D	15/05/18	L.LAZARTE Support Engr	R. HAFFN Proj. En		D4		Incorporate UK6301BI R			R. GOULD Sr. Design Engr.
С	30/01/18	L.LAZARTE Support Engr			D3		Incorporate UK6301BI R			P. Cunningham Proj. Manager
В	29/11/17	L.LAZARTE Support Engr	. Proj. En	gr.	D3		Ameno	led Tem	plate	S. BOARDMAN Eng. Mgr.
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	REVISIONS				
Revision	Date	Description			
Α	05/10/2017	First Issue			
В	29/11/2017	Amended template			
С	30/01/2018	Incorporate comments from UK6301BEC00030BEOL - RD FOB			
D	15/05/2018	Incorporate comments from UK6301BEC00080BEOL - RD FOB			



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1	DATASHEET TYPE A1	 	
1.0	REFERENCES		
1.1	APG7103FI DATASHEET		
1.2	APG7113FI DATASHEET		
1.3	APG8240FI DATASHEET		 8
1 1	ADG9290ELDATASHEET		10



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HPC-101836/09/002

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DATASHEET TYPE A1 1

1.0 REFERENCES

- [1] HPC-ECEMAX-AU-ALL-SPT-000356, Rev G, Contract UK6301 - BNI Filters - Book of Special Technical Specifications (BSTS)
- HPC-ECEMAX-AU-ALL-SPT-001248, Rev D, UK6301 BNI Filters LDRC
- HPC-ECECSX-AU-APG-NOT-000586, Rev B, Steam Generator Blowdown System (APG [SGBS]) Sizing Report
- HPC-ECECSX-AU-APG-SDM-000505, Rev B, SDM APG [SGBS]: P4 System Flow Diagram EDEEM120122, Rev C, UK EPR Conformity Assessment Process and Safety Requirements for Nuclear Pressure Equipment HPC-UK6301-U0-ALL-CHR-100005-A- Exemption Request for Bolting Material [5]

1.1 **APG7103FI DATASHEET**

1.1.1 **Supplier Feedback**

Requirement Data Sheet reference and revision	HPC-CNENXX-AU-ALL-DTS-200758 Rev C
Installation plan reference	HPC-UK6301-AU-APG-DRW-100002 Rev B
Mechanical & hydraulic calculation note	HPC-UK6301-AU-APG-CAL-100002 Rev C/ HPC-UK6301-U0-ALL-CAL-100007 Rev B

Manufacturing Data

Outer diameter	508	mm
Overall length (without nozzles)	1649	mm
Shell length	1138	mm
Type of head / bottom	FLAT/TORISPHERICAL	
Length of filter elements	765	mm
Diameter of filter elements	67	mm
Quantity of filter elements	27	
Dimensions of assembled filter element	Ø488 X 882	L*I*h
Weight of the basket	82	Kg
Total weight in operation condition	741	Kg

General Design Parameters 1.1.1.2

Design and manufacturing code	EN 13445-2009 + Addenda 2011	
Design Pressure	-1/20	bar g
Design Temperature	0/100	°C
Test pressure	28.6	bar g
Test temperature	20	°C
PER category	0	
Special test (helium, vacuum,)	N/A	
Maximum Allowable Weight Empty	491	kg
Maximum Allowable Weight During operation	741	kg
Maximum Allowable Weight During pressure test	741	kg
Lifespan	60	years

Nominal range of mass flow rate	N/A	kg/s
Pressure drop at nominal flow rate	N/A	bar
Max. allowable ΔP across filter element for a clean filter (according to EN 13443-2)	0.105	bar



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Max. allowable ΔP across filter element for a fouled filter	2.5	bar
Filtration rate (according to EN 13443-2)	1	μm
Retention efficiency (according to EN 13443-2)	99.98	%

1.1.1.3 Miscellaneous

Insulation	No
Heating / Tracing	No

1.1.1.4 Materials and Coating

Shell material	EN 1.4301/1.4307-Dual Certified		
Head material	EN 1.4301/1.4307-Dual Certified		
Other pressure retaining parts	EN 1.4301/1.4307-Dual Certified		
Internals	EN 1.4301/1.4307-Dual Certified		
Filter element	304 stainless steel end caps & core, epoxy resin bonded; acrylic bonded glass fibre media, PP netting; EPDM gaskets		
Bolts – pressure connecting parts	Z5CND17-12 ^[6]		
Nuts – pressure connecting parts	X12Cr13		
Washers – pressure connecting parts	A2		
Seals / gaskets	EPDM (EP18/H/75))		
Surface protection inside	Pickled and Passivated		
Surface protection outside	Pickled and Passivated		
Surface protection bolts/nuts	N/A		
External coating series (PIC, PID) according to SCW	N/A		



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1.2 APG7113FI DATASHEET

1.2.1 SUPPLIER FEEDBACK

Requirement Data Sheet reference and revision	HPC-CNENXX-AU-ALL-DTS-200758 Rev C
Installation plan reference	HPC-UK6301-AU-APG-DRW-100002 Rev B
Mechanical & hydraulic calculation note	HPC-UK6301-AU-APG-CAL-100002 Rev C/ HPC-UK6301-U0-ALL-CAL-100007 Rev B

1.2.1.1 Manufacturing Data

Outer diameter	508	mm
Overall length (without nozzles)	1649	mm
Shell length	1138	mm
Type of head / bottom	FLAT/TORISPHERICAL	
Length of filter elements	765	mm
Diameter of filter elements	67	mm
Quantity of filter elements	27	
Dimensions of assembled filter element	Ø488 X 882	L*I*h
Weight of the basket	82	Kg
Total weight in operation condition	741	Kg

1.2.1.2 General Design Parameters

Design and manufacturing code	EN 13445-2009 + Addenda 2011	
Design Pressure	-1/20	bar g
Design Temperature	0-100	°C
Test pressure	28.6	bar g
Test temperature	20	°C
PER category	0	
Special test (helium, vacuum,)	N/A	
Maximum Allowable Weight Empty	491	kg
Maximum Allowable Weight During operation	741	kg
Maximum Allowable Weight During pressure test	741	kg
Lifespan	60	years
Nominal range of mass flow rate	N/A	kg/s
Pressure drop at nominal flow rate	N/A	bar
Max allowable AP across filter element for a clean filter		

Nominal range of mass flow rate	IN/A	kg/s
Pressure drop at nominal flow rate	N/A	bar
Max. allowable ΔP across filter element for a clean filter (according to EN 13443-2)	0.105	bar
Max. allowable ΔP across filter element for a fouled filter	2.5	bar
Filtration rate (according to EN 13443-2)	1	μm
Retention efficiency (according to EN 13443-2)	99.98	%



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Add checking cases data if any.

1.2.1.3 Miscellaneous

Insulation	No
Heating / Tracing	No

1.2.1.4 Materials and Coating

Shell material	EN 1.4301/1.4307-Dual Certified
Head material	EN 1.4301/1.4307-Dual Certified
Other pressure retaining parts	EN 1.4301/1.4307-Dual Certified
Internals	EN 1.4301/1.4307-Dual Certified
Filter element	304 stainless steel end caps & core, epoxy resin bonded; acrylic bonded glass fibre media, PP netting; EPDM gaskets
Bolts – pressure connecting parts	Z5CND17-12 ^[6]
Nuts – pressure connecting parts	X12Cr13
Washers – pressure connecting parts	A2
Seals / gaskets	EPDM (EP18/H/75))
Surface protection inside	Pickled and Passivated
Surface protection outside	Pickled and Passivated
Surface protection bolts/nuts	N/A
External coating series (PIC, PID) according to SCW	N/A



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1.3 APG8240FI DATASHEET

1.3.1 SUPPLIER FEEDBACK

Requirement Data Sheet reference and revision	HPC-CNENXX-AU-ALL-DTS-200758 Rev C
Installation plan reference	HPC-UK6301-AU-APG-DRW-100003 Rev C
Mechanical & hydraulic calculation note	HPC-UK6301-AU-APG-CAL-100003 Rev C/ HPC-UK6301-U0-ALL-CAL-100007 Rev B

1.3.1.1 Manufacturing Data

Outer diameter	457	mm
Overall length (without nozzles)	1326	mm
Shell length	829	mm
Type of head / bottom	FLAT/TORISPHERICAL	
Length of filter elements	508	mm
Diameter of filter elements	67	mm
Quantity of filter elements	18	
Dimensions of assembled filter element	Ø437 X 623	L*I*h
Weight of the basket	56	Kg
Total weight in operation condition	649	Kg

1.3.1.2 General Design Parameters

Design and manufacturing code	EN 13445-2009-ADDENDA 2011	
Design Pressure	-1/20	bar g
Design Temperature	0/100	°C
Test pressure	28.6	bar g
Test temperature	20	°C
PER category	0	
Special test (helium, vacuum,)	N/A	
Maximum Allowable Weight Empty	501	kg
Maximum Allowable Weight During operation	649	kg
Maximum Allowable Weight During pressure test	649	kg
Lifespan	60	years

Nominal range of mass flow rate	N/A	kg/s
Pressure drop at nominal flow rate	N/A	bar
Max. allowable ΔP across filter element for a clean filter (according to EN 13443-2)	0.060	bar
Max. allowable ΔP across filter element for a fouled filter	2.5	bar
Filtration rate (according to EN 13443-2)	5	μm
Retention efficiency (according to EN 13443-2)	99.98	%

1.3.1.3 Miscellaneous



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Insulation	No
Heating / Tracing	No

1.3.1.4 Materials and Coating

Shell material	EN 1.4301/1.4307-Dual Certified	
Head material	EN 1.4301/1.4307-Dual Certified	
Other pressure retaining parts	EN 1.4301/1.4307-Dual Certified	
Internals	EN 1.4301/1.4307-Dual Certified	
Filter element	304 stainless steel end caps & core, epoxy resin bonded; acrylic bonded glass fibre media, PP netting; EPDM gaskets	
Bolts – pressure connecting parts	Z5CND17-12 ^[6]	
Nuts – pressure connecting parts	X12 Cr13	
Washers – pressure connecting parts	A2	
Seals / gaskets	EPDM (EP 18/H/75)	
Surface protection inside	Pickled & Passivated	
Surface protection outside	Pickled & Passivated	
Surface protection bolts/nuts	N/A	
External coating series (PIC, PID) according to SCW	N/A	



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1.4 APG8280FI DATASHEET

1.4.1 SUPPLIER FEEDBACK

Requirement Data Sheet reference and revision	HPC-CNENXX-AU-ALL-DTS-200758 Rev C
Installation plan reference	HPC-UK6301-AU-APG-DRW-100003 Rev C
Mechanical & hydraulic calculation note	HPC-UK6301-AU-APG-CAL-100003 Rev C/ HPC-UK6301-U0-ALL-CAL-100007 Rev B

1.4.1.1 Manufacturing Data

Outer diameter	457	mm
Overall length (without nozzles)	1326	mm
Shell length	829	mm
Type of head / bottom	FLAT/TORISPHERICAL	
Length of filter elements	508	mm
Diameter of filter elements	67	mm
Quantity of filter elements	18	
Dimensions of assembled filter element	Ø437 X 623	L*I*h
Weight of the basket	56	Kg
Total weight in operation condition	649	Kg

1.4.1.2 General Design Parameters

Design and manufacturing code	EN 13445-2009-ADDENDA 2011	
Design Pressure	-1/20	bar g
Design Temperature	0/100	°C
Test pressure	28.6	bar g
Test temperature	20	°C
PER category	0	
Special test (helium, vacuum,)	N/A	
Maximum Allowable Weight Empty	501	kg
Maximum Allowable Weight During operation	649	kg
Maximum Allowable Weight During pressure test	649	kg
Lifespan	60	years
Nominal range of mass flow rate	N/A	kg/s
Pressure drop at nominal flow rate	N/A	bar
Max. allowable P across filter element for a clean filter (according to EN 13443-2)	0.060	bar
Max. allowable P across filter element for a fouled filter	2.5	bar
Filtration rate (according to EN 13443-2)	5	μm
Retention efficiency (according to EN 13443-2)	99.98	%

Add checking cases data if any.



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1.4.1.3 Miscellaneous

Insulation	No
Heating / Tracing	No

1.4.1.4 Materials and Coating

hell material EN 1.4301/1.4307-Dual Cer		
Head material	EN 1.4301/1.4307-Dual Certified	
Other pressure retaining parts	EN 1.4301/1.4307-Dual Certified	
Internals	EN 1.4301/1.4307-Dual Certified	
Filter element	304 stainless steel end caps & core, epoxy resin bonded; acrylic bonded glass fibre media, PP netting; EPDM gaskets	
Bolts – pressure connecting parts	Z5CND17-12 ^[6]	
Nuts – pressure connecting parts	X12 Cr13	
Washers – pressure connecting parts	A2	
Seals / gaskets	EPDM (EP 18/H/75)	
Surface protection inside	Pickled & Passivated	
Surface protection outside	Pickled & Passivated	
Surface protection bolts/nuts	N/A	
External coating series (PIC, PID) according to SCW	N/A	