Climate Recovery Duct System
Technical Specifications

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Climate Recovery (CR) Duct System

Overview

The CR Duct System offers a complete, pre-insulated system for heating, ventilation and air-conditioning.
CR Ducts and CR Fittings consist mainly of glass, sand, and soda.
CR Ducts and CR Fittings both possess patented aluminum CR Foil on both inner and outer surfaces, which provides a condensation barrier.
The CR Duct System is built to the standard dimensions of the European ventilation market.
CR Ducts are standardly mounted round, but through use of the CR Transformer, can be made rectangular when necessary.

Applications

The CR Duct System can only be used for indoor installations.
CR products are not to be used for kitchen exhaust.
Local rules and regulations are to be recognized when installing any CR products.
When calculating pressure drops, please use tables and diagrams for corresponding sheet metal products. CR products will be slightly lower.

ENJOY WORK	Lightweight	Adaptability	Round/ rectangular	Pre-insulation	Noise reduction
CREATE BUSINESS					
Labor savings	✓	✓	✓	✓	✓
Material savings		✓	✓		✓
Product offering expansion	✓			✓	
Installation quality				✓	
Better brand image					
Planning facilitation			✓		✓
Lifecycle costs			✓		

Climate Recovery (CR) Duct System

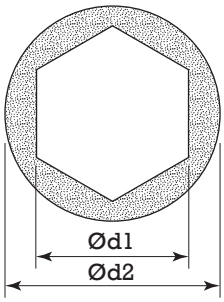
CE-test certifications & working conditions			
Tightness	Class D		EN 1507:2006
Fire Classification	A2-s1,d0 Unburnable		EN 13501-1:2007+A1:2009
Pressure			EN 13403:2003
Max Under	-400 Pa	Shock waves	-1000 Pa
Max Over	+1000 Pa	Shock waves	+2500 Pa
Heat Transfer (λ)	≈ 0.035W/mK		
Temperature			
Minimum	-40° C	Maximum	+60° C

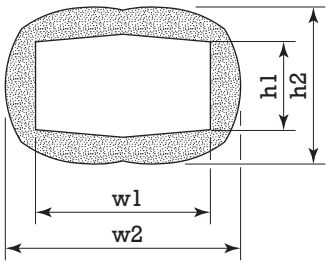
Certifications

The CR Duct System has been certified through SP Certification for CE marking, the Swedish governing body for CE certification and accreditation. The matrix above represents tests and certifications that have been passed and awarded by SP Certification.

Sustainable materials	CO_2 reduction	Self-supporting	No vibrations	No heat transfer	Reopening	Standard dimensions
		✓	✓	✓	✓	✓
			✓	✓	✓	
✓					✓	✓
		✓				✓
✓	✓			✓		
✓			✓	✓	✓	✓
		✓			✓	

CR Duct





CR Ducts are made of compressed glass wool with inner & outer surfaces covered by a layer of CR Foil.

All CR Ducts are shipped 235 cm long.

Average insulation thickness ≈ 30mm.

Water vapor resistance > 140m²h Pa/mg

Round mounting

Ød1* mm	l mm	Ød2 mm	kg/ m
125	2.35	195	0.64
160	2.35	230	0.86
200	2.35	270	1.06
250	2.35	320	1.34
315	2.35	385	1.66

Rectangular mounting

Ød1 mm	w1 mm	h1 mm	w2 mm	h2 mm
125	140	75	200	135
160	188	94	258	166
200	220	115	280	175
250	283	141	358	221
315	340	175	400	225

*True inner diameter ≈ 10-20 mm greater than Ød1

Changes may be made without notice

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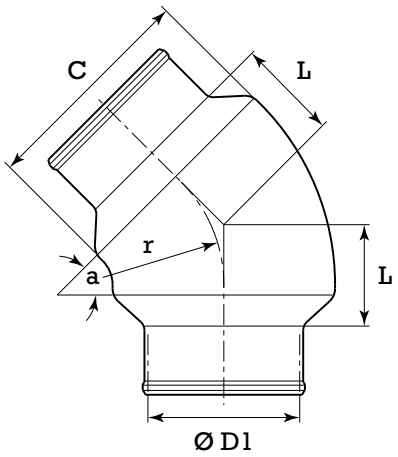
CR Bend

45°



r ≈ ØD1

CR Bends are made of compressed glass wool with inner & outer surfaces covered by a layer of CR Foil.

Average insulation thickness ≈ 30mm.

Standard circular sheet metal nipples fit inside neck of CR Bends.

Water vapor resistance > 140m²h Pa/mg

ØD1 mm	C mm	L mm
125	192	84
160	233	98
200	267	115
250	317	136
315	382	163

Changes may be made without notice

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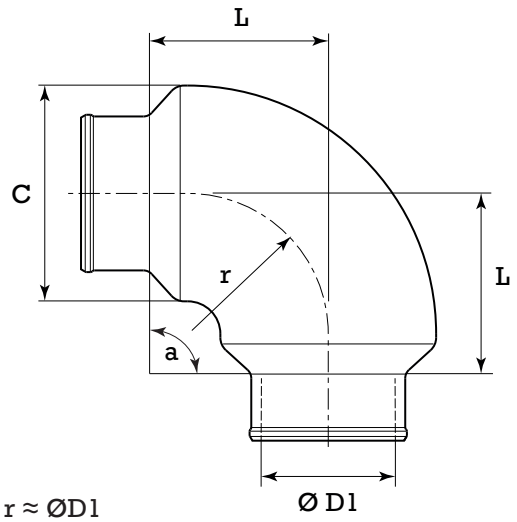
CR Bend

90°



r ≈ ØD1

CR Bends are made of compressed glass wool with inner & outer surfaces covered by a layer of CR Foil.

Average insulation thickness ≈ 30mm.

Standard circular sheet metal nipples fit inside neck of CR Bends.

Water vapor resistance > 140m²h Pa/mg

ØD1 mm	C mm	L mm
125	192	157
160	233	192
200	267	232
250	317	282
315	382	347

Changes may be made without notice

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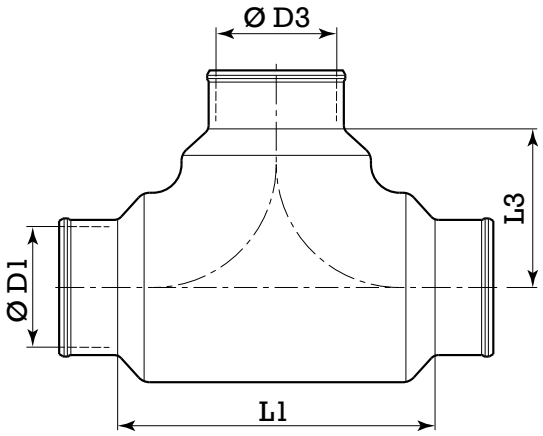
CR T-piece



CR T-pieces are made of compressed glass wool with inner & outer surfaces covered by a layer of CR Foil.

Average insulation thickness ≈ 30mm.

The standard circular nipple fits inside the neck of the CR T-piece.

Water vapor resistance > 140m²h Pa/mg

ØD1	ØD3	L1	L3
mm	m	mm	mm
125	125	314	157
160	160	384	192
200	125	464	184
200	200	464	232
250	250	564	282
315	125	694	242
315	200	694	280
315	315	694	347

Changes may be made without notice

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CR Nipple

CR Nipples connect two CR Ducts together.

Made of galvanized sheet metal.

CR Adapter

CR Adapters connect products with standard circular nipple dimensions to the corresponding CR Duct sizes.

Made of galvanized sheet metal.

CR Sleeve

CR Sleeves cover the ends of CR Ducts when joints are created.

Made of vinyl and a polyether foam gasket with low air permeability.

CR Clamp

CR Clamps tighten CR Ducts around joints created.

Made of stainless steel.

Utilize hex bit, size 6.

Changes may be made without notice

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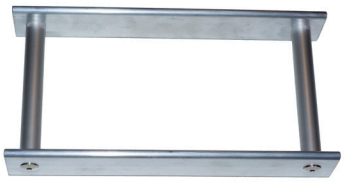
CR Transformer

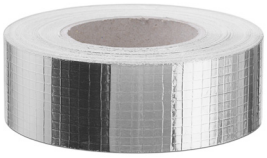


CR Transformers are placed around CR Ducts when installations require rectangular dimensions.

Made of aluminum.

Utilize hex bit, size 6.

CR Tape



CR Tape is non-reversible.

Made of aluminum foil with tightening glue.

Available widths: 50 mm
100 mm

CR AluCover

CR AluCover are placed around completed joints.

Made of aluminum.

150 mm width.

Changes may be made without notice

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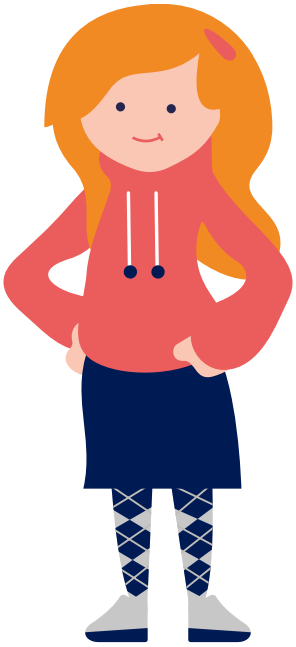

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