TECHNICAL DESIGN QUESTIONNAIRE

AIR + GROUND SOURCE HEAT PUMP

Customer Information:

Company Name:		**Account Number:**	
Contact Name:		**Address:**	
Contact Number:			
Contact Email:			
Enquiry Date:		**Postcode:**	

RTM Information:

RTM Brand:

☐ PTS ☐ City Plumbing

Branch:	
Branch Contact:	
Branch Tel No:	
Branch Email:	

Project Information:

Project Name:

Project Status:

☐ Order to Place
☐ Out to Tender
☐ General Enquiry

Project Address:

Project Postcode:

Property Information:

Year of Construction:

Building Type:
(e.g. Detached House, Office, Care Home etc.)

No of Bedrooms:
(If applicable)

Total Floor Area: m²

Heat Loss (If Known): watts or **Assumed Heat Loss:** w/m²
(New build to Part L1a:2013 (Domestic) assume 40w/m²)

Current Fuel:
(If applicable. Oil/LPG/Natural Gas etc)

Electrical Supply Available:
(Single Phase or Three Phase)

Insulation Standards

External Wall build up:

U-Value: w/m²k
(New build default: 0.18w/m²k)

(e.g. Brick 102mm, 75mm Celotex, 50mm Air Gap, standard aerated block, 13mm plaster)

Glazing Type:

U-Value: w/m²k
(New build default: 1.4w/m²k)

(e.g. Double Glazed, Low-e Glass, PVC Frame)

Roof Build Up:

U-Value w/m²k
(New build default: 0.13w/m²k)

(e.g. 270mm mineral wool loft insulation)

Floor Build Up:

U-Value: w/m²k
(New build default: 0.13w/m²k)

(e.g. 150mm concrete slab, 75mm cellotex, 65mm Traditional Screed)

Please Note: CPS will not typically carry out heat loss calculations. All MIS3005 heat loss calculations to be carried out by the MCS installer.

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System Information:

Heat Source: (e.g. Ground/Air/Water)

Preferred manufacturer: (The preferred manufacturer may not always be suitable for the project).

If Air Source, what is the preferred installation method (If unknown we will default Monobloc): (Split/Monobloc/Hybrid)

Will the unit be remotely located? (Yes/No)

If yes, distance from plant to building: m

Quote for pre-insulated pipework? (Yes/No)

If yes, which manufacturer: (Uponor/Maincor/Rehau etc.)

Ground Collector Information:

Surface **Collector Ground Conditions:**

- Dry / Loose (e.g Dry Sand 0.3-0.8w/mk)
- Dry / Compact (e.g Dry Clay 0.4-1.0w/mk)
- Saturated / Compact (e.g Wet Clay 0.9-1.8w/mk)
- Saturated / Loose (e.g Wet Sand 1.5-4.0w/mk)
- Other (Please Specify)

Borehole **Collector Ground Conditions:**

- Clay (1.8w/mk)
- Limestone (2.1w/mk)
- Quartz (2.8w/mk)
- Sandstone (3.1w/mk)
- Other (Please Specify)

Distance from heat pump to ground collector manifold/chamber: m

Heating System:

Emitter Type:

- District Heating
- Radiators
- UFH
- Other (Please Specify)

Hydraulic Break:

- Buffer Cylinder
- Low Loss Header
- Multi Fuel Store
- Other (Please Specify)

Will there be any additional integrated heat sources? (e.g. Oil Boiler, Stove/AGA etc)

Pool Heating

Is pool heating required? (Yes/No)

Where is the pool located? (Indoor/Outdoor)

Req. Pool Temperature: °C (Default: 32°C Indoor, 28°C Outdoor)

Is pool covered when not in use? (Yes/No)

Pool Dimesnions: Length Width Depth m (Use average pool depth)

Pool usage: (Default: 365 days for Indoor, May-Sept for Outdoor)

Hot Water Requirements:

Is domestic hot water required? (Yes/No)

Cylinder size required: Litres

Will solar thermal be integrated: (Yes/No)

Is a specific reheat time required? (From 10°C cold) Hours

High flow rate appliance: (e.g. Drench shower) = l/s (Flow Rate)

No of outlets:

- x Baths
- x Showers
- x Wash Hand Basin
- x Kitchen / Utility Sinks
- Other x (Please specify)

Additional Notes:

Internal Use: