

Product Range Guide

Commercial Heating Solutions



Ideal Commercial Heating Solutions



Ideal Commercial Heating is one of the most respected names in the UK Commercial and Domestic heating industry, the only company in its field to have achieved World Class Manufacturer accreditation.

Ideal Heating is amongst the few true British Manufacturers left in the heating industry and has been operating from its Hull manufacturing plant and offices since 1906.

The increasing market use of condensing products is reflected in the Ideal portfolio. The introduction of the next phase of Ideal

wall hung condensing and modular condensing boilers will join our market leading commercial product portfolio from February 2011.

The Commercial Heating Team

As industry leaders Ideal Commercial Heating are committed to ensuring that all products are engineered to the highest standards.

To support our products we have a comprehensive service department who can supply you with in-depth product knowledge and system advice which will ensure that your heating will run efficiently and will increase the lifespan of our products.

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Condensing

EVOMAX 30 - 150kW



Features and Benefits

- Designed and manufactured in the UK
- Compact size across the range
- Comprehensive range of frame and header, flue and option kits
- Stylish appearance
- Low NOx emissions
- Extensive control options to optimise system performance
- Robust & light monobloc heat exchanger
- 2 year parts and labour warranty

General Data - EVOMAX (30 - 150)

Model		30	40	60	80	100	120	150
Boiler Output (Condensing)	kW	31.54	42	63.5	86.5	103.9	124.7	158
Boiler Output (Non Condensing)	kW	30	40	60	80	100	120	150
Height	mm	850	850	850	850	850	850	850
Width	mm	500	500	500	500	500	500	500
Depth	mm	350	350	350	350	520	520	610
Flow Connection	inch	R1¼	R1¼	R1¼	R1¼	R1¼	R1¼	R1¼
Return Connection	inch	R1¼	R1¼	R1¼	R1¼	R1¼	R1¼	R1¼
Gas Connection	inch	G¾	G¾	G¾	G¾	G¾	G¾	G¾
Nominal Flue Size	mm	80/125	80/125	80/125	80/125	100/150	100/150	100/150*
Maximum Working Pressure	bar	4	4	4	4	4	4	4
Water Content	lit	3	3	5	5	7	7	9.2
Weight	kg	49	49	60.30	60.30	75.70	75.70	89.75
NOx Emissions	mg/kWh	31	39.1	32.3	39.8	39.6	38.8	38.1
Seasonal Efficiency	%	96.7	96.2	96.4	97.2	96.7	96.6	96.7

*For use with vertical flues only

Optional kits

Boiler	EVOMAX	Boiler	EVOMAX
Modulating Sequencer kit	✓	Remote indication (run & alarm)	*
Programmable Room Thermostat kit	✓	Hours run	*
Outside sensor kit	✓	BMS (0-10v) operation	*
Tank Sensor kit	✓	Weather compensation operation	*
Room sensor kit	✓	Pump kit	✓
Safety Interlock kit	✓	Multi boiler frame & header kits	✓

*Provided as standard



Condensing

EVOMOD 250 - 1000kW



Features and Benefits

- Modules up to 3 high stacking
- Stainless steel heat exchanger
- Built in module diagnostics, sequencing and remote indication
- Plain text display for fast and easy use
- Single flue outlet, system, gas and electrical connections
- Minimum footprint with easy site handling and standard doorway access
- NOx Class 5
- 2 year parts and labour warranty

General Data - EVOMOD (250 - 1000)

Model		250	500	750	1000
Boiler Output (Condensing)	kW	252.5	505	757.5	1010
Boiler Output (Non Condensing)	kW	232.5	465	697.5	930
Height	mm	860	1480	2100	1428
Width	mm	710	710	710	1420
Depth	mm	1339	1339	1339	1339
Depth inc Headers & Flue	mm	1775	2118	2118	2118
Flow Connection	inch	2½ PN16	5 PN16	5 PN16	5 PN16
Return Connection	inch	2½ PN16	5 PN16	5 PN16	5 PN16
Gas Connection	inch	R1¼	R2	R2	R2½
Nominal Flue Size	mm	150	250	250	300
Maximum Working Pressure	bar	6	6	6	6
Water Content	lit	14.8	29.6	44.4	59.2
Weight	kg	229	420	611	845
NOx Emissions	mg/kWh	39.7	39.7	39.7	39.7
Seasonal Efficiency	%	95.9	95.9	95.9	95.9

Optional kits

Boiler	EVOMOD
Water, flue and gas header pack (with and without water isolation valves)	✓
Air inlet collar	✓



Condensing

imax xtra 80 - 560kW



Features and Benefits

- Robust cast aluminium heat exchanger
- In-built commissioning and fault diagnostics
- Low NOx emissions
- Volt free contacts supplied as standard
- Meets Building Regulations 2010 (Part L2)
- Compact size - small footprint
- Fully modulating operation down to 20% of output
- Up to 107.5% nett efficiency (fully condensing)
- Fits through standard doorways

General Data - imax xtra (80 - 560)

Model	80	120	160	200	240	280	320	400	480	560
Boiler Output (Condensing) 50/30°C	25.6 - 82.2	25.6 - 123.4	32.0 - 164.5	47.1 - 207.8	51.4 - 249.4	55.6 - 290.9	75.3 - 329.0	107.5 - 415.6	116.1 - 498.8	118.3 - 581.8
Boiler Output (Non-Condensing) 80/60°C	23.3 - 77.4	23.2 - 116.0	29.0 - 154.8	43.1 - 195.4	47.0 - 234.5	51.0 - 273.6	67.8 - 311.6	97.7 - 390.8	105.5 - 469.0	107.7 - 547.2
Height	1150									
Width	600	600	600	600	600	600	1200	1200	1200	1200
Depth	1024	1024	1024	1327	1327	1327	1004	1326	1326	1326
Flow Connection (BSP)	R2"	R2"	R2"	R2"	R2"	R2"	80*	80*	80*	80*
Return Connection (BSP)	R2"	R2"	R2"	R2"	R2"	R2"	80*	80*	80*	80*
Gas Inlet Connection (BSP)	R1"	R1"	R1"	R1"	R1"	R1"	R2"	R2"	R2"	R2"
Nominal Flue Size / Concentric (mm)	150	150	150	200	200	200	200	250	250	250
Maximum Working Pressure (bar)	6									
Water Content (L)	11.0	14.3	17.5	18.4	24.0	27.2	35.0	36.8	48.0	54.4
Approx Dry Weight (kg)	132	150	168	198	215	233	336	396	430	466
Boiler Clearances	Front (mm) 600									
	Back (mm) 700 700 700 700 700 700 1000 1000 1000 1000									
	Side (mm) LH-450 RH-150 LH-450 RH-150 LH-450 RH-150 LH-450 RH-150 450 450 450 450									
Seasonal Efficiency %	95.13	95.13	95.13	95.18	95.18	95.18	95.13	95.18	95.18	95.18

*DN flange. Flow, return and gas connection sizes shown are for the optional header kit. If header kit not used: Flow & Return connections are 2 x R2. Gas connection is 2 x R1.

Optional kits

Boiler	imax xtra	
	80 - 280	320 - 560
Modulating sequence control for controlling multiple boiler installations	✓	✓
Programmable room thermostat	✓	✓
Tank sensor kit	✓	n/a
BMS control kit (0-10V)	✓	standard

Boiler	imax xtra	
	80 - 280	320 - 560
Outside sensor kit	✓	✓
Room sensor kit	✓	✓
Sequencer DHW sensor kit	✓	✓
Control interface kit	✓	standard
Flow, return & gas header kit	n/a	✓
RS air duct connector	n/a	320/400 only
Horizontal flue connector	n/a	✓
Vertical flue connector	n/a	✓

Condensing

imax plus III 95 - 330kW



Features and Benefits

- Compact size - small footprint
- High modulation - Close load matching (all models down to 11.2kW)
- 106.8% Net efficiency (fully condensing) at 30% part load
- Boilers consist of several modules giving built-in standby capability
- Robust cast aluminium heat exchanger
- Integral commissioning and fault diagnostics
- Optional flue and system connections for fast installations
- Outside and DHW sensors supplied as standard
- Meets Building Regulations 2010 (Part L2)

General Data - imax plus III (95 - 330)

Model	F95	F145	F190	F235	F285	F330
Boiler Output (Condensing) 50/30°C	12.7 - 95.9	12.7 - 144.1	12.7 - 192.4	12.7 - 241.0	12.7 - 289.9	12.7 - 339.4
Boiler Output (Non-Condensing) 80/60°C	11.2 - 93.2	11.2 - 140.0	11.2 - 197.0	11.2 - 234.7	11.2 - 282.2	11.2 - 329.5
Height	1053					
Width	695	695	834	968	1102	1236
Depth	695					
Flow/Return Connections (BSP)	R2					
Gas Inlet (BSP)	R1½					
Flue Size (mm)	150	150	150	200	200	200
Maximum Working Pressure (bar)	6					
Water Content (L)	10.1	14.2	18.3	22.4	26.5	30.6
Approx Dry Weight (kg)	156	191	230	272	312	357
Boiler Clearances	Front (mm) 600					
	Back (mm) 450* 450* 450 450 450 450					
	Side (mm) 50 (1 side) & 450 (other side), increase to 600 for side flues.					
Seasonal Efficiency %	94.57	94.60	94.65	94.69	94.72	94.73

*F90 & F140 300 if no rear flue.

Optional kits

Boiler	imax plus III
Air inlet socket and blanking plate kit	✓
Left or rear condensate level harness kit (190-330 models only)	✓
Cascade manager	✓

Gas Atmospheric

Concord CXA/H,
CXS/H 40-120kW



Features and Benefits

- Ultra reliable gas atmospheric boilers
- High, full and part load efficiencies
- Auto ignition
- Remote indication kit options
- CXA/H natural gas or propane CXA P/H (40-100kW)
- CXA/H is On/Off and CXS/H is High/Low operation

General Data - Concord CXA/H, CXS/H (40-120)

Model	40/H	50/H	60/H	70/H	80/H	90/H	100/H	110/H	120/H	
Sections	3	4	4	5	5	6	6	7	7	
Output (kW)	40	50	60	70	80	90	100	110	120	
Height	1000									
Width	600									
Depth	750	882	882	1042	1042	1212	1212	1385	1385	
Flow/Return Connections (BSP)	RC2									
Gas Inlet (BSP)	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC1	RC1	RC1	RC1	
Flue Size (mm)	150	150	175	175	200	200	200	250	250	
Maximum Working Pressure (bar)	6									
Water Content (L)	22	30	30	37	37	45	45	53	53	
Approx Dry Weight (kg)	210	265	265	330	330	395	395	490	490	
Boiler Clearances	Front (mm)	750								
	Back (mm)	0	0	0	150	150	300	300	300	
	Side (mm)	50	50	50	50	50	100	100	100	
Seasonal Efficiency %	83.56	83.44	83.28	82.44	82.60	83.69	82.16	83.57	84.84	

Optional kits

Boiler	CXA/H	CXS/H
Volt free contacts, boiler run, overheat & lockout	✓	✓
Down draft thermostat kit	✓	✓
Header kits (available from merchants)	✓	✓
Propane models	✓	

Gas Atmospheric

Concord Modular 80 - 720kW



Features and Benefits

- Suitable for Concord CXA/H and CXS/H models
- Multiple installation outputs from 80-720kW
- All servicing and maintenance from the front of boilers
- Large clean-out cover for full access to flueways
- Standard boiler width: 600mm
- Factory assembled and tested units
- Sequencer control kit available
- Remote indication kit options

General Data Concord Modular (80 - 720)

Model	40/H	50/H	60/H	70/H	80/H	90/H	100/H	110/H	120/H	
No. Boilers	2x	80kW	100kW	120kW	140kW	160kW	180kW	200kW	220kW	240kW
	3x	120kW	150kW	180kW	210kW	240kW	270kW	300kW	330kW	360kW
	4x	160kW	200kW	240kW	280kW	320kW	360kW	400kW	440kW	480kW
	5x	200kW	250kW	300kW	350kW	400kW	450kW	500kW	550kW	600kW
	6x	240kW	300kW	360kW	420kW	480kW	540kW	600kW	660kW	720kW

Optional kits

Boiler	Modular
Sequencer control kit	✓
Outside sensor kit	Mandatory



Sequencer control kit

Gas Atmospheric

Concord CXSi/H 110 - 180kW



Features and Benefits

- Ultra reliable gas atmospheric boilers
- High, full and part load efficiencies
- Auto ignition
- Remote indication kit options
- High/Low operation

General Data Concord CXSi/H (110 - 180)

Model	110/H	120/H	140/H	160/H	180/H
Sections	7	7	8	9	10
Output (kW)	110	120	140	160	180
Height	1000				
Width	1107	1107	1230	1353	1476
Depth	1036	1036	1036	1086	1140
Flow/Return Connections (mm)	Flow: DN65 Flange. Return RC2				
Gas Inlet (BSP)	RC1½				
Flue Size (mm)	250	250	250	250	300
Maximum Working Pressure (bar)	6				
Water Content (L)	53	53	60	68	76
Approx Dry Weight (kg)	520	520	587	654	721
Boiler Clearances	Front (mm)	700			
	Back (mm)	200			
	Side (mm)	100 (not including clearance for side fitted flow header)			
Seasonal Efficiency %	83.19	81.87	82.67	83.03	82.97

Optional kits

Boiler	CXSi/H
Volt free contacts, alarm & boiler run conditions	✓

Gas Atmospheric

Concord ESi 140 - 380kW



Features and Benefits

- High/Low adjustable operation on all models
- High, full and part load efficiencies
- Robust cast iron heat exchanger
- Easy to install and service
- Low return temperature capability

General Data Concord ESi (140 - 380)

Model	140	160	180	200	220	260	300	340	380
Sections	8	9	10	11	12	14	16	18	20
Output (kW)	140	160	180	200	220	260	300	340	380
Height	1406	1406	1406	1406	1406	1406	1406	1406	1406
Width	970	1058	1146	1234	1322	1498	1674	1850	2026
Depth	1362	1362	1362	1362	1362	1412	1412	1412	1462
Flow/Return Connections (BSP)	R2								
Gas Inlet (BSP)	RP1	RP1	RP1	RP1	RP1	RP1¼	RP1¼	RP1¼	RP1½
Flue Size (mm)	250	250	300	300	300	350	350	350	400
Maximum Working Pressure (bar)	6								
Water Content (L)	61	68	76	84	91	106	122	137	154
Approx Dry Weight (kg)	575	635	690	750	805	920	1035	1150	1350
Boiler Clearances	Front (mm)				1000				
	Back (measured from rear edge of jacket) (mm)				500				
	At sides Water connection side (RH or LH) (mm)				400				
	At sides Non connection side (RH or LH) (mm)				200				
Seasonal Efficiency %	81.71	82.02	82.33	82.64	82.87	83.18	83.44	83.67	83.91

Optional kits

Boiler	ESi
Hours run meter (1 or 2 hours)	✓
Flue gas thermometer	✓
DHW Sensor Kit	✓

High Efficiency

Super Series 4 50 - 600kW



Features and Benefits

- Vertical and horizontal models
- High efficiency 85% (gross)
- Low NOx emissions (class 5)
- 50kW Modules
- Sequence controlled
- Compact size
- Complete package gas/water headers

General Data Super Series 4 (50 - 600)

Model	50/V	100/V	150/V	150/VA	200/V	250/V	250/H	300/V	300/H	350/V	400/V	450/V	450/H	500/V	500/H	550/V	550/H	600/V	600/H	
Sections	1	2	3	3	4	5	5	6	6	7	8	9	9	10	10	11	11	12	12	
Output (kW)	50	100	150	150	200	250	250	300	300	350	400	450	450	500	500	550	550	600	600	
Height	782	1432	1912	1487	1487	1967	1443	1972	1443	1618	1618	2144	1345	2144	1345	2144	1345	2144	1345	
Width	439	701	701	1171	1171	1171	1783	1171	1783	1822	1822	1833	2393	1833	2393	1833	2392	1833	2393	
Depth	698	698	698	698	698	698	698	698	698	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	
Flow/Return Connections (mm)	40	50	65	65	65	80	80	80	80	100	100	125	125	125	125	125	125	125	125	
Gas Inlet (BSP)	RC¾	RC1	RC1¼	RC1¼	RC1¼	RC1½	RC1½	RC1½	RC1½	RC2	RC2	RC2	RC2	RC2	RC2	RC2	RC2	RC2	RC2	
Flue Size (mm)	125	175	200	200	250	250	250	300	300	350	350	400	400	400	400	450	450	450	450	
Maximum Working Pressure (bar)	6																			
Water Content (L)	4.5	11.9	20.7	21.7	26.2	37.7	39.7	44.5	44.5	63.3	68.1	97.6	92.6	102.4	97.4	107.2	102.2	112	107	
Approx Dry Weight (kg)	82.1	187.7	274.1	296.4	348	461	411.2	511.2	513.7	765	813	985	972	1033	1020	1080	1067	1129	1115	
Boiler Clearances	Front (mm)	950																		
	Back (mm)	25	25	25	25	25	25	25	25	950	950	950	950	950	950	950	950	950	950	
	Left (mm)	450	900	900	900	900	900	900	900	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	
	Right (mm)	450	900	900	900	900	900	900	900	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	
Seasonal Efficiency %	84.50	84.39	84.75	84.75	84.96	84.96	84.96	84.96	84.96	84.96	84.96	84.96	84.96	84.96	84.96	84.96	84.96	84.96	84.96	

Optional kits

Boiler	Super Series 4	Boiler	Super Series 4
Water flow switch for boiler protection in the event of pump failure	✓	External sequencer control kit	✓
		Module blanking off pack	✓

High Efficiency

Super Plus 200 - 600kW



Features and Benefits

- Horizontal assembly
- High efficiency 85% (gross)
- Low NOx emissions (class 5)
- 100kW Modules
- Ultra compact
- Sequence controlled
- Easy to install and service

General Data Super Plus (200 - 600)

Model	200/S	300/3	300/3A	400/4	400/4A	500/5	600/6
Modules	2	3	3	4	4	5	6
Output (kW)	200	300	300	400	400	500	600
Height	1800	1900	1900	1900	1900	1900	1900
Width	910	1510	2115	1510	2115	2115	2115
Depth	990	990	990	990	990	990	990
Flow/Return Connections (DN flange)	65	125	125	125	125	125	125
Gas Inlet (BSP)	RC1½	RC2	RC2	RC2	RC2	RC2	RC2
Flue Size (mm)	250	350	350	450	450	450	450
Maximum Working Pressure (bar)	6						
Water Content (L)	19.8	29.7	29.7	39.7	39.7	49.5	59.4
Approx Dry Weight (kg)	328.3	466.4	466.4	546.1	546.1	715.6	794.6
Boiler Clearances	Front (mm)	900					
	Back (mm)	25					
	Left (mm)	500					
	Right (mm)	500					
Seasonal Efficiency %	84.12	84.69	84.67	84.96	84.96	84.96	84.96

Optional kits

Boiler	Super Plus
Water flow switch for boiler protection in the event of pump failure	✓
Remote indication of boiler on, lockout and overheat for each module	✓
Module blanking off pack	✓

Pressure Jet

Buccaneer GTE 21 - 39kW



Features and Benefits

- Natural gas, oil fired or dual fuel
- High efficiency
- Minimal emissions
- Compact size
- Comprehensive control
- Low temperature operation

General Data Buccaneer GTE 21 - 39kW

Model	GTE 4	GTE 5	GTE 6
Sections	4	5	6
Output (kW)	21 - 27	27 - 33	32 - 39
Height (mm)		835	
Width (mm)		570	
Depth (mm)	812	939	1066
Flow/Return Connections (BSP)		R1¼	
Maximum Working Pressure (Bar)		4	
Flue Size (mm)	125	125	153
Water Content (L)	24.5	30.0	35.5
Boiler Only Dry Weight (kg)	182	210	238
Boiler Clearances	Front (mm)	1000	
	Back (mm)	500	
	Left (mm)	500	
	Right (mm)	500	
Seasonal Efficiency	(gas) %	85.51	84.18
	(oil) %	88.90	87.60

Optional kits

Boiler	Buccaneer GTE
Flue gas thermometer	✓
DHW sensor	✓

Pressure Jet

Falcon GTS 40 - 100kW



Features and Benefits

- Natural gas or oil fired
- High efficiency
- Minimal emissions
- Compact size
- Comprehensive control (on/off or high/low)
- Low temperature operation

General Data Falcon GTS 40 - 100kW

Model	GTS 4	GTS 5	GTS 6	GTS 7	GTS 8
Sections	4	5	6	7	8
Output (kW)	40 - 50	50 - 64	64 - 48	78 - 92	92 - 100
Height (mm)			1100		
Width (mm)			520		
Depth (mm)	772	899	1026	1153	1280
Flow/Return Connections (BSP)	R1¼	R1¼	R1½	R1½	R1½
Maximum Working Pressure (Bar)			4		
Flue Size (mm)	153	153	180	180	180
Water Content (L)	36	43	50	57	64
Boiler Only Dry Weight (kg)	254	296	344	381	423
Boiler Clearances	Front (mm)		1000		
	Back (mm)		500		
	Left (mm)		500		
	Right (mm)		500		
Seasonal Efficiency	(gas) %	84.37	84.54	84.79	84.77
	(oil) %	87.70	87.90	88.20	88.20

Optional kits

Boiler	Falcon GTS
DHW sensor	✓

Pressure Jet

Harrier GTS 105 - 330kW



Features and Benefits

- Natural gas, oil fired or dual fuel
- High efficiency
- Minimal emissions
- 3 pass heat exchanger
- Compact size

General Data Harrier GTS 105 - 330kW

Model	GTS 5	GTS 6	GTS 7	GTS 8	GTS 9	
Sections	5	6	7	8	9	
Output (kW)	140	180	230	280	330	
Height (mm)					1297	
Width (mm)					800	
Depth (mm)	1151	1311	1471	1631	1791	
Flow/Return Connections (DN Flange)					65	
Maximum Working Pressure (Bar)					6	
Flue Size (mm)	180	180	200	200	200	
Water Content (L)	116	136	156	176	196	
Boiler Only Dry Weight (kg)	736	846	981	1103	1230	
Boiler Clearances	Front (mm)					1500
	Back (mm)					1000
	Side - non hinge (mm)					100
	Side - door hinge (mm)					500 or 200 + burner length
Seasonal Efficiency	(gas) %	83.87	84.00	84.55	84.64	84.82
	(oil) %	87.20	87.40	87.90	88.00	88.20

Optional kits

Boiler	Harrier GTS
Flue gas thermometer	✓

Pressure Jet

Viceroy GTS 300 - 780kW



Features and Benefits

- Natural gas, oil fired or dual fuel
- High efficiency
- Minimal emissions
- 3 pass heat exchanger
- Compact size

General Data Viceroy GTS 300 - 780kW

Model	GTS 8	GTS 9	GTS 10	GTS 11	GTS 12	GTS 13	GTS 14	
Sections	8	9	10	11	12	13	14	
Output (kW)	390	450	540	600	670	720	780	
Height (mm)								1605
Width (mm)								1000
Depth (mm)	1657	1817	1977	2137	2297	2457	2617	
Flow/Return Connections (mm)	75	75	75	100	100	100	100	
Maximum Working Pressure (Bar)								6
Flue Size (mm)	250	250	250	300	300	300	300	
Water Content (L)	366	409	452	495	538	581	624	
Boiler Only Dry Weight (kg)	1802	2072	2238	2454	2638	2880	3057	
Boiler Clearances	Front (mm)	1500	2000	2000	2000	2500	2500	
	Back (mm)							1000
	Left (mm)							500
	Right (mm)							500
Seasonal Efficiency	(gas) %	83.55	82.88	84.17	83.30	83.81	83.81	
	(oil) %	86.90	86.20	87.50	86.60	87.20	87.20	

Optional kits

Boiler	Viceroy GTS
Flue gas thermometer	✓

Pressure Jet

Viscount GTS 754 - 1450kW



Features and Benefits

- Natural gas, oil fired or dual fuel
- Minimal emissions
- 4 pass heat exchanger
- Comprehensive control
- Low temperature return

General Data Viscount GTS 754 - 1450kW

Model	GTS 14	GTS 15	GTS 16	GTS 17	GTS 18	GTS 19	GTS 20	GTS 21	GTS 22	GTS 23	GTS 24	GTS 25	
Sections	14	15	16	17	18	19	20	21	22	23	24	25	
Output (kW)	812	870	928	986	1044	1102	1160	1218	1276	1334	1392	1450	
Height (mm)	1670												
Width (mm)	1172												
Depth (mm)	2105	2245	2355	2445	2555	2645	2845	2955	3045	3155	3245	3355	
Flow/Return Connections (mm)	139.7	139.7	139.7	139.7	159	159	159	159	159	159	159	159	
Maximum Working Pressure (Bar)	6												
Flue Size (mm)	450	450	450	500	500	500	500	500x700max	500x700max	500x700max	500x700max	500x700max	
Water Content (L)	655	693	731	769	807	845	905	943	981	1019	1057	1095	
Boiler Only Dry Weight (kg)	3171	3364	3561	3756	3955	4124	4343	4538	4734	4930	5107	5297	
Boiler Clearances	Front (mm)	1500											
	Back (mm)	300	436	436	656	656	656	936	936	936	1266	1266	1266
	Side-Non Hinge (mm)	500											
	Right (mm)	1200											
	(gas) %	84.29	84.23	84.91	84.26	84.33	84.55	84.48	84.73	84.53	84.34	84.64	84.97
Seasonal Efficiency	(oil) %	87.70	87.60	88.30	87.60	87.70	87.90	87.90	88.10	87.90	87.90	88.00	88.40

Optional kits

Boiler	Viscount GTS
Flue gas thermometer	✓

Pressure Jet

Vanguard L 130 - 3500kW



Features and Benefits

- Natural gas, oil fired or dual fuel
- Steel shell construction
- One or two stage operation
- High efficiency 92% net (83% gross)
- Reverse flame combination chamber design
- Easy to install and service

General Data Vanguard L 130 - 3500kW

Model	170	240	290	340	420	510	630	760	870	970	1100	1320	1570	1850	2200	2650	3000	3500	
Output (kW)	170	240	290	340	420	510	630	760	870	970	1100	1320	1570	1850	2200	2650	3000	3500	
Height (mm)	1272	1272	1372	1372	1542	1542	1542	1622	1622	1622	1622	1622	1732	1732	1892	1892	2080	2340	
Width (mm)	820	820	860	860	890	890	890	1122	1122	1122	1352	1352	1462	1462	1622	1622	1670	1920	
Depth (mm)	1214	1474	1411	1541	1606	1801	2113	1989	2184	2379	2346	2686	2781	3151	3225	3545	3835	3879	
Flow/Return Connections (mm)	65	65	80	80	100	100	100	125	125	125	150	150	175	175	200	200	200	200	
Maximum Working Pressure (Bar)	6																		
Flue Size (mm)	200	200	250	250	250	250	250	350	350	350	400	400	450	450	520	520	570	620	
Water Content (L)	190	251	264	298	398	462	565	671	753	836	1040	1242	1418	1617	2086	2324	2553	4862	
Boiler Only Dry Weight (kg)	435	510	588	629	796	919	1047	1341	1447	1553	1821	2030	2780	3280	4145	4465	5110	6700	
Boiler Clearances	Front (mm)	Same as boiler																	
	Back (mm)	500																	
	Side-Non Hinge (mm)	100																	
	Right (mm)	200+ burner length																	
	Seasonal Efficiency	(gas) %	83.04	82.98	83.02	83.03	83.09	83.02	83.22	83.40	83.34	83.42	83.56	83.40	83.47	83.47	83.73	83.82	83.02
(oil) %		86.40	86.30	86.30	86.40	86.40	86.30	86.50	86.70	86.70	86.80	86.90	86.70	86.80	86.80	87.10	87.20	86.30	86.50

New Energy Solutions

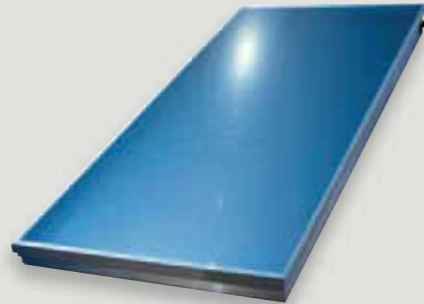
As environment concerns remain hot on the national agenda and the demand for energy efficient heating technologies continues to increase, here at Ideal, we understand that you want a reliable, long term partner that has the skills and expertise to deliver you a wide range of reliable and pragmatic solutions.

With over 100 years of manufacturing experience, you can be confident to know that our capabilities stretch beyond traditional boiler technologies, including a wide range of new energy solutions in the form of photovoltaics, solar thermal and heat pumps; all perfectly designed to meet your individual building requirements.

Ideal Solar Flat plate collectors



TS8000

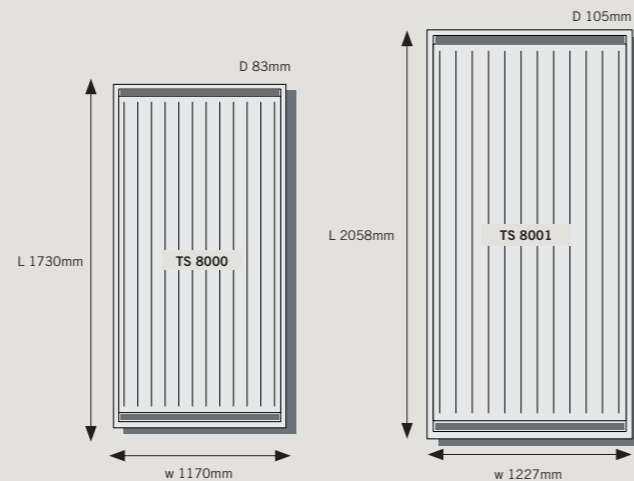


TS8001



- Two models available TS8000 & TS8001
- Light weight compact solution
- Models for in-roof, on-roof and A frame installations
- Quick and easy to install
- Ten year warranty*

*Terms and conditions apply



Ideal Solar Evacuated tube collectors & Photovoltaics

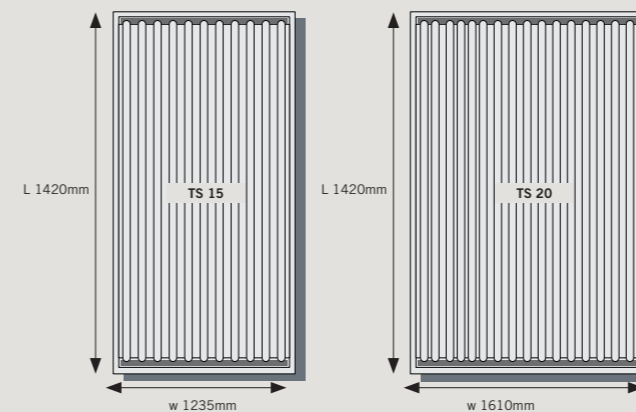


TS 15



- 15 and 20 tube options
- Excellent efficiency
- Quick and easy to install
- Toughened glass for added peace of mind
- Five year warranty*

*Terms and conditions apply

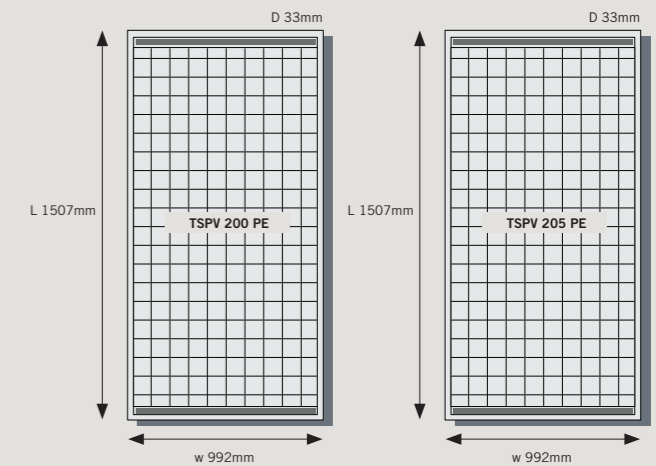


200 WP

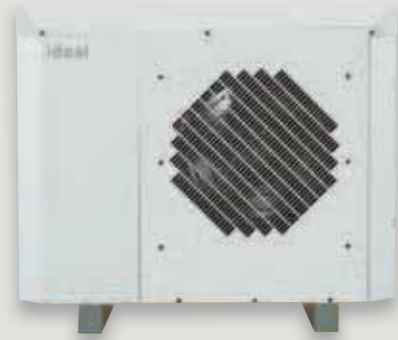


- Two sizes available 200 and 205 (wp)
- Complies with UK Feed in Tariff
- On grid and off grid solutions
- Tyco junction box fitted as standard complete with a 2m cable
- 12 year manufacturing warranty*
- 25 year performance warranty*

*Terms and conditions

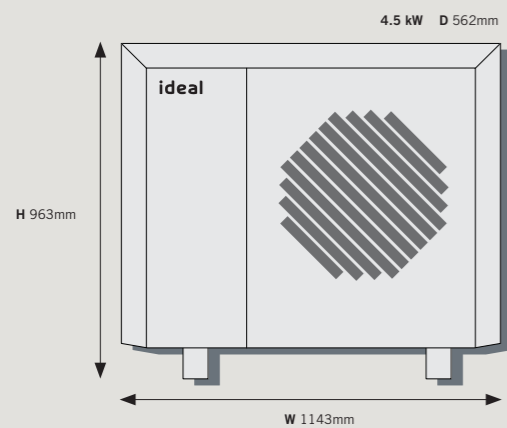


Ideal Airtherm Air source heat pumps



4.5 kW

- Designed for the UK maritime climate
- Available in 4.5, 9 and 12 KW
- Suitable for new build and retrofit installations
- Dual temperature operation for maximum efficiency
- DHW temperature control of 65C (no additional immersion heater back up)
- Two years parts and labour warranty
- Minimum defrost cycle time and conditions



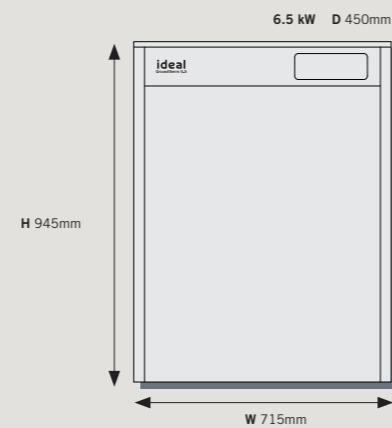
9 kW H 963 x W 1143 x D 562 (mm)
12 kW H 963 x W 1583 x D 562 (mm)

Ideal Groundtherm Ground source heat pumps



6.5 kW

- Available in 3.5, 5, 6.5 8 and 12 KW
- Suitable with bore hole, slinky and horizontal collectors
- No refrigeration certification required to install
- Space heating temperatures variable from 35C to 55C for under floor heating or radiators
- Two years parts and labour warranty



3.5 kW H 850 x W 500 x D 444 (mm)
5 kW H 850 x W 500 x D 444 (mm)
8 kW H 945 x W 715 x D 450 (mm)
12 kW H 945 x W 915 x D 465 (mm)

The Ideal Commercial product range

Boiler output	kW	20	40	100	150	200	600	800	1000	1500	3500
	Btu/h (000)	68	136	340	511	682	2047	2729	3412	5118	11942
Atmospheric Boilers											
Concord CXA/H			40-120								
Concord CXS/H			40-120								
Concord CXSi/H				110-180							
Concord ESi					140-380						
Concord Modular						80-720					
High Efficiency Boilers											
Concord Super Series 4					50-600						
Concord Super Plus						200-600					
Condensing Boilers											
evomax			30-150								
evomod							250-1000				
imax plus III					95-330						
imax xtra						80-560					
Pressure Jet Boilers											
Buccaneer GTE		21-39									
Falcon GTS			40-100								
Harrier GTS						105-330					
Viceroy GTS							300-780				
Viscount GTS								754-1450			
Vanguard L									130-3500		

Approval

These appliances are certified to G.A.D. 90/396 and B.E.D. 92/42 safety and performance Directives for gas boilers.

Ideal Commercial Heating pursues a policy of continuous improvement in design and performance of its products and reserves the right to vary specification without notice. Statutory rights of the consumer are not affected.

Please note:

The information in this brochure was correct at the time of going to print.

Ideal Heating reserve the right to make any modifications to product specifications or any other details, without prior notification. For further clarification, please enquire in writing to the head office address on the reverse of this brochure.

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BS EN ISO 9001:2008

