



**ACS.WATLP2  
SAFETY ASSESSMENT CRITERIA  
INITIAL.DOMESTIC.LPG  
CARAVAN WATER HEATERS**

**WATLP2****INITIAL****Introduction**

Tests gas safety competence in install, exchange, commission, disconnect, maintain, service, repair and break down domestic LPG gas water heating appliances in motorised and touring caravans.

DUE TO THE NATURE OF THE APPLIANCES COVERED BY THIS ASSESSMENT, IT IS NOT GUARANTEED TO MAINTAIN THIS ASSESSMENT IN ACCORDANCE WITH NORMATIVE STANDARDS. WHILE EVERY EFFORT IS MADE TO CATER FOR NEW APPLIANCES ON THE MARKET, THE ASSESSMENT MAY NOT CATER FOR ALL AVAILABLE MODELS. PARTICULAR ATTENTION HAS TO BE GIVEN TO MANUFACTURERS' INSTRUCTIONS.

CBs may adopt Competence and Criteria numbering different to that used in this document.

CB documentation may adopt wording for criteria different to that used in this document, provided the meaning is unaffected.

**Range**

Caravan water heaters such as Cascade Rapide, Cascade Rapide GE, Belling Malaga and Malaga 'E'.

**Pre-requisites**

CCLP1 LAV or CoNGLP1 LAV.

**Exclusions**

Installation of water supplies, water taps to sinks/baths, showers; electrical work; penetration of structure of the caravan.

**References and normative documents**

MI.s.

All relevant documents as listed in the Legislative, Normative & Informative Document List (LINDL), inc.:

- HSL56
- BS 5482-2
- BS EN 721
- BS EN 1949
- GIUSP.

ACS.SMB. 003.ACRND identifies documents that should be held by ACs.

**Abbreviations**

AC. Assessment Centre  
 CB. Certification Body  
 FSD. Flame supervision device  
 MI.s. Manufacturer's/manufacturers' instructions  
 OP. Operating pressure  
 Ref. Reference.

<b>PERFORMANCE CRITERIA</b>		<b>REF</b>	
1.	check appliance assembly is complete and is fit for purpose		✓
2.	isolate gas supply prior to work commencing		✓
3.	check flue hole through caravan wall is correct dimensions, lined and positioned to MIs		✓
4.	make water hose connections and pass appliance through flue aperture and seal to caravan wall		✓
5.	adequately support appliance and secure to wall		✓
6.	make gas connection using 8 mm diameter pipe and appropriate fittings		✓
7.	re-establish gas supply		✓
8.	check work carried out is gas tight		✓
9.	dismantle and clean appliance operational gas components, using appropriate cleaning methods and agents, e.g. burner, injectors, primary air ports, ignition, FSDs, combustion chambers and flue ways		✓
10.	<b>commission appliance:</b>		
(i)	purge appliance of air		✓
(ii)	ensure system is full of water		✓
(iii)	turn on 12 V supply		✓
(iv)	press 'on' button. A continuous green light indicates appliance is operating		✓
(v)	check OP at appliance		✓
(vi)	check burner flame picture, stability and ignition		✓
(vii)	check user controls are operating correctly		✓
(viii)	check safety control devices are operating correctly (atmospheric sensing device)		✓
(ix)	check temperature controls are operating correctly		✓
(x)	adjust appliance to give correct temperature rise and output		✓
11.	identify defects on gas safety components		✓
12.	explain safe operation and use of appliance		✓
<b>KNOWLEDGE AND UNDERSTANDING</b>		<b>REF</b>	
1.	identifying unsafe conditions - understand sequences of indicator lights		✓
2.	diagnosis of gas safety faults		✓
3.	suitable and unsuitable appliance room/space locations		✓
4.	effects of a scaled heat exchanger		✓
5.	effect of ineffective appliance case seals		✓
6.	operation of mechanical and electrical gas safety control devices e.g. fusible link, pressure relief valve		✓
7.	clearances - proximity of combustible materials - fire proofing of compartments		✓