

Energy performance of buildings - Method for calculation of system energy requirements and system efficiencies - Part 4-2: Space heating generation systems, heat pump systems, Module M3-8-2, M8-8-2

Performance énergétique des bâtiments -
Méthode de calcul des besoins énergétiques
et des rendements des systèmes - Partie 4-2 :
Systèmes de génération de chauffage des
locaux, systèmes de pompes à chaleur
Module M3-8-2, M8-8-2

Energetische Bewertung von Gebäuden -
Verfahren zur Berechnung der
Energieanforderungen und Nutzungsgrade
der Anlagen - Teil 4-5: Fernwärme und
Fernkälte, Modul M3-8-5, M4-8-5, M8-8-5,
M11-8-5

This corrigendum becomes effective on 18 October 2017 for incorporation in the official English version of the EN.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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1 Modifications to Table D.3

Move the table on a landscape page to have a full view of the formulas:

Table D.3 — COP and efficiency based on Carnot cycle

Reference testing point	Carnot COP COP_{exer}	Load Ratio $LR_{exer;XX}$	Exergetic efficiency $f_{LR,exer;XX}$
Formula Used ^a	$\frac{\vartheta_{gen,out}(t) + 273,15 - \frac{\Delta\vartheta_{gen,out}(t)}{2}}{\vartheta_{gen,out}(t) - \vartheta_{gen,in}(t) - \frac{(\Delta\vartheta_{gen,out}(t) - \Delta\vartheta_{gen,in}(t))}{2}}$	$\frac{COP_{exer;XX}}{COP_{exer;biv}} \times \left[\frac{(\vartheta_{out;biv} + 273,15 - 0,5\Delta\vartheta_{out;biv}) / (\vartheta_{in;biv} + 273,15 + 0,5\Delta_{in;biv})}{(\vartheta_{out;XX} + 273,15 - 0,5\Delta_{out;X}) / (\vartheta_{in;XX} + 273,15 + 0,5\Delta_{in;XX})} \right]^{n_{exer}}$	$\frac{COP_{ref;XX}}{COP_{exer;XX}}$
A	$COP_{exer;A}$	$LR_{exer;A}$	$f_{LR,exer;A}$
B	$COP_{exer;B}$	$LR_{exer;B}$	$f_{LR,exer;B}$
C	$COP_{exer;C}$	$LR_{exer;C}$	$f_{LR,exer;C}$
D	$COP_{exer;D}$	$LR_{exer;D}$	$f_{LR,exer;D}$
E (biv)	$COP_{exer;BIV}$	$LR_{exer;BIV}$	$f_{LR,exer;biv}$
F (TOL)	$COP_{exer;TOL}$	$LR_{exer;TOL}$	$f_{LR,exer;TOL}$
G			
Description	Symbol	Unit	Test results
Power thermostat OFF	P_HTO	W	
Power Standby	P_stby	W	
Power Off mode	P_off	W	
Degradation factor	F_cd	-	
^a Formulas include the temperature spreads ($\Delta\vartheta$) that are neglected in the standard ($\Delta\vartheta = 0$).			