

# Envirocyl™

Standard & Pre-Plumbed Hot Water Storage Cylinders  
for Renewable Heating

SUPERIOR HEATING SOLUTIONS  
SINCE 1980



Renewable heating technologies require a dedicated hot water storage cylinder with a larger coil to allow maximum heat transfer of renewable energy into the stored water.

Firebird Products Ltd are market-leading manufacturers of heating products with a proven track record built on the global supply of heating systems. Established in Ireland in 1980, the Firebird name has become synonymous with performance, quality and innovative design.

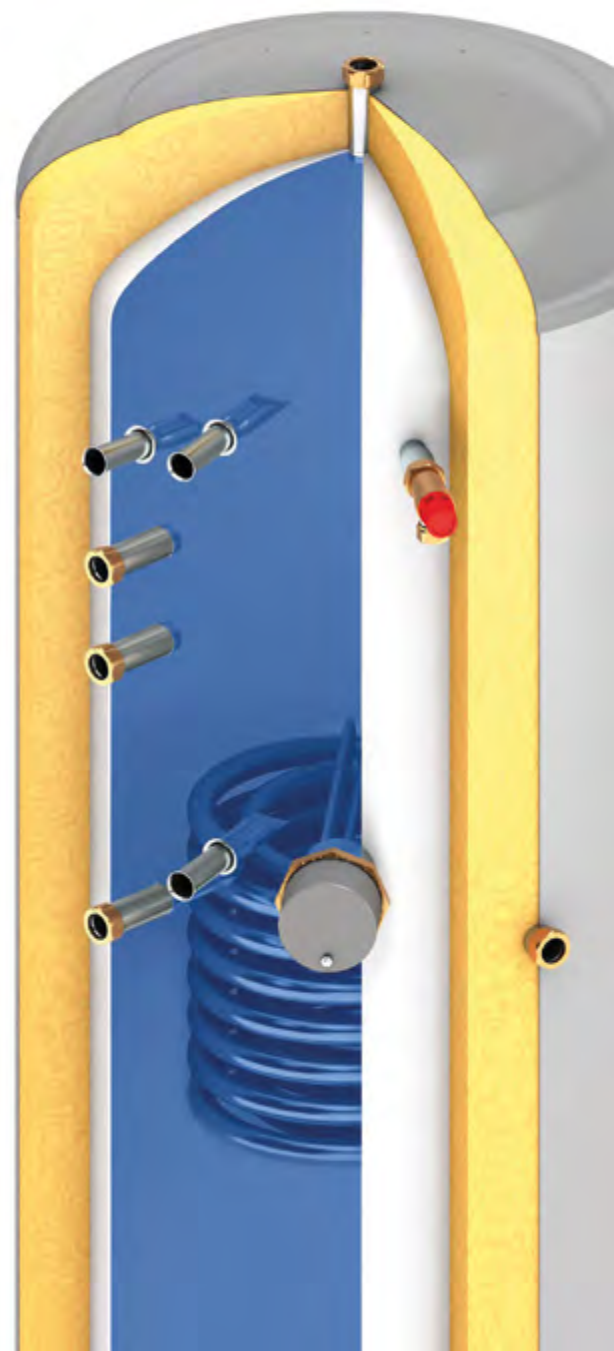
At the forefront of technology, Firebird are committed to providing cost-effective, energy-efficient heating solutions that not only meet, but easily exceed today's stringent legislative requirements. Historically an oil-fired boiler manufacturer, the product range has been expanded to include air source heat pumps, biomass boilers & stoves, solar thermal systems, underfloor heating systems and hot water cylinders.

The Envirocyl™ range of hot water storage cylinders have been specifically designed for use with Firebird Enviroair™ air source heat pumps and Firebird EnviroSol™ solar thermal systems. Featuring purpose-designed coils which have the optimum surface area to water flow ratio, the cylinders offer a highly efficient way of providing space heating and domestic hot water.

Envirocyl™ hot water storage cylinders are manufactured from premium quality stainless steel and include a 3kW electric immersion as standard.

### The Benefits

- ✓ Manufactured from Duplex stainless steel for superior corrosion resistance
- ✓ Purpose-designed coils to allow maximum heat transfer of renewable heat
- ✓ Provides mains pressure hot water
- ✓ High flow rates – for powerful showers and fast-filling baths
- ✓ Quick reheat and high efficiency
- ✓ Fully insulated to minimise any heat loss
- ✓ Includes all components required to complete installation
- ✓ Standard and pre-plumbed options available\*
- ✓ Available in capacities of 180–300 litres
- ✓ 3 kW electric immersion as standard for backup heating
- ✓ 10-year or 25-year manufacturing warranty on inner container\*\*



\* Air source heat pump cylinders only.  
\*\*Varies by product. Terms & Conditions apply.

# Envirocyl™ Single Coil Heat Pump Cylinder

Envirocyl™ single coil heat pump cylinders have been designed specifically for use with an air source heat pump as the main energy source.

The cylinders feature a purpose-designed air source heat pump coil with a large surface area to allow maximum heat transfer of renewable energy into the stored water. A factory-fitted 3 kW immersion heater is also supplied as standard.

Available in a range of capacities, the cylinders are recommended for use with a Firebird Enviroair™ air source heat pump.



## Connections

- A** 22mm cold feed with dip pipe to diffuser
- B** 22mm hot water outlet
- C** Immersion heater\*
- D2** 22mm heat pump connection (Return)
- D3** Heat pump connection (Flow)
- E** 1/2" NPT x 15mm temperature & pressure relief valve\*
- F** 22mm secondary return (cylinders with a capacity of 210 litres and above only)
- G** Dry stat pocket

## Connection Locations

Nominal Cap. (L)	A	B	C	D	E	F	G	H
	(mm)							
180	681	1308	650	175	519	1080	n/a	650
210	681	1496	650	175	519	1270	1150	650
250	681	1746	650	175	519	1520	1400	650
300	681	2059	650	175	519	1830	1600	650

\*Factory fitted

## Product Information

Product Code	Capacity Litres	Height mm	Diameter mm	ErP Rating*	Standing Loss
ASH180TNK	180	1308	550	C	69
ASH210TNK	210	1496	550	C	73
ASH250TNK	250	1746	550	C	91
ASH300TNK	300	2055	550	C	87
ASH400TNK	400	1656	693	C	102

## Technical Information

Product Code	DHW Expansion Vessel Litres	Weight (empty) kg	Heat-up Time min	ASHP Coil kW	Heat Loss kW/24h	3 kW Immersion Heater
ASH180TNK	18	45	Refer to Enviroair™ Installation Manual	30.1	1.66	X 1
ASH210TNK	18	50		28.5	1.76	X 1
ASH250TNK	18	55		27.0	2.19	X 1
ASH300TNK	18	60		25.6	2.09	X 1
ASH400TNK	25	87		24.2	2.45	X 1

## Supplied with



**Acetal tundish**  
22mm x 15mm



**Inlet control set**  
with balanced cold 22mm x 15mm



**Twin port valves**  
22mm



**Potable water expansion vessel**



**Dual thermostat**



**Temperature & pressure relief valve\*\***  
1/2" NPT x 15mm (7 bar/90°C)



**Immersion heater\*\***  
3kW – 14"

\* Based on thermostat set at 60°C

\*\*Factory fitted

# Envirocyl™ Pre-Plumbed Single Coil Heat Pump Cylinder

Envirocyl™ pre-plumbed single coil heat pump cylinders have been designed specifically for use with a air source heat pump as the main energy source.

Saving valuable installation time, the pre-plumbed cylinders include pre-fabricated pipework, wiring and an integrated 50 litre buffer. A factory-fitted 3 kW immersion heater is also supplied as standard.

Available in a range of capacities, the cylinders are designed for use with a Firebird Enviroair™ air source heat pump.



## Product Information

Product Code	Capacity Litres	Height mm	Diameter mm	ErP Rating*	Standing Loss
ASH180PPC	180	1281	550	B	69
ASH210PPC	210	1469	550	B	79
ASH250PPC	250	1719	550	B	90
ASH300PPC	300	1600	550	B	93

## Technical Information

Product Code	DHW Expansion Vessel Litres	Weight (empty) kg	Heat-up Time min	ASHP Coil kW	Heat Loss kW/24h	3 kW Immersion Heater
ASH180PPC	12	45	Refer to Enviroair™ Installation Manual	9.5	1.60	X 1
ASH210PPC	18	50		14.0	1.85	X 1
ASH250PPC	18	55		14.0	2.10	X 1
ASH300PPC	25	60		14.0	2.31	X 1

\*Based on thermostat set a 58°C

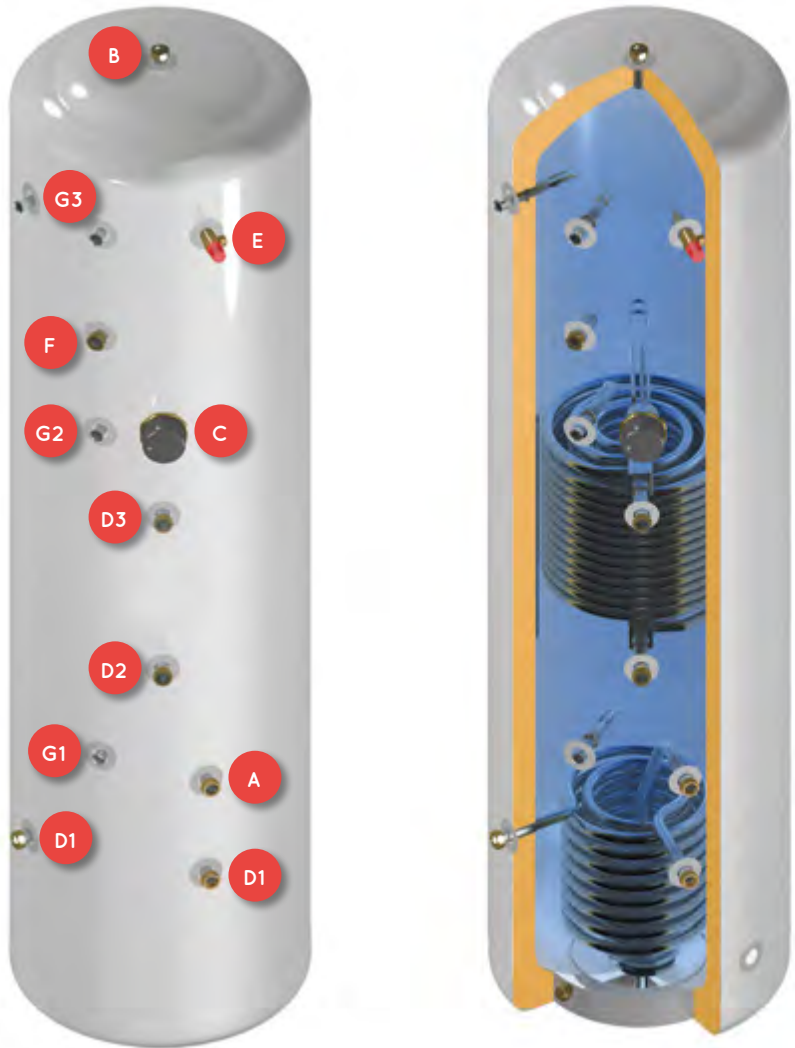


# Envirocyl™ Twin Coil Heat Pump / Solar Cylinder

Envirocyl™ twin coil heat pump / solar cylinders have been designed for use with heating systems where solar thermal is used to compliment an air source heat pump.

The cylinders feature purpose-designed solar and air source heat pump coils with a large surface area to allow maximum heat transfer of renewable energy into the stored water. The primary heating coil connects to the air source heat pump as the main heat source, with the secondary heating coil connected to the solar thermal system for back-up heating. A factory-fitted 3 kW immersion heater is also supplied as standard.

Available in a range of capacities, the cylinders are recommended for use with Firebird EnviroSol™ Solar Thermal Systems in conjunction with a Firebird Enviroair™ air source heat pump.



## Connections

- A** 22mm cold feed with dip pipe to diffuser
- B** 22mm hot water outlet
- C** Immersion heater\*
- D1** 22mm solar coil connections
- D2** Heat pump connection (return)
- D3** Heat pump connection (flow)
- E** 1/2" NPT x 15mm temperature & pressure relief valve\*
- F** 22mm secondary return (cylinders with a capacity of 210 litres and above only)
- G1** Dry stat pocket (solar)
- G2** Dry stat pocket (heat pump)
- G3** Dry stat pockets

## Connection Locations

Nominal Cap. (L)	A	B	C	D1	D2	D3	E	F	G1	G2	G3
	(mm)										
210	465	1496	1008	365	560	910	1270	1150	420	1008	1270
250	465	1746	1100	365	652	1002	1520	1400	420	1100	1520
300	465	2059	1170	365	725	1075	1830	1600	420	1173	1830

\*Factory fitted



## Product Information

Product Code	Capacity Litres	Height mm	Diameter mm	ErP Rating*	Standing Loss
ASH180HPS	180	1308	550	C	69
ASH210HPS	210	1496	550	C	73
ASH250HPS	250	1746	550	C	91
ASH300HPS	300	2055	550	C	87

## Technical Information

Product Code	Dedicated Solar Vol. Litres	DHW Expansion Vessel Litres	Weight (empty) kg	Heat-up Time min	ASHP Coil kW	Solar Coil kW	Heat Loss kW/24h	3 kW Immersion Heater
ASH180HPS	51.8	18	58	Refer to Enviroair™ Installation Manual	28.3	18.48	1.66	X 1
ASH210HPS	60.3	18	59		28.1	19.75	1.76	X 1
ASH250HPS	72.3	18	65		27.4	20.68	2.19	X 1
ASH300HPS	87.1	25	77		26.7	22.08	2.09	X 1

## Supplied with



**Acetal tundish**  
22mm x 15mm



**Inlet control set**  
with balanced cold  
22mm x 15mm



**Twin port valves**  
22mm



**Potable water expansion vessel**



**Dual thermostat**  
(Heat Pump)



**High Limit thermostat**



**Temperature & pressure relief valve\*\***  
1/2" NPT x 15mm (7 bar/90°C)



**Immersion heater\*\***  
3kW - 14"

\* Based on thermostat set a 60°C

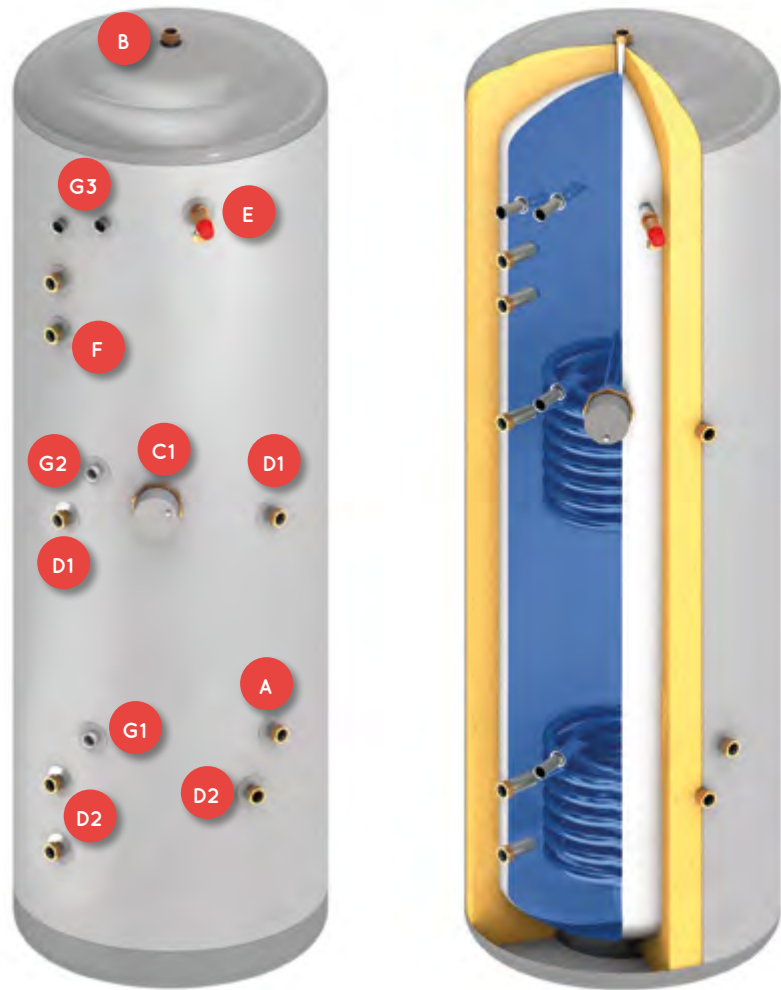
\*\*Factory fitted

# Envirocycl™ Twin Coil Solar Cylinder

Envirocycl™ twin coil solar cylinders have been designed for use with heating systems where solar thermal is used to compliment a traditional boiler.

The cylinders feature a purpose-designed solar coil with a large surface area to allow maximum heat transfer of renewable energy into the stored water. The lower coil connects to the solar thermal system and the upper coil to the traditional heat source. A factory-fitted 3 kW immersion heater is also supplied as standard.

Available in a range of capacities, the cylinders are recommended for use with Firebird EnviroSol™ solar thermal systems in conjunction with a traditional boiler such as Firebird EnviroGreen™.



## Connections

- A** 3/4" BSP male thread cold feed with dip pipe to diffuser in bottom of cylinder (1" Female BSP connection on 400/500L model with no diffuser)
- B** 3/4" BSP male thread hot water outlet (1" Female BSP connection on 400/500L)
- C** Immersion heater\*
- D1** 3/4" BSP male thread boiler coil connections
- D2** 3/4" BSP male thread solar coil connections
- E** 1/2" NPT x 15mm temperature & pressure relief valve (3/4" NPT x 15mm temperature & pressure relief valve\* 400-500L)
- F** 3/4" BSP male thread secondary return (cylinders with a capacity of 210 litres and above only)
- G1** Dry stat pocket (solar)
- G2** Dry stat pocket (boiler)
- G3** Dry stat pocket (high limit)

\*Factory fitted

## Connection Locations

Nominal Cap. (L)	A	B	C	D1	D2	E	F	G1	G2	G3
	(mm)									
210	465	1496	830	779	365	1270	1150	420	834	1270
250	465	1746	1000	950	365	1520	1400	420	1005	1520
300	465	2055	1030	980	365	1830	1600	420	1035	1830

## Product Information

Product Code	Capacity Litres	Height mm	Diameter mm	ErP Rating*	Standing Loss
SOL215ITK	210	1496	550	C	73
SOL255ITK	250	1746	550	C	91
SOL305ITK	300	2055	550	C	87

## Technical Information

Product Code	Expansion Vessel Litres	Weight (empty) kg	Heat-up Time min	Indirect Coil kW	Heat Loss kW/24h	3 kW Immersion Heater
SOL215ITK	18	50	35	21.35	1.76	X 1
SOL255ITK	18	55	41	22.40	2.19	X 2
SOL305ITK	25	60	52	21.43	2.09	X 2

## Factory fitted



**Temperature & pressure relief valve**  
1/2" NPT x 15mm (7 bar/90°C)



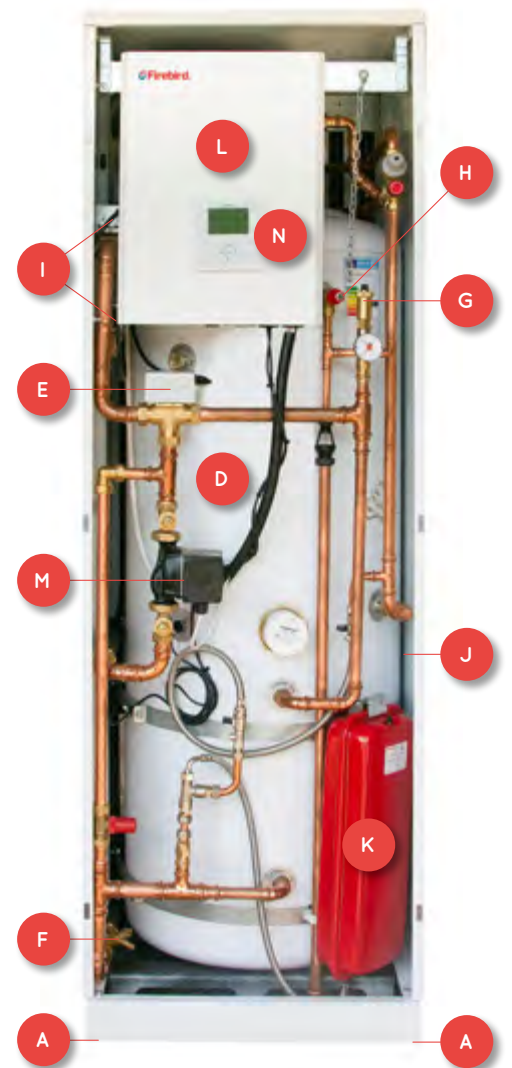
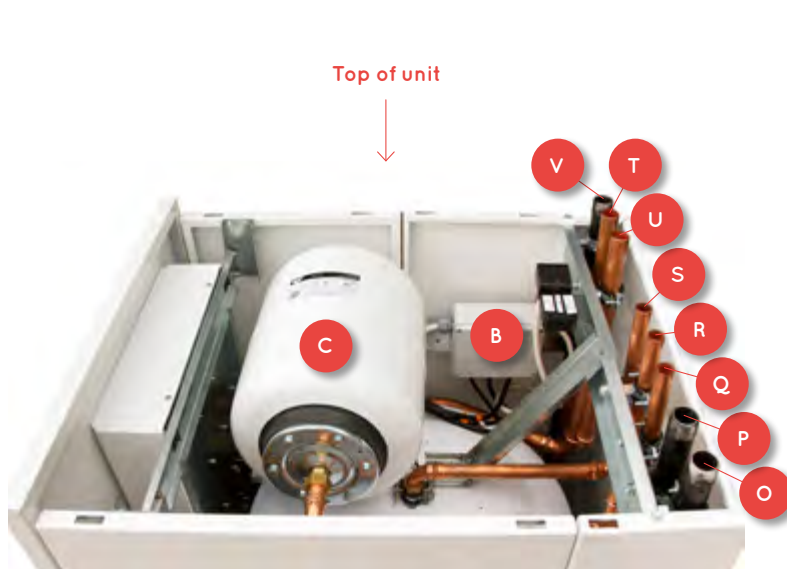
**Immersion heater\*\***  
3kW - 14"

\* Based on thermostat set a 60°C

\*\*Factory fitted

# Envirocyl™ Easy-Fit Pre-Plumbed & Pre-wired Twin Coil Heat Pump Cylinder Unit

Envirocyl™ pre-plumbed & pre-wired twin coil heat pump cylinder units have been designed specifically for use with an air source heat pump as the main energy source.



## Connections

- |                                       |                                    |
|---------------------------------------|------------------------------------|
| <b>A</b> Levelling Leg                | <b>L</b> Firebird Controller Box   |
| <b>B</b> Junction Box Holder Assembly | <b>M</b> Grundfos Circulating Pump |
| <b>C</b> 19 litre Expansion Vessel    | <b>N</b> Firebird Controller       |
| <b>D</b> Domestic Hot Water Store     | <b>O</b> Heat Pump Return          |
| <b>E</b> Diverter Valve               | <b>P</b> Heat Pump Flow            |
| <b>F</b> Drain Cock                   | <b>Q</b> Cold Main Feed            |
| <b>G</b> Auto Air Vent cw Check Valve | <b>R</b> Cold Balance              |
| <b>H</b> Safety Release Valve         | <b>S</b> Hot Water Outlet          |
| <b>I</b> Motor Zone Valve             | <b>T</b> Heating Zone 1            |
| <b>J</b> 42 litre Buffer Tank         | <b>U</b> Heating Zone 2            |
| <b>K</b> 12 litre Pressure Vessel     | <b>V</b> Heating Zone Return       |



Product Code	Capacity Litres
ASH210IDU	210
ASH250IDU	250

## The Benefits

- Fully pre-plumbed and pre-wired to reduce installation time
- Space saving option – can be installed in a utility room or garage
- Manufactured from Duplex stainless steel for superior corrosion resistance
- Purpose-designed coils to allow maximum heat transfer of renewable heat
- Priority hot water on demand
- Quick reheat and high efficiency
- Fully insulated to minimise any heat loss
- Provides mains pressure hot water
- High flow rates – for powerful showers and fast-filling baths
- Easy access for installation and servicing
- Quick drain down system
- Premium quality white case finish
- Ergonomically designed buffer box
- User-friendly PCB controller
- Available in capacities of 210 & 250 litres
- 3 kW electric immersion as standard for backup heating
- 10-year guarantee on inner container\*
- ErP rating C

\*Terms & Conditions apply



# Firebird Support

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## Customer Service

Firebird pride themselves on offering the highest levels of customer service possible. The level of service provided is monitored on a regular basis to ensure customers' requirements are always met.



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## Technical Support

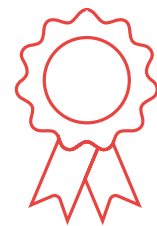
Based at Firebird's UK headquarters, the **Technical Hub** provides customers with a comprehensive technical support package which is designed to make the specification and installation process as simple as possible. For technical support please contact the Firebird Technical Hub on **01752 691177** or **technicalhub@firebird.uk.com**.



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## Quality

All Firebird products are produced to the highest quality standards and are put through rigorous testing procedures by external standards agencies. Every product is designed to meet a specific requirement and has been manufactured using premium quality materials to precise standards and tolerances.



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## Warranty

The Firebird range of Envirocyl™ hot water storage cylinders are covered by a 10-year or 25-year manufacturer's warranty as standard. For further information, please contact Firebird Products Ltd.



# Smart Heating. Smart Packages.

Multi-technology heating & hot water solutions expertly packaged for you.



- ✓ Full design & technical support package
- ✓ Extended warranties on total heating system\*
- ✓ Assistance with MCS compliance

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