Strategic Management Board

ACS.DAH1
SAFETY ASSESSMENT CRITERIA
INITIAL & RE-ASSESSMENT.
DOMESTIC
NATURAL GAS & LPG
DUCTED AIR HEATERS

DAH 1	INITIAL & RE-ASSESSMENT

Introduction

Tests gas safety competence to install, commission, exchange, disconnect, service, repair and break down domestic gas fired ducted air heaters of heat input ≤ 70 kW.

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.

Appliance range

~~Open flue natural convection, open flue fan assisted~~, up flow, down flow and horizontal flow models.

Pre-requisites
Initial
CCN1, CCLP1, equivalent changeover combination or equivalent aligned QCF or S/NVQ

Re-assessment
DAH1 , Group Competency Certificate for DAH1 .

Exclusions

Distribution duct work, grilles, building and electricity.

References and normative documents

Appliance MIs.

All relevant documents as listed in the Legislative, Normative & Informative Document List (LINDL), inc.:
- HSL56
- BS 5864
- GIUSP.

ACS.SMB.003.ACDND identifies Normative Documents that should be held by ACs.

Abbreviations

AC. Assessment Centre
FSD. Flame supervision device
I. Initial
MIs. Manufacturer's/manufacturers' instructions
OP. Operating pressure
Ref. Reference.

PERFORMANCE CRITERIA		REF	I	R
1.	check compartment construction and ventilation meet current requirements		✓	
2.	check appliance assembly is complete and fit for use and purpose		✓	✓
2a	check gas supply pipe in acceptable position for appliance			✓
2b	check appliance and fittings are installed using appropriate materials and fittings, to MIs and Normative Documents			✓
2c	check appliance and fittings are installed using appropriate materials and fittings, to MIs and Normative Documents			✓
3.	isolate gas supply prior to work		✓	✓
3a	inspect and test burners, injectors, primary air ports, filters, heat exchanger, flue-ways, ignition, FSD, thermostats and other gas safety components for correct operation to MIs			✓
4.	~~disconnect and remove existing heater~~		~~✓~~	
5.	position replacement heater in compartment		✓	
6.	size, locate and install ~~adapt~~ plenum base to fit replacement appliance		✓	
7.	size, locate and ~~adapt~~ Install return air duct to fit replacement appliance (OQ/PAWS SCENARIO for RS models if O/ F model not available)		✓	
8.	make a suitable rigid connection between gas point and appliance		✓	
9.	connect open flue or room sealed flue assembly to appliance		✓	✓
10.	re-establish gas supply		✓	✓
11.	check work carried out is gas tight		✓	✓
12.	check appliance is correctly located, level and stable		✓	
13.	dismantle and clean appliance operational gas safety components, using appropriate cleaning methods and agents, e.g. burners, injectors, primary air ports, ignition devices, thermostats, taps, FSDs and air filters		✓	
14.	**commission appliance:**			
(i)	purge of air		✓	✓
(ii)	check operating pressure and/or gas rate at appliance	MI's	✓	✓
(iii)	check burner flame picture, stability and ignition are correct		✓	✓
(iv)	check user controls are operating correctly		✓	✓
(v)	check safety control devices are operating correctly		✓	✓
(vi)	check temperature controls are operating correctly		✓	✓
(vii)	check plenum/return air ducts are fixed correctly and adequately sealed		✓	✓
(viii)	check flue is correctly clearing products of combustion		✓	✓
(x)	ensure appliance safe to use		✓	✓
15.	identify defects on gas safety components		✓	✓
15a	carry out combustion performance analysis to MIs and record (OQ or PAWS)		✓	✓
16.	explain safe operation and use of appliance		✓	✓
KNOWLEDGE & UNDERSTANDING		**REF**	**I**	**R**
1.	identifying unsafe AR & ID Installation conditions		✓	✓
2.	diagnosing gas safety faults		✓	
3.	causes and effects of split heat exchangers		✓	
4.	suitable and unsuitable locations/compartments – fire proofing		✓	
5.	air filters and their effects on appliance		✓	
6.	requirements when combustion air is supplied by heater's circulating fan		✓	
7.	condensate removal and disposal		✓	
8.	CO and combustion ratio checks using an ECGA when commissioning a condensing appliance incorporating air/gas ratio control valve technology	MI's	✓	✓
9.	2 or more domestic appliances fitted within a single space with an aggregate total in excess of 70kW	BS 5440-2	✓	✓