



CUSTOMER CONNECTIONS - MECHANICAL								
CNTN	SIZE	CLASS	TYPE	SERVICE	X	Y	Z	
M 003	3"	150#	RF	GT OIL COOLER WATER SUPPLY	2504	-9442	-2115	
M 004	3"	150#	RF	GT OIL COOLER WATER RETURN	2504	-9824	-2115	
M 006		FTG. (MALE)	CGA-580	ACCUMULATOR #1 NITROGEN CHARGE PORT	-1652	-10080	916	
M 007		FTG. (MALE)	CGA-580	ACCUMULATOR #2 NITROGEN CHARGE PORT	-1932	-10080	916	
M 013	1.5"	BALL VALVE	NPT	GT CONTROL OIL RESERVOIR FILL PORT	-2537	-9959	-903	
M 015	1"	BALL VALVE	NPT	GT CONTROL OIL RESERVOIR DRAIN PORT	-2566	-9846	-2040	
M 017	0.5"	BALL VALVE	NPT	GT CONTROL OIL SAMPLING PORT	-2243	-8036	-2050	
M 020	3"	150#	RF	WATER INJECTION SUPPLY	-	-	-	
M 021A	2"	1500#	RF	WATER FLUSH FORWARDING TO GAS TURBINE (WATER INJECTION SKID)	-	-	-	
M 021B	2"	1500#	RF	WATER FLUSH FORWARDING TO GAS TURBINE (GT BASE)	2504	-2560	-2092	
M 023	2"	150#	RF	WATER INJECTION RETURN	-	-	-	
M 028	1"	CPLG	NPT	COMBINED P30 & INSTRUMENT AIR PURGE SYSTEMS DRAIN	2243	-997	-1941	
M 029	0.75"	CPLG	NPT	GAS FUEL MANIFOLD DRAIN	2267	-1230	-1981	
M 030	1"	CPLG	NPT	GT BASEPLATE DRAIN	0	-11024	-2408	
M 031	0.75"	CPLG	NPT	LIQUID FUEL MANIFOLD DRAIN	2267	-1357	-1981	
M 032	0.75"	CPLG	NPT	WATER MANIFOLD DRAIN	2243	-997	-2145	
M 105	1"	BALL VALVE	NPT	GT LUBE OIL RESERVOIR DRAIN PORT	-2566	-9596	-2040	
M 107	1.5"	BALL VALVE	NPT	GT LUBE OIL RESERVOIR FILL PORT	-2537	-10133	-903	
M 109	0.5"	BALL VALVE	NPT	GT LUBE OIL SAMPLING PORT	-2243	-8161	-2050	
M 130	8"	150#	RF	GT LUBE OIL TANK VENT	-678	-4485	TBD	
M 204	1.5"	150#	RF	AC GENERATOR OIL COOLER WATER SUPPLY	2000	11511	-2103	
M 205	1.5"	150#	RF	AC GENERATOR OIL COOLER WATER RETURN	2000	11659	-2103	
M 211	3"	150#	RF	AC GENERATOR LUBE OIL TANK VENT	1110	10266	1900	
M 213	1"	BALL VALVE	NPT	AC GENERATOR LUBE OIL RESERVOIR DRAIN PORT	2068	11589	-2260	
M 214	TBD	TBD	TBD	AC GENERATOR LUBE OIL RESERVOIR FILL PORT (INTERNAL)	TBD	TBD	TBD	
M 215A	1"	CPLG	NPT	AC GENERATOR BASEPLATE DRAIN	1904	6974	-2406	
M 215B	1"	CPLG	NPT	AC GENERATOR BASEPLATE DRAIN	1904	10690	-2406	
M 215C	1"	CPLG	NPT	AC GENERATOR BASEPLATE DRAIN	-1904	6974	-2406	
M 215D	1"	CPLG	NPT	AC GENERATOR BASEPLATE DRAIN	-1904	10690	-2406	
M 300	1"	CPLG	NPT	INSTRUMENT AIR SUPPLY	-2243	-8136	-2100	
M 313A	0.75"	CPLG	NPT	INSTRUMENT AIR FORWARDING TO WASH MOBILE SKID (GT BASE)	2243	-4106	-2115	
M 313B	0.75"	CPLG	NPT	INSTRUMENT AIR FORWARDING TO WASH MOBILE SKID (CART)	-	-	-	
M 316A	0.5"	FTG	NPT	INSTRUMENT AIR FORWARDING TO WATER INJECTION SKID (GT BASE)	2243	-4640	-1920	
M 316B	0.5"	FTG	NPT	INSTRUMENT AIR FORWARDING TO WATER INJECTION SKID (WATER INJ SKID)	-	-	-	
M 319A	0.5"	FTG	NPT	INSTRUMENT AIR FORWARDING TO WATER FLUSH SKID (GT BASE)	2243	-4640	-1920	
M 319B	0.5"	FTG	NPT	INSTRUMENT AIR FORWARDING TO WATER FLUSH SKID (FLUSH SKID)	-	-	-	
M 400	3"	600#	RF	GAS FUEL SUPPLY	2504	-5011	-2094	
M 401	3"	BUTT WELD		GAS FUEL VENT TO ATMOSPHERE	1704	-1941	2985	
M 500		FLG		GT EXHAUST FLANGE	0	2279	3439	
M 502	3"	150#	RF	LIQUID FUEL SUPPLY	-	-	-	
M 503A	2"	1500#	RF	LIQUID FUEL FORWARDING TO GT (FUEL SKID)	-	-	-	
M 503B	2"	1500#	RF	LIQUID FUEL FORWARDING TO GT (GT BASE)	2504	-4648	-2110	
M 504	2"	150#	RF	LIQUID FUEL RETURN	2504	-4540	-1913	
M 506	1.5"	150#	RF	LIQUID FUEL PSV RETURN	-	-	-	
M 601	1.5"	CPLG	NPT	WASH AND RINSE FLUID FORWARDING TO GT	2243	-4326	-2115	
M 603	0.75"	FTG	NPT	LP COMPRESSOR DRAIN	2243	-3570	-2145	
M 604	0.75"	BALL VALVE	NPT	REAR OF ENGINE	2366	-997	-2145	
M 609				COMPRESSOR WASH MOBILE SKID TANK FILL PORT	-	-	-	
M 610	0.5"	BALL VALVE	NPT	COMPRESSOR WASH MOBILE SKID TANK DRAIN PORT	-	-	-	
M 611	1"	BALL VALVE	NPT	INTAKE PLENUM DRAIN	2402	-6761	-2145	
M 612	1"	BALL VALVE	NPT	EXHAUST HOOD DRAIN	2243	2533	-2245	
M 613	3"	150#	RF	P30 PURGE AIR SYSTEM COOLER WATER SUPPLY	2504	-552	-2115	
M 614	3"	150#	RF	P30 PURGE AIR SYSTEM COOLER WATER RETURN	2504	-782	-2115	
M 617	0.5"	FTG	NPT	WATER FLUSH SUPPLY	-	-	-	
M 618A	0.5"	FTG	NPT	WATER FLUSH FORWARDING TO GT	-	-	-	
M 618B	0.5"	FTG	NPT	WATER FLUSH FORWARDING TO GT (GT BASE)	2245	-1781	-2058	
M 619	0.5"	FTG	NPT	WATER FLUSH RETURN	-	-	-	
M 620	0.75"	CPLG	NPT	P30 COOLER WATER DRAIN	2243	2229	-2245	
M 701B	2"	1500#	RF	C02 FORWARDING TO GT ENCLOSURE	-1670	11900	-1820	
M 702B	1"	FTG	NPT	C02 FORWARDING TO AC ENCLOSURE	1680	11900	-1820	

NOTES:

- 1) CUSTOMER CONNECTIONS LOCATED ± 6.4 OF DIMENSION SHOWN (ALL DIMENSIONS IN MM)
- 2) WATER INJECTION SKID TO BE POSITIONED SO M021 CONNECTION FROM WATER INJECTION SKID TO GT SKID DOES NOT EXCEED A MAXIMUM DISTANCE OF 8m
- 3) ALL BOLT HOLES IN CUSTOMER FLANGES TO STRADDLE CENTERLINES EQUALLY UNLESS OTHERWISE NOTED
- 4) COMPANION FLANGES, BOLTS, NUTS & GASKETS TO BE FURNISHED BY OTHERS
- 5) ALL CUSTOMER PIPED VENT LINES MUST HAVE A CONTINUOUS VERTICAL RISE (NO TRAPS OR LOW POINTS). CUSTOMER DRAIN LINES TO HAVE A MIN. SLOPE API-614 OF 42mm/m TOWARDS THE RESERVOIR. INTERCONNECT PIPING AND TUBING SHOULD HAVE A CONTINUOUS SLOPE TO PREVENT AIR POCKETS
- 6) LOCATION OF SKIDS TO BE DETERMINED
- 7) GROUT MAY BE DRY PACK OR WET TYPE AND SHOULD BE POURED ONLY AFTER ALL ALIGNMENT REQUIREMENTS ARE SUBSTANTIALLY SATISFIED AND ACCEPTED SEE NOTES ON BOLTING AND GROUTING PLAN DRAWING CXT-8528-T114-100 & 101
- 8) REFER TO BOLTING AND GROUTING DRAWING CXT-8528-T114-100 & 101 FOR FOUNDATION BOLTING PLAN
- 9) THE SUPPLY OF FOUNDATION BOLTS BY CXT AND ALL CIVILS BY LITWIN

C	24.03.09	EXHAUST CHANGED, INTAKE UPDATED	PDB	FDE	RMW	RNU	FH	JH		
B	01.11.08	AMMEDDED TITLE	PDB	FDE	RMW	RNU	FH	JH		
A	16.09.08	FIRST ISSUE	PDB	FDE	RW	RNU	RKU	JH		
INICE ISSUE	DATE	DESCRIPTION DESCRIPTION	ETABLI AUTHOR	SIGN VISA	VÉRIFIER CHECKED	SIGN APPROUVE VISA APPROVED	SIGN APPROVED	SIGN VISA		
<h1 style="color:blue;">FRAGANLYS</h1>										
<h2 style="color:red;text-decoration:underline;">PROJIS</h2>			Eurosquare 1 155,bd Victor Hugo - 93400 Saint Ouen <u>Téléphone :</u> 0 149 215 707 <u>Télécopie :</u> 0 149 215 706 www.gazefrance.com							
<h1 style="color:red;">CENTRAX</h1> <p>Centrax Power Projects Limited Shilton Road, Newton Abbot Devon TQ12 4SD England centerax.esu.com</p>			 Litwin 13/15, rue Edouard Manet 92504 Rueil-Malmaison Cedex Téléphone : 0 172 255 252 Télécopie : 0 172 255 250							
CENTRAX Contract N° : C8528				LITWIN Contract N° : 5537.00						
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TITRE DU PLAN /TITLE										
MEC-DWG-GENSET GENERAL ARRANGEMENT GENSET AIR FILTRATION, ACOUSTICS, VENTS & CHIMNEY RH										
ECH. SCALE:	N.T.S	FORMAT: SIZE:	A1	NUMERO DE PLAN / DRAWING NUMBER					REV :	C
ETAT : STATUS :				6C427 CXT-8528-SEC-T109-100					SHEET:	
								1 OF 10		

NOTES:-

1. THIS LIST DOES NOT SHOW ALL ELECTRICAL CONNECTIONS TO GCPP

APPROXIMATE DRY WEIGHT OF MAJOR COMPONENTS:

A. GAS TURBINE COMBUSTION AIR INLET FILTER (COMPLETE)....19615

1. LOWER COMBUSTION PLENUM.....	2550
2. UPPER COMBUSTION PLENUM.....	2550
3. LOWER COMBUSTION BEND.....	2820
4. UPPER COMBUSTION BEND.....	4550
5. LOWER FILTER ASSY.....	3410
6. UPPER FILTER ASSY.....	3535

B. GAS TURBINE MODULE (AS SHIPPED).....70000	
(W/O GAS TURBINE)	

1. GAS TURBINE BASE PLATE.....	21852
2. EXHAUST HOOD (DIFFUSER).....	7689
3. EXHAUST TRANSITION.....	1970
4. GAS TURBINE ENCLOSURE.....	48554
5. COMBUSTION AIR RADIAL INTAKE PLENUM.....	3642

C. GAS TURBINE	
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1. TRENT GAS TURBINE.....	13591
2. 3 WAY SPLIT	
A. LP COMPRESSOR.....	3124
B. CORE.....	6370
C. LP TURBINE.....	4097

D. GAS TURBINE ENCLOSURE COMPONENTS

1. G.T. ENCLOSURE ROOF MODULE.....	37559
2. G.T. ENCLOSURE WALL PANELS (INCL IN B4).....	11000

E. GAS TURBINE ENCLOSURE VENT / COMBUSTION AIR COMPONENTS

1. VENT. OUTLET SILENCER.....	2120
2. VENT. SECONDARY BLEED SILENCER.....	693
3. VENT. OUTLET FAN (3 TOTAL).....	4950
4. ACAC COOLER.....	940

F. GAS TURBINE ENCLOSURE BLEED COMPONENTS

1. PRIMARY BLEED SILENCER.....	2540
2. SECONDARY BLEED SILENCER.....	693
3. BLEED OUTLET DUCT.....	685

G. AC GENERATOR MODULE (AS SHIPPED).....105257	
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1. AC GENERATOR BASE PLATE.....	13683
2. AC GENERATOR.....	78100
3. AC GENERATOR ROTOR.....	14413
4. AC GENERATOR ENCLOSURE.....	6400

[illegible][illegible]

J. AC GENERATOR ENCLOSURE VENTILATION COMPONENTS									
C	24.03.09	EXHAUST CHANGED, INTAKE UPDATED	PUB	PDS	RMW	RMW	HH	JCH	

1. VENT. INLET DUCT.....	1800
2. VENT. EXHAUST DUCTS.....	900

K. G.T. MECHANICAL HANDLING SKID.....	2874
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L. C02 SKID (GAS TURBINE).....1951

M. G.T. WATER INJECTION SKID.....3335

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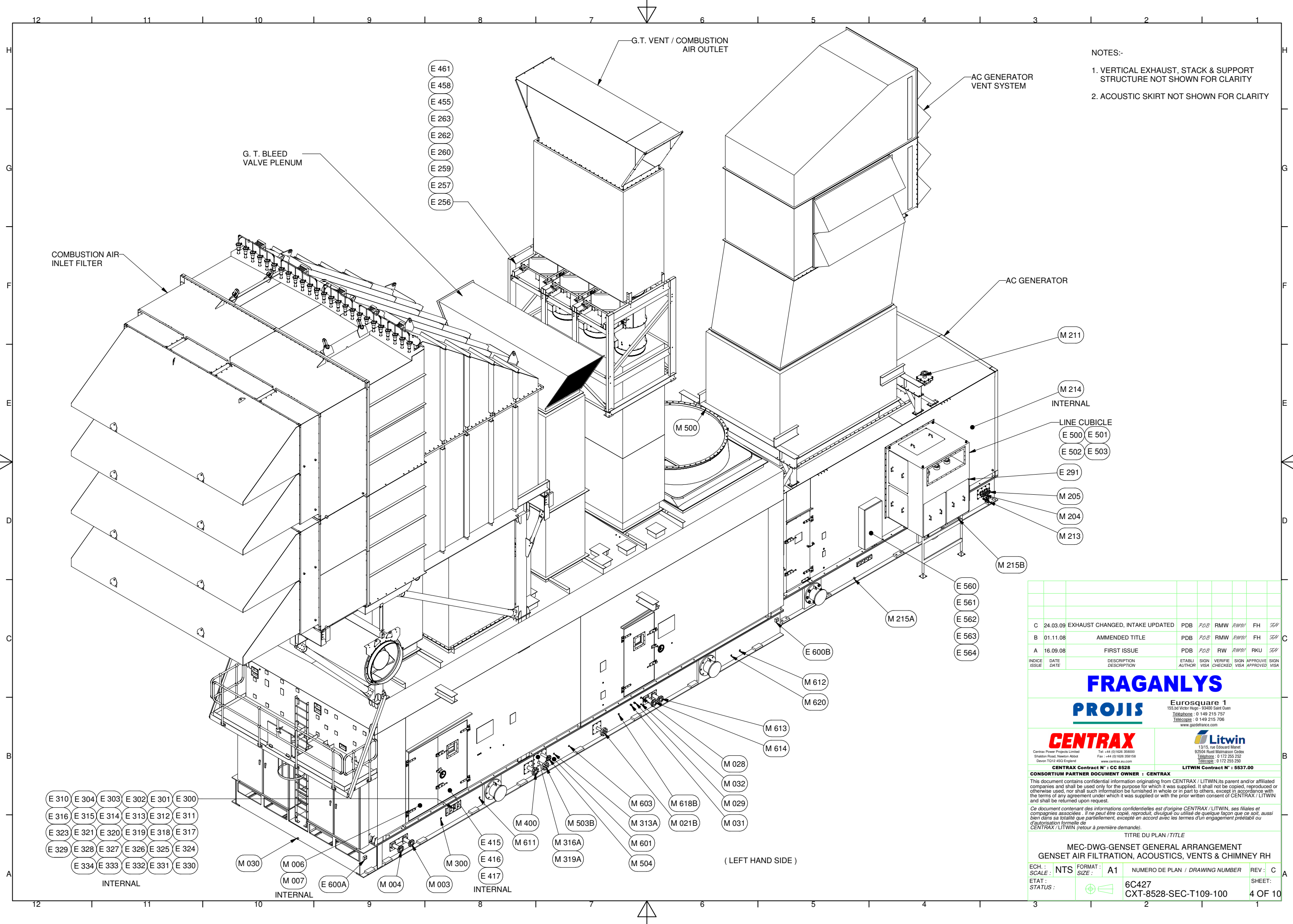
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3	1.2 Méthodologie
4	2. Résultats
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MEC-DWG-GENSET GENERAL ARRANGEMENT
GENSET AIR FILTRATION, ACOUSTICS, VENTS & CHIMNEY RH

ECH.: SCALE:	NTS	FORMAT: SIZE:	A1	NUMERO DE PLAN / <i>DRAWING NUMBER</i>	REV.: C
ETAT: STATUS:				6C427 CXT-8528-SEC-T109-100	SHEET: 3 OF 10



NOTES:-

1. VERTICAL EXHAUST, STACK & SUPPORT STRUCTURE NOT SHOWN FOR CLARITY

2. ACOUSTIC SKIRT NOT SHOWN FOR CLARITY

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B	01.11.08	AMMENDED TITLE	PDB	FDB	RMW	RWW	FH	TH
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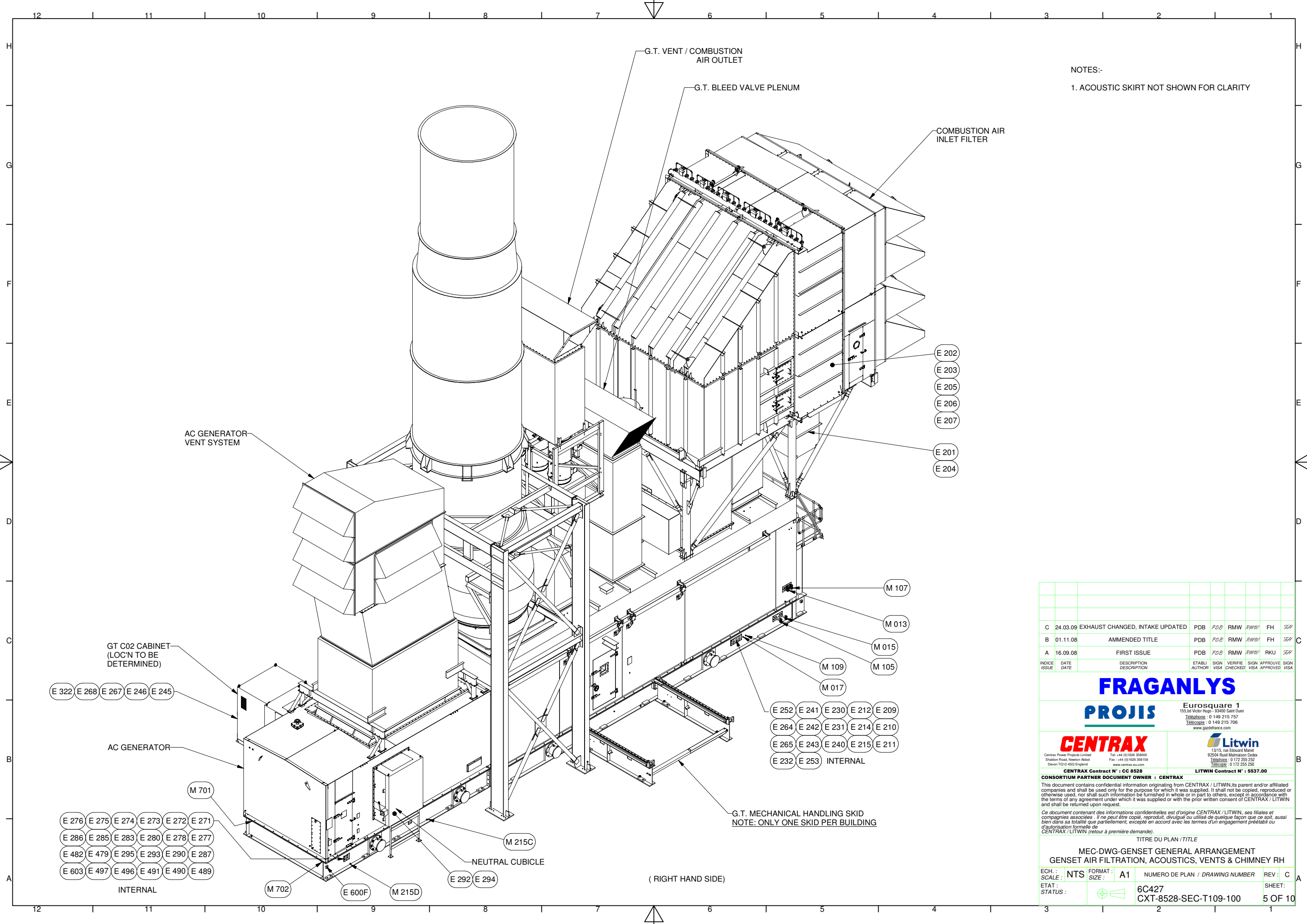
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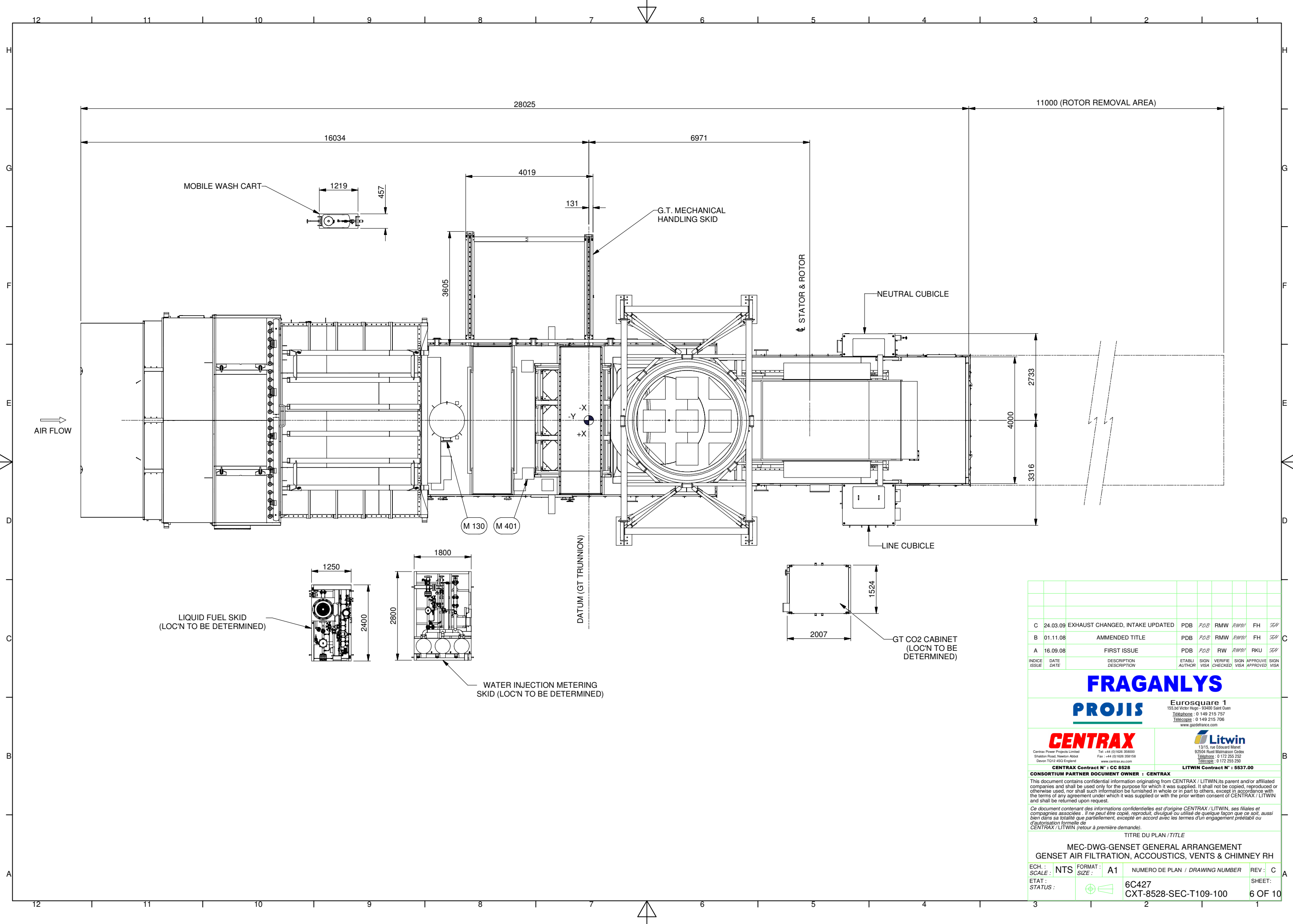
**MEC-DWG-GENSET GENERAL ARRANGEMENT
GENSET AIR FILTRATION, ACOUSTICS, VENTS & CHIMNEY RH**

ECH. : NTS	FORMAT : A1	NUMERO DE PLAN / DRAWING NUMBER	REV : C
SCALE : NTS	SIZE : A1	6C427	SHEET: 4 OF 10
ETAT :		CXT-8528-SEC-T109-100	
STATUS :			



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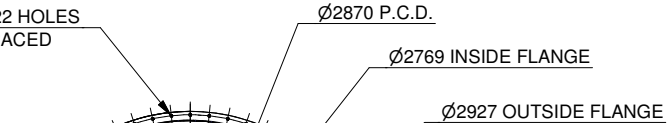
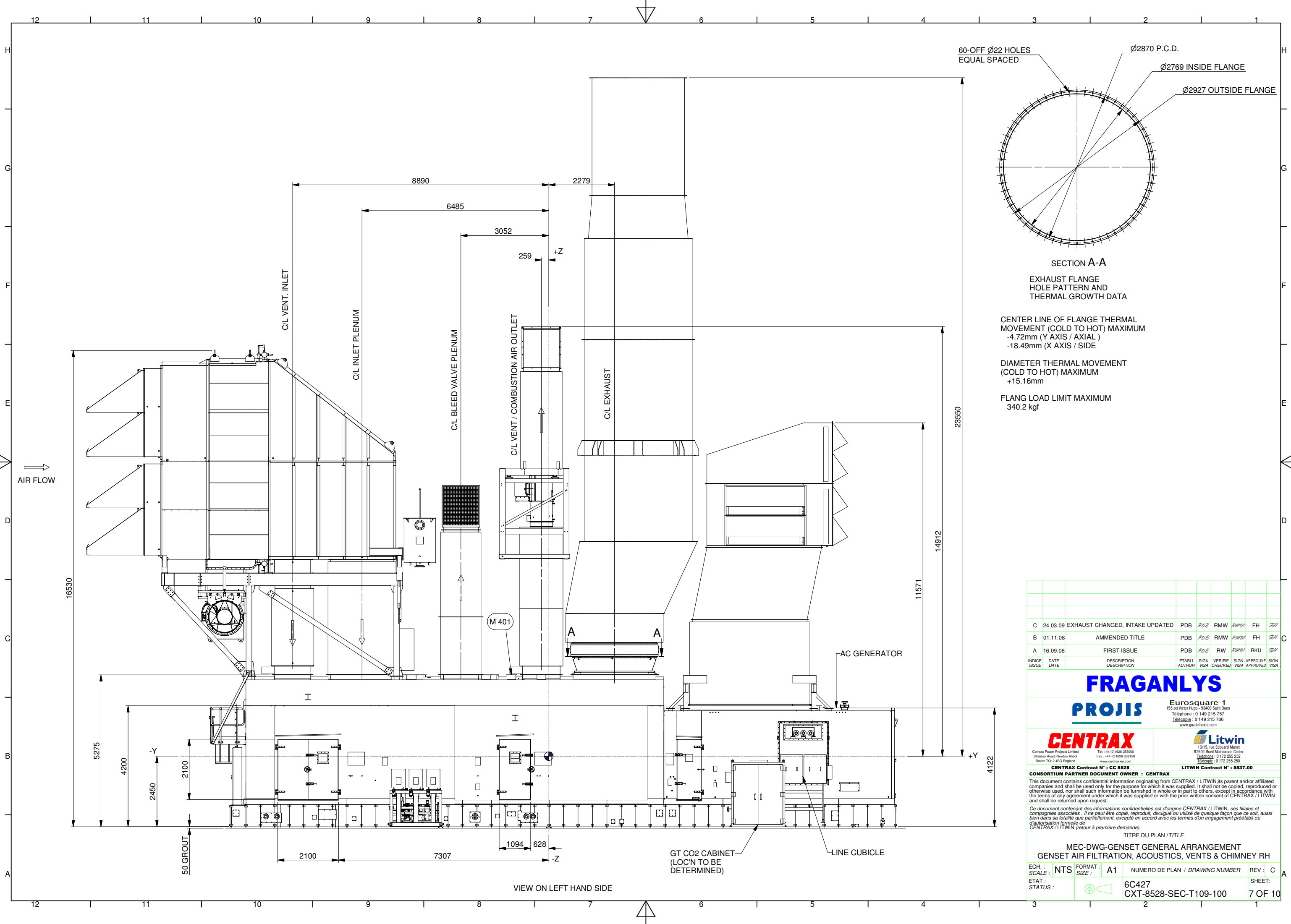
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TITRE DU PLAN / TITLE

MEC-DWG-GENSET GENERAL ARRANGEMENT
GENSET AIR FILTRATION, ACCOUSTICS, VENTS & CHIMNEY RH

ECH. : NTS	FORMAT : A1	NUMERO DE PLAN / DRAWING NUMBER	REV : C
SCALE : NTS	SIZE : A1	6C427	SHEET: 6 OF 10
STATUS :		CXT-8528-SEC-T109-100	



SECTION A-A
EXHAUST FLANGE
HOLE PATTERN AND
THERMAL GROWTH DATA

CENTER LINE OF FLANGE THERMAL
MOVEMENT (COLD TO HOT) MAXIMUM
-4.72mm (Y AXIS / AXIAL)
-18.49mm (X AXIS / SIDE)

DIAMETER THERMAL MOVEMENT
(COLD TO HOT) MAXIMUM
+15.16mm

FLANG LOAD LIMIT MAXIMUM
340.2 kgf

C	24.03.09	EXHAUST CHANGED, INTAKE UPDATED	PDB	<i>PDB</i>	RMW	<i>RMW</i>	FH	<i>FH</i>
B	01.11.08	AMMENDED TITLE	PDB	<i>PDB</i>	RMW	<i>RMW</i>	FH	<i>FH</i>
A	16.09.08	FIRST ISSUE	PDB	<i>PDB</i>	RW	<i>RMW</i>	RKU	<i>FH</i>

INDICE	DATE	DESCRIPTION	ETABLI	SIGN	VERIFIE	SIGN	APPROUVE
ISSUE	DATE	DESCRIPTION	AUTHOR	VISA	CHECKED	VISA	APPROVED

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CENTRAX Contract N° : CC 8528
LITWIN Contract N° : 5537.00

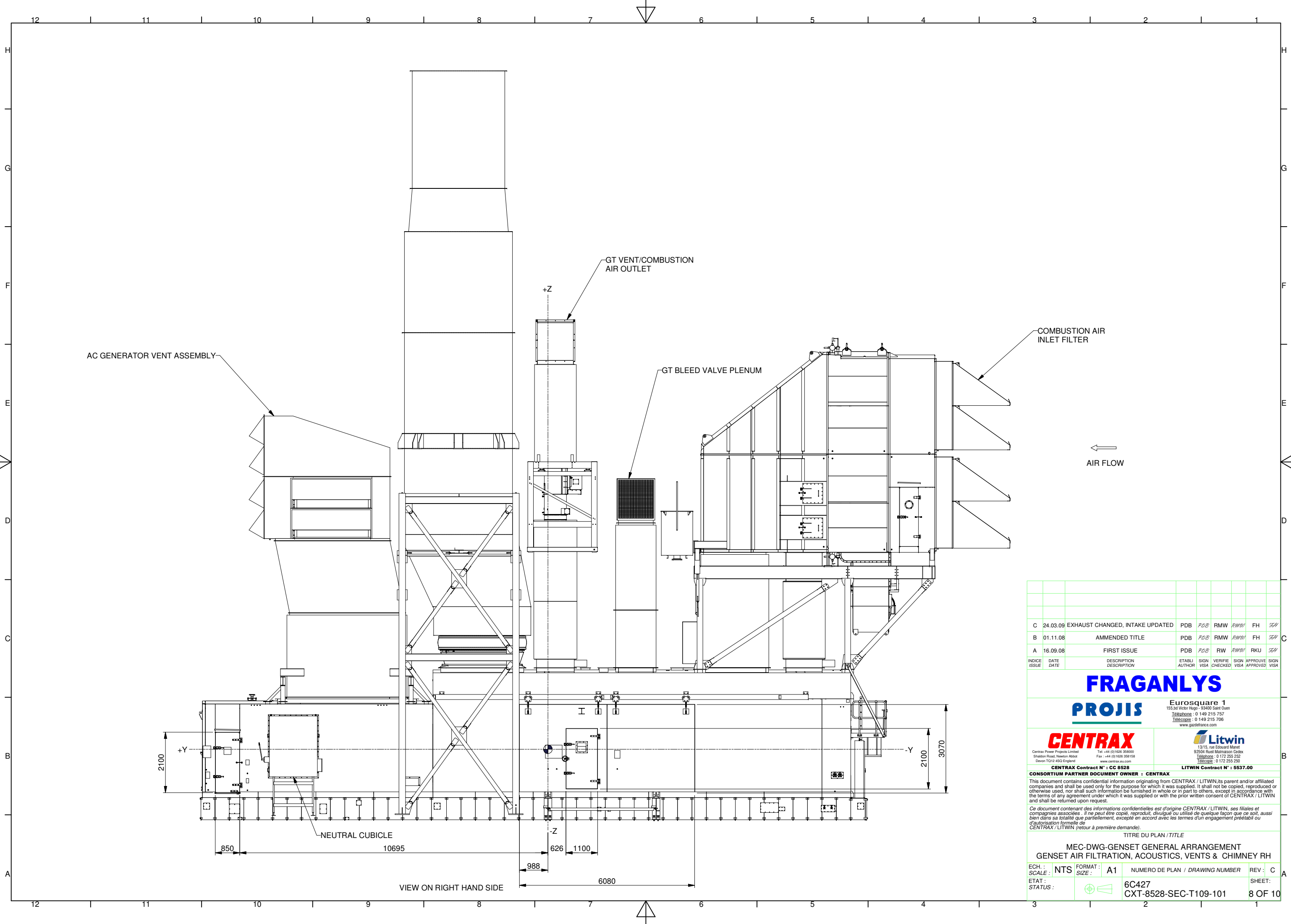
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C	24.03.09	EXHAUST CHANGED, INTAKE UPDATED	PDB	FDB	RMW	RWW	FH	TH
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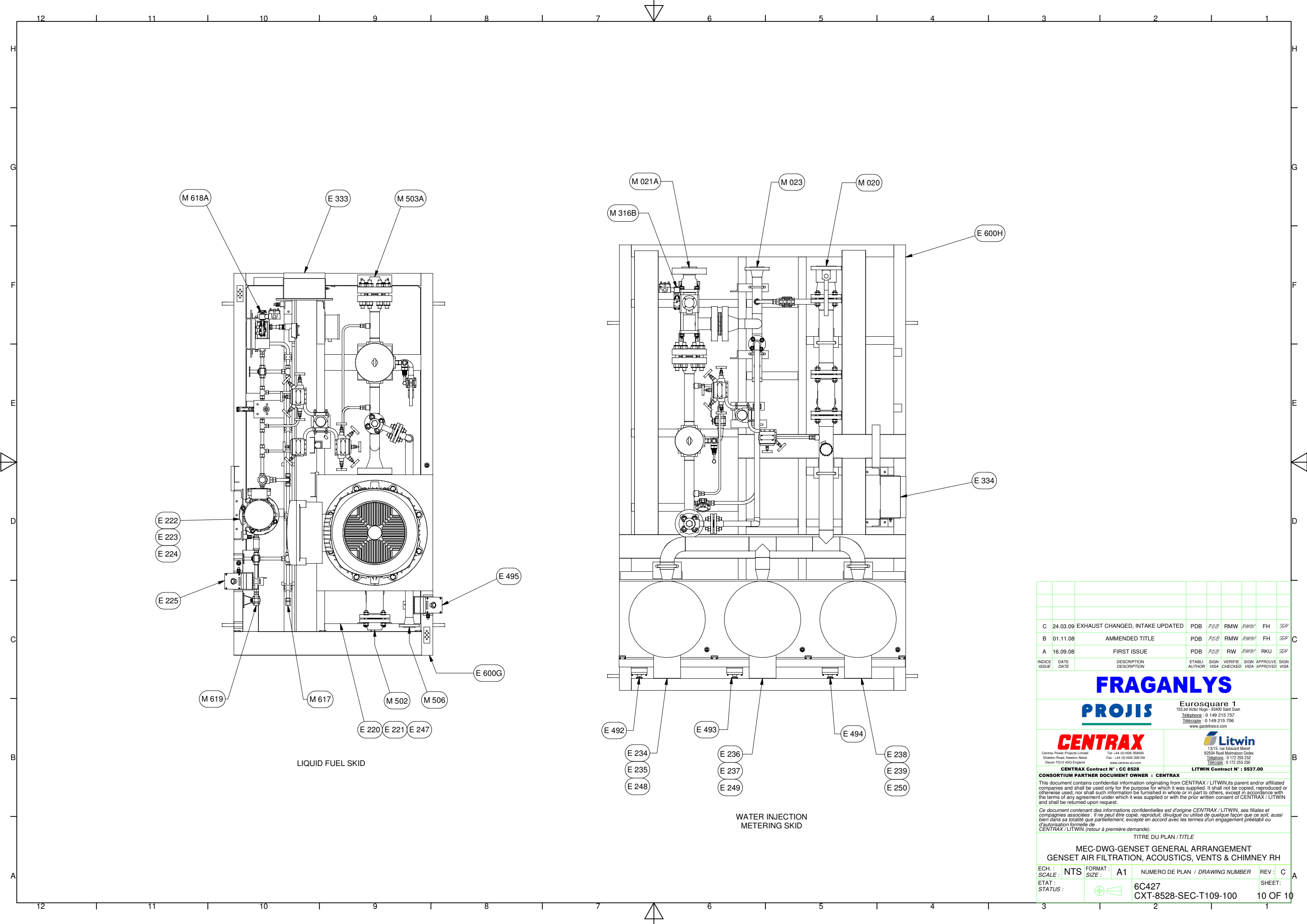
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GENSET AIR FILTRATION, ACOUSTICS, VENTS & CHIMNEY RH**

ECH. : SCALE : STAT :	NTS SIZE :	FORMAT : A1	NUMERO DE PLAN / DRAWING NUMBER 6C427 CXT-8528-SEC-T109-101	REV : C SHEET : 8 OF 10
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