



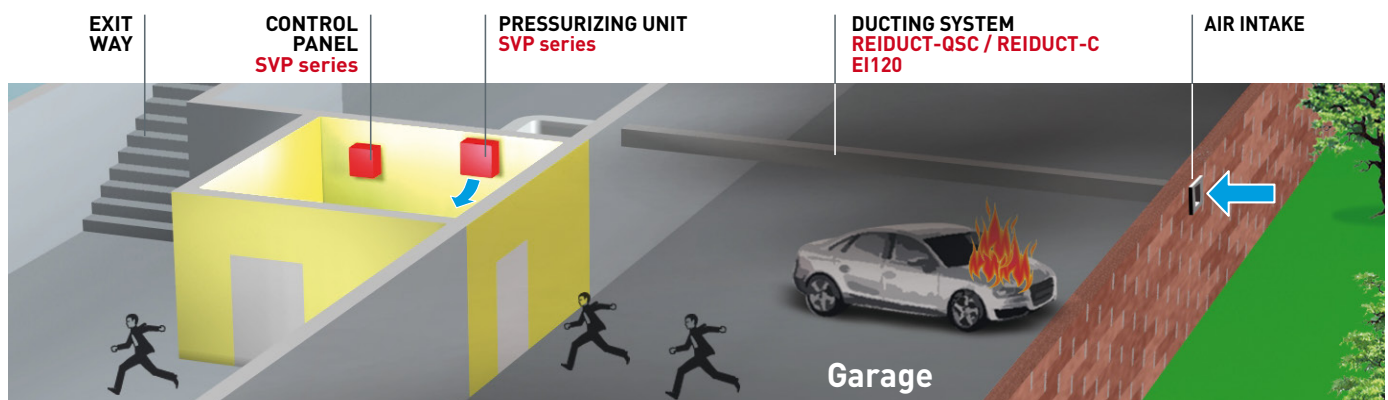
REIDUCT

Aeraulic ducting
system EI120

Applus⁺

Description

REIDUCT is an aeraulic ducting system certified by **APPLUS** for fire resistance 120' according to **EN 1366-1:2014**. The system is available with square section (**REIDUCT-QSC**) or circular section (**REIDUCT-C**). It is complementary to **SVP** pressurizing units for fire-fighting lobbies and it allows to design highly valuable aeraulic systems ensuring the correct fire division areas in perfect compliance with the regulations. The use of **REIDUCT** ducting system allows the completion and the seamless integration of all functional components of the system as shown in the below illustration.



Features and benefits

- Made of metallic material to achieve a perfect connection between the pressurizer (fan) and the air intake elements.
- Ensure a perfect distribution of the air with low pressure losses.
- Quick and easy installation.
- Save time and costs as it does not require the construction of the pipeline in site.
- Save space: **REIDUCT** have a smaller size than round ducts of equal surface.
- Guarantee of the installation safety.



REIDUCT-QSC

Aeraulic ducts
Square section

● Certified by **Applus⁺**

● FIRE RESISTANCE
120 MINUTES
ACCORDING TO
UNI EN 1366-1

● **EI120 (ve/ho o->i) S**

Description

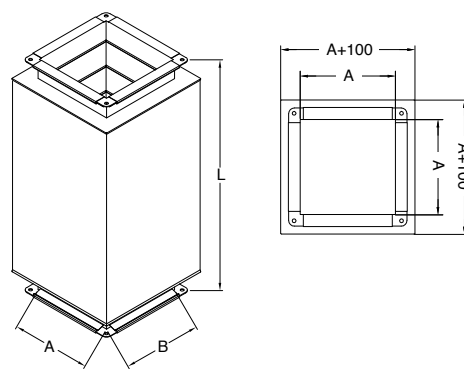
- Square section air ducts in double-walled metal with finish in embossed aluminum.
- Certified for a fire resistance according to UNI EN 1366-1: 2014.
- Classification EI120 (ve ho o -> i) S according to UNI EN 13501-3 + A1 2009.
- They include ducts, curves and adaptors.
- Horizontal and vertical installation.
- Smoke tightness with a loss of less than 10 m³/h per m².
- Air tightness class C (2,000 Pa) according to **UNI EN 1507:2008**.

Standard available sizes

Base: 200 ÷ 1.250 mm
Height: 200 ÷ 1.000 mm
Pitch: 50 mm
Length: 1.340 mm
Duct thickness: 50 mm

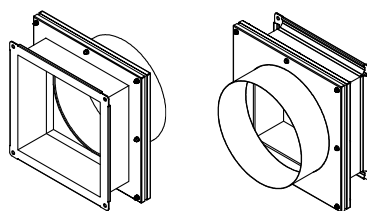
LINEAR DUCT

Code	Description	A	B	L
5TU1400	REIDUCT QSC	200	200	1340
5TU1401		200	200	2000
5TU1402		300	300	1340
5TU1403		300	300	2000



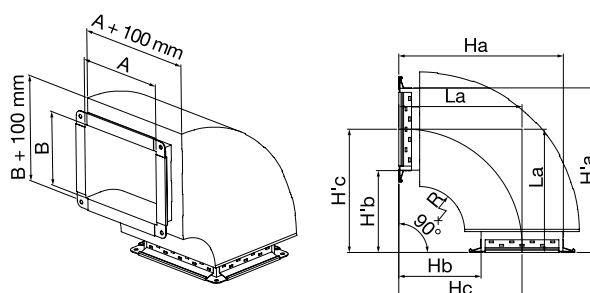
CENTRAL ADAPTOR

Code	Description
5TU1410	Square / Round adaptor 300 x 300
5TU1411	Square / Round adaptor 200 x 200



CURVES 90°

Code	Description	A	B	
5TU1408	CURVE 90°	200	200	
5TU1409	CURVE 90°	300	300	





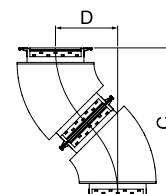
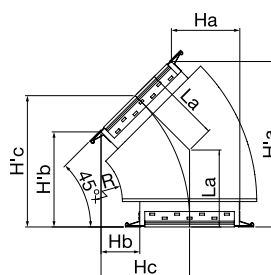
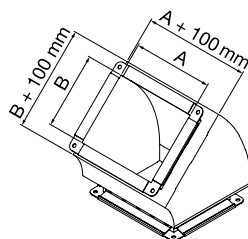
Square section

CURVES 45°

Code	Description
5TU1406	CURVE 45° / 200 x 200
5TU1407	CURVE 45° / 300 x 300

B

$B (90^\circ) * 0.50$

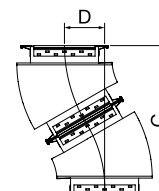
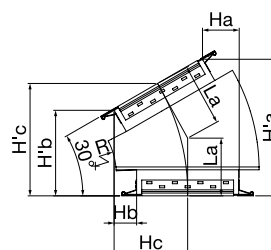
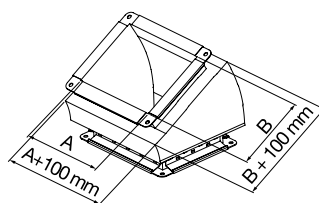


CURVES 30°

Code	Description
5TU1404	CURVE 30° / 200 x 200
5TU1405	CURVE 30° / 300 x 300

B

$B (90^\circ) * 0,33$



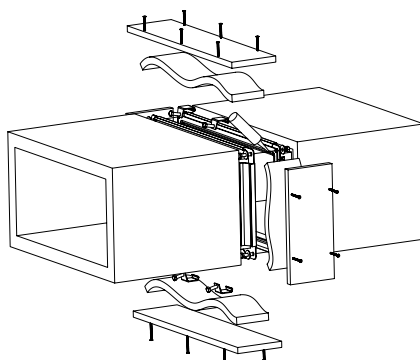
FIXING KIT

Code	Description
5TU1414	FIXING KIT - REIDUCT QSC / Horizontal
5TU1415	FIXING KIT - REIDUCT QSC / Vertical



Square section

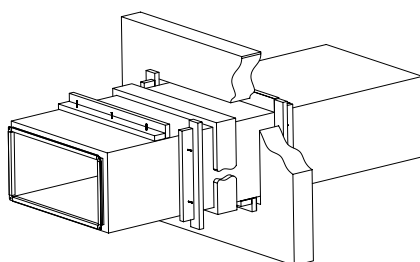
CONNECTION BETWEEN THE ELEMENTS



The single components are connected between them with screws, washers and M8 nuts inserted in the appropriate holes present in the joining profile.

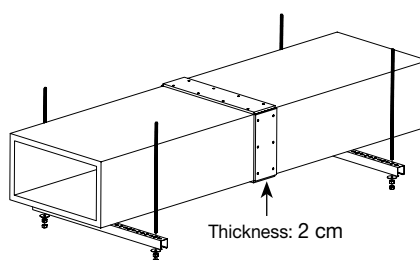
Gasket and sealant are interposed and between flanges tightened by clamps. The junction is thermally isolated by means of joint plates fastened by screws and glue resistant to high temperatures.

WALL/FLOOR CROSSING SYSTEM



Recovery in case of crossing of walls and floor takes place by padding with biosoluble ceramic paper and sealing of the wall through angular 'L' in calcium silicate.

BRACKET SYSTEM



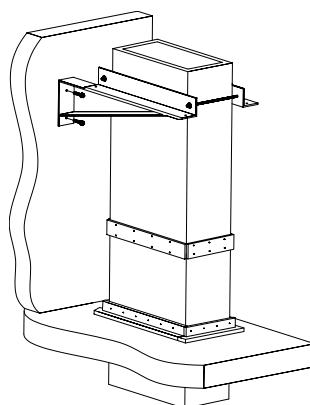
Thickness: 2 cm

• Horizontal bracket

Brackets with pre-drilled C-profile 40x40 mm rails suspended from uniform threaded bars M12. Maximum distance between horizontal suspensions is 1 m.

• Vertical bracket

Suspension brackets placed at each attic and wall crossing, with maximum distance between vertical suspensions equal to 3 m.



ACCESSORIES

- Standard horizontal / vertical clamping system
- Horizontal / vertical seismic clamping system
- Wall / floor crossing reset item

- The **REIDUCT-QSC** clamping system represents the minimum level of security necessary for the validity of the product certification. It can be replaced by anchors that constitute an equivalent or improved solution.
- The brackets are suitable and compliant to guarantee functionality and static resistance against the loads induced in case of fire, no reference is included to the reduction of seismic vulnerability of the plant.



REIDUCT-C

Aeraulic ducts
Circular Selection

- Certified by **Applus[®]**
- FIRE RESISTANCE
120 MINUTES
ACCORDING TO
UNI EN 1366-1
- **EI120 (ve/ho o->i) S**

Description

- Circular section air ducts in double-walled metal with finish in embossed aluminum.
- Certified for a fire resistance according to UNI EN 1366-1: 2014.
- Classification EI120 (ve ho o -> i) S according to UNI EN 13501-3 + A1 2009.
- They include ducts, curves and adaptors.
- Horizontal and vertical installation.
- Internal wall with conical joint made of stainless steel AISI 316L.
- Smoke tightness with a loss of less than 10 m³/h per m².
- Air tightness class C (2,000 Pa) according to UNI EN 1507: 2008.

Standard available sizes

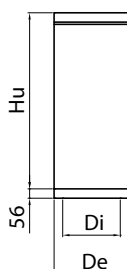
- Internal diameter: 200, 250 and 300 mm
- Useful length: 194, 444 and 944 mm.
- Standard length: 1.340 mm.

MATERIALS AND SIZES

INNER WALL	Ø mm	200	250	300
	Thickness mm	0.4	0.4	0.5
	Material	Stainless steel AISI 316L BA. The longitudinal welding is constructed using LASER and TIG process in protective atmosphere		
EXTERNAL WALL	Ø mm	300	350	400
	Thickness mm	0.4	0.5	0.5
	Material	Stainless steel AISI 304 2B. The longitudinal welding is constructed using LASER and TIG process in protective atmosphere		
INSULATION		Mineral wool with a minimum density of 90 kg/m		
WEIGHT	kg/m	8.8	11.5	14.2



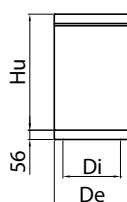
LINEAR ELEMENT h 944mm



Code		5TU1350	5TU1351	5TU1352
Di	mm	200	250	300
De	mm	300	350	400
HU	mm	944	944	944
Weight	kg	9.1	10.8	14.4



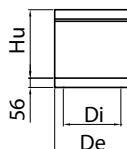
LINEAR ELEMENT h 444mm



Code		5TU1353	5TU1354	5TU1355
Di	mm	200	250	300
De	mm	300	350	400
HU	mm	444	444	444
Weight	kg	4.4	5.3	7.0



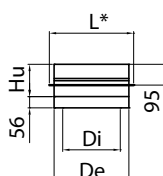
LINEAR ELEMENT h 194mm



Code		5TU1356	5TU1357	5TU1358
Di	mm	200	250	300
De	mm	300	350	400
HU	mm	194	194	194
Weight	kg	2.1	2.5	3.4



INTERSECTION PLATE



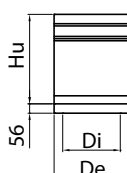
Code		5TU1392	5TU1393	5TU1394
Di	mm	200	250	300
De	mm	300	350	400
HU	mm	139	139	139
Weight	kg	2.8	3.4	4.3

* L = De + 100 mm

The element is used to support the vertical elements and to distribute the load.



VARIABLE ELEMENT 350/550

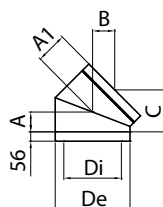


Code		5TU1359	5TU1360	5TU1361
Di	mm	200	250	300
De	mm	300	350	400
HU min	mm	402	402	402
HU max	mm	525	525	525
Weight	kg	6.1	7.3	9.7

The element is not bear loading. It enables to compensate non standard measures and to absorb the thermal expansions.

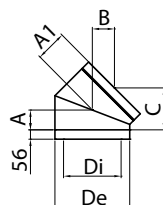


CURVES 45°



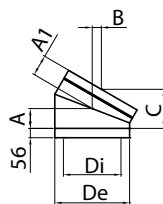
Code		5TU1371	5TU1372	5TU1373
Di	mm	200	250	300
De	mm	300	350	400
A	mm	89	100	110
A1	mm	145	156	166
B	mm	103	110	117
C	mm	192	210	228
Weight	kg	2.5	3.3	4.6

CURVES 42°



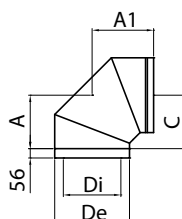
Code		5TU1365	5TU1366	5TU1367
Di	mm	200	250	300
De	mm	300	350	400
A	mm	84	94	104
A1	mm	140	150	160
B	mm	94	100	107
C	mm	189	205	222
Weight	kg	2.4	3.1	4.5

CURVES 30°



Code		5TU1368	5TU1369	5TU1370
Di	mm	200	250	300
De	mm	300	350	400
A	mm	67	73	80
A1	mm	123	129	136
B	mm	61	65	68
C	mm	173	186	198
Weight	kg	2.1	2.7	3.8

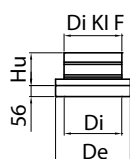
CURVES 90°



Code		5TU1374	5TU1375	5TU1376
Di	mm	200	250	300
De	mm	300	350	400
A	mm	207	232	257
A1	mm	263	288	313
Weight	kg	4,0	5,3	7,7

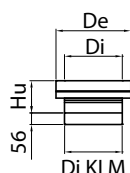


MALE/FEMALE CONNECTOR



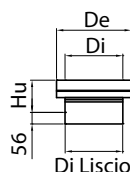
Code		5TU1377	5TU1378	5TU1379
Di	mm	200	250	300
De	mm	300	350	400
HU	mm	139	139	139
Weight	kg	1.3	1.5	2.0

FEMALE/MALE CONNECTOR



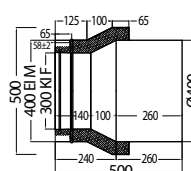
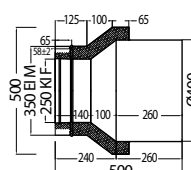
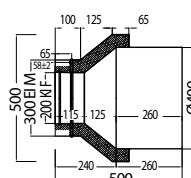
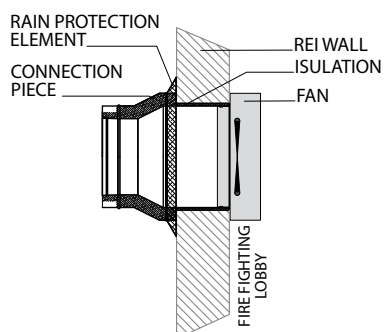
Code		5TU1380	5TU1381	5TU1382
Di	mm	200	250	300
De	mm	300	350	400
HU	mm	139	139	139
Weight	kg	1.3	1.5	2.0

PLUG-IN CONNECTION PIECE TO FAN



Code		5TU1383	5TU1384	5TU1385
Di	mm	200	250	300
De	mm	300	350	400
HU	mm	200	200	200
ØIMBOCCO	mm	317	317	317
HIMBOCCO	mm	250	250	250
Weight	kg	2.2	2.7	3.7

INNESTO SVP4



Code		5TU1398	5TU1397	5TU1396
Ø	mm	200	250	300

Connection to fan SVP4, female internal



CLAMP FOR THE LOCKING OF THE ELEMENTS

Code		5TU1362	5TU1363	5TU1364
Ø	mm	200	250	300



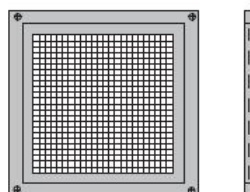
WALL CLAMP WITH EXTENSION AND SCREWS

Code		5TU1386	5TU1387	5TU1388
Ø	mm	200	250	300



COLLAR

Code		5TU1389	5TU1390	5TU1391
Ø	mm	200	250	300



SAFETY GRID FOR PLANT TERMINAL

Code		5RE7035
Ø	mm	425