Base Load Power Hub (BLPH)

Mechanical Equipment List

Document Number: 123A90-DDL-MAC-LIS-50000

Document Class: 2

01	04/11/2024	Accepted for Construction (AFC)	F.Mura	M.Marchetti	D. Lo Sterzo
00	25/07/2024	Issue for Review (IFR)	F.Mura	M.Marchetti	D. Lo Sterzo
Rev.	Date	Description	Prepared	Reviewed	Approved

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Revision / Change Log

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00	ISSUE FOR REVIEW (IFR)
01	ACCEPTED FOR CONDTRUCTION (AFC)

HOLDS LIST

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GENERAL NOTES

a) Symbol '-' means that no more information is to come form equipment supplyer

b) TAG management criterion is explained in doc 123A90-PML-DIG-PRO-00002 - Equipment and System Tag Numbering"

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PUMPS

Parent Tag	Item	Quantity	Description	Area/Location	Class/Subclass	Discipline	Driver type	Driver installed power [kW]	P&ID No	Fluid	Design Code	Variable Speed	Design Capacity [m3/h]	Design Pressure [barg]	Design Temperature [°C]	Discharge Pressure [barg]	Differential Pressure [barg]	Operating Temp [°C]	MOC Casing	MOC Impeller	MOC Shaft	NPSH Available [m]	Calculated Differential Head [m]	Sealing Type	Width [mm]	Height [mm]	Dry Weight [kg]	Insulation Type	Vendor	Manufacturer	Remarks
N/A	P-50001A	1	Sea water lift progressive cavity pump	Under Lower Deck	Pump / Volumetric	MECH	El. Motor	5.5	123A90-DDL-PR-PID-80021	Sea Water	API 676	NO	33	20	20	5,3	8,28	20	Super Duplex SS	Super Duplex SS	Super Duplex SS	7	530	Mechanical Single + Plan 51	533	32170	1953	N/A	PCM	PCM	Indicated Diff. Pressure referes to discharge flange on pump body needed to endure 5.3 bar discharge pressure at flange on top above the mounting flange
N/A	P-50001B	1	Sea water lift progressive cavity pump	Under Lower Deck	Pump / Volumetric	MECH	El. Motor	5.5	123A90-DDL-PR-PID-80021	Sea Water	API 676	NO	33	20	20	5,3	8,28	20	Super Duplex SS	Super Duplex SS	Super Duplex SS	7	530	Mechanical Single + Plan 51	533	32170	1953	N/A	PSC	PCM	Indicated Diff. Pressure referes to discharge flange on pump body needed to endure 5.3 bar discharge pressure at flange on top above the mounting flange
A-50000	P-50009A	1	Fresh Water Pumps	Lower Deck	Pump / Centrifugal	MECH	El. Motor	0,37	1724000448-PR-PID-00013	Fresh Water	Mfr.Standard	NO	11,00	25,00	120,00	6,30	5,20	25,00	AISI 316	AISI 316	AISI 316	7	52	MECHANICAL SINGLE	250	635	25,00	N/A	PSC	GRUNDFOS	
A-50000	P-50009B	1	Fresh Water Pumps	Lower Deck	Pump / Centrifugal	MECH	El. Motor	0,37	1724000448-PR-PID-00013	Fresh Water	Mfr.Standard	NO	11,00	25,00	120,00	6,30	5,20	25,00	AISI 316	AISI 316	AISI 316	7	52	MECHANICAL SINGLE	250	635	25,00	N/A	PSC	GRUNDFOS	
A-50000	P-50002A	1	Backwash Pump	Lower Deck	Pump / Centrifugal	MECH	El. Motor	1,10	1724000448-PR-PID-00013	Sea Water	Mfr.Standard	NO	23,00	6,00	60,00	2,60	1,50	25,00	PP	PVDF	AISI 203	10,4	14,5	MECHANICAL SINGLE	205	275	18,80	N/A	PSC	GEMMECOTTI	Part of SWRO A-50007A/B
A-50000	P-50002B	1	Backwash Pump	Lower Deck	Pump / Centrifugal	MECH	El. Motor	1,10	1724000448-PR-PID-00013	Sea Water	Mfr.Standard	NO	23,00	6,00	60,00	2,60	1,50	25,00	PP	PVDF	AISI 203	10,4	14,5	MECHANICAL SINGLE	205	275	18,80	N/A	PSC	GEMMECOTTI	Part of SWRO A-50007A/B
A-50000	P-50003A	1	Booster Pump	Lower Deck	Pump / Volumetric	MECH	El. Motor	4,00	1724000448-PR-PID-00013	Sea Water	Mfr.Standard	NO	9,00	6,00	60,00	5,10	4,00	25,00	PP	PVDF	AISI 203	10,4	41,2	MECHANICAL SINGLE	250	307	21,00	N/A	PSC	GEMMECOTTI	Part of SWRO A-50007A/B
A-50000	P-50003B	1	Booster Pump	Lower Deck	Pump / Volumetric	MECH	El. Motor	4,00	1724000448-PR-PID-00013	Sea Water	Mfr.Standard	NO	9,00	6,00	60,00	5,10	4,00	25,00	PP	PVDF	AISI 203	10,4	41,2	MECHANICAL SINGLE	250	307	21,00	N/A	PSC	GEMMECOTTI	Part of SWRO A-50007A/B
A-50000	P-50004A	1	High Pressure Pump	Lower Deck	Pump / Volumetric	MECH	El. Motor	7,50	1724000448-PR-PID-00013	Sea Water	Mfr.Standard	NO	2,00	83,00	50,00	63,50	59,50	25,00	DUPLEX SS	DUPLEX SS	DUPLEX SS	30	595	MECHANICAL SINGLE	256	321	66,50	N/A	PSC	DANFOSS	Part of SWRO A-50007A/B
A-50000	P-50004B	1	High Pressure Pump	Lower Deck	Pump / Volumetric	MECH	El. Motor	7,50	1724000448-PR-PID-00013	Sea Water	Mfr.Standard	NO	2,00	83,00	50,00	63,50	59,50	25,00	DUPLEX SS	DUPLEX SS	DUPLEX SS	30	595	MECHANICAL SINGLE	256	321	66,50	N/A	PSC	DANFOSS	Part of SWRO A-50007A/B
A-50000	P-50005A	1	Caustic Soda Dosing Pump	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Caustic Soda	Mfr.Standard	NO	0.0001	10	45	5.3	5.3	25	PVC	PVDF	N/A	7	53	N/A	168	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B
A-50000	P-50005B	1	Caustic Soda Dosing Pump	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Caustic Soda	Mfr.Standard	NO	0.0001	10	45	5.3	5.3	25	PVC	PVDF	N/A	7	53	N/A	168	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B
A-50000	P-50006A	1	Antiscalant Dosing Pump	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Antiscalant	Mfr.Standard	NO	0.0001	10	45	5.3	5.3	25	PVC	PVDF	N/A	7	53	N/A	168	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B
A-50000	P-50006B	1	Antiscalant Dosing Pump	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Antiscalant	Mfr.Standard	NO	0.0001	10	45	5.3	5.3	25	PVC	PVDF	N/A	7	53	N/A	168	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B
A-50000	P-50007A	1	Biocide Dosing Pump to Container Inlet	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Biocide	Mfr.Standard	NO	0.0006	10,00	45	4.5	4.5	25	PVC	PVDF	N/A	7	38	N/A	280	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B
A-50000	P-50007B	1	Biocide Dosing Pump to Container Inlet	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Biocide	Mfr.Standard	NO	0.0006	10,00	45	4.5	4.5	25	PVC	PVDF	N/A	7	38	N/A	280	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B
A-50000	P-50008A	1	Biocide Dosing Pump to Sea Water Intake	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Biocide	Mfr.Standard	NO	0.0006	10,00	45	4.5	4.5	25	PVC	PVDF	N/A	7	38	N/A	280	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B
A-50000	P-50008B	1	Biocide Dosing Pump to Sea Water Intake	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Biocide	Mfr.Standard	NO	0.0006	10,00	45	4.5	4.5	25	PVC	PVDF	N/A	7	38	N/A	280	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B
A-50000	P-50010A	1	Biocide Dosing Pump to WWT	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Biocide	Mfr.Standard	NO	0.0006	10,00	45	4.5	4.5	25	PVC	PVDF	N/A	7	38	N/A	280	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B
A-50000	P-50010B	1	Biocide Dosing Pump to WWT	Lower Deck	Pump / Volumetric	MECH	El. Motor	0.22	1724000448-PR-PID-00013	Biocide	Mfr.Standard	NO	0.0006	10,00	45	4.5	4.5	25	PVC	PVDF	N/A	7	38	N/A	280	201	2	N/A	PSC	GRUNDFOS	No impeller, material indicated is for membrane Part of SWRO A-5007A/B

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TANKS

Parent Tag	Item	Quantity	Description	Area/Location	Class/Subclass	Discipline	Fluid	Design Volume [m3]	Design Pressure [barg]	Design Temp. [°C]	Operating Pressure [barg]	Operating Temperature [°C]	Blanketing Required (Y/N)	MOC Shell	MOC - Bottom	MOC - Roof	Insulation Required (Y/N)	Design Code	Agitator Required	Heating Required	Diameter (mm)	Width [mm]	Height [mm]	Lenght (mm)	Dry Weight [kg]	Operating Weight [kg]	Total Weight Dry / Operating (kg)	Vendor	Manufacturer	Remarks
N/A	T-55001	1	Waste Water Tank	Below Lower Deck	TANK	MECH	Waste Water	16	atm	80	0,005	35	N	Carbon Steel	Carbon Steel	Carbon Steel	N	N/A	NO	NO	N/A	N/A	N/A	'-'	N/A	N/A	N/A	Rosetti Marino	Rosetti Marino	Embedded in the piece as a sction of a toroid ref. RM Doc n° 123A90-DDL-PP-DL-70070
A-50000	T-50006	1	Fresh Water Tank	Lower Deck	TANK	MECH	Seawater	3	atm	50	0,005	10 ÷ 23	N	Fiberglass	Fiberglass	Fiberglass	N	N/A	NO	NO	N/A	1050	1540	2300	300	3300	3300	PSC	CMP	
A-50000	T-50008	1	Filtered Sea water Tank	Lower Deck	TANK	MECH	Fresh Water	2.2	atm	50	0,005	10 ÷ 23	N	Fiberglass	Fiberglass	Fiberglass	N	N/A	NO	NO	N/A	N/A	1450	2040	200	2200	2200	PSC	CMP	
A-50000	T-50002	1	Caustic Soda Dosing Tank	Lower Deck	TANK	MECH	Caustic Soda	0.06	atm	50	0,005	10 ÷ 23	N	EPDM	EPDM	EPDM	N	N/A	NO	NO	380	N/A	680	N/A	5.5	57	57	PSC	CMP	
A-50000	T-50003	1	Antiscalant Dosing Tank	Lower Deck	TANK	MECH	Antiscalant	0.06	atm	50	0,005	10 ÷ 23	N	EPDM	EPDM	EPDM	N	N/A	NO	NO	380	N/A	680	N/A	5.5	57	57	PSC	CMP	
A-50000	T-50004	1	Biocide Dosing Tank	Lower Deck	TANK	MECH	Biocide	0.110	atm	50	0,005	10 ÷ 23	N	EPDM	EPDM	EPDM	N	N/A	NO	NO	380	N/A	680	N/A	5.6	84	84	PSC	CMP	

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DRUMS & VESSELS

Parent Tag	Item	Quantity	Description	Area/Location	Class / Subclass	Discipline	Code / Norm	P&ID	Fluid	Design Volume [m3]	Design Pressure [barg]	**Design Temp. [°C]**	Operating Pressure [barg]	Operating Temperature [°C]	Internal Diameter [mm]	Height [mm]	High High Liquid Level (mm)	Thickness Shell [mm]	Thickness Head [mm]	Support	MOC Shell	Insulation Required (Y/N)	Dry Weight [kg]	Operating Weight [kg]	Vendor Name	Manufacturer	Remarks
A-63000	D-63002B	1	Dryer Unit 2	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 1 / PED	1724000428-PR-PID-00019	Air	350	12	90	9.2	35	273	1935	N/A	'-'	'-'	Legs	AISI 316 SS	N/A	55	115	COES	COES	
A-63000	D-63002A	1	Dryer Unit 2	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 1 / PED	1724000428-PR-PID-00019	Air	350	12	90	9.2	35	273	1935	N/A	'-'	'-'	Legs	AISI 316 SS	N/A	55	115	COES	COES	
A-63000	D-63001B	1	Dryer Unit 1	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 1 / PED	1724000428-PR-PID-00019	Air	350	12	90	9.2	35	273	1935	N/A	'-'	'-'	Legs	AISI 316 SS	N/A	55	115	COES	COES	
A-63000	D-63001A	1	Dryer Unit 1	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 1 / PED	1724000428-PR-PID-00019	Air	350	12	90	9.2	35	273	1935	N/A	'-'	'-'	Legs	AISI 316 SS	N/A	55	115	COES	COES	
N/A	V-25001A	1	Hydrogen Storage Vessels	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 2 / PED	123A90-DDL-PR-PID-80015	Hydrogen	95,00	40	-10 ÷ 80	30,000	20,00	2000	15500	N/A	44	40	Saddles	LTCS	N/A	4000,00	4000,00	Brembana & Rolle	Brembana & Rolle	U-stamp
N/A	V-25001B	1	Hydrogen Storage Vessels	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 2 / PED	123A90-DDL-PR-PID-80016	Hydrogen	95,00	40	-10 ÷ 80	30,000	20,00	2000	15500	N/A	44	40	Saddles	LTCS	N/A	4000,00	4000,00	Brembana & Rolle	Brembana & Rolle	U-stamp
N/A	V-25001C	1	Hydrogen Storage Vessels	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 2 / PED	123A90-DDL-PR-PID-80017	Hydrogen	95,00	40	-10 ÷ 80	30,000	20,00	2000	15500	N/A	44	40	Saddles	LTCS	N/A	4000,00	4000,00	Brembana & Rolle	Brembana & Rolle	U-stamp
N/A	V-25001D	1	Hydrogen Storage Vessels	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 2 / PED	123A90-DDL-PR-PID-80018	Hydrogen	95,00	40	-10 ÷ 80	30,000	20,00	2000	15500	N/A	44	40	Saddles	LTCS	N/A	4000,00	4000,00	Brembana & Rolle	Brembana & Rolle	U-stamp
N/A	V-25001E	1	Hydrogen Storage Vessels	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 2 / PED	123A90-DDL-PR-PID-80019	Hydrogen	95,00	40	-10 ÷ 80	30,000	20,00	2000	15500	N/A	44	40	Saddles	LTCS	N/A	4000,00	4000,00	Brembana & Rolle	Brembana & Rolle	U-stamp
N/A	V-25001F	1	Hydrogen Storage Vessels	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 2 / PED	123A90-DDL-PR-PID-80020	Hydrogen	95,00	40	-10 ÷ 80	30,000	20,00	2000	15500	N/A	44	40	Saddles	LTCS	N/A	4000,00	4000,00	Brembana & Rolle	Brembana & Rolle	U-stamp
N/A	V-43001	1	Hydrogen Vent KO Drum	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 1 / PED	123A90-DDL-PR-PID-80029	Hydrogen	0.7	3.5	80	0,000	25,00	1000	3000	N/A	6	6	Legs	LTCS	Y - Winterisation	600,00	600,00	CAMPI	CAMPI	
P-50001A	V-50000A	1	Seal Pot Plan 51 of P-50001A	Under Lower Deck	Vessel / '-'	MECH	ASME VIII Div 1 / PED	123A90-DDL-PR-PID-80021	Fresh Water	0.007	12	-10 ÷ 93	ATM	20	'-'	1273	400	'-'	'-'	Bracket	A316	Y - Winterisation	40	45	PCM	FLOWSERVE	
P-50001B	V-50000B	1	Seal Pot Plan 51 of P-50001B	Under Lower Deck	Vessel / '-'	MECH	ASME VIII Div 1 / PED	123A90-DDL-PR-PID-80021	Fresh Water	0.007	12	-10 ÷ 94	ATM	20	'-'	1273	400	'-'	'-'	Bracket	A316	Y - Winterisation	40	45	PCM	FLOWSERVE	
A-64000	V-64001	1	N2 Receiver	Lower Deck	Vessel / '-'	MECH	ASME VIII Div 1 / PED	1724000437-PR-PID-00018	Nitrogen	11	12	90	9.2	35	2000	4684	'-'	'-'	'-'	Legs	LTCS	N/A	4000	4000	COES	COES	
A-63000	V-63001	1	Instrument Air Receiver	Upper Deck	Vessel / '-'	MECH	ASME VIII Div 1 / PED	1724000428-PR-PID-00019	Instrument Air	23.1	12	90	9	35	2500	5832	'-'	'-'	'-'	Legs	LTCS	N/A	7450	7450	COES	COES	

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FILTERS

ParentTag	Item	Quantity	Description	Area/Location	Handled Fluid	Class/Subclass	Discipline	Power [kW]	Power Supply	Height [mm]	Diameter [mm]	Width [mm]	Length [mm]	Dry Weight [kg]	Operating Weight [kg]	P&ID No	Flowrate [m3/h]	Insulation type	Material	Vendor Name	Manufacturer	Remarks
A-50000	S-50010	1	UV Sterilizer	Lower Deck	FRESH WATER	FILTER	MECH	0,04	220v/3/50Hz	930	150	160	N/A	15	150	1724000-440-PR-PID-00013	0,8	N/A	AISI 316 SS	PSC	NOBEL	
A-50000	A-50003	1	Coarse Filter	Lower Deck	SEA WATER	FILTER	MECH	0,09	220v/3/50Hz	610	190	320	N/A	7	25	1724000-440-PR-PID-00013	2.5	N/A	PLASTIC	PSC	ELFI	
A-50000	S-50001	1	SAND FILTER	Lower Deck	SEA WATER	FILTER	MECH	0,01	220v/3/50Hz	2000	610	N/A	N/A	250,00	850,00	1724000-440-PR-PID-00013	2,00	N/A	GRP	PSC	NOBEL	
A-50000	S-50002A	1	SW 1ST CARTRIDGE FILTER	Lower Deck	SEA WATER	FILTER	MECH	N/A	N/A	597,5	N/A	180	300	19	40	1724000-440-PR-PID-00013	2	N/A	PLASTIC	PSC	EVERBLUE	
A-50000	S-50002B	1	SW 1ST CARTRIDGE FILTER	Lower Deck	SEA WATER	FILTER	MECH	N/A	N/A	597,5	N/A	180	300	19	40	1724000-440-PR-PID-00013	2	N/A	PLASTIC	PSC	EVERBLUE	
A-50000	S-50004	1	SOFTENING FILTER	Lower Deck	FRESH WATER	FILTER	MECH	0,01	220v/3/50Hz	1000	N/A	300	450	35	110	1724000-440-PR-PID-00013	1.8	N/A	GRP	PSC	NOBEL	
A-64000	S-64001A	1	PSA After Filter	Lower Deck	NITROGEN	FILTER	MECH	N/A	N/A	400	114,3	N/A	N/A	35	40	1724000437-PR-PID-00018	150	N/A	LTCS	COES	COES	
A-64000	S-64001B	1	PSA After Filter	Lower Deck	NITROGEN	FILTER	MECH	N/A	N/A	400	114,3	N/A	N/A	35	40	1724000437-PR-PID-00018	150	N/A	LTCS	COES	COES	
A-63000	S-63001A	1	Dryer pre-filter	Upper Deck	AIR	FILTER	MECH	N/A	N/A	168,3	N/A	N/A	N/A	60	65	1724000428-PR-PID-00019	415,00	N/A	AISI 316 SS	COES	COES	
A-63000	S-63001B	1	Dryer pre-filter	Upper Deck	AIR	FILTER	MECH	N/A	N/A	168,3	N/A	N/A	N/A	60	65	1724000428-PR-PID-00019	415,00	N/A	AISI 316 SS	COES	COES	
A-63000	S-63002A	1	Dryer after-filter	Upper Deck	AIR	FILTER	MECH	N/A	N/A	168,3	N/A	N/A	N/A	60	65	1724000428-PR-PID-00019	350,00	N/A	AISI 316 SS	COES	COES	
A-63000	S-63002B	1	Dryer after-filter	Upper Deck	AIR	FILTER	MECH	N/A	N/A	168,3	N/A	N/A	N/A	60	65	1724000428-PR-PID-00019	350,00	N/A	AISI 316 SS	COES	COES	
A-50000	S-50003A	1	SW 2ND CARTRIDGE FILTER	Lower Deck	SEA WATER	FILTER	MECH	N/A	N/A	597,5	N/A	180	300	19	40	1724000-440-PR-PID-00013	2	N/A	PLASTIC	PSC	EVERBLUE	
A-50000	S-50003B	1	SW 2ND CARTRIDGE FILTER	Lower Deck	SEA WATER	FILTER	MECH	N/A	N/A	597,5	N/A	180	300	19	40	1724000-440-PR-PID-00013	2	N/A	PLASTIC	PSC	EVERBLUE	

HEATERS

ParentTag	Item	Description	Quantity	Area/Location	Class/Subclass	Discipline	Power [kW]	Power Supply	Height [mm]	Diameter [mm]	Width [mm]	Length [mm]	Dry Weight [kg]	Test Weight [kg]	P&ID No	Flowrate [m3/h]	Insulation type	Shell Operating Press [barg]	Shell Design Temp [°C]	Shell Operating Temp [°C]	Shell Design Press [barg]	Material	P&ID	Vendor Name	Manufacturer	Remarks
A-50000	H-50001	Electrical Heater	1	Lower/Deck	Heater	MECH	30,00	400/3/50	N/A	334	N/A	2021	47	47,00	1724000-440-PR-PID-00013	0,01	N/A	5,00	6,00	10,00	11	A185 F53 / Titanium Cladded for heat. elements shell in Vinylester	1724000448-PR-PID-00013	PSC	MASTERWATT shell by PLASTIC GLASS	
A-50000	HHS-50003A	Container Electrical Heater	1	Lower/Deck	Heater	MECH	8,40	400/3/50	290.5	N/A	885	1101	60	N/A	1724000-440-PR-PID-00013	0.65	N/A	N/A	N/A	N/A	N/A	AIS 316	1724000448-PR-PID-00013	PSC	AC Graf	
A-50000	HHS-50003B	Container Electrical Heater	1	Lower/Deck	Heater	MECH	8,40	400/3/50	290.5	N/A	885	1101	60	N/A	1724000-440-PR-PID-00013	0.65	N/A	N/A	N/A	N/A	N/A	AISI 316	1724000448-PR-PID-00013	PSC	AC Graf	

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COMPRESSORS

ParentTag	Item	Quantity	Description	Area/Location	Class/Subclass	Discipline	Driver	Power [kW]	Power Supply	Height [mm]	Width [mm]	Length [mm]	Dry Weight [kg]	Operating Weight [kg]	P&ID No	Flowrate [m3/h]	Disch Pressure (barg)	Disch Temp [°C]	Insulation type	Material	Manufacturer	Vendor Name	Remarks
A-63000	K-63001A	1	Air Compressor	Upper Deck	Compressor/Screw	MECHANICAL	EL.MOTOR	70	400/3/50	2200	1600	2600	2775	2775	1724000428-PR-PID-00019	415	9.5	35	N/A	CARBON STEEL	ATLAS COPCO	COES	Oil free
A-63000	K-63001B	1	Air Compressor	Upper Deck	Compressor/Screw	MECHANICAL	EL.MOTOR	70	400/3/50	2200	1600	2600	2775	2775	1724000428-PR-PID-00019	415	9.5	35	N/A	CARBON STEEL	ATLAS COPCO	COES	Oil free

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PACKAGES

Parent tag	Item	Description	Quantity	Area / Location	Class/Subclass	Discipline	P&ID	Operating "T / Design "T [°C]	Operating Press / Design Press [barg]	Materail	Length [mm]	Width [mm]	Diameter [mm]	Height [mm]	Dry Weight [kg]	Operating Weight [kg]	Insulation type	Supplier	Manufacturer	Remarks
N/A	A-50000	Water Treatment Package	1	LOWER DECK	Machinery Package	MECH	N/A	N/A	N/A	N/A	12200	2440	N/A	2200	'-'	'-'	N/A	PSC	PSC	for details refer to items identified with parent item of the package
A-50000	A-50007A	SWRO Unit	1	LOWER DECK	Machinery Package	MECH	N/A	N/A	N/A	N/A	'-'	'-'	N/A	'-'	'-'	'-'	N/A	PSC	PSC	for details refer to items identified with parent item of the package inside A-50000 dimensions of each element in the dedicated section
N/A	A-50007B	SWRO Unit	1	LOWER DECK	Machinery Package	MECH	N/A	N/A	N/A	N/A	'-'	'-'	N/A	'-'	'-'	'-'	N/A	PSC	PSC	for details refer to items identified with parent item of the package inside A-50000 dimensions of each element in the dedicated section
N/A	A-63000	Instrument Air Package	1	UPPER DECK	Machinery Package	MECH	N/A	N/A	N/A	N/A	6500	3200	N/A	2300	11000	'-'	N/A	COES	COES	for details refer to items identified with parent tag of the package
N/A	A-64000	Nitrogen System Package	1	LOWER DECK	Machinery Package	MECH	N/A	N/A	N/A	N/A	3500	1600	N/A	2547	5000	'-'	N/A	COES	COES	for details refer to items identified with parent tag of the package
N/A	A-80000	Fuel Cell Package	1	UPPER DECK	Machinery Package	MECH	'-'	N/A	N/A	'-'	750	1800	N/A	2600	'-'	'-'	N/A	BALLARD	BALLARD	
N/A	Q-43004	Hydrogen Vent	1	UPPER DECK	Machinery Package	MECH	123A90-DDL-PR-PID-80029	80 / 80	atm / 3,5	A516 gr.60	N/A	N/A	12" Tip 20" Vent	16500	'-'	'-'	YES with electical tracing	ENCORE	ENCORE	
A-50000	A-50003	Coarse Filter	'-'	LOWER DECK	Machinery Package	MECH	N/A	N/A	N/A	N/A	'-'	'-'	N/A	'-'	'-'	'-'	'-'	'-'	'-'	Make reference to filter section

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HANDLING

Parent Tag	Item	Description	Quantity	Class Name	Area/Location	Class/Subclass	Discipline	Standard/Norm	Driver	Power [kW]	Power Supply	Height [mm]	Width [mm]	Length [mm]	Operating Weight [kg]	Insulation type	Material	Manufacturer	Vendor Name	Remarks
N/A	X-99001	Lifting Davit	1	Handling	Upper Deck	Handling	MECH	DNV-ST-0378	El Mot Winch El Mot Slw+Rdl	20,00	400/3/50	5941	2143	11920	6000,00	N/A	S355 EN 10025-2	REMAZEL	REMAZEL	Indicated the overall absobed power

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MISCELLANEOUS

Parent Tag	Item	Description	Quantity	Area/Location	Class/Subclass	Discipline	Design Capacity [m3/h]	Design Temperature - Max [degC]	Design Press Max [barg]	MOC	Driver Type	Rated Power [W]	Diameter [mm]	Length [mm]	Width [mm]	Height [mm]	Dry Weight [kg]	Operating Weight [kg]	P&ID	Insulation type	Vendor	Manufacturer	Remarks
A-50000	HFA-50001A	Container Air fan	1	Lower Deck	Miscellaneous Equipment	MECH	1010	60	atm	Plastic UL94V-0	El, Motor	140	N/A	332	332	189	3.4	3.4	1724000-440-PR-PID-00013	N/A	PSC	'-'	
A-50000	HFA-50001B	Container Air fan	1	Lower Deck	Miscellaneous Equipment	MECH	1010	60	atm	Plastic UL94V-0	El, Motor	140	N/A	332	332	189	3.4	3.4	1724000-440-PR-PID-00013	N/A	PSC	'-'	
A-50000	HFA-50001C	Container Air fan	1	Lower Deck	Miscellaneous Equipment	MECH	1010	60	atm	Plastic UL94V-0	El, Motor	140	N/A	332	332	189	3.4	3.4	1724000-440-PR-PID-00013	N/A	PSC	'-'	
A-64000	C-64001A	PSA Tower	1	Lower Deck	Miscellaneous Equipment	MECH	150	80	12	Carbon Steel	N/A	N/A	114.3	N/A	N/A	400	35	40	1724000437-PR-PID-00018	N/A	COES	COES	
A-64000	C-64001B	PSA Tower	1	Lower Deck	Miscellaneous Equipment	MECH	150	80	12	Carbon Steel	N/A	N/A	114.3	N/A	N/A	400	35	40	1724000437-PR-PID-00018	N/A	COES	COES	

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