

## C-180 MCHE Condenser

High performance
ALUMINIUM CONDENSERS

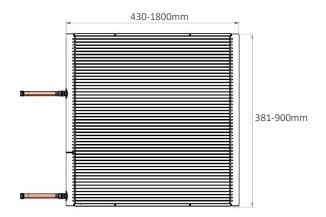
70%
Reduced coil weight

80%
Reduced refrigerant charge

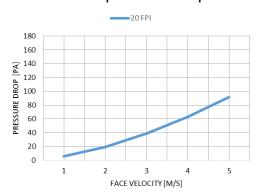
75% Reduced coil depth

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## C-180 MCHE Condenser for PS = 45 bar



## Airside pressure drop



## **Product**

This coil is specially designed for use as condenser in HVAC-applications, such as: chillers, condenser units, remote condensers, residential AC, commercial AC, Air Handling Units, Transportation and special units. The coil can be used for pressures up to PS=45bar and therefore optimized for R410a but can also be used for all other refrigerant with same advantages. The coil can be customized in size and capacity to match the requirement of the specific application, giving compact units with high efficient cooling solution. The unique design of the MPE-tubes and the louvered fins together with the special technology of completely brazed aluminium parts gives advantages such as low weight, reduced refrigerant charge, low depth, reduced pressure drop (noise level) and improved efficiency.

All Aluventa coils are designed according to customer needs in order to achieve the best solution and highest efficiency.

ΓΔΛ	hnica	ıl spec.

Ver.: 002 05-07-2018

Туре	MPE profile:	Fin height:	Fin pitch:	Height Min – Max:	Length Min – Max:	Weight Min – Max:	Volume Min – Max:	Min/Max TS:	Min/Max PS:
C-180	18	10	20	381 – 900	430 – 1800	1,23 – 12,32	0,31 – 1,68	-30/+120	-1,0/45,0
	mm	mm	(FPI)	mm	mm	kg	litres	°C	(bar)

Refrigerants	The coil is approved for group 1 and 2 refrigerants up to PS = 45bar(g), such as R410a, R717, R22, R134a, R290, R407c,
	R744, R404a, R507A. Use with propane and ammonia is recommended only with coated coils.
Materials	The coil is designed with a unique material system of Aluminium alloys in order to achieve a coil with optimized corrosion
	resistance and strength.
Coating	The coil is available with coating for extra corrosion protection. The coating is an <i>Electrofin®</i> e-coating solution that is
	considered the only reliable coating for microchannel technology that will meet market standards and Aluventa quality
	requirements. Information on selection and recommendation can be found in the Aluventa Selection Guideline.
Connections	The coil is available with standard copper tube connection in OD size: 12,7; 16,0 and 22,0mm. The connection can be
	selected in 0°, 45° and 90° angles. The copper tube connection is selected in accordance to EN 12735. The Cu/Al joint is
	protected with rubber sleeves to prevent galvanic corrosion.
Approvals	PED 2014/68/EU for use with group 1 and 2 fluids (the coils are covered by article 4 section 3 in the PED 2014/68/EU).
	UL 207 certified (except from Ammonia (R717))
Leak test	All coils are pressure and leak tested using Helium mass spec. technology. The test is carried out at 50 bar as part of the
	quality control. The coil can be delivered sealed with a pressurised protective gas.
Quality	Aluventa A/S is an ISO 9001 certified company (DS/EN ISO 9001:2015). All coils are produced under the Aluventa
	advanced Quality System to ensure a consistent high quality level. All products and materials are recorded with full
	traceability.
Coil selection	The coil can be selected and designed using the Aluventa Simulation Software AluHex. Please contact Aluventa for
	support on simulation, selection and design.
Documentation	Further information and documentation is available in form of:
	• Aluventa Design Guideline,
	Aluventa Selection Guideline,
	Aluventa Product Specification Type C-180
	Aluventa Installation and Maintenance Manual.
	All documents are available for download at <a href="https://www.aluventa.com">www.aluventa.com</a>
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