

Insulated duct system IsoPipe



The innovative alternative to spiral duct installation with subsequent thermal insulation.

- The insulated round duct system IsoPipe
- prevents condensation,
- has a smooth, sound-absorbing inner surface and is easy to clean,
- saves an enormous amount of installation time,
- is the ideal solution for intake air and exhaust air ducting.

Installation

- All IsoPipe moulded parts, bends, wall outlets and roof outlets are precisely matched to each other and simply plugged into each other.
- IsoPipe is quick to install: Compared to the use of insulated spiral duct, the result is work time savings of up to 70 %.

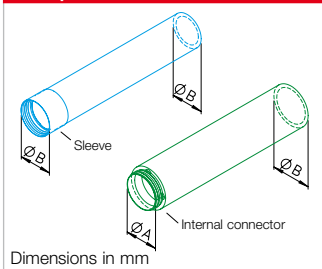
Properties

All pipe parts are fully insulated and consist of vapour-tight, anti-static EPE. Flame retardant according to fire class B1. Air flow temperature from -25 to +80 °C. $\lambda = 0.04 \text{ W/mK}$, $d = 16 \text{ mm}$.

Duct concept and installation

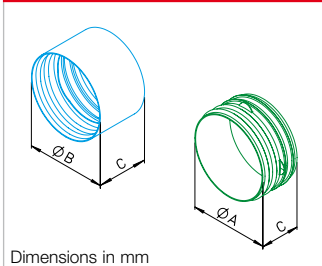
- IsoPipe is especially suitable for intake air and exhaust air ducting or supply air and extract air ducting in the basement or low-temperature zone of a KWL system.
- Can be used for volume flows up to 500 m³/h.
- IsoPipe is shock-proof, particularly lightweight and it can easily be shortened to the desired length with a knife.

IsoPipe duct



IsoPipe Ø 125 mm				IsoPipe Ø 160 mm				IsoPipe Ø 180 mm				IsoPipe Ø 200 mm			
Type	Ref. no.	Ø A	Ø B	Type	Ref. no.	Ø A	Ø B	Type	Ref. no.	Ø A	Ø B	Type	Ref. no.	Ø A	Ø B
Duct with sleeve															
IP 125/2000 ¹⁾	09406	—	157	—	—	—	—	—	—	—	—	—	—	—	—
Duct with internal connector															
—	—	—	—	IP 160/2000 ²⁾	09447	160	192	IP 180/2000 ³⁾	09448	180	212	IP 200/2000 ⁴⁾	03810	200	232
Unit = 8 x 2 m				Unit = 6 x 2 m				Unit = 4 x 2 m				Unit = 3 x 2 m			

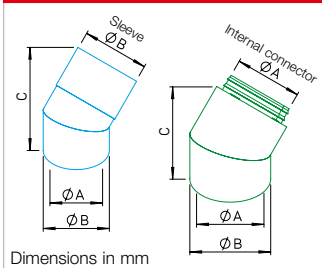
Sleeve / Internal connector



IsoPipe Ø 125 mm				IsoPipe Ø 160 mm				IsoPipe Ø 180 mm				IsoPipe Ø 200 mm							
Type	Ref. no.	Ø A	Ø B	C	Type	Ref. no.	Ø A	Ø B	C	Type	Ref. no.	Ø A	Ø B	C	Type	Ref. no.	Ø A	Ø B	C
Connecting sleeve																			
IP-MU 125	09394	—	157	104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Internal connector																			
—	—	—	—	—	IP-IV 160	09453	160	—	80	IP-IV 180	09454	180	—	80	IP-IV 200	03811	200	—	80

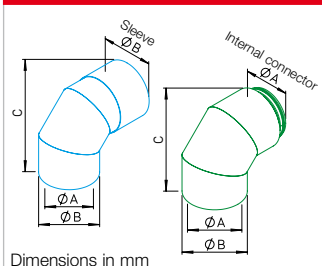
Made of plastic.

Bend 45°



IsoPipe Ø 125 mm				IsoPipe Ø 160 mm				IsoPipe Ø 180 mm				IsoPipe Ø 200 mm							
Type	Ref. no.	Ø A	Ø B	C	Type	Ref. no.	Ø A	Ø B	C	Type	Ref. no.	Ø A	Ø B	C	Type	Ref. no.	Ø A	Ø B	C
Bend 45° with sleeve																			
IP-B 125/45	09399	125	157	255	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bend 45° with int. connector																			
—	—	—	—	—	IP-B 160/45	09449	160	192	242	IP-B 180/45	09450	180	212	256	IP-B 200/45	03809	200	232	270

Bend 90°



IsoPipe Ø 125 mm				IsoPipe Ø 160 mm				IsoPipe Ø 180 mm				IsoPipe Ø 200 mm							
Type	Ref. no.	Ø A	Ø B	C	Type	Ref. no.	Ø A	Ø B	C	Type	Ref. no.	Ø A	Ø B	C	Type	Ref. no.	Ø A	Ø B	C
Bend 90° with sleeve																			
IP-B 125/90	09398	125	157	239	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bend 90° with int. connector																			
—	—	—	—	—	IP-B 160/90	09451	160	192	272	IP-B 180/90	09452	180	212	292	IP-B 200/90	03808	200	232	312

Tape / Pipe clamp

Dimensions in mm

IsoPipe Ø 125 mm			IsoPipe Ø 160 mm			IsoPipe Ø 180 mm			IsoPipe Ø 200 mm		
Type	Ref. no.	Ø B	Type	Ref. no.	Ø B	Type	Ref. no.	Ø B	Type	Ref. no.	Ø B
Tape, insulated, 50x3 mm, 15 lin. m											
IP-KLB	09643		IP-KLB	09643		IP-KLB	09643		IP-KLB	09643	
Pipe clamp											
IP-S 125	09395	157	IP-S 160	09392	192	IP-S 180	09421	212	IP-S 200	03812	232

Fittings for unit connection

RVBD 180/160
RVBD 125 K, RVBD 160 K, RVBD 200 K

Dimensions in mm

IsoPipe Ø 125 mm			IsoPipe Ø 160 mm			IsoPipe Ø 180 mm			IsoPipe Ø 200 mm		
Type	Ref. no.	Ø A B	Type	Ref. no.	Ø A B	Type	Ref. no.	Ø A B	Type	Ref. no.	Ø A B
Connector with seal for connection to KWL units – with sleeve DN 125											
RVBD 125 K ¹	03414	125 70	—	—	—	—	—	—	—	—	—
Connector with seal for connection to KWL units – with sleeve DN 160											
—	—	—	RVBD 160 K ²	03415	160 70	RVBD 180/160 ²	09589	180 160	—	—	—
Connector with seal for											
—	—	—	—	—	—	—	—	—	RVBD 200 K	03813	200 70

All fittings made of galvanised steel sheet.
¹ Compatible with KWL EC 170 W, KWL EC 200 W, KWL EC 300 W and KWL EC 220 D.
² Compatible with KWL EC 500 W and KWL EC 340 D.

Fittings for distribution box

Dimensions in mm

IsoPipe Ø 125 mm			IsoPipe Ø 160 mm			IsoPipe Ø 180 mm			IsoPipe Ø 200 mm		
Type	Ref. no.	Ø A Ø B	Type	Ref. no.	Ø A Ø B	Type	Ref. no.	Ø A Ø B	Type	Ref. no.	Ø A Ø B
Fitting for connection to distribution boxes – with connector DN 125											
Direct duct connection			IP-ARZ 125/160	09458	160 125	—	—	—	—	—	—
Fitting for connection to distribution boxes – with connector DN 160											
IP-ARZ 160/125	09358	125 160	Direct duct connection			IP-ARZ 160/180	09459	180 160	IP-ARZ 160/200	03816	200 160
Fitting for connection to distribution boxes – with connector DN 180											
IP-ARZ 180/125	09360	125 180	IP-ARZ 180/160	09455	160 180	Direct duct connection			IP-ARZ 180/200	03814	200 180

All fittings made of galvanised steel sheet.

Fittings for KWL HygroBox and ground heat exchange

Dimensions in mm

IsoPipe Ø 125 mm			IsoPipe Ø 160 mm			IsoPipe Ø 180 mm			IsoPipe Ø 200 mm		
Type	Ref. no.	Ø A Ø B	Type	Ref. no.	Ø A Ø B	Type	Ref. no.	Ø A Ø B	Type	Ref. no.	Ø A Ø B
Fitting for connection to KWL HygroBox – KWL HB 250, connec. DN 160											
IP-ARZ 160/125	09358	125 160	Direct duct connection			—	—	—	IP-ARZ160/200	03816	200 160
Fitting for connection to KWL HygroBox – KWL HB 500, connec. DN 250											
—	—	—	IP-ARZ 250/160	09590	160 250	IP-ARZ 250/180	09591	180 250	IP-ARZ 250/200	03815	200 250
Fitting for connection to ground heat exchanger – LEWT, connector DN 200											
IP-ARZ 200/125	09359	125 200	IP-ARZ 200/160	09456	160 200	IP-ARZ 200/180	09457	180 200	Direct duct connection		
Fitting for connection to ground heat exchanger – SEWT, connector DN 180											
IP-ARZ 180/125	09360	125 180	IP-ARZ 180/160	09455	160 180	Direct duct connection			IP-ARZ 180/200	03814	200 180

All fittings made of galvanised steel sheet.

Roof outlets

Dimensions in mm

IsoPipe Ø 125 mm			IsoPipe Ø 160 mm			IsoPipe Ø 180 mm		
Type	Ref. no.	Ø B Ø C	Type	Ref. no.	Ø B Ø C	Type	Ref. no.	Ø A Ø C
Roof outlet, consisting of hood and pan tile* – Roof hood black								
IP-DHS 125	03541	157 160	IP-DHS 160	03542	192 250	IP-DHS 180	03542	180 210
Roof outlet, consisting of hood and pan tile* – Roof hood including duct red								
—	—	—	IP-DHR 160	03543	192 250	IP-DHR 180	03543	180 210
Roof outlet, consisting of hood and pan tile* – Roof pan tile for pitched roofs, with lead edge								
IP-UDPS 125	03546	α 25°–45°	IP-BP 160/25	09384	α 20°–30°	IP-BP 180/25	09384	α 20°–30°
—	—	—	IP-BP 160/35	09385	α 30°–40°	IP-BP 180/35	09385	α 30°–40°
—	—	—	IP-BP 160/45	09386	α 40°–50°	IP-BP 180/45	09386	α 40°–50°
Roof outlet, consisting of hood and pan tile* – Roof pan tile for flat roof								
IP-FDP 125	03544	— 158	IP-FDP 160	03545	— 203	IP-FDP 180	03545	— 203

* Please order roof hoods and pan tiles separately.

Silencer

IsoPipe Ø 125 mm		IsoPipe Ø 160 mm		IsoPipe Ø 180 mm				
Type	Ref. no.	Type	Ref. no.	Type	Ref. no.			
Flexible duct silencer, made of aluminium duct, Length approx. 1 m, elastic								
SDE 125	00789	SDE 160	00790	SDE 180	00499			
Type	Insulation mm	Insertion loss dB at Hz						
		125	250	500	1000	2000	4000	8000
SDE 125	50	32	42	45	46	50	42	41
SDE 160	50	23	40	43	46	46	31	29
SDE 180	50	20	39	43	47	46	28	29