

# TYPE J - INDEPENDENT BOILERS

**Special Note** The rated output of independent boilers indicates the heat released to water and may or may not take account of the additional useful heat released as direct space heating to the room in which the appliance is installed depending on the standard to which the appliance has been tested. In addition to heating water, the boiler itself may provide space heating to the room by up to 6% of the published water heating rating. Boilers in this Part may be Tested to a number of accepted standards. The choice depends on the fuels they burn, its method of feeding and the siting and use to which the appliance is to be put. For each appliance the icons identify the specific standard used for testing. Where the standard requires a direct space heating output to the living area to be measured this will also be quoted and will be included in the gross efficiency figure.

The actual amount of direct space heating provided at any time will vary with the rate at which a boiler is run. In cold weather a generally faster burning rate results in more direct space heating. For the selection of suitable chimneys see the preface to *Part 2 - Factory Made Chimneys and Chimney Lining Systems*

## MCS APPROVED PRODUCT















Domestic independent boilers under this category have developed significantly over recent years and compare favourably with oil boilers. These biomass boilers are classed as being able to provide renewable energy and are incentivised under Government initiatives to contribute to carbon reduction from heating appliances. Boilers identified with the HETAS MCS product logo have been approved under the MCS product standard and are eligible to receive RHI funding. See [www.hetas.co.uk/professionals/installers/mcs-installer](http://www.hetas.co.uk/professionals/installers/mcs-installer) for details.

### Approved Fuels

Fuels regarded as suitable for the appliances in this section are listed, as approved closed appliance fuels, in *Part 3 - Wood, Biomass & Solid Mineral Fuels* of this Guide. Refer to the **Appliance Feature Icon** area for variations including wood log burning and appliances that are designed to burn only specialized wood pellets. **It should be noted that bituminous coal and wood in any of its forms including pellets is not by law permitted to be burned on appliances in Smoke Control Areas, except where the appliance has been exempted under Part II (4) of the Clean Air Act, 1993. These exempted appliances are**

**designated thus**  **in this list.**

## TYPE J2 - BATCH FED INDEPENDENT BOILERS - WOOD LOGS






























APPLIANCE NAME	HETAS ID	ICONS	FUEL TYPE	RATED OUTPUT kW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>Central Boiler Inc.</b> 20502 160th Street, Greenbush, Minnesota 56726, U.S.A				+1 218-782-2575 Karl@CentralBoiler.com www.centralboiler.com		
Classic Edge 300	J22185		Wood	30.0	83.9 / 91.2	
<i>Direct fired complete with build in buffer store. Adjust automatically to regulate output to heat demand using 3 stage combustion system. Tested to EN 303-5. Integral hot water store. Controls to regulate output to demand.</i>						
<b>CRANP-KOVO, Spol. S r.o. (Distr. By Eco Angus Ltd)</b> Unit 3G, Burnett Industrial Estate, Coxs Green, Wrington, North Somerset, BS40 5QR				01934 862 642 info@ecoangus.co.uk www.ecoangus.co.uk		
Angus Super 18kW	J20561		Wood	18.0	82.4 / 90.5	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
Angus Super 25kW	J20562		Wood	25.0	82.5 / 90.7	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
Angus Super 40kW	J20563		Wood	37.7	82.4 / 90.5	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
Angus Super 60kW	J20564		Wood	56.2	80.9 / 88.9	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						

APPLIANCE NAME	HETAS ID	ICONS	FUEL TYPE	RATED OUTPUT KW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>CRANP-KOVO, Spol. S r.o. (Distr. By Eco Angus Ltd)</b> Unit 3G, Burnett Industrial Estate, Coxs Green, Wrington, North Somerset, BS40 5QR		 <small>simple solutions for green heating suppliers of MCS accredited wood burning boilers</small>		01934 862 642 info@ecoangus.co.uk www.ecoangus.co.uk		
Angus Super 80kW	J20565	     	Wood	78.0	83.0 / 91.2	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
Angus Super 96kW	J20610	     	Wood	96.0	83.0 / 91.2	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
Angus Super 130kW	J20611	     	Wood	130.0	83.0 / 91.2	
Angus Orligno 200 18kW	J20612	      	Wood	18.0	82.4 / 90.5	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
Angus Orligno 200 25kW	J20613	      	Wood	25.0	82.5 / 90.7	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
Angus Orligno 200 40kW	J20614	      	Wood	37.7	82.4 / 90.5	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
Angus Orligno 200 60kW	J21280	     	Wood	56.2	80.9 / 88.9	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
Angus Orligno 200 80kW	J21281	     	Wood	78.0	83.0 / 91.2	
<i>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished. Tested to EN 303-5.</i>						
<b>Strebel Ltd</b> Unit 10, Invincible Road, Farnborough, Hampshire, GU14 7QU				01276 685 422 info@strebel.co.uk www.strebel.co.uk		
Turbotec 20	J21195	       	Wood	20.0	82.8 / 91.0	
<i>Tested to BS EN 303-5.</i>						
Turbotec 25	J21196	      	Wood	25.0	82.6 / 90.8	
<i>Tested to BS EN 303-5.</i>						
Turbotec 30	J21197	      	Wood	30.0	82.4 / 90.6	
<i>Tested to BS EN 303-5.</i>						
Turbotec 40	J21198	      	Wood	40.0	82.0 / 90.1	
<i>Tested to BS EN 303-5.</i>						
Turbotec 40S	J21199	       	Wood	40.0	82.0 / 90.1	
<i>Tested to BS EN 303-5.</i>						

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Boilers - Wood Logs

APPLIANCE NAME	HETAS ID	ICONS	FUEL TYPE	RATED OUTPUT kW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>Strebel Ltd</b> Unit 10, Invincible Road, Farnborough, Hampshire, GU14 7QU				01276 685 422 info@strebel.co.uk www.strebel.co.uk		
<b>Turbotec 50</b>	J21200		Wood	50.0	82.1 / 90.2	
Tested to BS EN 303-5.						
<b>Turbotec 50L</b>	J21201		Wood	50.0	81.7 / 89.8	
Tested to BS EN 303-5.						
<b>Turbotec 60</b>	J21202		Wood	60.0	82.3 / 90.4	
Tested to BS EN 303-5.						
<b>Turbotec 60L</b>	J21203		Wood	60.0	81.4 / 89.5	
Tested to BS EN 303-5.						
<b>Turbotec 70</b>	J21204		Wood	70.0	82.4 / 90.5	
Tested to BS EN 303-5.						
<b>Windhager UK</b> Tormarton Road, Marshfield, South Gloucestershire, SN14 8SR				01225 892 211 info@windhager.co.uk www.windhager.co.uk		
<b>LogWIN Premium 180</b>	J20466		Wood	17.8	83.3 / 91.5	
Tested to BS EN 303-5.						
<b>LogWIN Premium 250</b>	J20467		Wood	25.0	83.5 / 91.8	
Tested to BS EN 303-5.						
<b>LogWIN Premium 300</b>	J20468		Wood	31.1	83.7 / 92.0	
Tested to BS EN 303-5.						
<b>LogWIN Premium 360</b>	J20469		Wood	35.6	82.7 / 90.9	
Tested to BS EN 303-5.						
<b>LogWIN Premium 500</b>	J20470		Wood	49.7	82.0 / 90.1	
Tested to BS EN 303-5.						
<b>LogWIN Klassik 180</b>	J21287		Wood	18.0	82.6 / 90.8	
Tested to BS EN 303-5.						
<b>LogWIN Klassik 250</b>	J21288		Wood	25.0	82.5 / 90.7	
Tested to BS EN 303-5.						
<b>LogWIN Klassik 300</b>	J21289		Wood	30.0	82.5 / 90.7	
Tested to BS EN 303-5.						

APPLIANCE NAME	HETAS ID	ICONS	FUEL TYPE	RATED OUTPUT KW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>Zero Ridge Ltd.</b> Zero Ridge Ltd., Much Marcle, Herefordshire, UK				+44 (0)1531 584 000 info@zeroridge.co.uk		
Euro 45 kW	J22123	     	Wood	45.0	82.2 / 90.3	
Tested to BS EN 303-5						
Thermodual TDA 25	J22124	     	Wood	30.0	85.1 / 93.5	
Dual Fuel source. The performance data given here is for burning wood logs by manual filling. The pellet burner is used to ignite the manual loaded logs and will also automatically fire, once the logs have been consumed, to meet any additional demands for heat from the system.						
Thermodual TDA 40	J22125	     	Wood	38.0	81.4 / 89.5	
Dual Fuel source. The performance data given here is for burning wood logs by manual filling. The pellet burner is used to ignite the manual loaded logs and will also automatically fire, once the logs have been consumed, to meet any additional demands for heat from the system.						
R 20	J22126	     	Wood	20	83.1 / 91.3	
Tested to BS EN 303-5						

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Boilers - Pellet or Chip





























## TYPE J5 - AUTOMATIC FEED INDEPENDENT BOILERS - WOOD PELLETS OR CHIPS

























The boilers listed in this section are designed to burn only specialised manufactured pelletised wood fuels (wood pellets) or carefully dried and sized wood chips. Automatic fuel feeding is usually effected by means of a motorized auger from a manually filled storage hopper. The method of feeding the fire may be from underneath (sometimes called an underfeed stoker) or fuel may "drop in" from above the firebed or be fed in from the side.

The boilers will have electronic control of the output via the fuel feeding rate which will be regulated by the demand for heat placed upon the system. They are designed for providing both central heating and hot water services through the heating controls in a fully pumped system. Domestic hot water must always be heated via an indirect cylinder. Rated outputs are based on the heat given to water and the efficiency values are direct water heating efficiency except when a Direct Room Heating output is quoted as in the case when testing to BS EN 14785 (see also special note at the beginning of Part J). The Standard for testing used is quoted for each appliance. All boilers will be fitted with thermostats for control of water temperatures and overheating of the system will be protected by safety temperature limiters.

Larger boilers are often designed for installation in their own boiler room and sometimes they will require an additional separate building to house a large hopper and fuel-feed system. With these larger boilers the installation of the hot water system will usually require a heat storage buffer (accumulator and energy management controls. Manufacturer's will provide all the necessary technical information regarding this in their installation and operating instructions. As a result of the high efficiencies at which these boilers can operate the flue temperatures may be much lower than is conventional for solid fuel appliances. The manufacturer is required to provide the necessary technical information regarding the designation of the flue liner or chimney flue that should be installed with the boiler. These will where necessary require special systems to tolerate condensate attack and will be soot fire resistance.

APPLIANCE NAME	HETAS ID	ICONS	OUTPUT MODE	RATED OUTPUT KW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>Aico Spa</b> Via Kupfer, 31 25036, Palazzolo sul'Oglio (BS), Italy				+39 030 7402939 info@ravelligroup.it www.eng.ravelligroup.it		
HR Evo 170	J52192	       	Full Load	16.2	88.0 / 95.7	
			Part Load	4.2	87.5 / 95.1	
HR Evo 250	J52193	       	Full Load	22.0	86.9 / 94.5	
			Part Load	4.2	87.5 / 95.1	
HR Evo 290	J52194	       	Full Load	27.4	86.9 / 94.5	
			Part Load	5.8	82.9 / 90.1	










APPLIANCE NAME	HETAS ID	ICONS	OUTPUT MODE	RATED OUTPUT KW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>Aico Spa</b> Via Kupfer, 31 25036, Palazzolo sul'Oglio (BS), Italy				+39 030 7402939 info@ravelligroup.it www.eng.ravelligroup.it		
HR Evo 350	J52195		Full Load	32.4	86.7 / 94.2	
			Part Load	5.8	82.9 / 90.1	
HR Evo 390	J52196		Full Load	34.9	84.0 / 91.3	
			Part Load	5.8	82.9 / 90.1	
<b>Cola Stoves UK</b> Lichfield Road, Branston Industrial Estate, Burton upon Trent, Staffs, DE14 3HD				0843 479 0009 sales@colastoves.co.uk www.colastoves.co.uk		
Domusfire C17HR	J51420		Full Load	16.2	88.0 / 95.7	
			Part Load	4.2	87.5 / 95.1	
Tested to BS EN 303-5.						
Domusfire C24HR	J51421		Full Load	22.0	86.9 / 94.5	
			Part Load	4.2	87.5 / 95.1	
Tested to BS EN 303-5.						
Domusfire C29HR	J51422		Full Load	27.4	86.9 / 94.5	
			Part Load	5.8	82.9 / 90.1	
Tested to BS EN 303-5.						
Domusfire C35HR	J51423		Full Load	32.4	86.6 / 94.2	
			Part Load	5.8	82.9 / 90.1	
Tested to BS EN 303-5.						
Domusfire C39HR	J51424		Full Load	34.9	84.0 / 91.3	
			Part Load	5.8	82.9 / 90.1	
Tested to BS EN 303-5.						
<b>CRANP-KOVO, Spol. S r.o. (Distr. By Eco Angus Ltd)</b> Unit 3G, Burnett Industrial Estate, Coxs Green, Wrington, North Somerset, BS40 5QR				01934 862 642 info@ecoangus.co.uk www.ecoangus.co.uk		
Angus Orligno 500 25kW	J50817		Full Load	25.0	83.9 / 90.6	
			Part Load	7.3	83.9 / 90.6	
255 litre built in hopper. Tested to EN 303-5.						
Angus Orligno 400 16kW	J51328		Full Load	16.0	82.2 / 89.4	
			Part Load	4.0	81.6 / 88.7	
Tested to BS EN 303-5.						
Angus Orligno 400 30kW	J51329		Full Load	30.0	84.5 / 91.8	
			Part Load	7.8	85.6 / 93.0	
Tested to BS EN 303-5.						
<b>Firebird Heating Ltd</b> Phoenix House, Eastern Wood Road, Langage Industrial Estate, Plymton, Plymouth, PL75ET				01752 691 177 sales@firebird.uk.com www.firebird.uk.com		
Tavistock 12	J51942		Full Load	11.4	84.7 / 92.0	
			Part Load	3.1	84.7 / 92.1	
Tested to BS EN 303-5						
Tavistock 18	J51943		Full Load	16.5	84.0 / 91.3	
			Part Load	3.1	84.7 / 92.1	
Tested to BS EN 303-5						

APPLIANCE NAME	HETAS ID	ICONS	OUTPUT MODE	RATED OUTPUT KW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>Firebird Heating Ltd</b> Phoenix House, Eastern Wood Road, Langage Industrial Estate, Plymton, Plymouth, PL75ET				01752 691 177 sales@firebird.uk.com www.firebird.uk.com		
Tavistock 24	J51944		Full Load	22.0	82.8 / 90.3	
			Part Load	6.1	82.8 / 90.3	
Tested to BS EN 303-5						
Tavistock 35	J51945		Full Load	30.8	83.0 / 90.2	
			Part Load	6.1	83.0 / 90.3	
Tested to BS EN 303-5						
<b>Solzaima</b> Rua dos Outerlos 111, 3750-362 Belazaima do Chao, Portugal				+351 234 650 650 mail@solzaima.co.uk www.solzaima.co.uk		
SZM A 18kW	J51722		Full Load	18.0	82.9 / 90.0	
			Part Load	5.6	80.7 / 87.8	
Tested to EN 303-5.						
SZM A 24kW	J51723		Full Load	24.0	83.0 / 90.2	
			Part Load	5.6	80.7 / 87.8	
Tested to EN 303-5.						
SZM A 30kW	J51724		Full Load	30.0	82.9 / 90.2	
			Part Load	5.6	80.7 / 87.8	
Tested to EN 303-5.						
<b>Warmflow Engineering Ltd</b> Lissue Industrial Estate, Moira Road, Lisburn, Northern Ireland, BT28 2RF				028 9262 1515 info@warmflow.co.uk www.warmflow.co.uk		
WS18 WP18	J51305		Full Load	18.0	85.7 / 92.9	
	J51306		Part Load	4.0	83.1 / 90.1	
Tested to EN 303-5.						
<b>Windhager UK</b> Tormarton Road, Marshfield, South Gloucestershire, SN14 8SR				01225 892 211 admin@windhager.co.uk www.windhager.co.uk		
BioWIN 102 Klassik BioWIN 102 Premium BioWIN 102 Exklusiv	J51238		Full Load	9.9	86.8 / 94.4	
	J51239		Part Load	3.0	82.4 / 89.6	
Tested to EN 303-5.						
BioWIN 152 Klassik BioWIN 152 Premium BioWIN 152 Exklusiv	J51241		Full Load	15.0	86.3 / 93.8	
	J51242		Part Load	4.3	84.6 / 92.0	
Tested to EN 303-5.						
BioWIN 212 Klassik BioWIN 212 Premium BioWIN 212 Exklusiv	J51244		Full Load	21.0	86.3 / 93.8	
	J51245		Part Load	6.3	84.6 / 92.0	
Tested to EN 303-5.						
BioWIN 262 Klassik BioWIN 262 Premium BioWIN 262 Exklusiv	J51247		Full Load	25.9	86.4 / 93.9	
	J51248		Part Load	7.6	86.3 / 93.8	
Tested to EN 303-5.						

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Boilers - Pellet or Chip

APPLIANCE NAME	HETAS ID	ICONS	OUTPUT MODE	RATED OUTPUT kW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<p><b>Windhager UK</b> Tormarton Road, Marshfield, South Gloucestershire, SN14 8SR</p> <p style="text-align: center;"><b>windhager</b> <small>SINCE 1921</small> HEAT WITH VISION</p> <p style="text-align: right;">01225 892 211 admindesk@windhager.co.uk www.windhager.co.uk</p>						
BioWIN Excel 350	J51284		Full Load	35.0	83.9 / 91.2	
			Part Load	10.0	81.7 / 88.8	
<i>Tested to EN 303-5.</i>						
BioWIN Excel 450	J51285		Full Load	45.0	83.4 / 90.7	
			Part Load	13.5	82.2 / 89.3	
<i>Tested to EN 303-5.</i>						
BioWIN Excel 600	J51286		Full Load	60.0	82.9 / 90.1	
			Part Load	18.0	82.8 / 90.0	
<i>Tested to EN 303-5.</i>						
BioWIN Lite 102	J51635		Full Load	9.9	86.8 / 94.4	
			Part Load	3.0	82.6 / 89.6	
<i>Tested to EN 303-5.</i>						
BioWIN Lite 152	J51636		Full Load	15.0	86.3 / 93.8	
			Part Load	4.3	84.6 / 92.0	
<i>Tested to EN 303-5.</i>						
BioWIN Lite 212	J51637		Full Load	21.0	86.4 / 93.9	
			Part Load	6.3	85.7 / 93.1	
<i>Tested to EN 303-5.</i>						
BioWIN Lite 262	J51638		Full Load	25.9	86.4 / 93.9	
			Part Load	7.6	86.3 / 93.8	
<i>Tested to EN 303-5.</i>						
BioWIN 332 Exklusiv	J51639		Full Load	32.5	87.2 / 94.8	
			Part Load	9.8	88.0 / 95.7	
<i>Tested to EN 303-5.</i>						
PuroWIN PW 24	J51655		Full Load	24.0	85.1 / 93.5	
			Part Load	7.2	85.0 / 93.4	
<i>Tested to EN 303-5.</i>						
PuroWIN PW 30	J51656		Full Load	30.0	85.0 / 93.4	
			Part Load	9.0	84.6 / 93.0	
<i>Tested to EN 303-5.</i>						
PuroWIN PW 40	J51657		Full Load	40.0	85.4 / 93.8	
			Part Load	12.0	85.2 / 93.6	
<i>Tested to EN 303-5.</i>						
PuroWIN PW 49	J51658		Full Load	49.0	85.7 / 94.2	
			Part Load	14.7	85.5 / 94.0	
<i>Tested to EN 303-5.</i>						
PuroWIN PW 60	J51659		Full Load	60.0	86.2 / 94.7	
			Part Load	18.0	86.0 / 94.5	
<i>Tested to EN 303-5.</i>						
<p><b>Zero Ridge Ltd.</b> Zero Ridge Ltd., Much Marcle, Herefordshire, UK</p> <p style="text-align: center;"></p> <p style="text-align: right;">+44 (0)1531 584 000 info@zeroridge.co.uk</p>						
Compact 45 (Wood Chip)	J52127		Full Load	45.0	83.4 / 91.7	
			Part Load	13.5	84.6 / 91.7	
<i>Tested to BS EN 303-5</i>						

APPLIANCE NAME	HETAS ID	ICONS	OUTPUT MODE	RATED OUTPUT kW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>Zero Ridge Ltd.</b> Zero Ridge Ltd., Much Marcle, Herefordshire, UK				+44 (0)1531 584 000 info@zeroridge.co.uk		
<b>Compact 45 (Compressed Wood Pellets)</b>	J52128		Full Load	45.0	83.4 / 90.7	
			Part Load	13.5	76.5 / 83.2	
<i>Tested to BS EN 303-5</i>						
<b>K Series 26 v2</b>	J52129		Full Load	25.9	85.5 / 92.9	
			Part Load	7.5	85.5 / 92.9	
<i>Tested to BS EN 303-5</i>						
<b>Thermodual TDA 25</b>	J52130		Full Load	25.0	84 / 90.7	
			Part Load	4.4	84.2 / 90.9	
<i>Dual fuel source. The performance data given here is for automatic firing on wood pellets</i>						
<b>Thermodual TDA 40</b>	J52131		Full Load	38.0	83.9 / 90.6	
			Part Load	9	83.4 / 90.1	
<i>Dual fuel source. The performance data given here is for automatic firing on wood pellets</i>						

J5

Condensing Biomass Boilers

## TYPE J6 - CONDENSING BIOMASS BOILERS

This section lists approved automatic pellet fed independent boilers that under normal operating conditions, and at certain operating water temperatures have the facility to partially condense the water vapour contained within the products of combustion, making use of the latent heat for heating purposes. The liquid condensate formed within the heat exchanger is discharged from the appliance via a condensate drain to a suitable foul water system.

The performance for these appliances is given when operating both with condensation and also without condensation. Boilers of this type incorporate a “wash down” system which uses mains water to wash through the condensate drainage system to ensure it is kept clear of any deposits which might cause blockage.






There is no harmonised testing standard that applies specifically to condensing biomass boilers at present.

The Microgeneration Certification Scheme (MCS) certifies condensing pellet fired boilers against the requirements of their own published scheme standard MCS008 and it Annex A. The Annex details the extra performance and construction requirements, specific to condensing wood pellet fired boilers, and additional to the requirements for CE marking of non-condensing independent boilers, of the standard BS EN 303-5. For HETAS approval of these appliances, the same approach has been adopted.























### Approved Fuels

The permitted fuel to be used on this type of appliance is limited to wood pellets certified to EN 14961-2 class A1 in order to ensure their safe and correct operation.

*Please Note:* These appliances are essentially automatic fed independent boilers when operated in non-condensing mode, and the introductory notes within Section J5 of this guide should be taken into consideration along with the notes given above.

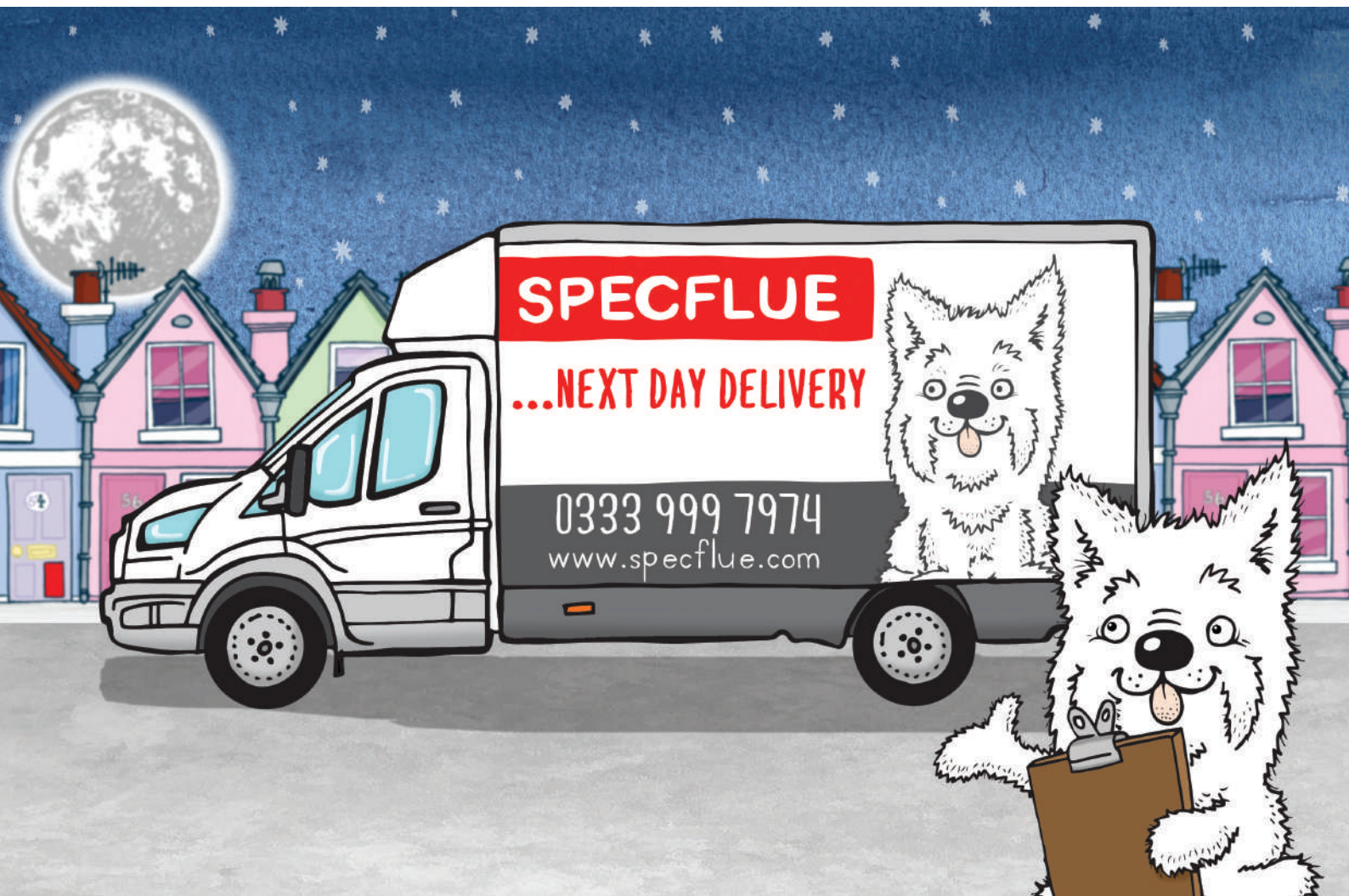
APPLIANCE NAME	HETAS ID	ICONS	OUTPUT MODE	RATED OUTPUT kW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>Grant Engineering (IRE) ULC</b> Crinkle, Birr, Co.Offaly, Ireland				+353 (0) 57 912 0089 info@grantengineering.ie www.grantengineering.ie		
<b>Grant Spira 5-18kW (Performance without Condensation)</b>	J62069		Full Load	17.8	87.9 / 95.5	
			Part Load	5.6	83.0 / 90.2	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Spira 6-26kW (Performance without Condensation)</b>	J62070		Full Load	26.0	86.7 / 94.2	
			Part Load	8.0	88.7 / 96.4	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						



APPLIANCE NAME	HETAS ID	ICONS	OUTPUT MODE	RATED OUTPUT kW WATER	EFFICIENCY % GROSS / NET	PRODUCT IMAGE
<b>Grant Engineering (IRE) ULC</b> Crinkle, Birr, Co.Offaly, Ireland				+353 (0) 57 912 0089 info@grantengineering.ie www.grantengineering.ie		
<b>Grant Spira 9-36kW</b> (Performance without Condensation)	J62071		Full Load	36.0	85.7 / 93.2	
			Part Load	11.0	90.3 / 98.1	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Spira 5-18kW</b> (Performance with Condensation)	J62072		Full Load	17.8	92.0 / 100.0	
			Part Load	5.6	89.2 / 97.0	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Spira 6-26kW</b> (Performance with Condensation)	J62073		Full Load	26.0	92.2 / 100.2	
			Part Load	8.0	91.1 / 99.0	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Spira 9-36kW</b> (Performance with Condensation)	J62074		Full Load	36.0	92.5 / 100.5	
			Part Load	11.0	95.3 / 100.3	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Engineering (UK) Ltd</b> Hopton House, Hopton Industrial Estate, Devizes, SN10 2EU				01380 736920 info@grantuk.com www.grantuk.com		
<b>Grant Spira 5-18kW</b> (Performance without Condensation)	J61487		Full Load	17.8	87.9 / 95.5	
			Part Load	5.6	83.0 / 90.2	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Spira 6-26kW</b> (Performance without Condensation)	J61488		Full Load	26.0	86.7 / 94.2	
			Part Load	8.0	88.7 / 96.4	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Spira 9-36kW</b> (Performance without Condensation)	J61489		Full Load	36.0	85.7 / 93.2	
			Part Load	11.0	90.3 / 98.1	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Spira 5-18kW</b> (Performance with Condensation)	J61596		Full Load	17.8	92.0 / 100.0	
			Part Load	5.6	89.2 / 97.0	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Spira 6-26kW</b> (Performance with Condensation)	J61597		Full Load	26.0	92.2 / 100.2	
			Part Load	8.0	91.1 / 99.0	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						
<b>Grant Spira 9-36kW</b> (Performance with Condensation)	J61598		Full Load	36.0	92.5 / 100.5	
			Part Load	11.0	95.3 / 100.3	
<i>Tested to BS EN 303-5 and Annex A of MCS 008.</i>						

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