HEAT PUMP

ECO RENEWABLES DON'T HAVE TO COST THE EARTH

LOGICOOL
AIR CONDITIONING & HEAT PUMPS

A Wide Range of Heat Pump & Buffer Cylinder Solutions

CYLINDERS

Based in Swadlincote Derbyshire we are focused on service, availability, quality, performance and reliability. Utilising the vast experience of the team at **Logicool** we aim to deliver on these key objectives.

Quality & Service

Stock

For an Environmental & Sustainable Future

Customer service is at the forefront of the business philosophy at Logicool

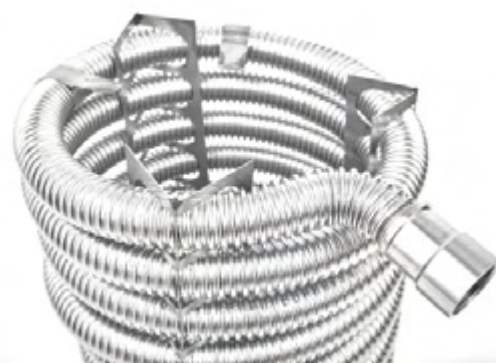We carry significant stock of a wide range of products in our warehouse.

Key procedures help us to move towards a more sustainable future and minimise any negative impact on the environment.

Special heat pump coil

PERFORMANCE WARRANTY
25 YEARS
PERFORMANCE WARRANTY

ECO LOGICOOL
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AIR CONDITIONING & HEAT PUMPS

Heat Pump Cylinders

All of the heat pump cylinders feature a unique high flow, high gain, full bore coil, to provide superior performance.

The Logicool Cylinder is fitted and supplied with all the required components and to provide seamless compatibility with your chosen heat pump.

SPECIFICATION

> Supplied with a manufacturer's backed 25 year cylinder warranty and 2 years parts warrantyAvailable in capacities from 120ltr - 600ltr.

> Manufactured from high grade 1mm thick Duplex Stainless Steel.

> Fully insulated with 50mm 100% CFC and HCFC free polyurethane to minimise heat loss.

> High quality 100% recyclable silver casing.

> Supplied with high quality unvented components.

> All plumbing connections are clearly identified with their description embossed into the cylinder case.

> Supplied with 28mm coil connections, 22mm hot and cold connections including nuts & olives

> 12mm sensor probe pocket included for heat pump controls.

> Market leading and highly efficient primary coil to ensure rapid exchange of heat from heat pump

> Long-life 3kW Incoloy immersion heater supplied as standard.

> Immersion heater upgrades available upon request - i.e. Titanium or 6kW.

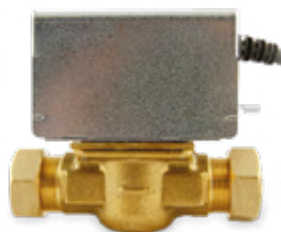> Supplied with all safety controls as required by UK Building Regulations.

Efficiency

Market leading heat exchanger

The Logicool Cyl heat pump cylinder is fitted with a market leading high efficiency heat exchanger (coil) with an enhanced surface area to ensure the rapid transfer of the low temperature inputs of ground & air source heat pumps.

The Logicool Cyl heat pump range comes complete with all the fittings you will need for a complete trouble free installation. All the items provided in the unvented kit, ensure your installation meets Part G of the Building Regulations.

COLD WATER
INLET SET

TWO PORT ZONE VALVE

HIGH LIMIT STAT

TUNDISH

3kW IMMERSION HEATER

T&P RELIEF VALVE

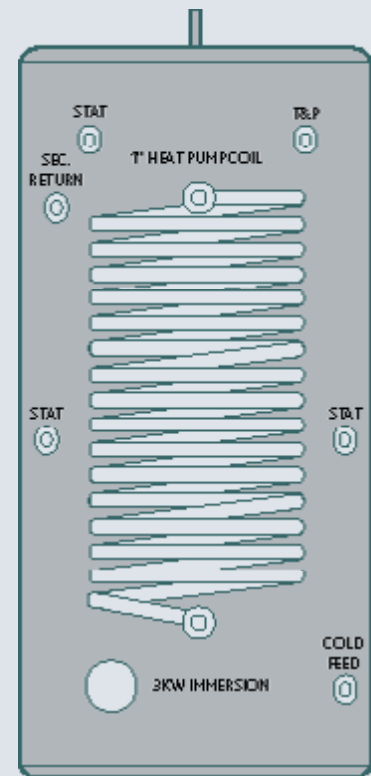EXPANSION VESSEL
AND BRACKET

Heat Pump Pre Plumbed Universal

> 3 port full bore, 28mm compression DHW & CH valve.

> 4 bar pressure gauge.

> Fill & flush valve with servicing ports. Useful to fill and flush the system with cleaning chemicals or water treatment.

> Optional 8m circulating pump for primary circuit.

> G3 compliant cold feed pipework, inc. tundish, drain point, filling loop and 3 bar inlet control set.

> Our 28mm full bore, high gain, high flow coil reduces noise and improves recovery times.

> A T&P insulation cover and potable expansion vessel is also supplied.

> Factory fitted immersion heater, for emergency backup this can be linked to a heat pump for an anti legionella cycle where required.

> 12mm sensor probe pocket.

SPEEDY INSTALLATION

Description	Product Code with circulating pump	Product Code no circulating pump	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m²)	Standing Heat Loss		Secondary Return Included as standard	ERP BAND
									kWh/ 24h	WATTS		
120L	LOGHPP2120	LOGHPP2120X	120	54	172	888	545	1.61	1.06	42	✗	B
150L	LOGHPP2150	LOGHPP2150X	150	58	208	1075	545	2.08	1.22	44	✗	B
170L	LOGHPP2170	LOGHPP2170X	170	63	230	1203	545	2.08	1.63	68	✗	C
200L	LOGHPP3200	LOGHPP3200X	200	72	267	1389	545	2.97	1.7	71	✓	C
250L	LOGHPP3250	LOGHPP3250X	250	75	319	1701	545	2.97	1.99	83	✓	C
300L	LOGHPP3300	LOGHPP3300X	300	80	360	1924	545	2.97	2.26	94	✓	C
400L	LOGHPP3400	LOGHPP3400X	400	78	477	1613	690	4	2.2	92	✓	C
500L	LOGHPP3500	LOGHPP3500X	500	94	591	1975	690	4	2.42	101	✓	C
600L	LOGHPP3600	LOGHPP3600X	600	105	674	2139	690	4	2.68	112	✓	C

Heat Pump Cylinder

> Available from 120ltr up to 600ltr.

> Universal large coil surface area as standard.

> 28mm compression fittings as primary connections to the coil.

> Provides a high flow rate capability and low pressure loss.
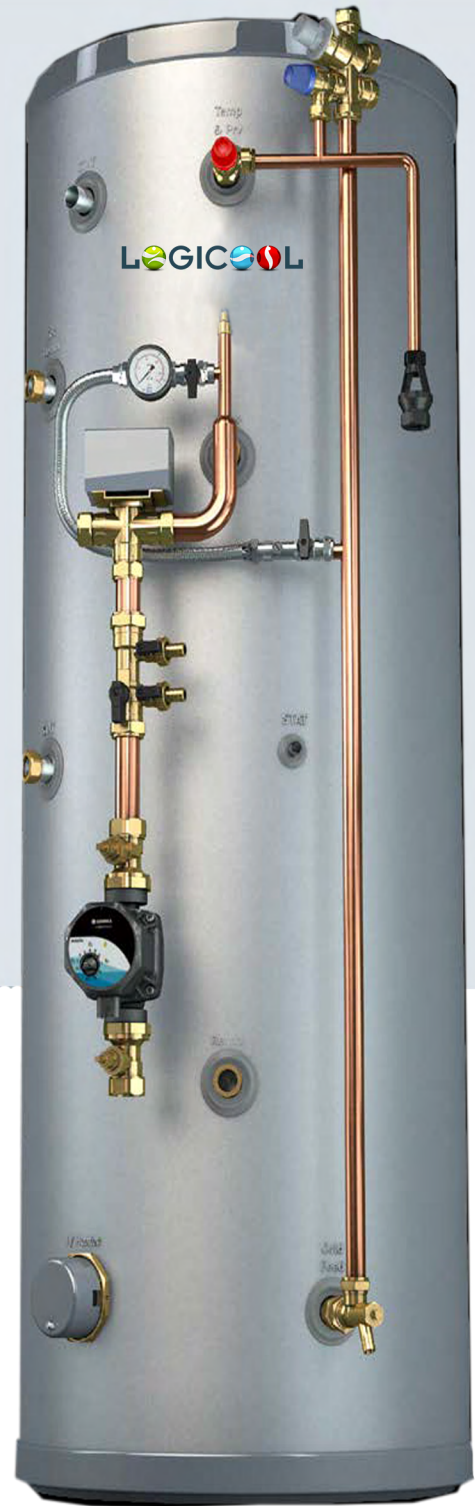
> 12mm sensor probe pocket.

Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m²)	Heat Pump Coil Rating (kW)	Standing Heat Loss		ERP BAND
									kWh/24h	WATTS	
120L	LOGHPD3120	120	31	145	888	545	1.61	23.46	1.06	42	B
150L	LOGHPD3150	150	37	181	1075	545	2.08	24.67	1.22	44	B
170L	LOGHPD3170	170	43	202	1203	545	2.08	24.67	1.63	68	C
200L	LOGHPD3200	200	49	235	1389	545	2.97	31.5	1.7	71	C
250L	LOGHPD3250	250	53	289	1701	545	2.97	33.08	1.99	83	C
300L	LOGHPD3300	300	57	330	1924	545	2.97	35.44	2.26	94	C
400L *	LOGHPD3400	400	76	453	1613	690	2.97	35.44	2.2	92	C
500L *	LOGHPD3500	500	92	554	1975	690	2.97	35.44	2.42	101	C
600L *	LOGHPD3600	600	103	635	2139	690	2.97	35.44	2.68	112	C

* **Can be supplied with 4m2 coil please ask for further details.**

Heat Pump Slimline Pre Plumbed

> Slimline 475mm diameter for smaller cupboard spaces.

> 3 port full bore, 28mm compression DHW & CH valve.

> 4 bar pressure gauge.

> Fill & flush valve with servicing ports. Useful to fill and flush the system with cleaning chemicals or water treatment.

> Optional 8m circulating pump for primary circuit.

> G3 compliant cold feed pipework, inc. tundish, drain point, filling loop and 3 bar inlet control set.

> Our 22mm full bore, high gain, high flow coil reduces noise and improves recovery times.

> A T&P insulation cover and potable expansion vessel is also supplied.

> Factory fitted immersion heater, for emergency backup this can be linked to a heat pump for an anti legionella cycle where required.

SPEEDY INSTALLATION

Description	Product Code with circulating pump	Product Code no circulating pump	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m²)	Standing Heat Loss		Secondary Return Included as standard	ERP BAND
									kWh/24h	WATTS		
120L	LOGHPPN2120	LOGHPPN2120X	120	33	158	1228	475	1.61	1.25	52	✗	B
150L	LOGHPPN2150	LOGHPPN2150X	150	39	194	1496	475	1.61	1.42	59	✗	B
170L	LOGHPPN2170	LOGHPPN2170X	170	45	215	1674	475	2.08	1.7	71	✗	C
200L	LOGHPPN3200	LOGHPPN3200X	200	48	248	1941	475	2.08	1.8	75	✓	C

Heat Pump Slimline
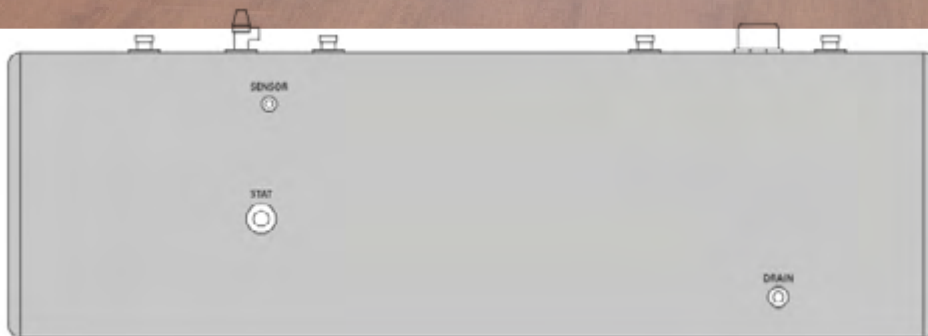
> Slimline 475mm diameter for smaller cupboard spaces

> Capacities from 120ltr -200ltr.

> Only 475mm wide.

> 28mm compression fittings as primary connections to the coil.

> 12mm sensor probe pocket.

Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m²)	Heat Pump Coil Rating (kW)	Standing Heat Loss		ERP BAND
									kWh/24h	WATTS	
120L	LOGHPS3120	120	33	151	1228	475	1.61	23.46	1.25	52	B
150L	LOGHPS3150	150	39	187	1496	475	1.61	23.46	1.42	59	B
170L	LOGHPS3170	170	45	208	1674	475	2.08	24.67	1.7	71	C
200L	LOGHPS3200	200	48	241	1941	475	2.08	24.64	1.8	75	C

Heat Pump Horizontal

> Ideal for use where a vertical cylinder will not fit, typically in a loft space.

> Supplied complete with floor standing cradles.

Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m^2)	Heat Pump Coil Rating (kW)	Standing Heat Loss		ERP BAND
									kWh/24h	WATTS	
170L	LOGHPH3170	170	43	202	1203	545	2.08	24.67	1.89	79	C
200L	LOGHPH3200	200	49	235	1389	545	2.97	31.5	2.01	84	C
250L	LOGHPH3250	250	53	289	1701	545	2.97	33.08	2.16	90	C
300L	LOGHPH3300	300	57	330	1924	545	2.97	35.44	2.35	98	C

Heat Pump and Buffer Combined
Pre Plumbed Options

> 3 port full bore, 28mm compression DHW & CH valve.

> 4 bar pressure gauge.

> Fill & flush valve with servicing ports. Useful to fill and flush the system with cleaning chemicals or water treatment.

> Optional 8m circulating pump for primary circuit.

> 6m Circulating pump supplied fitted for heating circuit.

> G3 compliant cold feed pipework, inc. tundish, drain point, filling loop and 3 bar inlet control set.

> Our 28mm full bore, high gain, high flow coil reduces noise and improves recovery times.

> Robokit / T&P insulation cover and potable expansion vessel is also supplied.

> Factory fitted immersion heater, for emergency backup this can be linked to a heat pump for an anti legionella cycle where required.

> 12mm sensor probe pocket.

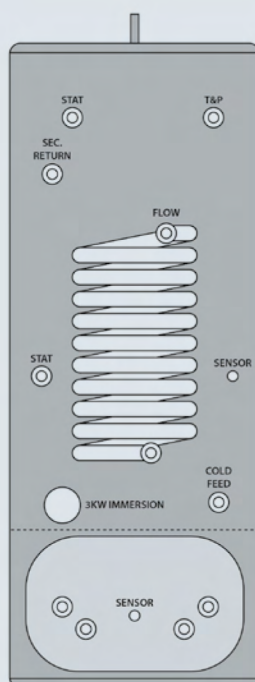> Buffer provides hydraulic separation and minimum system volume.

COMES COMPLETE WITH 12LTR HEATING EXPANSION VESSEL - SUPPLIED LOOSE.

SPEEDY INSTALLATION

Description	Product Code with circulating pump	Product Code no circulating pump	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m²)	Standing Heat Loss kWh/24h	WATTS	Secondary Return Included as standard	ERP BAND
120L/30L	LOGNPPB3012	LOGNPPB3012X	120	43	193	1390	475	1.61	1.25		✗	
150L/30L	LOGNPPB3015	LOGNPPB3015X	150	46	226	1863	475	1.61	1.42	59	✗	B
170L/30L	LOGNPPB5017	LOGNPPB5017X	170	48	249	2041	475	2.08	1.63	68	✗	C
170L/50L	LOGPPB5017	LOGPPB5017X	170	50	270	1603	545	2.08	1.63	68	✗	C
200L/50L	LOGPPB5020	LOGPPB5020X	200	57	307	1801	545	2.97	1.7	71	✓	C
225L/50L	LOGPPB5022	LOGPPB5022X	225	60	364	2048	545	2.97	1.99	83	✓	C

Heat Pump and Buffer Combined

> Using a buffer tank is often described by heat pump manufacturers as "the ideal installation" providing optimum performance.

> Our built in buffer features 1" female connections as standard.

> One neat solution providing a heat pump cylinder and buffer in the same footprint, saving both time and space.

> 12mm sensor probe pockets provided in both buffer and heat pump cylinder.

> Buffer provides hydraulic separation.

Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m²)	Standing Heat Loss		Secondary Return Included as standard	ERP BAND
								kWh/ 24h	WATTS		
120/30L	LOGNHPB3012	120	43	186	1390	475	1.61	1.25	52	✗	B
150/30L	LOGNHPB3015	150	46	219	1863	475	1.61	1.42	59	✗	B
170/30L	LOGNHPB3017	170	49	260	2041	475	1.61	1.63	68	✗	C
170/50L	LOGHPB5017	170	50	263	1603	545	2.08	1.63	68	✗	C
200/50L	LOGHPB5020	200	57	300	1801	545	2.97	1.7	71	✓	C
225/50L	LOGHPB5022	225	60	360	2048	545	2.97	1.99	83	✓	C

Heat Pump Solar Twin Coil

> Designed for renewable energy systems where solar thermal and heat pump applications are required.
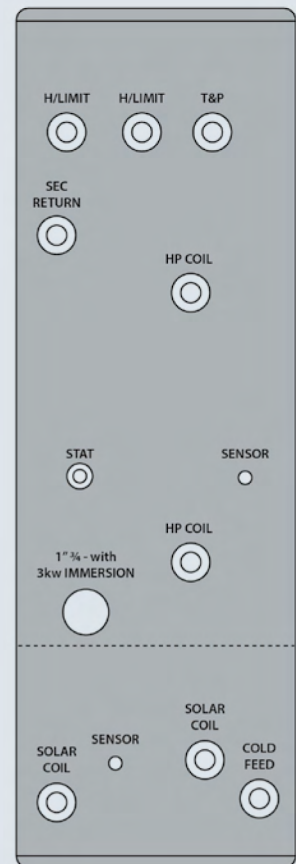
> 12mm sensor probe pocket.

Supplied with heat pump coil

Supplied with additional Solar thermal coil

Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Heat Pump Coil Surface Area (m²)	Standing Heat Loss		Secondary Return Included as standard	ERP BAND
								kWh/ 24h	WATTS		
170L	LOGHPT2170	170	39	208	1203	545	2.08	1.63	68	✗	C
200L	LOGHPT2200	200	44	241	1389	545	2.97	1.7	71	✓	C
250L	LOGHPT2250	250	46	295	1701	545	2.97	1.99	83	✓	C
300L	LOGHPT2300	300	48	336	1924	545	2.97	2.26	94	✓	C
400L	LOGHPT3400	400	55	461	1613	690	2.97	2.29	92	✓	C
500L	LOGHPT3500	500	58	562	1975	690	4	2.42	101	✓	C
600L	LOGHPT3600	600	67	643	2139	690	4	2.68	112	✓	C

Buffer Cylinders

The Logicool family of buffer stores from 50ltr to 600ltr; made from high quality duplex stainless steel that can form part of the renewable energy heating system.
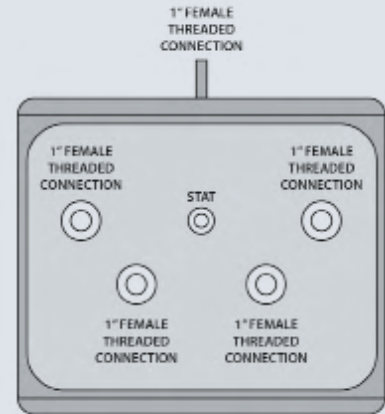
SPECIFICATION

> Using a buffer tank is often described by heat pump manufacturers as "the ideal installation" providing optimum performance.

> If the flow to the heating system can be restricted using radiator thermostats, for example, install a Logicool buffer as an intermediate tank. This ensures a secure flow for the heat pump, resulting in improved efficiency and operation of the heat pump.

> Install a Logicool buffer or combined heat pump and buffer to increase the overall system volume in the primary pipework, this helps limit switching the heat pump generator on/off and thereby prevents malfunctions and improves defrost cycles. The resulting use of back up heaters is limited and improves overall running costs.

> The Logicool buffer range also allows, a neutral point in the system; if required a different flow to the heating system, than across the heat pump.
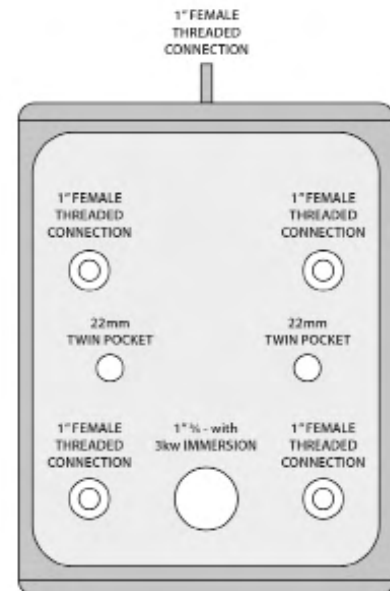
Buffer 50L - 60L

> 50/60ltr stand alone buffer.

> 5 x 1" female threaded connections as standard.

> Thermostat pocket to allow independent control of the buffer temperature.

Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Standing Heat Loss		ERP BAND
							kWh/ 24h	WATTS	
50L	LOGBVS0050	50	18	68	465	545	#N/A	#N/A	#N/A
Slim 60L	LOGNBV0050	60	20	80	697	475	1.02	43	C

Buffer 90L

> 90ltr stand alone buffer.

> 5 x 1" female threaded connections as standard.

> Thermostat pocket to allow independent control of the buffer temperature.

> Built in 3kW immersion as standard.

Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Standing Heat Loss		ERP BAND
							kWh/ 24h	WATTS	
90L	LOGBVS0090	90	19	109	694	545	1.1	46	B
Slim 90L	LOGNBV0090	90	21	111	961	475	1.14	48	C

Buffer 120L - 600L

> 7 x 1" female threaded connections as standard.

> Built in 3kW immersion.

> 3 x control stat / thermistor ports to allow independent control.

Description	Product Code	Nominal Capacity (L)	Weight (KG)	Weight full (KG)	Height (mm)	Diameter (mm)	Standing Heat Loss		ERP BAND
							kWh/24h	WATTS	
120L	LOGBVS0120	120	23	143	888	545	1.2	50	B
150L	LOGBVS0150	150	27	177	1075	545	1.32	55	B
170L	LOGBVS0170	170	31	201	1203	545	1.63	68	C
200L	LOGBVS0200	200	35	235	1389	545	1.7	71	C
250L	LOGBVS0250	250	40	290	1701	545	1.99	83	C
300L	LOGBVS0300	300	45	335	1924	545	2.26	94	C
400L	LOGBVS0400	400	51	431	1613	690	1.95	81	C
500L	LOGBVS0500	500	54	529	1975	690	2.31	96	C
600L	LOGBVS0600	600	63	633	2139	690	2.62	109	C
Slim 120L	LOGNBV0120	120	25	145	1228	475	1.37	57	C
Slim 150L	LOGNBV0150	150	29	179	1496	475	1.6	67	C
Slim 170L	LOGNBV0170	170	33	203	1674	475	1.7	71	C
Slim 200L	LOGNBV0200	200	37	237	1941	475	1.8	75	C

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