

## GRAPHITE HEAT EXCHANGER - Questionnaire



MB Plastics Europe  
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Application : HCl Synthesis Unit

### Section A: Customer information

<b>Company:</b> <input style="width: 90%;" type="text"/>	<b>Contact name:</b> <input style="width: 90%;" type="text"/>	<b>Phone:</b> <input style="width: 90%;" type="text"/>
<b>Date:</b> <input style="width: 90%;" type="text"/>	<b>Quote for:</b> <input type="checkbox"/> Budget <input type="checkbox"/> Urgent	

### Section B: Fluid parameters

Detail	Unit
Capacity of unit HCl gas	Kg/hr
Preffered route (1-2% HCl acid by-product route / 22% HCl acid by-product route)	
Required product HCl gas purity	W/W
Required product HCl gas pressure. (Note: For 1% route HCl gas pressure will be 1 bar G. If pressurised gas is required compressor after our unit can be installed for required pressure.)	Bar
HCl acid feed concentartion and temperature	°C
Steam Operating pressure (Please specify pressure is in <input type="checkbox"/> Gauge <input type="checkbox"/> Absolute)	Kg/cm2
Utility pressure <input type="checkbox"/> Cooling water <input type="checkbox"/> Chilled water <input type="checkbox"/> Chilled Brine	Bar g
Utility Temperature IN/OUT Cooling water: Chilled water : Chilled Brine:	°C
Type of Brine (Brine compostion), if required	

GIL Scope of Supply: Our basic package includes:  
 1. MAIN EQUIPMENTS: Distillation column,Reboilers,condensers,Cooler (in case of 22% Route), Knockout Drum for Dry HCl Gas / CaCl<sub>2</sub> (in case of 1% route), Bursting Disc, Bursting Disc Collection Pot.  
 2. SPARES: Required for above scope.  
 Please specify MOC required on shell side: IS 2062 Gr E250 Quality A or B OR SA-516 (All Grade)

Exclusion:  
 1.ANCILLARY EQUIPMENT: HCl acid Feed pump with motors, CaCl<sub>2</sub> pump with motors, CaCl<sub>2</sub> preparartion tank, CaCl<sub>2</sub> dosing pump.  
 (Note: CaCl<sub>2</sub> ancillary equipments is case of 1% route)

### Section C: Options

Interconnecting Piping, Manual Valves & PTFE Bellows (Required for Graphite nozzles)	<input type="checkbox"/> GIL scope / <input type="checkbox"/> Customer scope
Instrumentation	<input type="checkbox"/> GIL scope / <input type="checkbox"/> Customer scope
If GIL scope: Instruemnation Control	<input type="checkbox"/> Automatic <input type="checkbox"/> Semiautomatic <input type="checkbox"/> with minimal instruments
Instrument Type	<input type="checkbox"/> HART Compatible / <input type="checkbox"/> Field Bus
Mode of operation for unit	<input type="checkbox"/> DCS / <input type="checkbox"/> PLC
DCS: Structure (Skid mounted unit)	<input type="checkbox"/> GIL scope / <input type="checkbox"/> Customer Scope
Any additional requirements / Remarks:	
Mechanical Design code / If any (Otherwise we will consider standard engineering practice)	