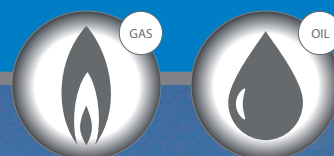


INSULATED SYSTEM FOR POWER GENERATORS

THERM + GEP



THERM + GEP

Twin wall insulated chimney system for power generators



071-CPR-19655

THERM + GEP 50

T600 H1 D V2 L50050 O50 (Ø150-200)

T600 H1 D V2 L50060 O50 (Ø250-300)

T600 H1 D V2 L50080 O50 (Ø350-600)

THERM + GEP 100

T600 H1 D V2 L50050 O50 (Ø150-200)

T600 H1 D V2 L50060 O50 (Ø250-300)

T600 H1 D V2 L50080 O50 (Ø350-400)

POWER GENERATORS

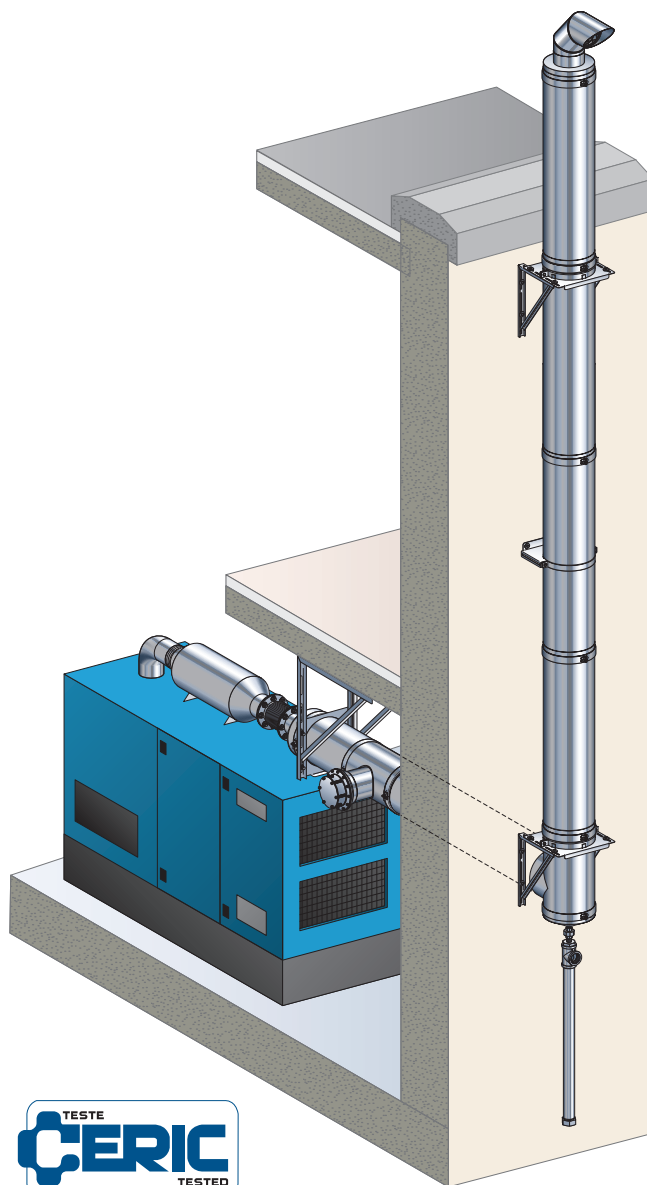
Generators are used to generate electricity via an alternator which is driven by the engine (usually a combustion engine). The generator set exhaust system must collect gases from the engine cylinders and discharge them as quickly and silently as possible.

These flue gases are travelling at high speed (typically around 30m/sec) at temperatures ranging from 400°C to 600°C and at pressures up to 5000 Pascals. The exhaust system should be designed where possible to minimize back pressure at the generator outlet which can cause horsepower losses and temperature increases that can shorten the engine's life.

The combination of these flue gas characteristics often result in the emission of excessive noise and increased vibration and the chimney system must be protected from this.

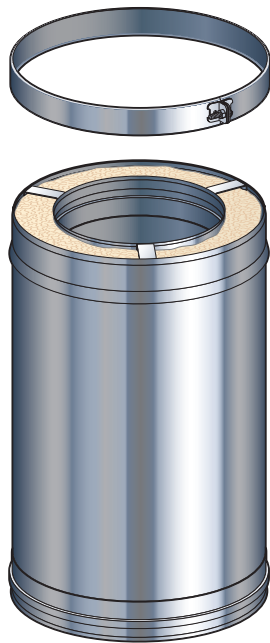
The Therm + GEP chimney system from Poujoulat is ideal for generator set exhaust applications.

Several factors impact the exhaust system performance. Building constraints, noise control, condensation, vibration, heat dissipation and building codes must be considered.



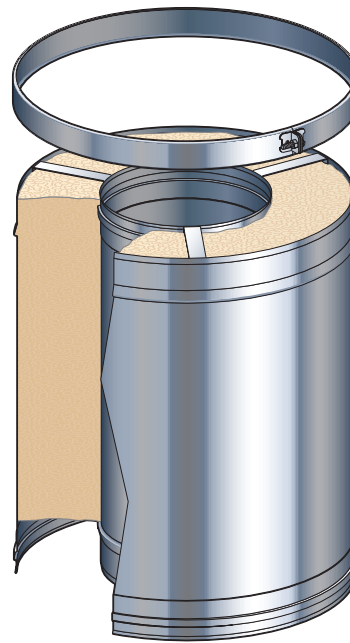
TECHNICAL DATA

THERM + GEP 50

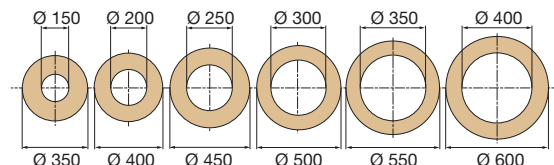
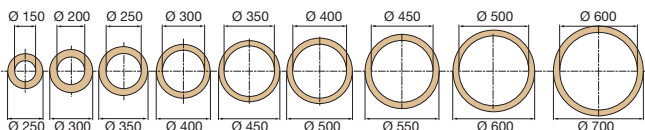


Inner: 316L / Outer: 304
Insulation: Mineral wool 50mm

THERM + GEP 100



Inner: 316L / Outer: 304
Insulation: Mineral wool 100mm



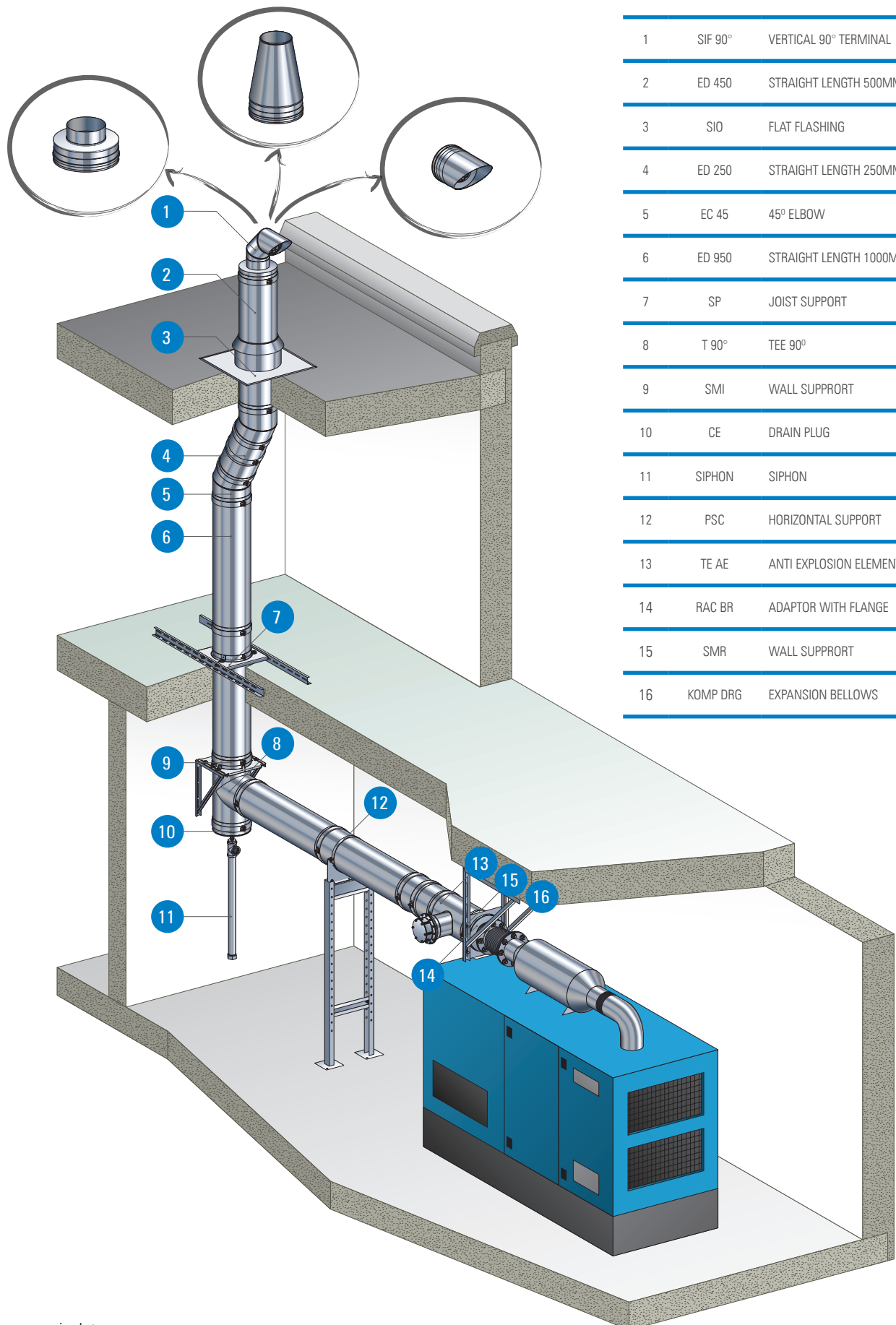
GENERAL PRINCIPLE

- » THERM + GEP is available in two thicknesses of insulation: 50mm and 100mm.
- » This chimney system do not provide any heat bridges and allows free dilatation of the internal flue. The system can be repeatedly assembled and disassembled giving you a significant competitive advantage in the course of installation. A wide range of accessories is offered such as wall brackets vibration, explosion-proof tees (protection against implosion and explosion), expansion joints and other.

PRINCIPLE BENEFITS

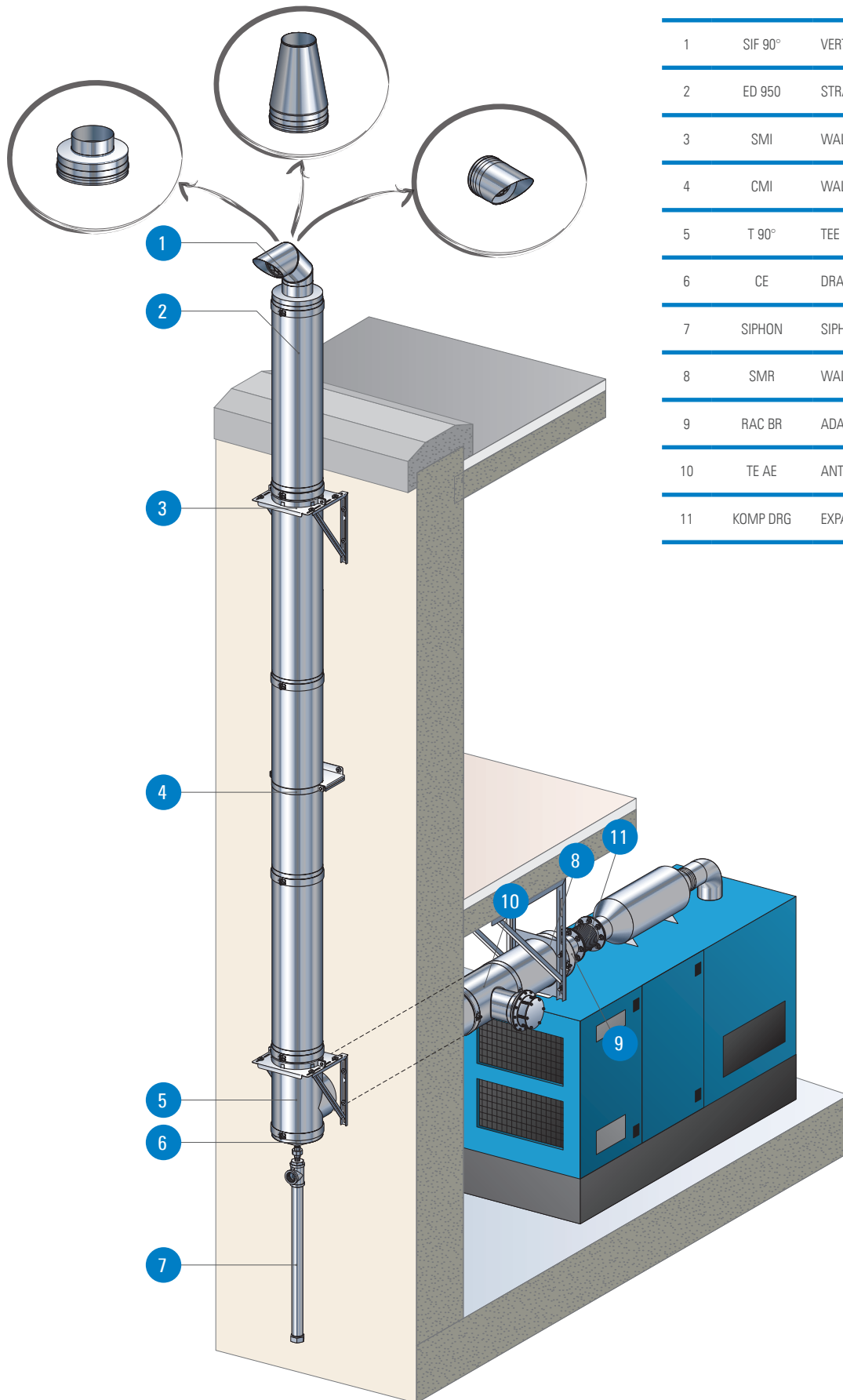
- » **OPTIMISATION:** High thermal performance of the chimney system ensures maximum operational efficiency and reduces the space required for the installation. It also provides a controlled outer casing surface temperature and minimizes risk to personnel.
- » **COMPLIANCE WITH STANDARDS:** CE marked to EN 1856-1.
- » **INSTALLATION:** Easy to install, push fit joints with secure locking bands, wall brackets at 3.0m intervals, with up to 10.0m on a base support and up to 3.0m freestanding.
- » **SAFETY:** Tested by CERIC laboratory.
- » **INNOVATION:** The system is designed to work as a pressure safe system up to 5000 Pa (H1). No needs of expansion joints during installation.

INTERNAL APPLICATION



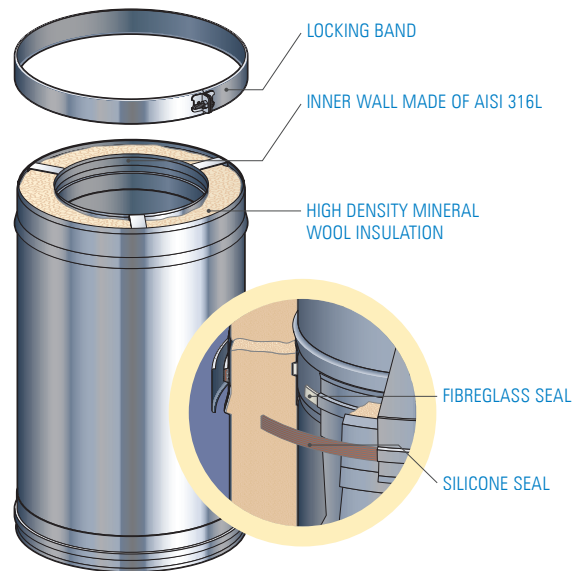
1	SIF 90°	VERTICAL 90° TERMINAL
2	ED 450	STRAIGHT LENGTH 500MM
3	SIO	FLAT FLASHING
4	ED 250	STRAIGHT LENGTH 250MM
5	EC 45	45° ELBOW
6	ED 950	STRAIGHT LENGTH 1000MM
7	SP	JOIST SUPPORT
8	T 90°	TEE 90°
9	SMI	WALL SUPPORT
10	CE	DRAIN PLUG
11	SIPHON	SIPHON
12	PSC	HORIZONTAL SUPPORT
13	TE AE	ANTI EXPLOSION ELEMENT
14	RAC BR	ADAPTOR WITH FLANGE
15	SMR	WALL SUPPORT
16	KOMP DRG	EXPANSION BELLOWS

EXTERNAL APPLICATION



1	SIF 90°	VERTICAL 90° TERMINAL
2	ED 950	STRAIGHT LENGTH 1000MM
3	SMI	WALL SUPPORT
4	CMI	WALL BRACKET
5	T 90°	TEE 90°
6	CE	DRAIN PLUG
7	SIPHON	SIPHON
8	SMR	WALL SUPPORT
9	RAC BR	ADAPTOR WITH FLANGE
10	TE AE	ANTI EXPLOSION ELEMENT
11	KOMP DRG	EXPANSION BELLOWS

COMPONENTS STRUCTURE



STRAIGHT LENGTH REF.: ED 250

TECHNICAL INFORMATION

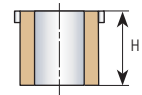
Inner Ø		150	200	250	300	350	400	450	500	600
Outer Ø Therm+ GEP 50		250	300	350	400	450	500	550	600	700
Outer Ø Therm+ GEP 100		350	400	450	500	550	600	650	700	800
Inner wall	THERM+ GEP 50/GEP 100	AISI 316L								
		5/10		6/10		8/10				
Outer wall	THERM+ GEP 50/GEP 100	AISI 304								
		5/10	5/10	5/10	5/10	5/10	6/10	6/10	6/10	6/10
Insulation	THERM+ GEP 50	50 mm high density mineral wool insulation 100 kg/m³								
	THERM+ GEP 100	100 mm high density mineral wool insulation 100 kg/m³								
Thermal resistance (m² K/W)	THERM+ GEP 50	0,76								
	THERM+ GEP 100	1,55								

LISTS OF COMPONENTS

STRAIGHT LENGTHS

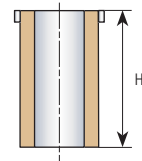
STRAIGHT LENGTH 25 CM

Ø	150	200	250	300	350	400	450	500	600
REF.	ED 250 150 GEP 50	ED 250 200 GEP 50	ED 250 250 GEP 50	ED 250 300 GEP 50	ED 250 350 GEP 50	ED 250 400 GEP 50	ED 250 450 GEP 50	ED 250 500 GEP 50	ED 250 600 GEP 50
Part no.	29 060 303	29 060 303	29 060 303	29 060 303	29 060 303	29 060 303	29 060 303	29 060 303	29 060 303
H	246								
Weight in kg	2	2	3	3	4	5	6	7	7



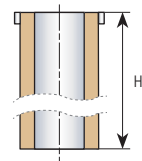
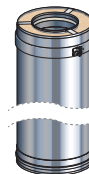
STRAIGHT LENGTH 50 CM

Ø	150	200	250	300	350	400	450	500	600
REF.	ED 450 150 GEP 50	ED 450 200 GEP 50	ED 450 250 GEP 50	ED 450 300 GEP 50	ED 450 350 GEP 50	ED 450 400 GEP 50	ED 450 450 GEP 50	ED 450 500 GEP 50	ED 450 600 GEP 50
Part no.	29 150 304	29 200 304	29 250 304	29 300 304	29 350 304	29 400 304	29 450 304	29 500 304	29 600 304
H	446								
Weight in kg	3	3	4	5	7	8	9	10	12



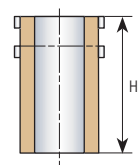
STRAIGHT LENGTH 100 CM

Ø	150	200	250	300	350	400	450	500	600
REF.	ED 950 150 GEP 50	ED 950 200 GEP 50	ED 950 250 GEP 50	ED 950 300 GEP 50	ED 950 350 GEP 50	ED 950 400 GEP 50	ED 950 450 GEP 50	ED 950 500 GEP 50	ED 950 600 GEP 50
Part no.	29 150 305	29 200 305	29 250 305	29 300 305	29 350 305	29 400 305	29 450 305	29 500 305	29 600 305
H	946								
Weight in kg	5	6	8	10	13	16	17	19	23



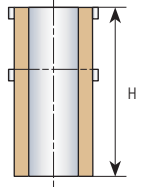
ADJUSTABLE LENGTH 25-37CM

Ø	150	200	250	300	350	400	450	500	600
REF.	ER 150 GEP 50	ER 200 GEP 50	ER 250 GEP 50	ER 300 GEP 50	ER 350 GEP 50	ER 400 GEP 50	ER 450 GEP 50	ER 500 GEP 50	ER 600 GEP 50
Part no.	29 150 327	29 200 327	29 250 327	29 300 327	29 350 327	29 400 327	29 450 327	29 500 327	29 600 327
H _{min}	250								
H _{max}	370								
Weight in kg	5	6	8	10	13	16	17	19	23



ADJUSTABLE LENGTH 55-90CM

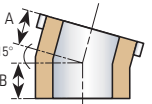
Ø	150	200	250	300	350	400	450	500	600
REF.	ER ? 150 GEP 50	ER 200 GEP 50	ER 250 GEP 50	ER 300 GEP 50	ER 350 GEP 50	ER 400 GEP 50	ER 450 GEP 50	ER 500 GEP 50	ER 600 GEP 50
Part no.	29 150 326	29 200 326	29 250 326	29 300 326	29 350 326	29 400 326	29 450 326	29 500 326	29 600 326
H _{min}	550								
H _{max}	900								
Weight in kg	5	6	8	10	13	16	17	19	23



ELBOWS

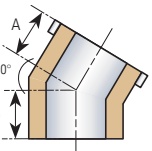
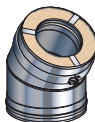
15° ELBOW

Ø	150	200	250	300	350	400	450	500	600
REF.	EC 15 150 GEP 50	EC 15 200 GEP 50	EC 15 250 GEP 50	EC 15 300 GEP 50	EC 15 350 GEP 50	EC 15 400 GEP 50	EC 15 450 GEP 50	EC 15 500 GEP 50	EC 15 600 GEP 50
Part no.	29 150 301	29 200 301	29 250 301	29 300 301	29 350 301	29 400 301	29 450 301	29 500 301	29 600 301
A	92	100	107	117	132	142	142	142	142
B	144	152	159	169	184	194	194	194	194
Weight in kg	2	2	3	4	5	7	7	8	9



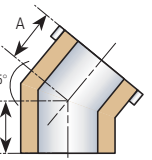
30° ELBOW

Ø	150	200	250	300	350	400	450	500	600
REF.	EC 30 150 GEP 50	EC 30 200 GEP 50	EC 30 250 GEP 50	EC 30 300 GEP 50	EC 30 350 GEP 50	EC 30 400 GEP 50	EC 30 450 GEP 50	EC 30 500 GEP 50	EC 30 600 GEP 50
Part no.	29 150 311	29 200 311	29 250 311	29 300 311	29 350 311	29 400 311	29 450 311	29 500 311	29 600 311
A	92	100	107	117	132	142	142	142	142
B	144	152	159	169	184	194	194	194	194
Weight in kg	2	2	3	4	5	7	7	8	9



45° ELBOW

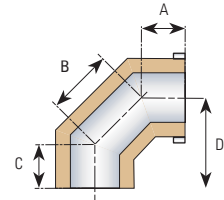
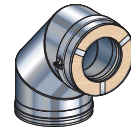
Ø	150	200	250	300	350	400	450	500	600
REF.	EC 45 150 GEP 50	EC 45 200 GEP 50	EC 45 250 GEP 50	EC 45 300 GEP 50	EC 45 350 GEP 50	EC 45 400 GEP 50	EC 45 450 GEP 50	EC 45 500 GEP 50	EC 45 600 GEP 50
Part no.	29 150 321	29 200 321	29 250 321	29 300 321	29 350 321	29 400 321	29 450 321	29 500 321	29 600 321
A	92	100	107	117	132	142	142	155	167
B	144	152	159	169	184	194	194	207	219
Weight in kg	2	2	3	4	5	7	7	9	11





ELBOW 90°

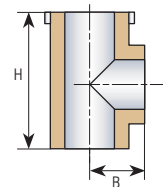
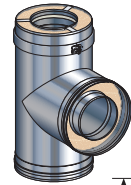
Ø	150	200	250	300	350	400	450	500	600
REF.	EC 90 150 GEP 50	EC 90 200 GEP 50	EC 90 250 GEP 50	EC 90 300 GEP 50	EC 90 350 GEP 50	EC 90 400 GEP 50	EC 90 450 GEP 50	EC 90 500 GEP 50	EC 90 600 GEP 50
Part no.	29 150 331	29 200 331	29 250 331	29 300 331	29 350 331	29 400 331	29 450 331	29 500 331	29 600 331
A	93	101	108	118	133	143	143	154	166
B	197	247	247	297	297	297	297	297	322
C	145	153	160	170	185	195	195	208	220
D	285	328	335	381	396	396	406	418	448
Weight in kg	3	4	5	7	9	11	12	14	18



TEES

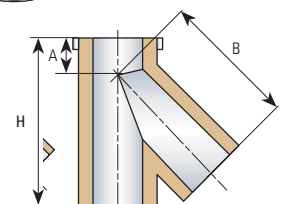
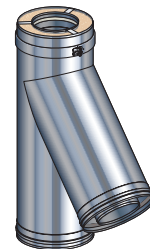
90° TEE

Ø	150	200	250	300	350	400	450	500	600
REF.	TE 90 150 GEP 50	TE 90 200 GEP 50	TE 90 250 GEP 50	TE 90 300 GEP 50	TE 90 350 GEP 50	TE 90 400 GEP 50	TE 90 450 GEP 50	TE 90 500 GEP 50	TE 90 600 GEP 50
Part no.	29 150 350	29 200 350	29 250 350	29 300 350	29 350 350	29 400 350	29 450 350	29 500 350	29 600 350
H	472	522	572	622	672	722	772	822	922
B	246	271	296	321	346	371	396	421	471
Weight in kg	3	5	6	8	11	14	16	18	24



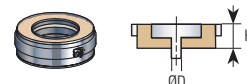
135° TEE

Ø	150	200	250	300	350	400	450	500	600
REF.	TE 135 150 GEP 50	TE 135 200 GEP 50	TE 135 250 GEP 50	TE 135 300 GEP 50	TE 135 350 GEP 50	TE 135 400 GEP 50	TE 135 450 GEP 50	TE 135 500 GEP 50	TE 135 600 GEP 50
Part no.	29 150 351	29 200 351	29 250 351	29 300 351	29 350 351	29 400 351	29 450 351	29 500 351	29 600 351
H	746	846	921	971	1071	1121	1171	1221	1246
A	146	171	171	171	196	196	196	171	196
B	546	646	696	746	846	896	896	946	996
Weight in kg	6	8	11	14	20	25	28	32	38



DRAIN & PLUG

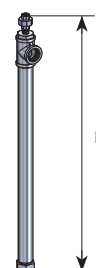
DRAIN & PLUG									
Ø	150	200	250	300	350	400	450	500	600
REF:	CE 150 GEP 50	CE 200 GEP 50	CE 250 GEP 50	CE 300 GEP 50	CE 350 GEP 50	CE 400 GEP 50	CE 450 GEP 50	CE 500 GEP 50	CE 600 GEP 50
Part no.	29 150 390	29 200 390	29 250 390	29 300 390	29 350 390	29 400 390	29 450 390	29 500 390	29 600 390
H	36								
Ø D	1/2"								
Weight in kg	1	1	2	2	3	3	4	4	5



BASE PLUG									
Ø	150	200	250	300	350	400	450	500	600
REF:	TO 150 GEP 50	TO 200 GEP 50	TO 250 GEP 50	TO 300 GEP 50	TO 350 GEP 50	TO 400 GEP 50	TO 450 GEP 50	TO 500 GEP 50	TO 600 GEP 50
Part no.	29 150 391	29 200 391	29 250 391	29 300 391	29 350 391	29 400 391	29 450 391	29 500 391	29 600 391
H	36								
Weight in kg	1	1	2	2	3	3	4	4	5

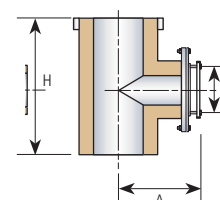
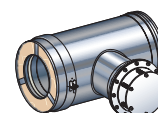


SIPHON									
Ø	150	200	250	300	350	400	450	500	600
REF:	SIPHON INOX GEP								
Part no.	29 000 001								
H	860								
Weight in kg	6								



EXTRA COMPONENTS

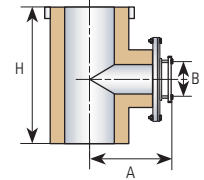
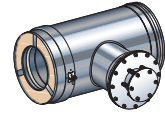
ANTI IMPLOSION COMPONENT									
Ø	150	200	250	300	350	400	450	500	600
REF:	TE AE 150 GEP 50	TE AE 200 GEP 50	TE AE 250 GEP 50	TE AE 300 GEP 50	TE AE 350 GEP 50	TE AE 400 GEP 50	TE AE 450 GEP 50	TE AE 500 GEP 50	TE AE 600 GEP 50
Part no.	29 150 361	29 200 361	29 250 361	29 300 361	29 350 361	29 400 361	29 450 361	29 500 361	29 600 361
H	446								
A	459	509	558	608	658	709	759	809	909
B	160								
Weight in kg	7	7	8	9	11	12	13	14	16





ANTIIMPLOSION COMPONENT

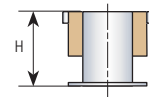
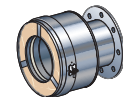
Ø	150	200	250	300	350	400	450	500	600
REF.	TE CV 150 GEP 50	TE CV 200 GEP 50	TE CV 250 GEP 50	TE CV 300 GEP 50	TE CV 350 GEP 50	TE CV 400 GEP 50	TE CV 450 GEP 50	TE CV 500 GEP 50	TE CV 600 GEP 50
Part no.	29 150 360	29 200 360	29 250 360	29 300 360	29 350 360	29 400 360	29 450 360	29 500 360	29 600 360
H	446								
A	459	509	558	608	658	709	759	809	909
B	160								
Weight in kg	7	7	8	9	11	12	13	14	16



ADAPTORS

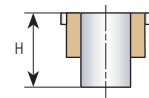
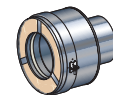
ADAPTOR WITH FLANGE

Ø	150	200	250	300	350	400	450	500	600
REF.	RAC BR 150 GEP 50	RAC BR 200 GEP 50	RAC BR 250 GEP 50	RAC BR 300 GEP 50	RAC BR 350 GEP 50	RAC BR 400 GEP 50	RAC BR 450 GEP 50	RAC BR 500 GEP 50	RAC BR 600 GEP 50
Part no.	29 150 599	29 200 599	29 250 599	29 300 599	29 350 599	29 400 599	29 450 599	29 500 599	29 600 599
H	316								
Weight in kg	6	7	9	11	13	16	17	19	24



ADAPTOR TO FLANGE

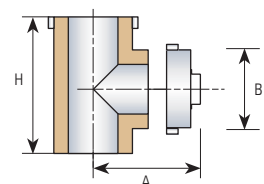
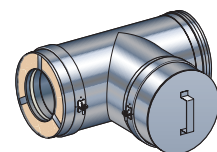
Ø	150	200	250	300	350	400	450	500	600
REF.	RACC 150 GEP 50	RACC 200 GEP 50	RACC 250 GEP 50	RACC 300 GEP 50	RACC 350 GEP 50	RACC 400 GEP 50	RACC 450 GEP 50	RACC 500 GEP 50	RACC 600 GEP 50
Part no.	29 150 384	29 200 384	29 250 384	29 300 384	29 350 384	29 400 384	29 450 384	29 500 384	29 600 384
H	311								
Weight in kg	3	3	4	5	6	7	8	9	11



ACCESSORIES

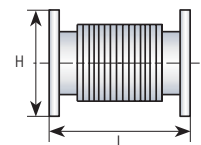
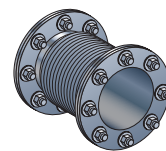
TEE WITH ACCESS DOOR

Ø	150	200	250	300	350	400	450	500	600
REF.	EDTV 150 GEP 50	EDTV 200 GEP 50	EDTV 250 GEP 50	EDTV 300 GEP 50	EDTV 350 GEP 50	EDTV 400 GEP 50	EDTV 450 GEP 50	EDTV 500 GEP 50	EDTV 600 GEP 50
Part no.	29 150 355	29 200 355	29 250 355	29 300 355	29 350 355	29 400 355	29 450 355	29 500 355	29 600 355
H	472	522	572	622	672	722	772	822	922
A	372	397	421	446	471	496	521	546	596
B	250	300	300	300	300	300	300	300	300
Weight in kg	5	6	8	9	11	14	17	19	25



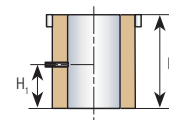
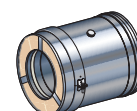
EXPANSION BELLOWS

Ø	150	200	250	300	350	400	450	500	600
REF.	KOMP DRG 150 DU HP	KOMP DRG 200 DU HP	KOMP DRG 250 DU HP	KOMP DRG 300 DU HP	KOMP DRG 350 DU HP	KOMP DRG 400 DU HP	-	KOMP DRG 500 DU HP	KOMP DRG 600 DU HP
Part no.	PL29 150 001	PL29 200 001	PL29 250 001	PL29 300 001	PL29 350 001	PL29 400 001	-	PL29 500 001	PL29 600 001
H	285	340	395	445	505	565	-	670	780
L	220	250	250	300	300	300	-	300	300
Weight in kg	-	-	-	-	-	-	-	-	-



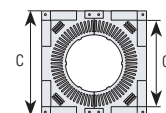
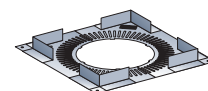
MEASURING ELEMENT / PROBE LENGTH

Ø	150	200	250	300	350	400	450	500	600
REF.	EPMF 150 GEP 50	EPMF 200 GEP 50	EPMF 250 GEP 50	EPMF 300 GEP 50	EPMF 350 GEP 50	EPMF 400 GEP 50	EPMF 450 GEP 50	EPMF 500 GEP 50	EPMF 600 GEP 50
Part no.	29 150 318	29 200 318	29 250 318	29 300 318	29 350 318	29 400 318	29 450 318	29 500 318	29 600 318
H	250								
H ₁	242								
Weight in kg	2	2	3	3	4	5	6	6	7



VENTILATED FIRE-STOP PLATE

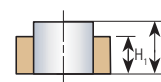
Ø	150	200	250	300	350	400	450	500	600
REF.	PPP 150 GEP 50	PPP 200 GEP 50	PPP 250 GEP 50	PPP 300 GEP 50	PPP 350 GEP 50	PPP 400 GEP 50	PPP 450 GEP 50	PPP 500 GEP 50	PPP 600 GEP 50
Part no.	29 150 536	29 200 536	29 250 536	29 300 536	29 350 536	29 400 536	29 450 536	29 500 536	29 600 536
C	412	462	512	562	612	662	712	762	862
C ₁	352	402	452	502	552	602	652	702	802
H	30								
Weight in kg	1	1	1	2	2	2	2	3	3



TOPS

WEATHER TOP

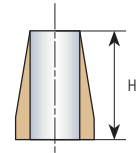
Ø	150	200	250	300	350	400	450	500	600
REF.	FH 150 GEP 50	FH 200 GEP 50	FH 250 GEP 50	FH 300 GEP 50	FH 350 GEP 50	FH 400 GEP 50	FH 450 GEP 50	FH 500 GEP 50	FH 600 GEP 50
Part no.	29 150 399	29 200 399	29 250 399	29 300 399	29 350 399	29 400 399	29 450 399	29 500 399	29 600 399
H	149								
H ₁	87,5								
Weight in kg	1	1	1	1	2	2	2	3	3





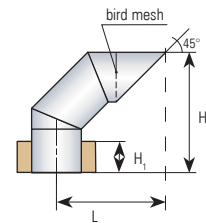
CONE TOP

Ø	150	200	250	300	350	400	450	500	600
REF.	CFI 150 GEP 50	CFI 200 GEP 50	CFI 250 GEP 50	CFI 300 GEP 50	CFI 350 GEP 50	CFI 400 GEP 50	CFI 450 GEP 50	CFI 500 GEP 50	CFI 600 GEP 50
Part no.	29 150 385	29 200 385	29 250 385	29 300 385	29 350 385	29 400 385	29 450 385	29 500 385	29 600 385
H	393								
Weight in kg	2	3	3	4	4	5	6	7	8



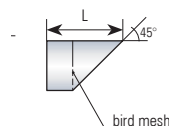
VERTICAL 90° TERMINAL

Ø	150	200	250	300	350	400	450	500	600
REF.	SIF 90 150 GEP 50	SIF 90 200 GEP 50	SIF 90 250 GEP 50	SIF 90 300 GEP 50	SIF 90 350 GEP 50	SIF 90 400 GEP 50	SIF 90 450 GEP 50	SIF 90 500 GEP 50	SIF 90 600 GEP 50
Part no.	29 150 381	29 200 381	29 250 381	29 300 381	29 350 381	29 400 381	29 450 381	29 500 381	29 600 381
H	384	433	482	531	580	629	978	727	826
H ₁	87,5								
L	466	566	665	764	864	963	1063	1162	1360
Weight in kg	2	2	3	4	6	7	10	12	16



HORIZONTAL TERMINAL

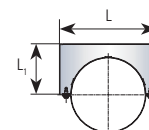
Ø	150	200	250	300	350	400	450	500	600
REF.	SIF 150 GEP 50	SIF 200 GEP 50	SIF 250 GEP 50	SIF 300 GEP 50	SIF 350 GEP 50	SIF 400 GEP 50	SIF 450 GEP 50	SIF 500 GEP 50	SIF 600 GEP 50
Part no.	29 150 382	29 200 382	29 250 382	29 300 382	29 350 382	29 400 382	29 450 382	29 500 382	29 600 382
L	422	472	522	572	622	672	722	772	872
Weight in kg	2	2	3	3	4	5	6	7	9



SUPPORT COMPONENTS

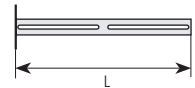
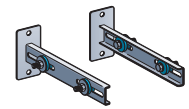
WALL BRACKET

Ø	150	200	250	300	350	400	450	500	600
REF.	CMI 150 GEP 50	CMI 200 GEP 50	CMI 250 GEP 50	CMI 300 GEP 50	CMI 350 GEP 50	CMI 400 GEP 50	CMI 450 GEP 50	CMI 500 GEP 50	CMI 600 GEP 50
Part no.	29 150 575	29 200 575	29 250 575	29 300 575	29 350 575	29 400 575	29 450 575	29 500 575	29 600 575
L	330	380	430	480	530	580	630	680	780
L ₁	170	195	220	244	268	294	319	344	394
Weight in kg	1	1	1	1	2	2	2	3	3



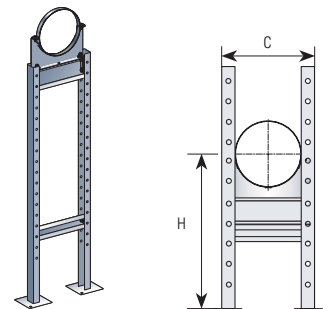
EXTENSION ARMS

Ø	150	200	250	300	350	400	450	500	600
REF.	RCM 20 150 GEP 50	RCM 20 200 GEP 50	RCM 20 250 GEP 50	RCM 20 300 GEP 50	RCM 20 350 GEP 50	RCM 20 400 GEP 50	RCM 20 450 GEP 50	RCM 20 500 GEP 50	RCM 20 600 GEP 50
Part no.	29 150 534	29 200 534	29 250 534	29 300 534	29 350 534	29 400 534	29 450 534	29 500 534	29 600 534
L	250	250	250	300	300	350	350	400	400
Weight in kg	1								



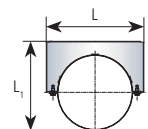
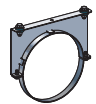
HORIZONTAL SUPPORT

Ø	150	200	250	300	350	400	450	500	600
REF.	PSC 150 GEP 50	PSC 200 GEP 50	PSC 250 GEP 50	PSC 300 GEP 50	PSC 350 GEP 50	PSC 400 GEP 50	PSC 450 GEP 50	PSC 500 GEP 50	PSC 600 GEP 50
Part no.	29 150 515	29 200 515	29 250 515	29 300 515	29 350 515	29 400 515	29 450 515	29 500 515	29 600 515
H _{max}	1470	1495	1520	1545	1570	1595	1620	1645	1695
H _{min}	355	405	457	507	557	607	657	707	807
C	320	370	420	470	520	570	620	670	770
Weight in kg	12	12	13	13	14	14	15	15	16



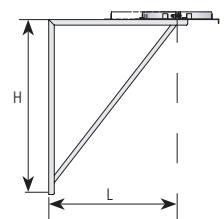
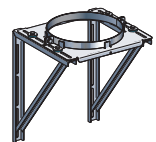
CEILING BRACKET

Ø	150	200	250	300	350	400	450	500	600
REF.	CSC 150 GEP 50	CSC 200 GEP 50	CSC 250 GEP 50	CSC 300 GEP 50	CSC 350 GEP 50	CSC 400 GEP 50	CSC 450 GEP 50	CSC 500 GEP 50	CSC 600 GEP 50
Part no.	29 150 559	29 200 559	29 250 559	29 300 559	29 350 559	29 400 559	29 450 559	29 500 559	29 600 559
L	320	370	420	470	520	570	620	670	770
L ₁	303	353	403	453	503	553	603	653	753
Weight in kg	1	1	2	2	2	2	2	3	3



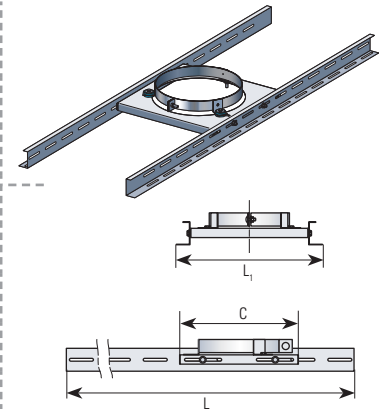
WALL SUPPORT

Ø	150	200	250	300	350	400	450	500	600
REF.	SMI 150 GEP 50	SMI 200 GEP 50	SMI 250 GEP 50	SMI 300 GEP 50	SMI 350 GEP 50	SMI 400 GEP 50	SMI 450 GEP 50	SMI 500 GEP 50	SMI 600 GEP 50
Part no.	29 150 556	29 200 556	29 250 556	29 300 556	29 350 556	29 400 556	29 450 556	29 500 556	29 600 556
H	325	395	395	496	496	496	600	600	600
L	400	470	470	571	571	571	675	675	675
L _{min} / L _{max}	50 / 200								
Weight in kg	6	7	8	9	10	11	17	18	19



JOIST SUPPORT

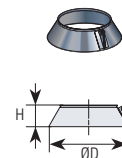
Ø	150	200	250	300	350	400	450	500	600
REF.	SP 150 GEP 50	SP 200 GEP 50	SP 250 GEP 50	SP 300 GEP 50	SP 350 GEP 50	SP 400 GEP 50	SP 450 GEP 50	SP 500 GEP 50	SP 600 GEP 50
Part no.	29 150 581	29 200 581	29 250 581	29 300 581	29 350 581	29 400 581	29 450 581	29 500 581	29 600 581
C	340	390	440	540	590	640	690	740	840
L	1250								
L ₁	405	455	505	605	655	705	755	805	905
Weight in kg	2	2	3	3	4	5	6	7	7



FLASHINGS

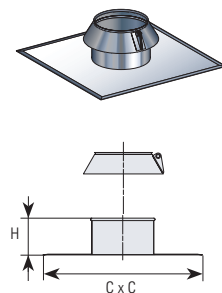
STORM COLLAR

Ø	200	250	300	350	400	450	500	550	650
REF.	COLLER 200 DU	COLLER 250 DU	COLLER 300 DU	COLLER 350 DU	COLLER 400 DU	COLLER 450 DU	COLLER 500 DU	COLLER 550 DU	COLLER 650 DU
Part no.	28 200 093	28 250 093	28 300 093	28 350 093	28 400 093	28 450 093	28 500 093	28 550 093	28 600 093
Ø D	450	500	550	600	650	700	750	800	900
H	84								
Weight in kg	0,4	0,7	0,8	0,8	1	1,2	1,4	1,6	1,8



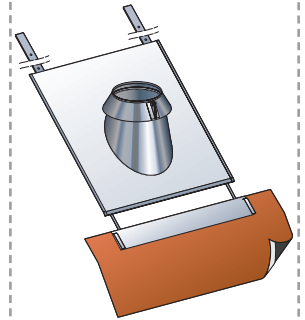
FLAT FLASHING

Ø	200	250	300	350	400	450	500	550	650
REF.	SIO 200 DU	SIO 250 DU	SIO 300 DU	SIO 350 DU	SIO 400 DU	SIO 450 DU	SIO 500 DU	SIO 550 DU	SIO 650 DU
Part no.	28 200 079	28 250 079	28 300 079	28 350 079	28 400 079	28 450 079	28 500 079	28 550 079	28 600 079
C x C	570	570	640	680	700	750	800	800	850
H	250								
Weight in kg	3	3	4	4	5	5	6	7	8

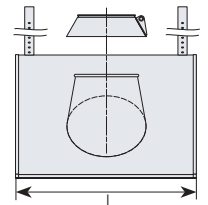


5-15° FLASHING TILES + KIT

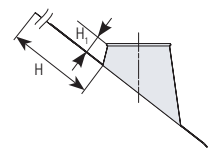
Ø	200	250	300	350	400	450	500	550	650
REF.	SIT 15 200 DU	SIT 15 250 DU	SIT 15 300 DU	SIT 15 350 DU	SIT 15 400 DU	SIT 15 450 DU	SIT 15 500 DU	SIT 15 550 DU	SIT 15 650 DU
Part no.	28 200 045	28 250 045	28 300 045	28 350 045	28 400 045	28 450 045	28 500 045	28 550 045	28 600 045
H	200								
H ₁	250								
L	740	840	840	840	840	840	840	840	840
Weight in kg	4	5	6	6	7	7	8	8	9

**15-30° FLASHING TILES + KIT**

Ø	200	250	300	350	400	450	500	550	650
REF.	SIT 30 200 DU	SIT 30 250 DU	SIT 30 300 DU	SIT 30 350 DU	SIT 30 400 DU	SIT 30 450 DU	SIT 30 500 DU	SIT 30 550 DU	SIT 30 650 DU
Part no.	28 200 070	28 250 070	28 300 070	28 350 070	28 400 070	28 450 070	28 500 070	28 550 070	28 600 070
H	200								
H ₁	250								
L	740	840	840	840	840	840	840	840	840
Weight in kg	4	5	6	6	7	7	8	8	9

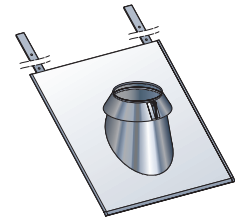
**30-45° FLASHING TILES + KIT**

Ø	200	250	300	350	400	450	500	550	650
REF.	SIT 45 200 DU	SIT 45 250 DU	SIT 45 300 DU	SIT 45 350 DU	SIT 45 400 DU	SIT 45 450 DU	SIT 45 500 DU	SIT 45 550 DU	SIT 45 650 DU
Part no.	28 200 073	28 250 073	28 300 073	28 350 073	28 400 073	28 450 073	28 500 073	28 550 073	28 600 073
H	200								
H ₁	250								
L	740	840	840	840	840	840	840	840	840
Weight in kg	5	6	6	7	8	8	8	9	9



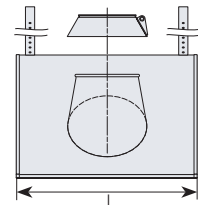
5°-15° FLASHING

Ø	200	250	300	350	400	450	500	550	650
REF.	SIA 15 200 DU	SIA 15 250 DU	SIA 15 300 DU	SIA 15 350 DU	SIA 15 400 DU	SIA 15 450 DU	SIA 15 500 DU	SIA 15 550 DU	SIA 15 650 DU
Part no.	28 200 069	28 250 069	28 300 069	28 350 069	28 400 069	28 450 069	28 500 069	28 550 069	28 600 069
H	200								
H _i	250								
L	740	840	840	840	840	840	840	840	840
Weight in kg	4	5	6	6	7	7	8	8	9



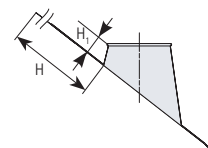
15°-30° FLASHING

Ø	200	250	300	350	400	450	500	550	650
REF.	SIA 30 200 DU	SIA 30 250 DU	SIA 30 300 DU	SIA 30 350 DU	SIA 30 400 DU	SIA 30 450 DU	SIA 30 500 DU	SIA 30 550 DU	SIA 30 650 DU
Part no.	28 200 071	28 250 071	28 300 071	28 350 071	28 400 071	28 450 071	28 500 071	28 550 071	28 600 071
H	200								
H _i	250								
L	740	840	840	840	840	840	840	840	840
Weight in kg	4	5	6	6	7	7	8	8	9



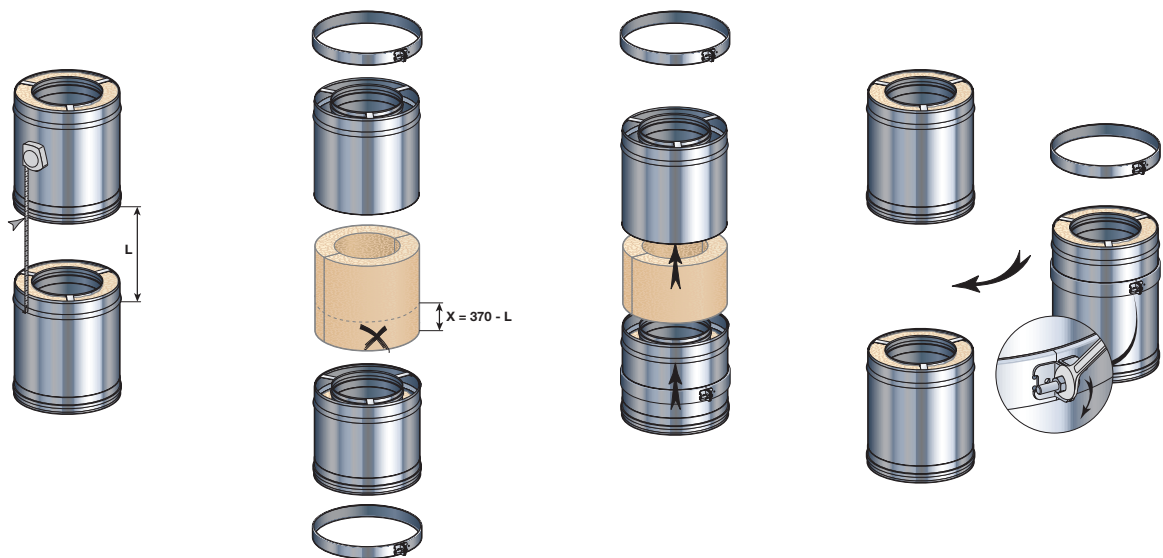
30°-45° FLASHING

Ø	200	250	300	350	400	450	500	550	650
REF.	SIA 45 200 DU	SIA 45 250 DU	SIA 45 300 DU	SIA 45 350 DU	SIA 45 400 DU	SIA 45 450 DU	SIA 45 500 DU	SIA 45 550 DU	SIA 45 650 DU
Part no.	28 200 074	28 250 074	28 300 074	28 350 074	28 400 074	28 450 074	28 500 074	28 550 074	28 600 074
H	200								
H _i	250								
L	740	840	840	840	840	840	840	840	840
Weight in kg	5	6	6	7	8	8	8	9	9

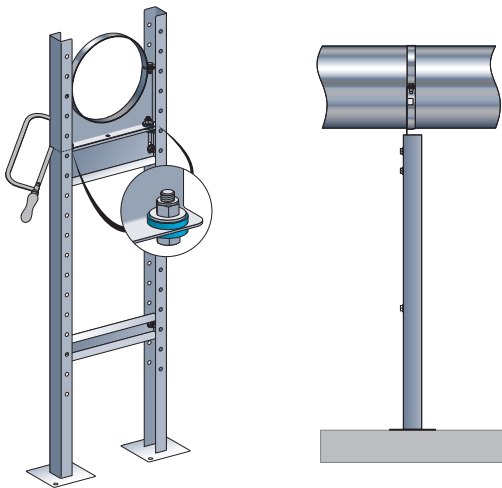


INSTALLATION OF COMPONENTS

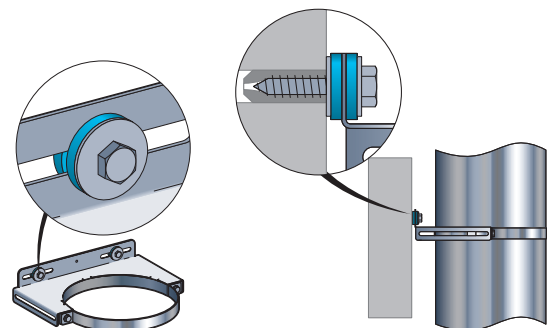
ADJUSTABLE LENGTHS



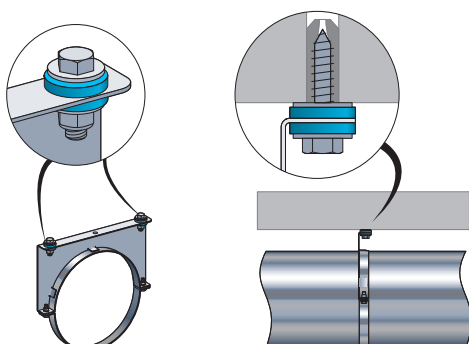
HORIZONTAL SUPPORT



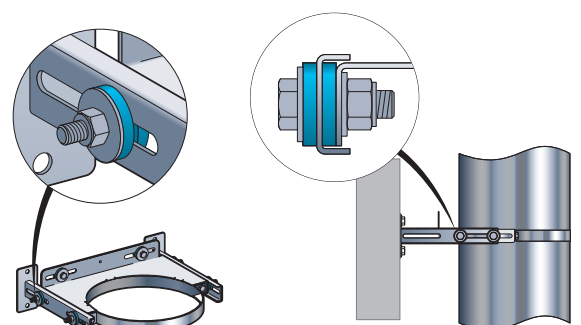
WALL BRACKET



CEILING BRACKET

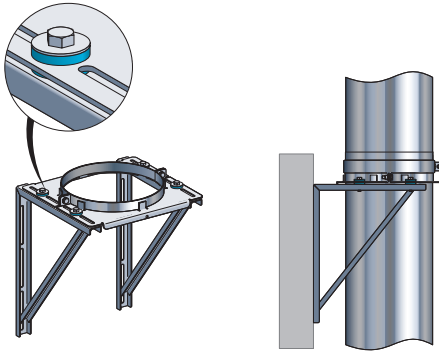


EXTENSION ARMS

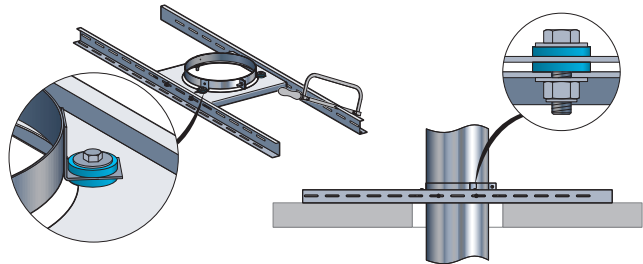


INSTALLATION OF COMPONENTS

WALL SUPPORT



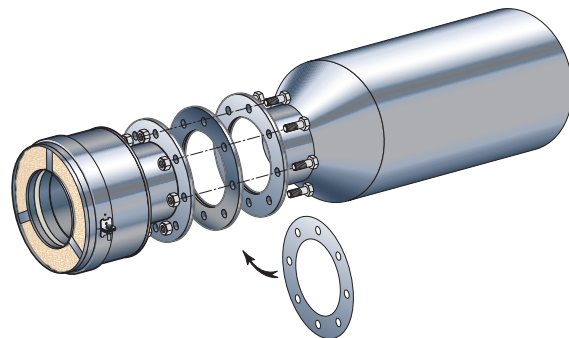
JOIST SUPPORT

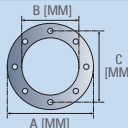


ADAPTOR WITH FLANGE

The adaptor with flange is used to connect the Therm+GEP system to an appliance or component with a flanged outlet. This component is made to measure and requires details and dimensions of the holes and their positions when the adaptor is ordered. The drawing illustrates the assembly method and shows the dimensions required. Nuts and bolts are not provided and should be ordered separately.

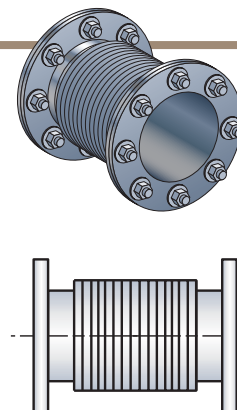
This unlined expansion bellows can be used to counteract axial and vibrational movement. Care must be taken not to pre-stress or compress the component during its installation. The anticipated life span of a set of bellows is approximately 10,000 cycles.



REQUIRED DIMENSION		
	A	... [mm]
	B	... [mm]
	C	... [mm]

EXPANSION BELLOWS

Expansion bellows will be required to counteract vibrational movement and help eliminate turbulence and flow effects. Used anywhere in a system for axial and vibrational movement. This component will not accommodate any lateral movement or lateral offsets and parallel misalignment should be avoided. Care must be taken not to pre-stress or compress the component during the installation. The anticipated life span of a set of bellows is approximately 10,000 cycles.



SPECIFIC DIMENSIONS

MAXIMUM DISTANCE BETWEEN TWO ELBOWS OR TWO TEES

D max. : Maximum distance between two elbows without suspension collar (in metres).

Y max. : Maximum number of lengths between two elbows. If larger than D max., add a support (CMI, CSC, etc.) every Y lengths.

THERM+ GEP 50									
Ø	150	200	250	300	350	400	450	500	600
D max.	3	3	3	3	2	2	2	2	2
Y max.	3	3	3	3	3	3	3	3	3

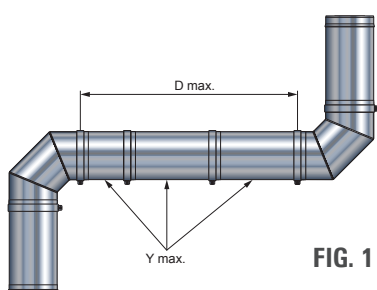


FIG. 1

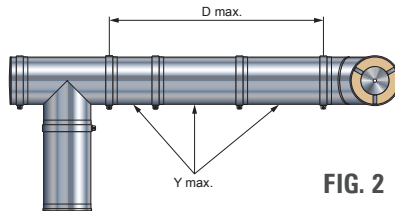


FIG. 2

THERM+ GEP 100						
Ø	150	200	250	300	350	400
D max.	3	3	3	3	2	2
Y max.	3	3	3	3	3	3

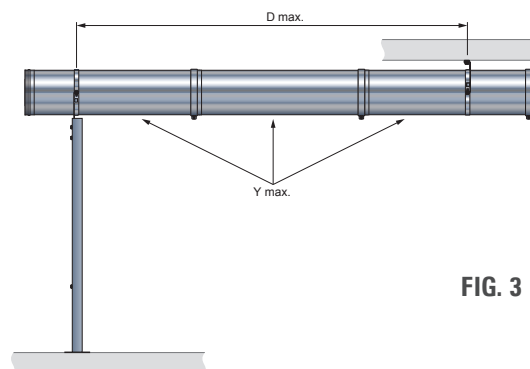


FIG. 3

FREE STANDING HEIGHT(H IN METRS)

Y max. : Maximum number of lengths above the last support / flashing

THERM+ GEP 50									
Ø	150	200	250	300	350	400	450	500	600
H ₁ max.	3	3	3	3	2	2	2	2	2
Y max.	3	3	3	3	3	3	3	3	3

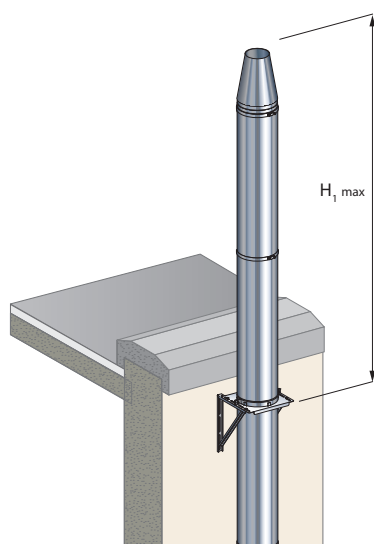


FIG. 4

THERM+ GEP 100						
Ø	150	200	250	300	350	400
H ₁ max.	3	3	3	3	2	2
Y max.	3	3	3	3	3	3

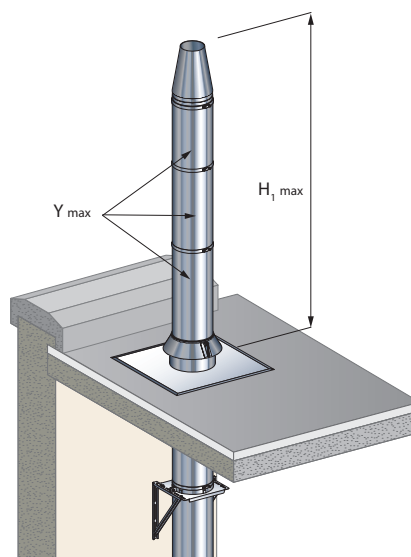
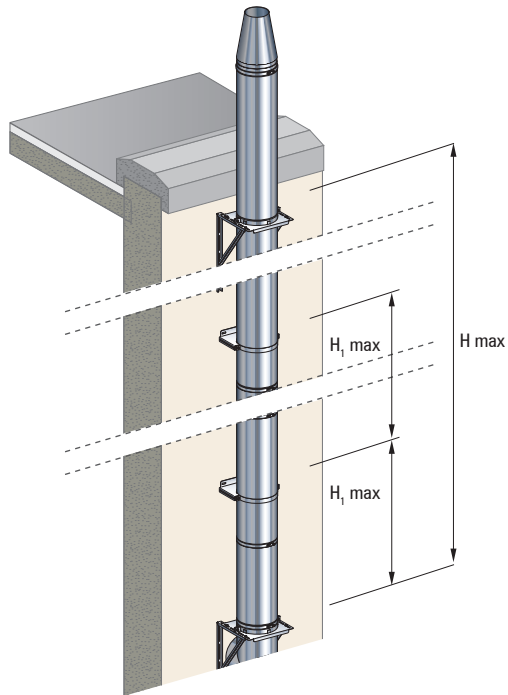


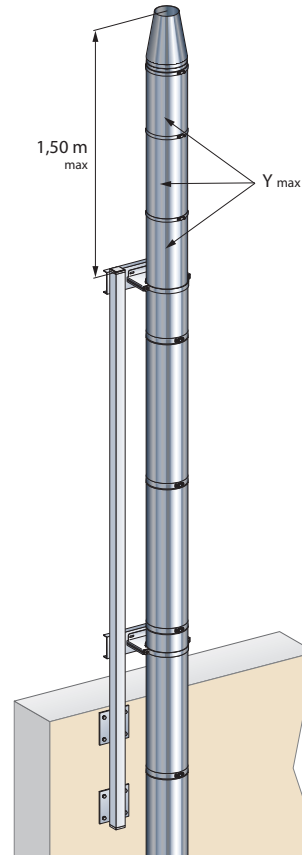
FIG. 5

COMPRESSIVE STRENGTH (IN METRES)



INSTALLATION WITH MAST (BT)

Y max : Maximum number of lengths above the last support / flashing



THERM+ GEP 50

Ø	150	200	250	300	350	400	450	500	600
H max.	3	3	3	3	2	2	2	2	2
H ₁ max.	4	4	4	4	4	4	4	4	4

THERM+ GEP 50

Ø	150	200	250	300	350	400	450	500	600
Y max.	3	3	3	3	3	3	3	3	3

THERM+ GEP 100

Ø	150	200	250	300	350	400
H max.	12	12	12	12	8	8
H ₁ max.	4	4	4	4	4	4

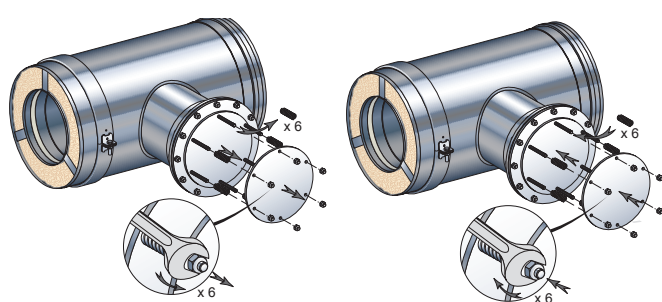
THERM+ GEP 100

Ø	150	200	250	300	350	400
Y max.	3	3	3	3	3	3

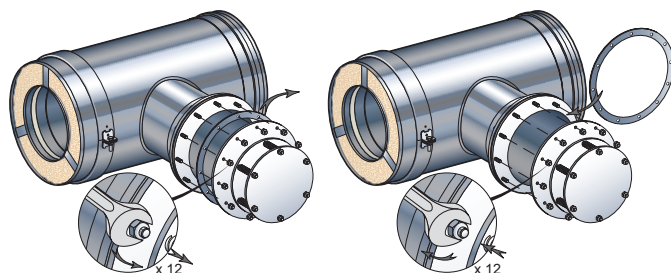
MAINTENANCE

We advise that the springs and seals of the TECV and TEAE are changed as part of the yearly maintenance.
(Kit réf.KIT MAINT GEP, article code: 29000002)

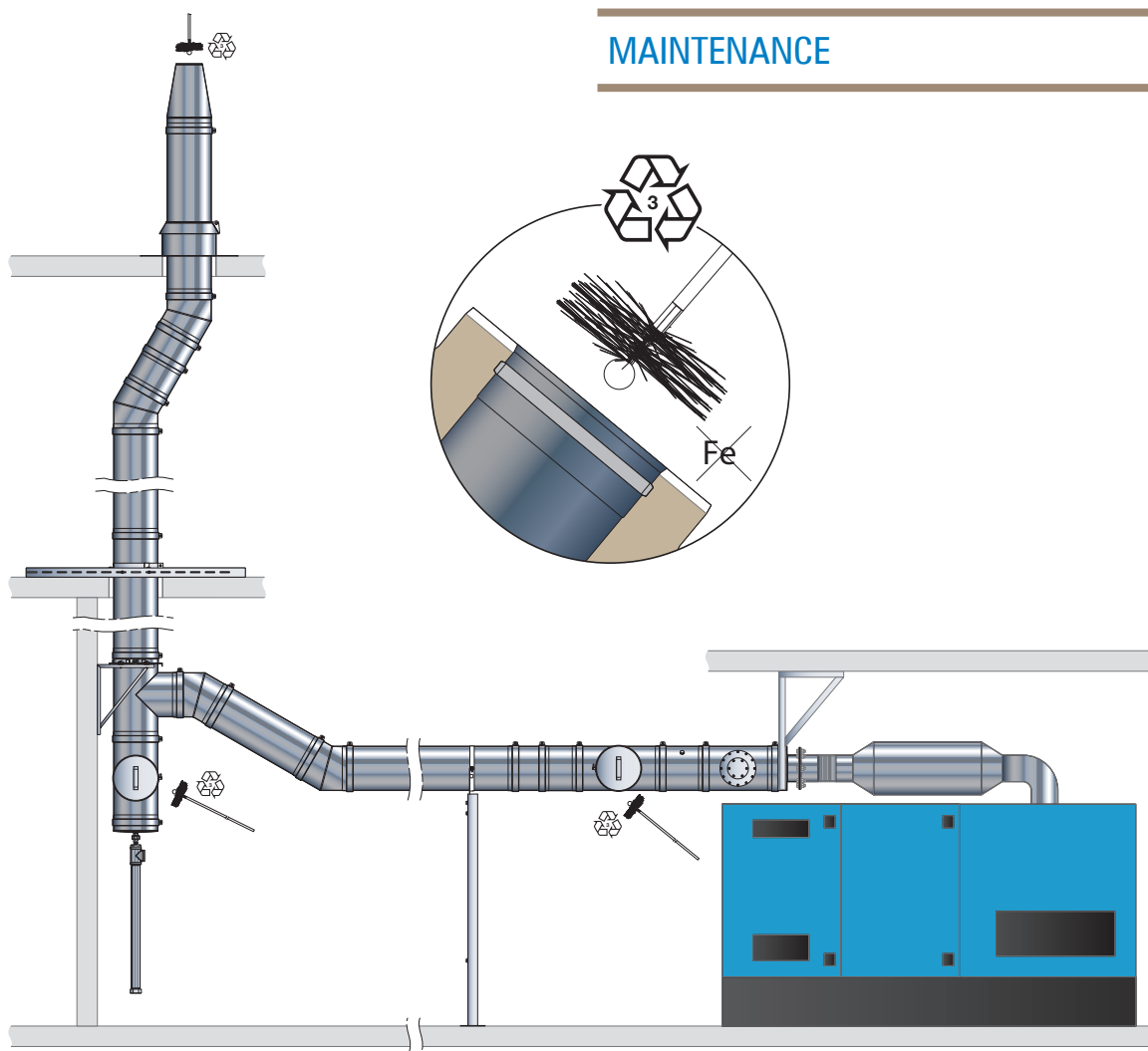
CHANGING SPRING



CHANGING SEAL



MAINTENANCE





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