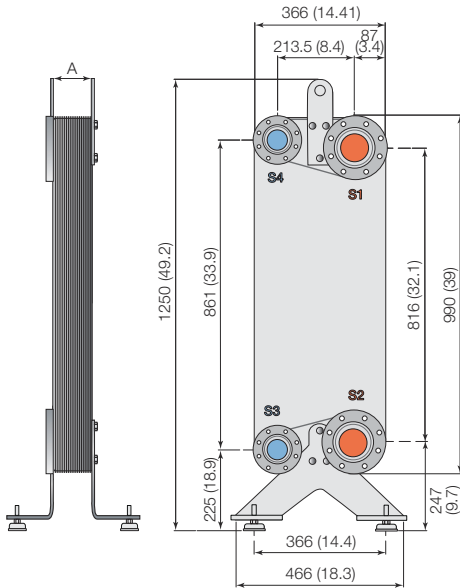
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.69 (0.1823)
	(S3-S4): 0.58 (0.1532)
Max. particle size, mm (inch)	1.8 (0.071)
Max. flowrate ¹ m ³ /h (gpm)	200 (880.6)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	250

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

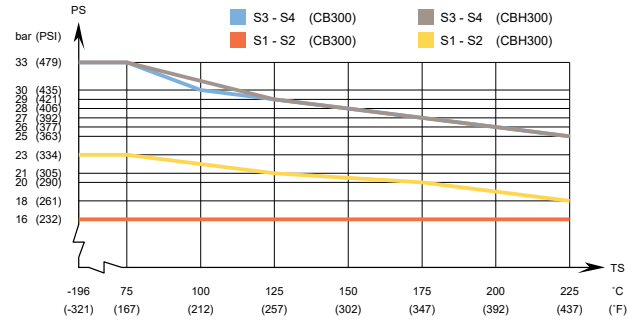
Dimensional drawing

Measurements in mm (inches)

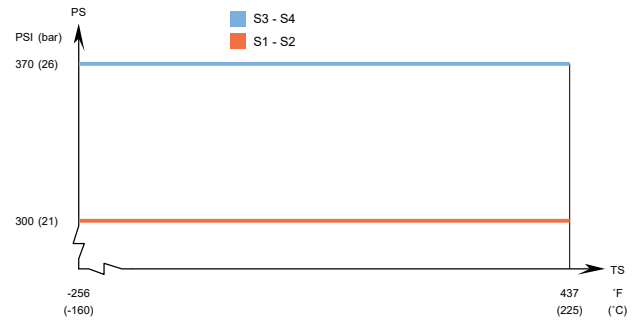


Design pressure and temperature

CB300/CBH300 – PED approval pressure/temperature graph



CB300/CBH300 – 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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Alfa Laval CB40

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling
- Data center cooling

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



IceSafe

Controlled, non-destructive freezing



PressureSecure

Unparalleled strength for demanding duties



ValuePlus

Total support – with value-adding options to fit your needs

Design

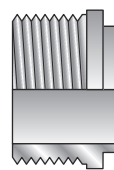
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

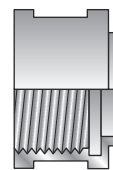
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.



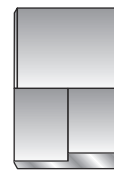
Examples of connections



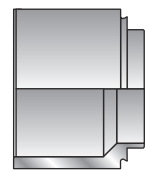
External thread



Internal thread



Soldering



Welding

Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A-measurement (mm)	12.5 + (1.55 * n)
A-measurement (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

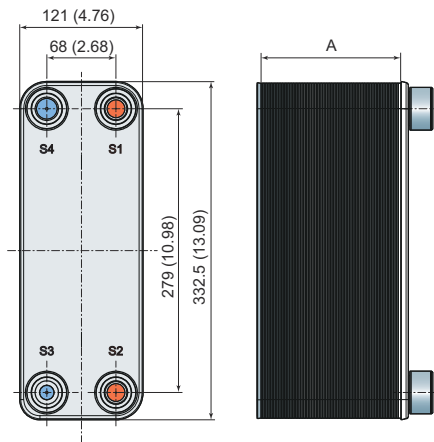
Standard data

Volume per channel, litres (S1-S2)	0.048 (0.0127)
(gal)	(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	150

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

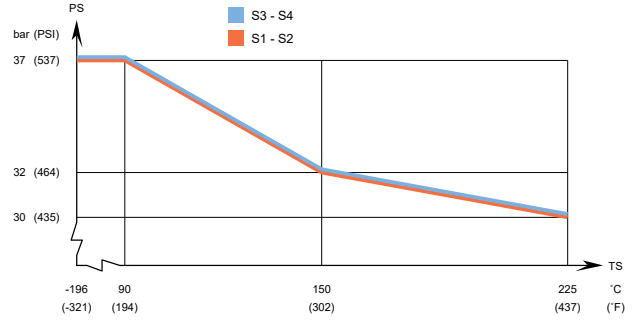
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

CB40 – 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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Alfa Laval CB400

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

Benefits

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

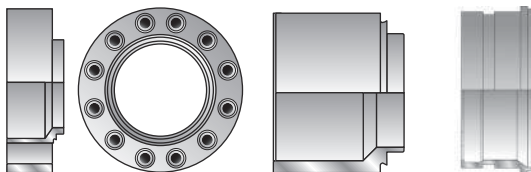
Branded Features

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.

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

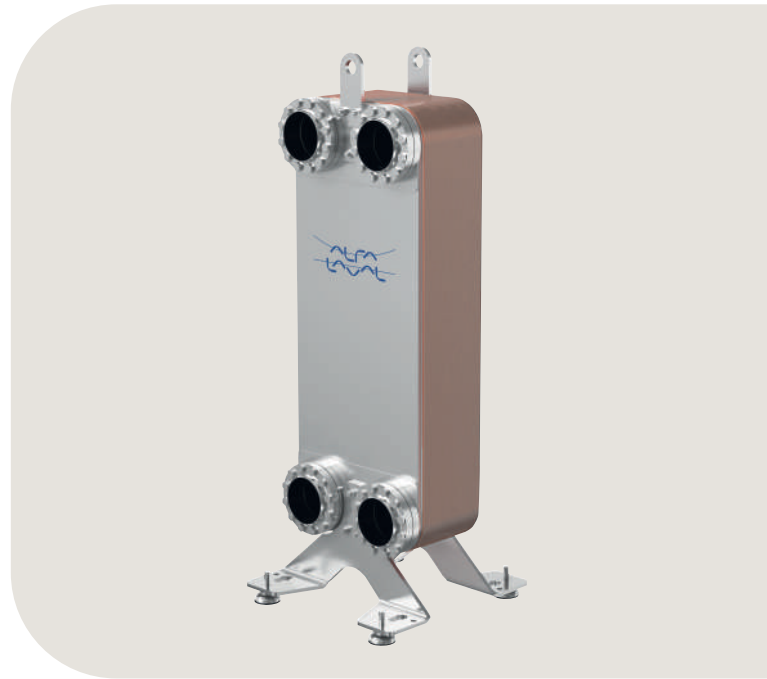
Examples of connections



Compact flange

Welding

Clamp



Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A-measurement (mm)	14 + (2.56 * n)
A-measurement (inches)	0.55 + (0.10 * n)
Weight (kg) ²	24 + (1.35 * n)
Weight (lb) ²	52.91 + (2.98 * n)

¹ n = number of plates

² Excluding connections

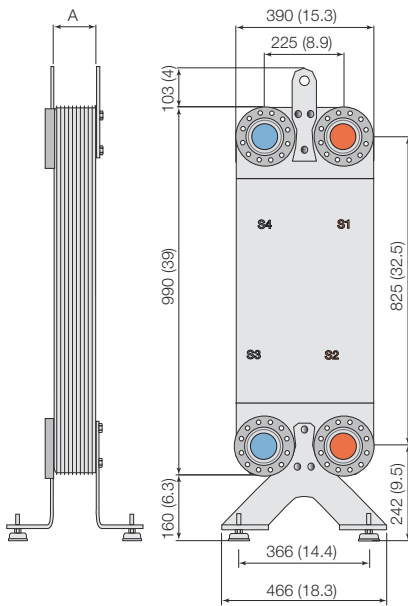
Standard data

Volume per channel, litres (gal)	0.74 (0.1955)
Max. particle size, mm (inch)	1.8 (0.071)
Max. flowrate ¹ m ³ /h (gpm)	200 (880.6)
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)

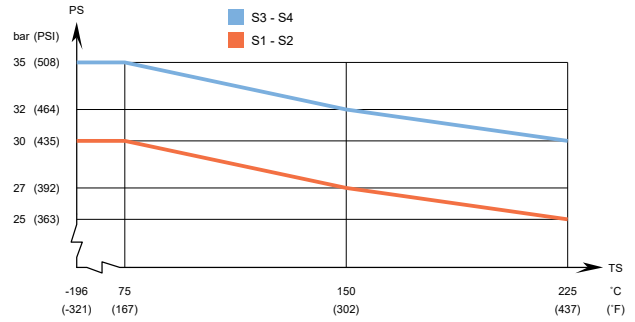
Dimensional drawing

Measurements in mm (inches)

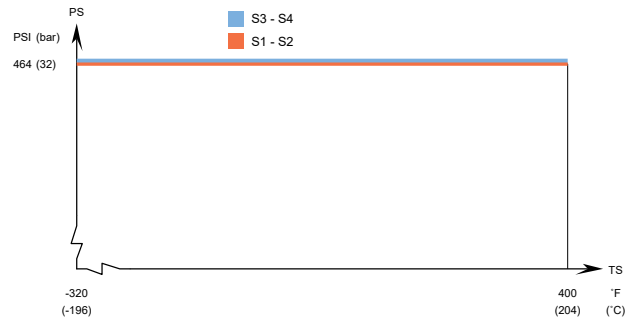


Design pressure and temperature

CB400 – PED approval pressure/temperature graph



CB400 – 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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Marine approvals

CBM400 can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV-GL, KR, LR, RINA)

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Alfa Laval CB410 / CBH410 / CBK410

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Oil cooling
- Industrial heating and cooling

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



PressureSecure Unparalleled strength for demanding duties



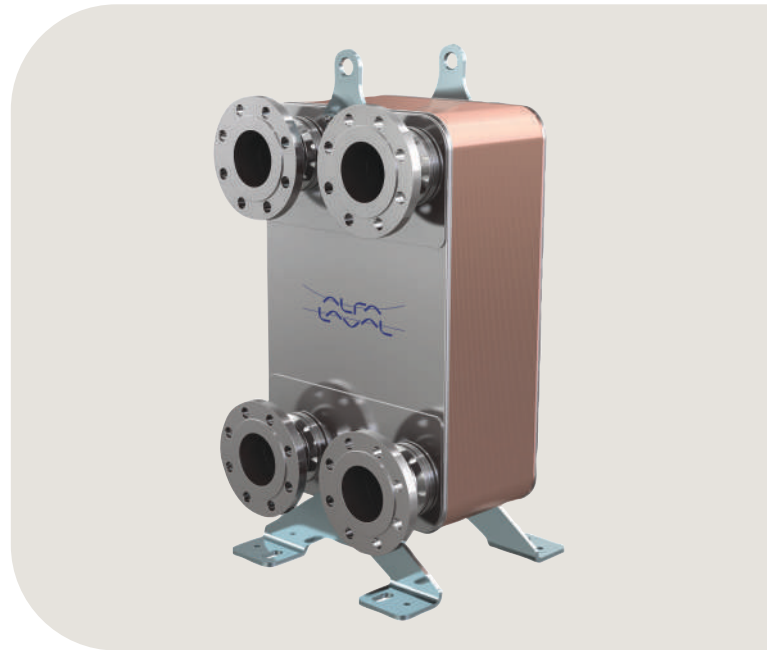
ValuePlus Total support – with value-adding options to fit your needs

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.

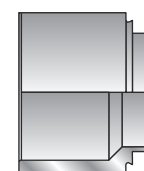
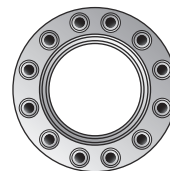
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.



Examples of connections



Compact flange



Welding



Clamp

Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A-measurement (mm)	H, L, M: $15.2 + (2.15 * n)$ AH, AM: $15.2 + (2.06 * n)$
A-measurement (inches)	H, L, M: $0.60 + (0.08 * n)$ AH, AM: $0.60 + (0.08 * n)$
Weight (kg) ²	$30 + (1.14 * n)$
Weight (lb) ²	$66.14 + (2.51 * n)$

¹ n = number of plates

² Excluding connections

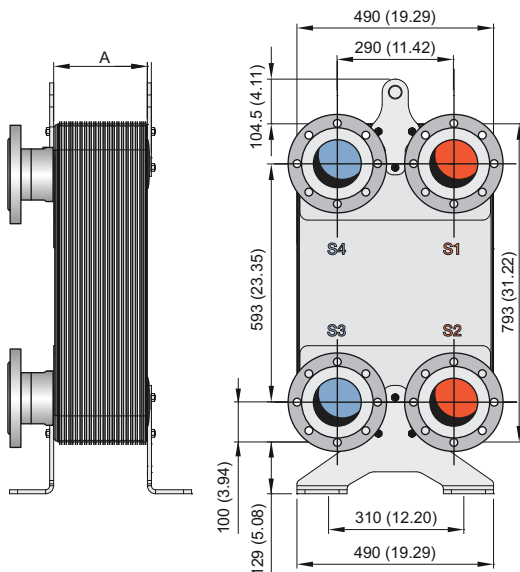
Standard data

	H, L, M: 0.69 (0.1823)
Volume per channel, litres (gal)	AH, AM (S1-S2): 0.86 (0.2272) AH, AM (S3-S4): 0.57 (0.1506)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate ¹ m ³ /h (gpm)	285 (1254.8)
Flow direction	Parallel
	CB: 10
Min. number of plates	CBH: 10 CBK: 20
	CB: 330
Max. number of plates	CBH: 300 CBK: 174

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

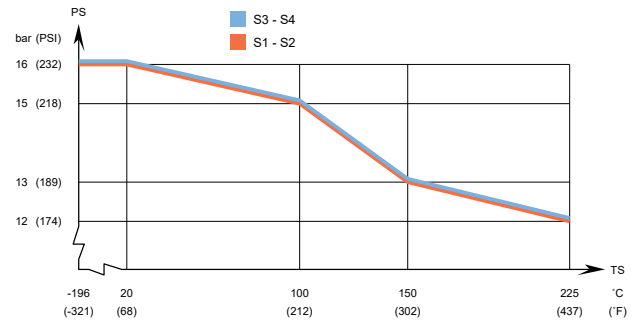
Dimensional drawing

Measurements in mm (inches)

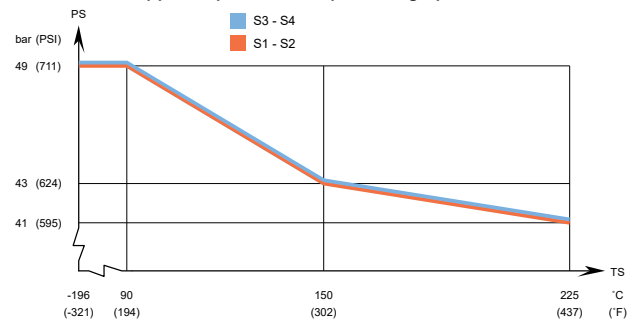


Design pressure and temperature

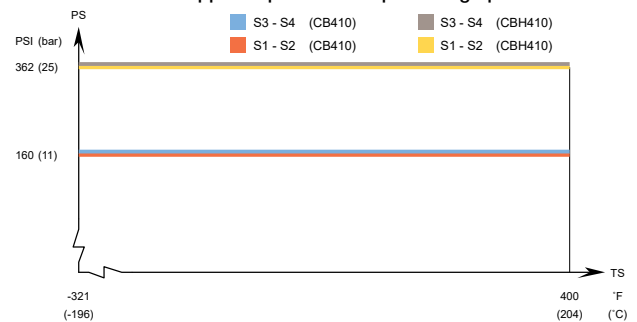
CBH410 – PED approval pressure/temperature graph



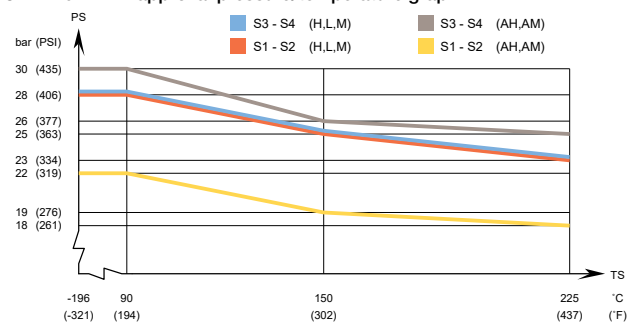
CBK410 – PED approval pressure/temperature graph



CBH410/CBH410 – UL approval pressure/temperature graph



CBH410 – 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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Alfa Laval CBP540

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Industrial heating and cooling

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



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.

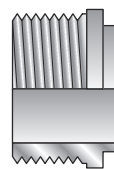
The P design is particularly suited for CO₂ applications.

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 CO₂ footprint.

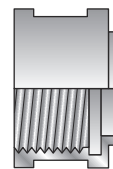


Based on standard components and a modular concept, including symmetric and asymmetric channels, each unit is custom-built to meet the specific requirements of each individual installation.

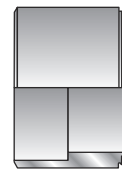
Examples of connections



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

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

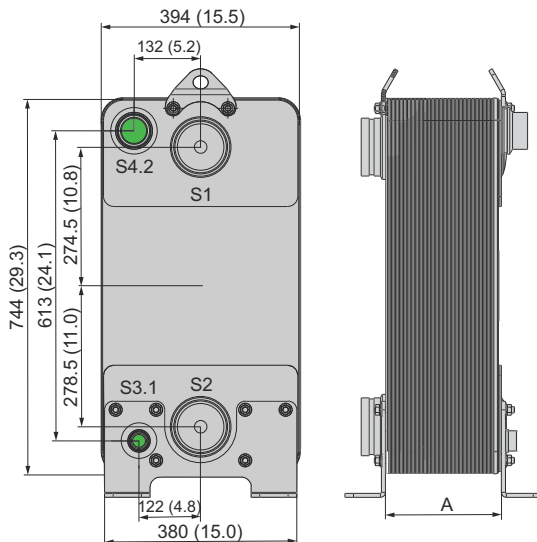
Standard data

Volume per channel, litres (gal)	S1-S2: 0.73 (0.1928)
	S3-S4: 0.56 (0.02481)
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

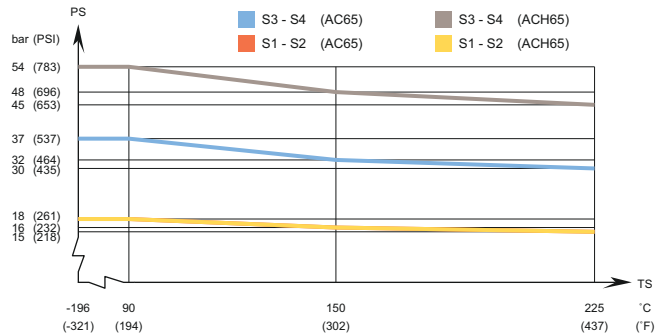
¹ Water at 7 m/s (23.0 ft/s) (connection velocity)

Dimensional drawing

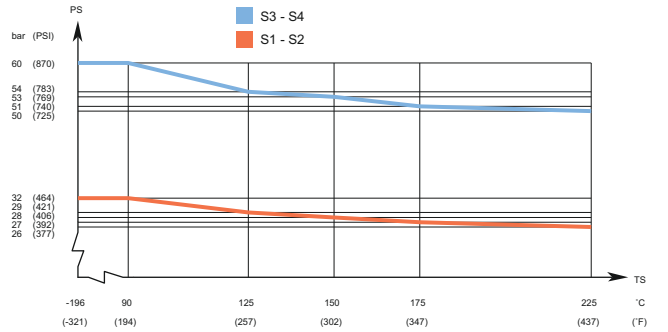
Measurements in mm (inches)



Design pressure and temperature



CBP540 – 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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Alfa Laval CB60 / CBH60 / CBP60

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

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

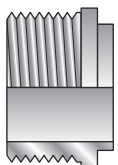
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

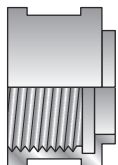
The unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

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



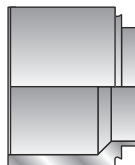
External thread



Internal thread



Soldering



Welding



Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A measure (mm)	CB, CBH: $13 + (2.32 * n)$ CBP: $15 + (2.32 * n)$
A measure (inches)	CB, CBH: $0.51 + (0.09 * n)$ $n)^2$ CBP: $0.59 + (0.09 * n)$
Weight (kg) ³	CB, CBH: $2.1 + (0.18 * n)^2$ CBP: $2.26 + (0.18 * n)$
Weight (lb) ³	CB, CBH: $4.63 + (0.40 * n)$ CBP: $4.98 + (0.40 * n)$

¹ n = number of plates

² Excluding reinforcement

³ Excluding connections

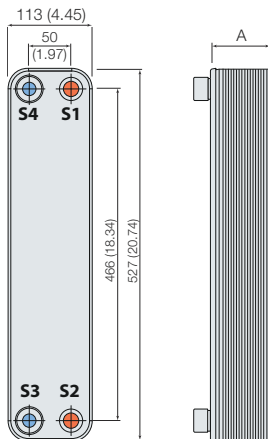
Standard data

Volume per channel, litres (gal)	0.103 (0.0272)
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	4
Max. number of plates	150

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

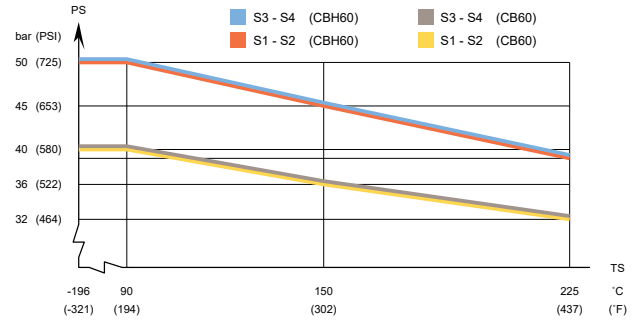
Dimensional drawing

Measurements in mm (inches)

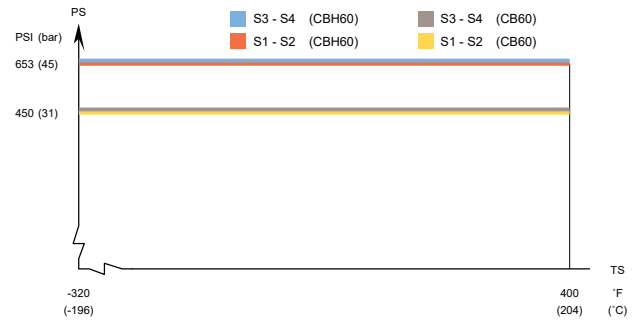


Design pressure and temperature

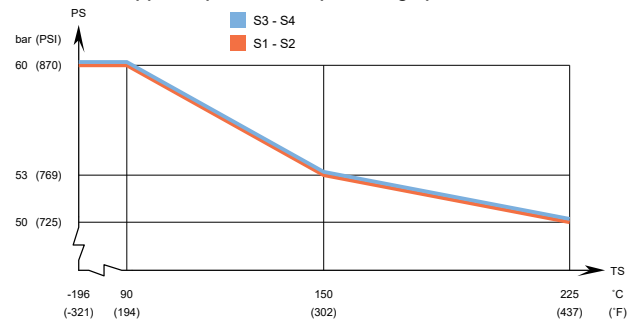
CB60/CBH60 – PED approval pressure/temperature graph



CB60/CBH60 – UL approval pressure/temperature graph



CBP60 – 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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Alfa Laval CB62 / CBH62 / CBK62

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

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



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 unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

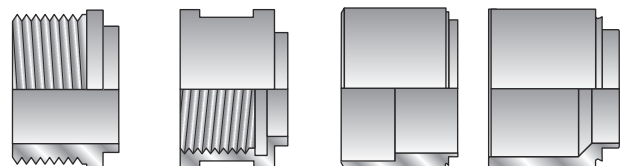
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower



pressure drop on the water or brine side, reducing the CO₂ footprint.

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.

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

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

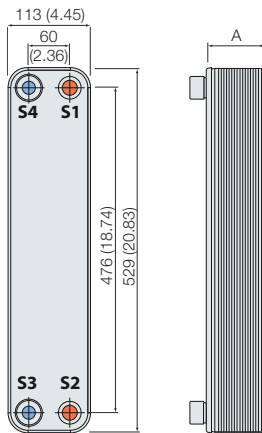
Standard data

Volume per channel, litres (gal)	AH (S1-S2): 0.104 (0.0275) AH (S3-S4): 0.084 (0.0222) H: 0.094 (0.0248)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate ¹ m ³ /h (gpm)	8.8 (38.7)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	150

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

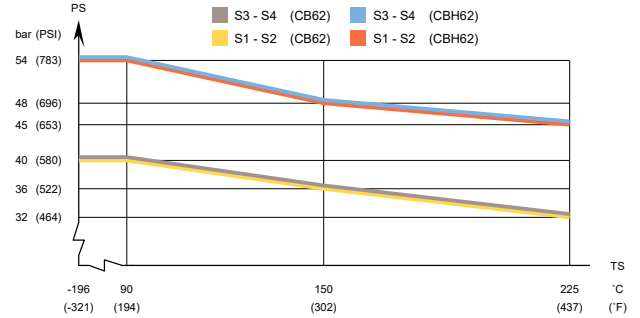
Dimensional drawing

Measurements in mm (inches)

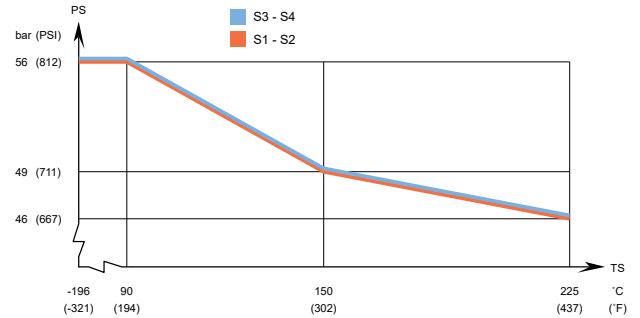


Design pressure and temperature

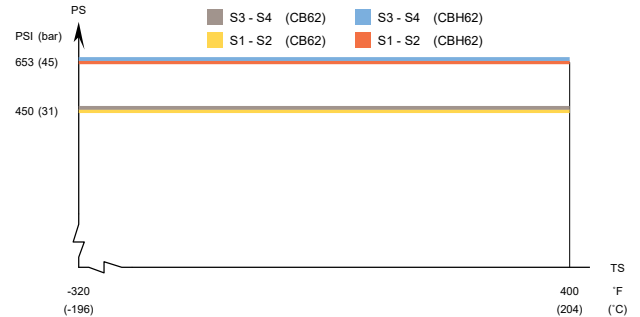
CB62/CBH62 – PED approval pressure/temperature graph



CBK62 – PED approval pressure/temperature graph



CB62/CBH62 – 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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Alfa Laval CB65 / CBH65

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

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



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 unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

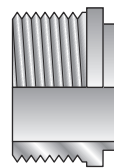
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower



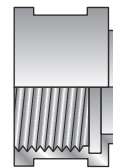
pressure drop on the water or brine side, reducing the CO₂ footprint.

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

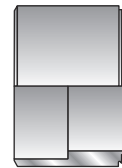
Examples of connections



External thread



Internal thread



Soldering

Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A measure (mm)	$11.5 + (1.4 * n)$
A measure (inches)	$0.45 + (0.06 * n)$
Weight (kg) ²	$2.1 + (0.14 * n)$
Weight (lb) ²	$4.63 + (0.31 * n)$

¹ n = number of plates

² Excluding connections

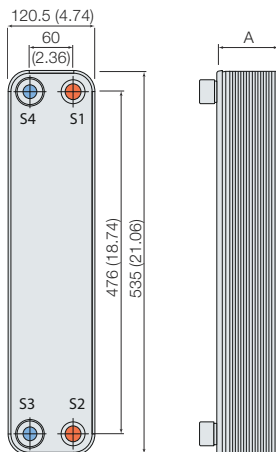
Standard data

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 ¹ m ³ /h (gpm)	8.8 (38.7)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	150

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

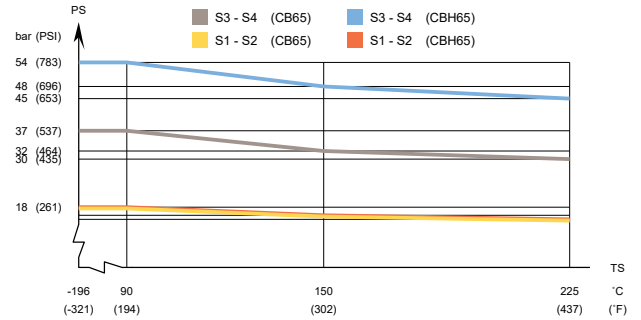
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

CB65/CBH65 – 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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Alfa Laval CBXP27

Brazed plate heat exchanger for air conditioning and refrigeration

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- Refrigeration
- Industrial heating and cooling

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

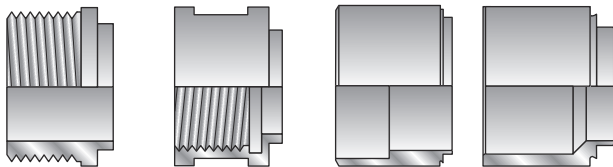
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

The XP design is particularly suited for CO₂ applications.

The unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

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



Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A measure (mm)	13 + (2.4 * n)
A measure (inches)	0.51 + (0.09 * n)
Weight (kg) ²	2 + (0.13 * n)
Weight (lb) ²	4.41 + (0.29 * n)

¹ n = number of plates

² Excluding connections

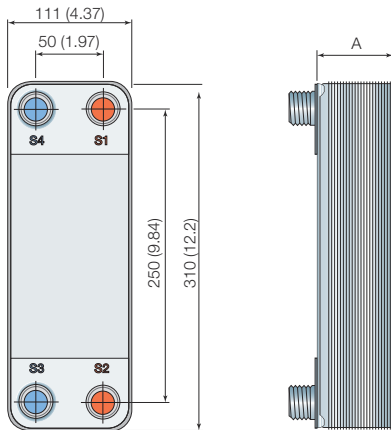
Standard data

Volume per channel, litres (gal)	0.05 (0.0132)
Max. particle size, mm (inch)	1.2 (0.047)
Max. flowrate ¹ m ³ /h (gpm)	14 (61.6)
Flow direction	Parallel
Min. number of plates	6
Max. number of plates	150

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

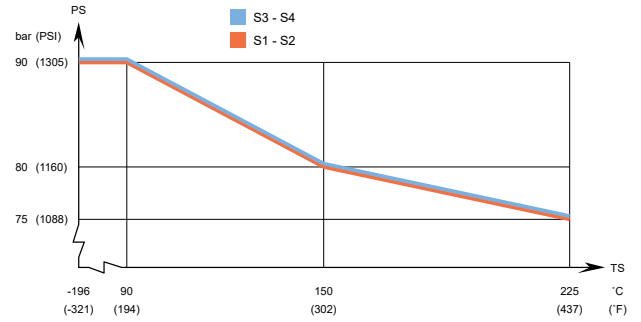
Dimensional drawing

Measurements in mm (inches)

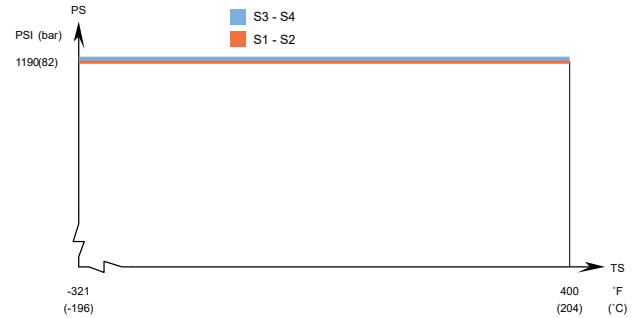


Design pressure and temperature

CBXP27 – PED approval pressure/temperature graph



CBXP27 – 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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Alfa Laval CBXP52

Brazed plate heat exchanger for extra high-pressure requirements

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- Refrigeration
- Industrial heating and cooling

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

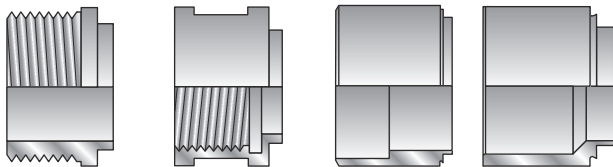
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

The XP design is particularly suited for CO₂ applications.

The unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

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



Technical data

Standard materials

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

Dimensions and weight

Dimensions and weight ¹

A measure (mm)	14 + (2.37 * n)
A measure (inches)	0.55 + (0.09 * n)
Weight (kg) ²	2.5 + (0.22 * n)
Weight (lb) ²	5.51 + (0.49 * n)

¹ n = number of plates

² Excluding connections

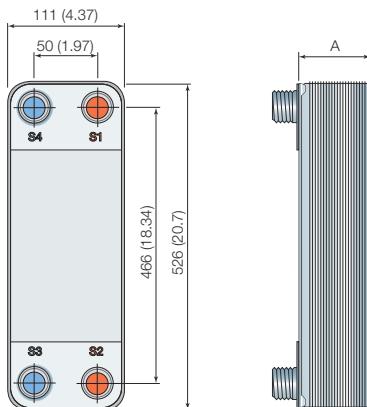
Standard data

Volume per channel, litres (gal)	0.095 (0.0251)
Max. particle size, mm (inch)	1.2 (0.047)
Max. flowrate ¹ m ³ /h (gpm)	14 (61.6)
Flow direction	Parallel
Min. number of plates	6
Max. number of plates	150

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

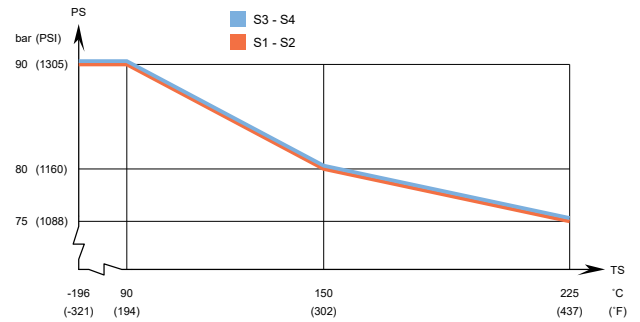
Dimensional drawing

Measurements in mm (inches)

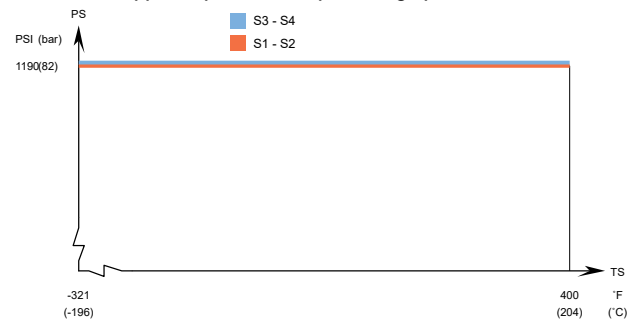


Design pressure and temperature

CBXP52 – PED approval pressure/temperature graph



CBXP52 – 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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Alfa Laval CB10 / CBH10

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Oil cooling
- Industrial heating and cooling

Benefits

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

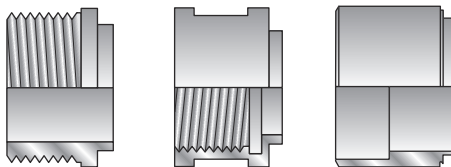
Design

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.

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.

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

Dimensions and weight ¹

A measure (mm)	$7 + (2.16 * n)$
A measure (inches)	$0.28 + (0.09 * n)$
Weight (kg) ²	$0.132 + (0.04 * n)$
Weight (lb) ²	$0.29 + (0.09 * n)$

¹ n = number of plates

² Excluding connections

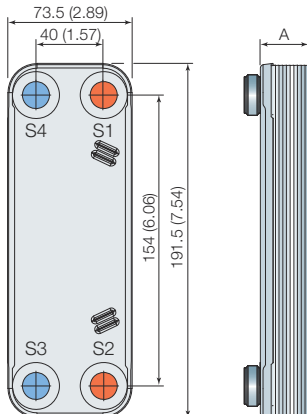
Standard data

	A (S1-S2): 0.02734 (0.0072)
Volume per channel, litres (gal)	A (S3-S4): 0.02734 (0.0072)
	H: 0.02481 (0.0066)
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)

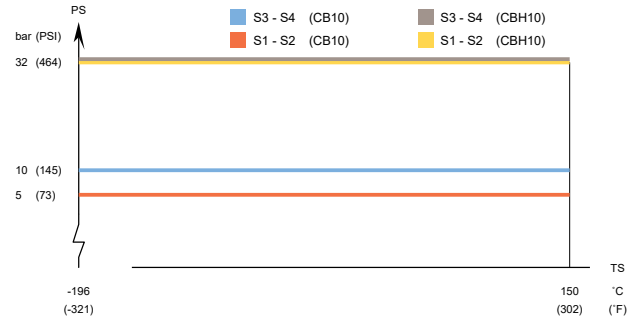
Dimensional drawing

Measurements in mm (inches)

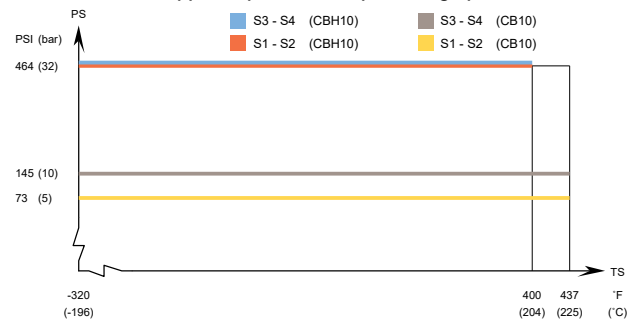


Design pressure and temperature

CB10/CBH10 – PED approval pressure/temperature graph



CB10/CBH10 – 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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Alfa Laval CB11 / CBH11

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Oil cooling
- Industrial heating and cooling

Benefits

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

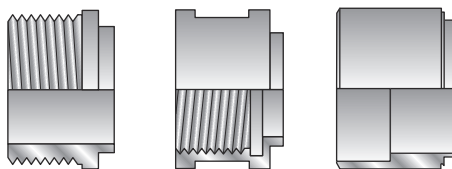
Design

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.

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.

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

Dimensions and weight ¹

A measure (mm)	$7.4 + (2.14 * n)$
A measure (inches)	$0.29 + (0.08 * n)$
Weight (kg) ²	$0.132 + (0.04 * n)$
Weight (lb) ²	$0.29 + (0.09 * n)$

¹ n = number of plates

² Excluding connections

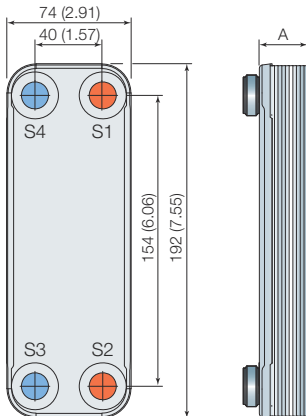
Standard data

Volume per channel, litres (gal)	A (S1-S2): 0.02531 (0.02531) A (S3-S4): 0.02431 (0.0064)
Max. particle size, mm (inch)	1.2 (0.047)
Max. flowrate ¹ m ³ /h (gpm)	2.8 (12.3)
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)

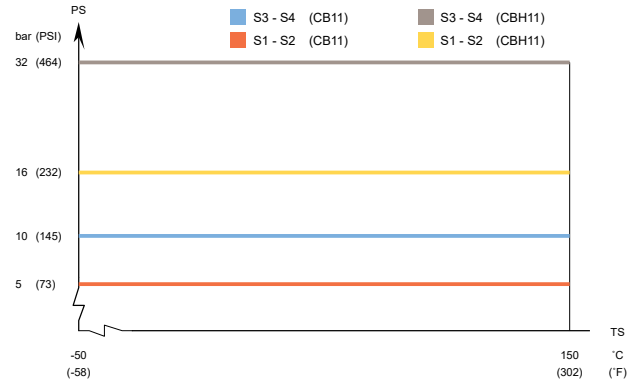
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

CB11/CBH11 – 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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Alfa Laval CB16 / CBH16

Brazed plate heat exchanger

Introduction

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications

- HVAC heating and cooling
- Oil cooling
- Industrial heating and cooling

Benefits

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

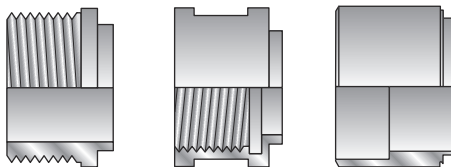
Design

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.

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.

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

Dimensions and weight ¹

A measure (mm)	$7 + (2.16 * n)$
A measure (inches)	$0.28 + (0.09 * n)$
Weight (kg) ²	$0.138 + (0.04 * n)$
Weight (lb) ²	$0.30 + (0.09 * n)$

¹ n = number of plates

² Excluding connections

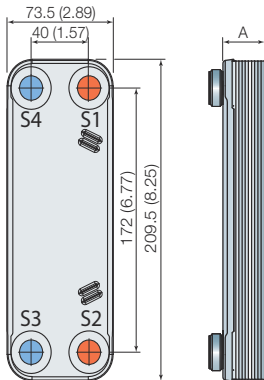
Standard data

	A (S1-S2): 0.03004 (0.0079)
Volume per channel, litres (gal)	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)

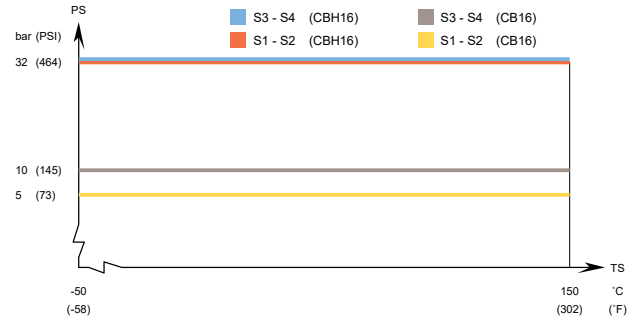
Dimensional drawing

Measurements in mm (inches)

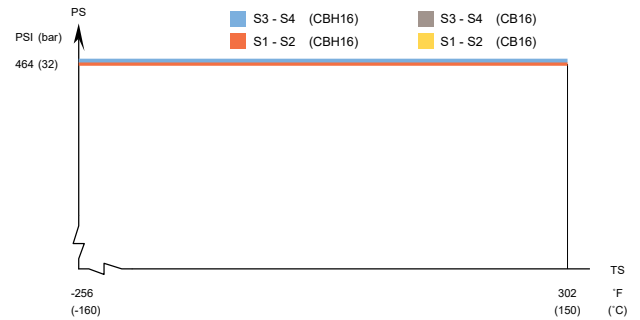


Design pressure and temperature

CB16/CBH16 – PED approval pressure/temperature graph



CB16 – UL/CRN approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval DOC16

Brazed plate heat exchanger for oil cooling

Introduction

Alfa Laval DOC - Dedicated oil coolers are brazed plate heat exchangers with robust connection flanges, which are suitable for hydraulic oil cooling applications.

Applications

- Oil cooling

Benefits

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

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.

The robust connection flanges with internal threads are specifically designed for oil cooling under tough operating conditions and reduces costs because of easy installation. Additionally, the flanges allow significantly higher torque at installation than conventional connections.



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

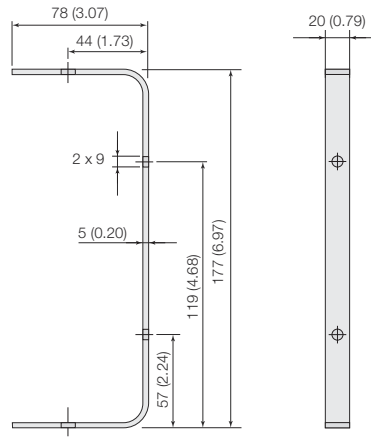
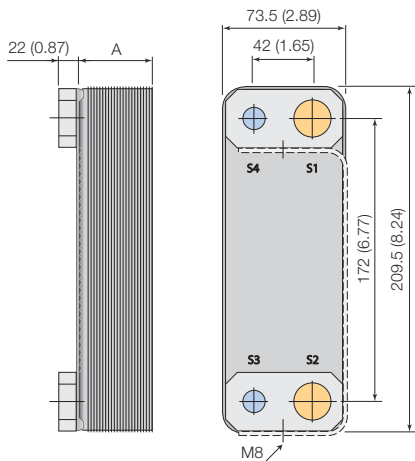
Standard data

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)	3.6 (15.9)
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)

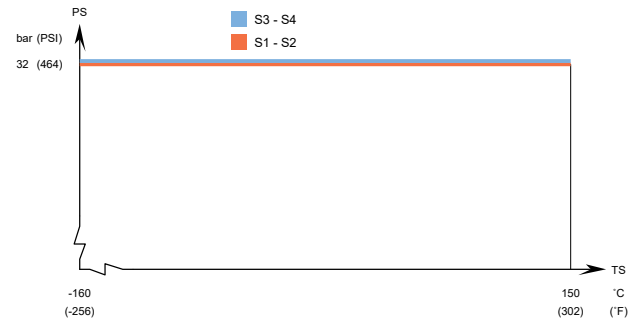
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

DOC16 – 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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Alfa Laval DOC20

Brazed plate heat exchanger for oil cooling

Introduction

Alfa Laval DOC - Dedicated oil coolers are brazed plate heat exchangers with robust connection flanges, which are suitable for hydraulic oil cooling applications.

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
- Very robust connection flanges
- Integrated mounting bracket

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 robust connection flanges with internal threads are specifically designed for oil cooling under tough operating conditions and reduces costs because of easy installation. Additionally, the flanges allow significantly higher torque at installation than conventional connections.



Technical Data

Standard materials

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

Dimensions and weight ¹

A measure (mm)	$8 + (1.5 * n)$
A measure (inches)	$0.31 + (0.06 * n)$
Weight (kg) ²	$0.6 + (0.08 * n)$
Weight (lb) ²	$1.32 + (0.18 * n)$

¹ n = number of plates

² Excluding connections

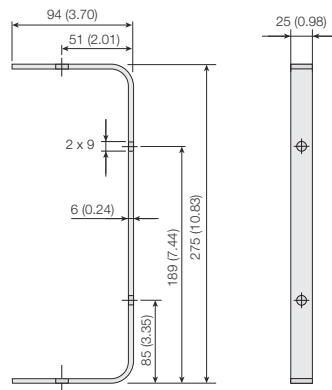
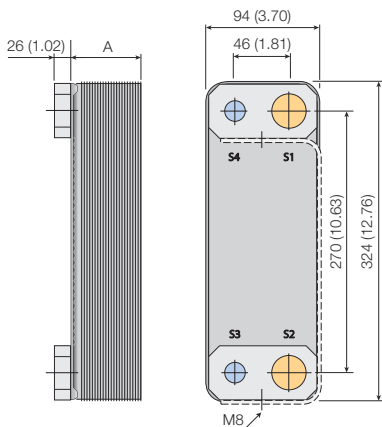
Standard data

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	10
Max. number of plates	110

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

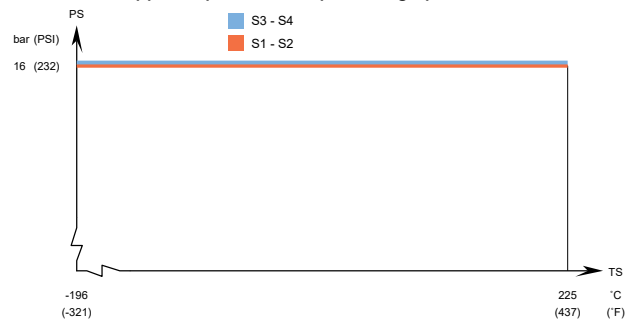
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

DOC20 – 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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Alfa Laval DOC30

Brazed plate heat exchanger for oil cooling

Introduction

Alfa Laval DOC - Dedicated oil coolers are brazed plate heat exchangers with robust connection flanges, which are suitable for hydraulic oil cooling applications.

Applications

- Oil cooling

Benefits

- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free
- Very robust connection flanges
- Integrated mounting bracket

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 robust connection flanges with internal threads and integrated mounting brackets are specifically designed for oil cooling under tough operating conditions and reduces costs because of easy installation. Additionally, the flanges allow significantly higher torque at installation than conventional connections.



Technical Data

Standard materials

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

Dimensions and weight ¹

A measure (mm)	$13 + (2.31 * n)$
A measure (inches)	$0.51 + (0.09 * n)$
Weight (kg) ²	$1.2 + (0.11 * n)$
Weight (lb) ²	$2.65 + (0.24 * n)$

¹ n = number of plates

² Excluding connections

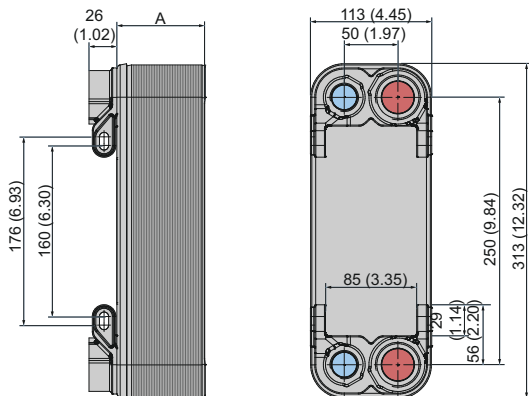
Standard data

Volume per channel, litres (gal)	0.054 (0.0143)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate ¹ m ³ /h (gpm)	8.8 (38.7)
Flow direction	Parallel
Min. number of plates	8
Max. number of plates	100

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

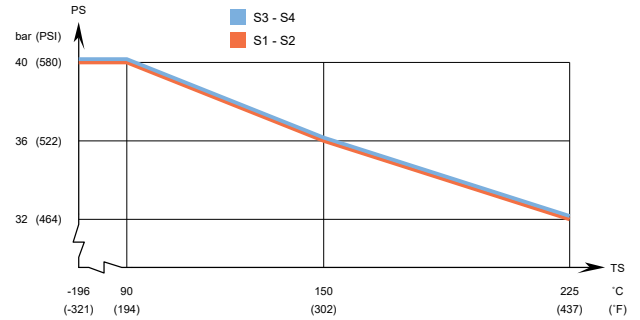
Dimensional drawing

Measurements in mm (inches)

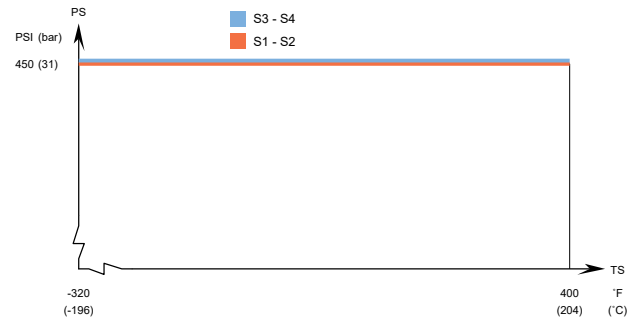


Design pressure and temperature

DOC30 – PED approval pressure/temperature graph



DOC30 – 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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Alfa Laval DOC60

Brazed plate heat exchanger for oil cooling

Introduction

Alfa Laval DOC - Dedicated oil coolers are brazed plate heat exchangers with robust connection flanges, which are suitable for hydraulic oil cooling applications.

Applications

- Oil cooling

Benefits

- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free
- Very robust connection flanges
- Integrated mounting bracket

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 robust connection flanges with internal threads and integrated mounting brackets are specifically designed for oil cooling under tough operating conditions and reduces costs because of easy installation. Additionally, the flanges allow significantly higher torque at installation than conventional connections.



Technical Data

Standard materials

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

Dimensions and weight ¹

A measure (mm)	$13 + (2.32 * n)$
A measure (inches)	$0.51 + (0.09 * n)$
Weight (kg) ²	$2.1 + (0.18 * n)$
Weight (lb) ²	$4.63 + (0.40 * n)$

¹ n = number of plates

² Excluding connections

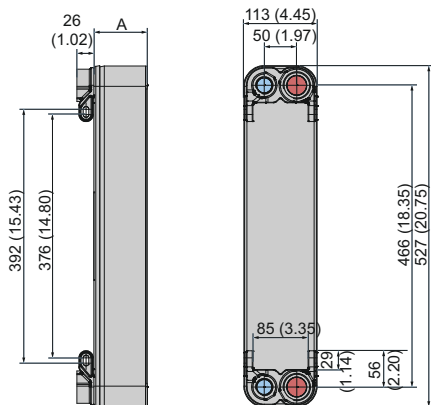
Standard data

Volume per channel, litres (gal)	0.103 (0.0272)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate ¹ m ³ /h (gpm)	8.8 (38.7)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	120

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

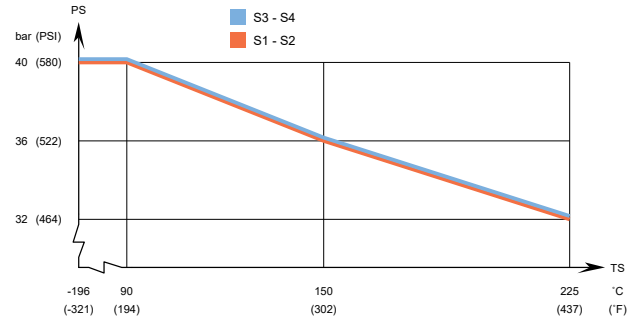
Dimensional drawing

Measurements in mm (inches)

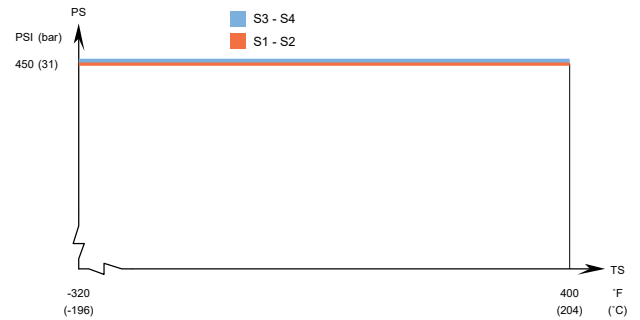


Design pressure and temperature

DOC60 – PED approval pressure/temperature graph



DOC60 – 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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Alfa Laval DOC110

Brazed plate heat exchanger for oil cooling

Introduction

Alfa Laval DOC - Dedicated oil coolers are brazed plate heat exchangers with robust connection flanges, which are suitable for hydraulic oil cooling applications.

Applications

- Oil cooling

Benefits

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

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 robust connection flanges with internal threads and integrated mounting brackets are specifically designed for oil cooling under tough operating conditions and reduces costs because of easy installation. Additionally, the flanges allow significantly higher torque at installation than conventional connections.



Technical Data

Standard materials

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

Dimensions and weight ¹

A measure (mm)	$15 + (2.56 * n)$
A measure (inches)	$0.59 + (0.10 * n)$
Weight (kg) ²	$4.82 + (0.35 * n)$
Weight (lb) ²	$10.63 + (0.77 * n)$

¹ n = number of plates

² Excluding connections

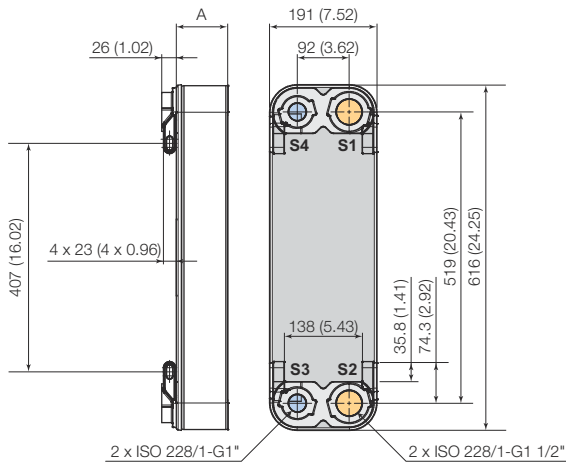
Standard data

Volume per channel, litres (gal)	0.21 (0.0555)
Max. particle size, mm (inch)	1.2 (0.047)
Max. flowrate ¹ m ³ /h (gpm)	20 (88.1)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	150

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

Dimensional drawing

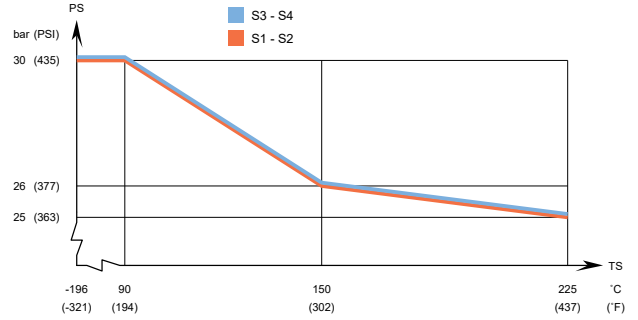
Measurements in mm (inches)



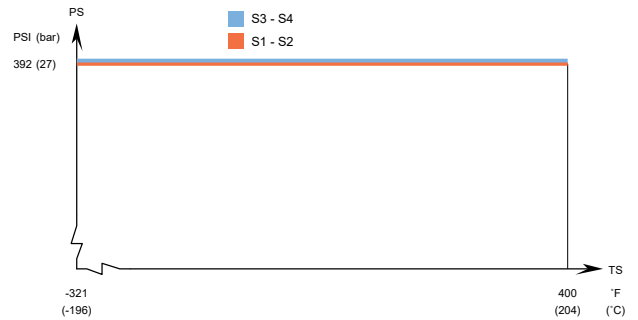
DOC112

Design pressure and temperature

DOC110 – PED approval pressure/temperature graph



DOC110 – 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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Alfa Laval DOC112 / DOC112HF

Brazed plate heat exchanger for oil cooling

Introduction

Alfa Laval DOC - Dedicated oil coolers are brazed plate heat exchangers with robust connection flanges, which are suitable for hydraulic oil cooling applications.

Applications

- Oil cooling

Benefits

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

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 robust connection flanges with internal threads and integrated mounting brackets are specifically designed for oil cooling under tough operating conditions and reduces costs because of easy installation. Additionally, the flanges allow significantly higher torque at installation than conventional connections.



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

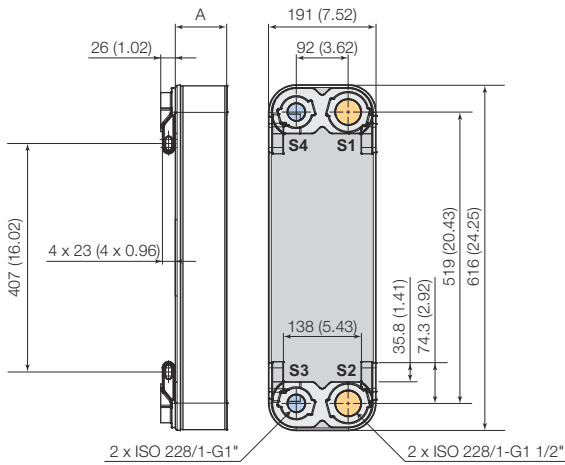
Standard data

Volume per channel, litres (gal)	DOC112: 0.18 (0.0476) DOC112HF (S1-S2): 0.2 (0.0528) DOC112HF (S3-S4): 0.16 (0.0423)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate ¹ m ³ /h (gpm)	DOC112: 20 (88.1) DOC112HF: 37 (162.9)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	150

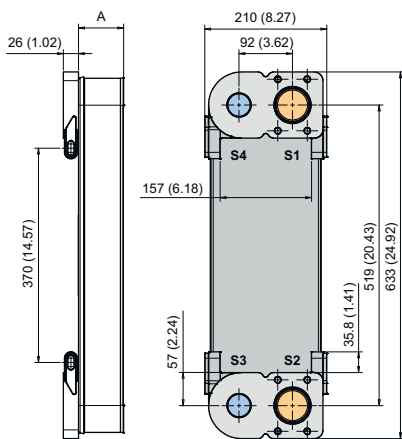
¹ Water at 5 m/s (16.4 ft/s) (connection velocity)

Dimensional drawing

Measurements in mm (inches)



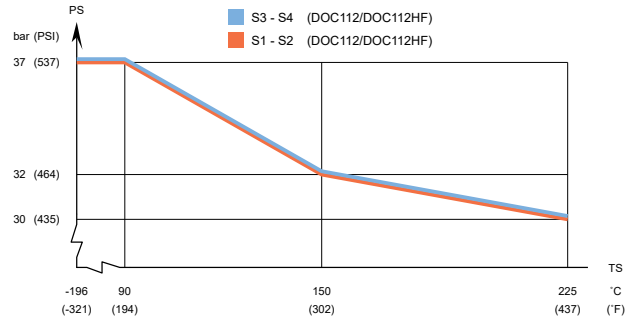
DOC112



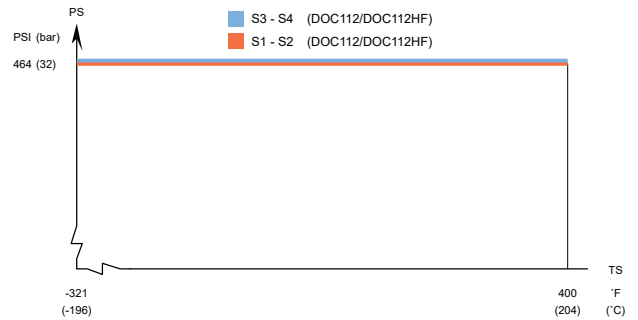
DOC112HF

Design pressure and temperature

DOC112/DOC112HF – PED approval pressure/temperature graph



DOC112/DOC112HF – UL approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval DOC210

Brazed plate heat exchanger for oil cooling

Introduction

Alfa Laval DOC - Dedicated oil coolers are brazed plate heat exchangers with robust connection flanges, which are suitable for hydraulic oil cooling applications.

Applications

- Oil cooling

Benefits

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

Branded Features



FlexFlow™

Superior thermal performance



PressureSecure

Unparalleled strength for demanding duties



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.

The robust connection flanges with internal threads are specifically designed for oil cooling under tough operating conditions and reduces costs because of easy installation. Additionally, the flanges allow significantly higher torque at installation than conventional connections.



Technical Data

Standard materials

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

Dimensions and weight ¹

A measure (mm)	$14 + (2.14 * n)$
A measure (inches)	$0.55 + (0.08 * n)$
Weight (kg) ²	$15.6 + (0.61 * n)$
Weight (lb) ²	$34.39 + (1.34 * n)$

¹ n = number of plates

² Excluding connections

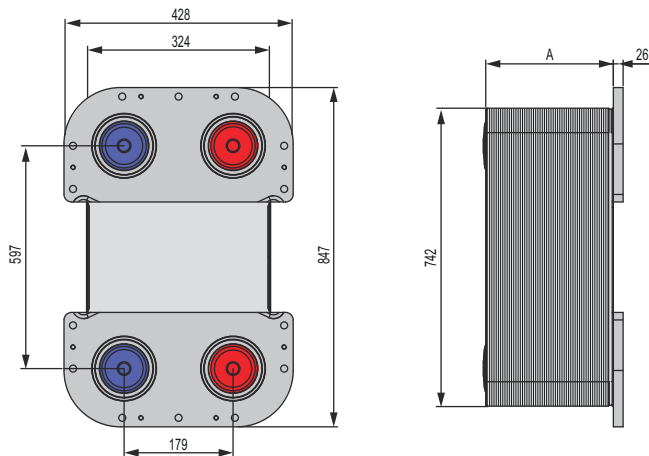
Standard data

	H, L, M: 0.503 (0.1329)
Volume per channel, litres (gal)	AH, AM (S1-S2): 0.636 (0.1680) AH, AM (S3-S4): 0.416 (0.1099)
Max. flowrate ¹ m ³ /h (gpm)	162 (713.3)
Flow direction	Parallel
Min. number of plates	50
Max. number of plates	360

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

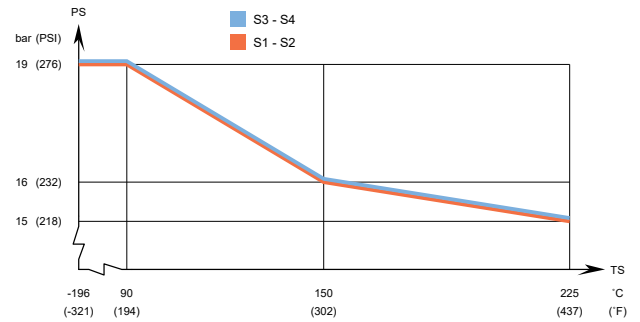
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

DOC210 – PED approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval DOC410

Brazed plate heat exchanger for oil cooling

Introduction

Alfa Laval DOC - Dedicated oil coolers are brazed plate heat exchangers with robust connection flanges, which are suitable for hydraulic oil cooling applications.

Applications

- Oil cooling

Benefits

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

Branded Features



FlexFlow™

Superior thermal performance



PressureSecure

Unparalleled strength for demanding duties



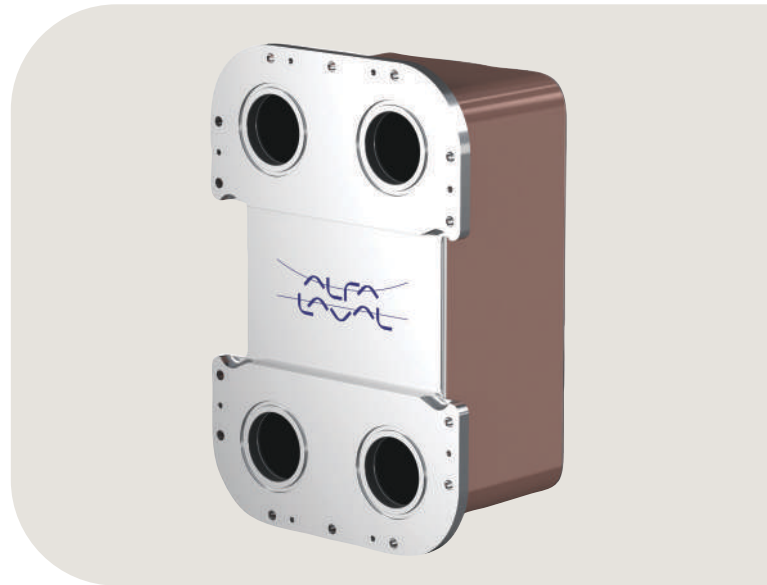
ValuePlus

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.

The robust connection flanges with internal threads are specifically designed for oil cooling under tough operating conditions and reduces costs because of easy installation. Additionally, the flanges allow significantly higher torque at installation than conventional connections.



Technical Data

Standard materials

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

Dimensions and weight ¹

A measure (mm)	$14.2 + (2.17 * n)$
A measure (inches)	$0.56 + (0.09 * n)$
Weight (kg) ²	$19.5 + (1.14 * n)$
Weight (lb) ²	$42.99 + (2.51 * n)$

¹ n = number of plates

² Excluding connections

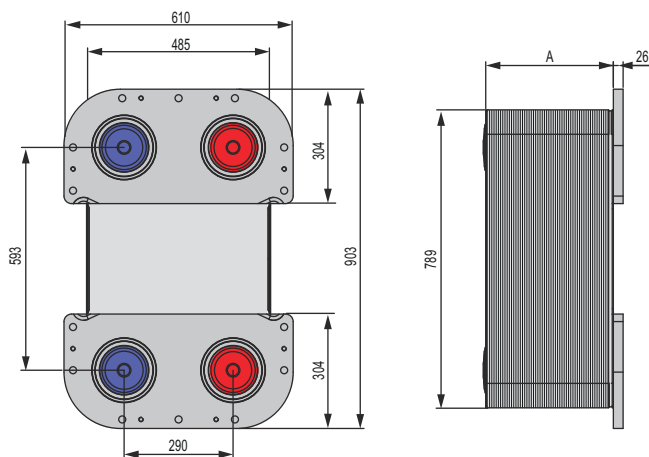
Standard data

Volume per channel, litres (gal)	0.69 (0.1823)
Max. flowrate ¹ m ³ /h (gpm)	265 (1166.8)
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)

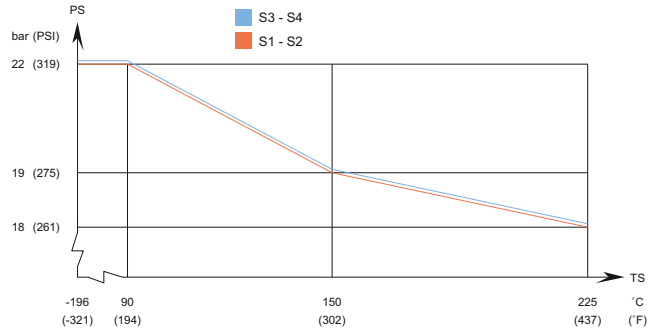
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

DOC410 – PED approval pressure/temperature graph



Designed for full vacuum.

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