DAXOM UK LTD

SAP & RdSAP Assessment Guidance

Direct-acting electric boilers | November 2026

Product Characteristics Database (PCDB)

Direct-acting electric boilers can be assessed using the standard efficiency values in SAP. Individual product registration in the PCDB is not necessary to establish this default boiler efficiency.

SAP classification

Heating system	Direct-acting electric boiler
SAP 10.3 system code	191
Default space-heating efficiency	100%
Fuel	Electricity
Distribution	Wet radiators or underfloor heating

Domestic hot water and system losses

For combi models with integrated hot-water storage, the assessor must account for the applicable cylinder characteristics and storage losses. Instantaneous and separate hot-water arrangements must be assessed according to the installed system. The default boiler efficiency does not exclude auxiliary electricity use, storage or distribution losses, or guarantee an EPC rating.

Official assessment references

SAP 10.3, Table 4a (heating systems), and RdSAP 10.0.1 for existing dwellings. The assessor should use the methodology applicable to the jurisdiction, property and project, including any transitional arrangements.

GOV.UK: Standard Assessment Procedure

This guidance is not a product safety certificate or evidence of Building Regulations compliance for an individual installation.