

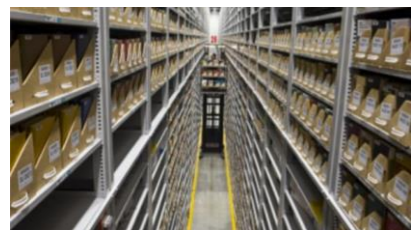


INTERNAL	
ORGANISATION	CLIMATE & NOTES

ROBOTIZED STORAGE	
	existing
	in planning, development or construction
	dreams

EXTERNAL	
ORGANISATION	CLIMATE & NOTES

ROBOTIZED STORAGE	
Speicherbibliothek Buron	8-22C, ~50%
British Library - 1 (Boston Spa)	16 C, 52%, low oxygen
British Library - 2 (Boston Spa, newspaper)	52%, low oxygen
Middle Temple	using third party 18-20C 50%?
KB (National Library of the Netherlands)	10-22C, 40-55%, energy neutral, climate resistant (flooding, rains), > 100 years, future proof (extendable), efficient, good quality architecture, robotized, total collection on 1 site, low ox
BNF - Bibliotheque Nationale de France	10-22C, 40-55%
BNF - Bibliotheque Nationale de France	all robotized, for special collections as well
UBA (University Library Amsterdam)	no climate control
UCD (University College Dublin)	20 M budget, possibly for remote or automated storage
NLL (National Library of Latvia)	
Leiden UB (Univeristy Library)	
British Library 3rd store	provide a national storage co-op approach - Amazon style
KB	no storage, all digitized (but for special collections)



INTERNAL	
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SUPER HIGH DENSITY (HARVARD)	
Royal Danish Library	Super high density, static and compact

EXTERNAL	
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SUPER HIGH DENSITY (HARVARD)	
Bodleian Libraries	18C +/- 1, 55+/- 2% (super high density (Harvard))
BNF - 3 (Russy St Georges) (Bibliotheque Nationale de France)	18 C, 45/55% --> 18 C, 45/55% (static, compact, super high density)
University of Edinburgh	oversized racks, use of machines, but not as high as Harvard model. To meet British Standards --> ... fluctuation
Bodleian Libraries	expansion by 25-100% Passivhaus standard?
University of Edinburgh	development of existing store
BNF (Bibliotheque Nationale de France)	10-22C, 40-55%



INTERNAL		EXTERNAL	
ORGANISATION	CLIMATE & NOTES	ORGANISATION	CLIMATE & NOTES
COMPACT LIBRARY STORAGE		COMPACT LIBRARY STORAGE	
UCD - 1 (University College Dublin)	18 C +/- 2, no RH control (in library closed store)	UCD - 2 (University College Dublin) on campus	16-18 C, no RH control (on campus, compact shelving)
UCD - 3 (University College Dublin)	18 C, 50-55% (closed storage rooms, compact shelving)	NA - 2 (National Archives of the Netherlands, Emmen)	16-18C, 50%
NA - 1 (National Archives of the Netherlands)	16-18C, 50 +/- 5% --> 16-21 C, 35-45%	BNF - 3 (Russy St Georges) (Bibliotheque Nationale de France)	18 C, 45/55% --> 18 C, 45/55% (static, compact, super high density)
BNF - 1 (Bibliotheque Nationale de France)	18 C, 45-55% (static and compact)	Bodleian Library	compact and static across 30 sites, conditions vary widely
BNF - 2 (hist building Richelieu) (Bibliotheque Nationale de France)	18 C, 45-55% --> 16-28 C, ? (static and compact) before renovation, under renovation --> 2021)	NLL (National Library of Latvia)	17-19C, 40-45% --> 7-21C, 35-59%
Bodleian Library	compact and static across 30 sites, conditions vary widely	UBA - 1 (University Library Amsterdam)	18 C, 50% --> stable
British Library - 2	16 C (rolling stacks)	Leiden UB	no climate control
NLL (National Library of Latvia)	17-19 C, 40-45% --> 18-20 C, ~45%	Royal Danish Library (the new Vinge-storage)	compact library storage
Cambridge University Library	18 +/- 2C, 52 +/- 5%, reality same	KBR Royal Library Brussels	18C +/- 1, 50-55% --> ? (our remote storage was firstly an answer to the lack of space but was developed on a particular way)
KU Leuven - (24 locations)	1. University library, 2. Theology, 3. STM	KU Leuven (Katholieke Universiteit Leuven)	Warehouse ASHRAE A
RKD (Nederlands Instituut voor Kunstgeschiedenis) static and compact	library 18C, 50 +/- 5%, specials 8 C and 45 +/- 5%, 16 C and 50 +/- 5%	KU Leuven (Katholieke Universiteit Leuven)	Shared Heritage Stack Leuven
EHC Antwerp - 1 (Erfgoedbibliotheek Hendrik Conscience Antwerpen)	18 C, 50-55% --> 18-20 C, 55%	KBR Royal Library Brussels	at the moment I dont know what are the plans. I think that we have to get first a good idea of the best remote storage
Royal Danish Library	Super high density, static and compact	NA - 2 (National Archives of the Netherlands)	energy and climate neutral
NA - 1 (National Archives of the Netherlands)	energy and climate neutral		
RKD (Nederlands Instituut voor Kunstgeschiedenis)	library passive, specials active but as less as possible		
Royal Danish Library	internal storage, compact library storage		



INTERNAL		EXTERNAL	
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STATIC LIBRARY STORAGE		STATIC LIBRARY STORAGE	
Royal Danish Library	Super high density, static and compact	KU Leuven - (2 EXTERNAL locations) (Katholieke Universiteit Leuven)	5. Different library locations, 6. BEXT (old EXTERNAL storage)
KB (National Library of the Netherlands)	18 C, 50 +/- 5% --> 18 C, 55-62%	BNF - 3 (Russy St Georges) (Bibliotheque Nationale de France)	18 C, 45/55% --> 18 C, 45/55% (static, compact, super high density)
British Library - 3	19 C (T control only)	UBA - 1 (University Library Amsterdam)	aim: 18C 50%, 18-22C, 45-55%
Cambridge University Library	largest open shelving library, climate control for readers	Bodleian Library	compact and static across 30 sites, conditions vary widely
KBR Royal Library Brussels	18 C +/- 1, 50-55% (sometimes up to 65, 57%. Not all stores are controlled)		
KU Leuven - ? (24 locations) (Katholieke Universiteit Leuven)	1. Chemistry library, 3. Biomedical, 4. Pedagogic		
KU Leuven - 2 (24 locations) (Katholieke Universiteit Leuven)	ASHRAE A en ASHRAE A+ (Theological library)		
UBA - 2	18 C, 50%		
RKD (Nederlands Instituut voor Kunstgeschiedenis) static and compact	library 18C, 50 +/- 5%, specials 8 C and 45 +/- 5%, 16 C and 50 +/- 5%		
EHC Antwerp - 2 (Erfgoedbibliotheek Hendrik Conscience Antwerpen)	18 C, 50-55% --> 20-21 C, 55%		
BNF - 1 (Bibliotheque Nationale de France)	18 C, 45-55% (static and compact)		
Middle Temple	16-22C, 50-55% --> ? (2 storage areas, one controlled, one not controlled with big fluctuations)		
Leiden UB (University Library)	18-19 C, 50%		
BNF - 2 (hist building Richelieu) (Bibliotheque Nationale de France)	18 C, 45-55% --> 16-28 C, ? (static and compact) before renovation, under renovation --> 2021)		
Bodleian Library	compact and static across 30 sites, conditions vary widely		