VESSEL DATA SHEET: SEA-SCREEN COARSE STRAINER - Filter Details and Mechanical Design								
Process Design Data								
Operating Temperatu	min	7	norm			max		°C
Operating Pressures	min	9			9			bar g
Operating Flowrates for		200	norm			max*		m3/h
Operating Flowrates p			norm			max*	3_3	
No. of vessels on packa				stand-by			ackwashing	
Sizing criteria	2 x 100% continuous operation				_	S.G.	1.023	
Process fluid	Sea Water							
Package performance			dirtv		1	alarm	1	bar
Vessel Pressure drop			dirty		1	alarm	1	bar
Package Pressure dro		0	,					
FILTER DETAILS								
Type of filter element	Wedge wir							μm
Area of each filter eler		2.58 m² No. off elements / vessel						1
Element dimensions (F					500.00	.00		mm
Operating flux rates	min	39	norm		210	210 max 1		m³/h/m²
Backwash flowrate	66.25						m³/h	
Backwash duration / e	2.5							mins
Backwash duration / v	2.5							mins
Backwash water usage								m³
Backwash cycle time	3/4							hr
Filter vessel volume	1.46							m^3
Mechanical DESIGN DATA								
Minimum design temp		°C	Design pre	essure			15	bar g
Maximum design temp	45	°C	Hydrotest	pressure	(=1.3 x Desi	gn)	19.5	bar g
Vessel orientation	Vertical							
Shell diameter (OD)								mm
Dimension (T/T)	2476							mm
Corrosion allowance		3.2						mm
Wall thickness	Sh	nell	Note 1	mm	H€	ad	Note 1	mm
Joint efficiency	Sh	nell	100 %		Head		100	
Normal liquid volume								m ³
Relief valve	Yes, Thermal set @ 15 barg							
Ando	NO							
Insulation NO								
CODES AND SPECIFICATION								
Vessel design code ASME VIII Div 1								
FABRICATIO AND INSPECTION REQIREMENTS								
Inspection authority DNV (by SOME)								
Radiography	YES	per code	PWHT		NO	per code		
Impact-Test	YES	per code	Impact Tes	st	NO	per code		
Hydro-Test	YES	per code						