

PROGRAMMA DI  
NORMAZIONE CTI  
2019/20

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Il presente documento, che accompagna **La Relazione Annuale CTI 2019**, contiene il dettaglio dell'attività normativa svolta nel 2019 e in programma per il 2020. A tal fine esso è suddiviso nei seguenti due capitoli:

- le norme pubblicate in ambito CTI organizzate per Sottocomitati (Aree tematiche) e Commissioni Tecniche (Organi Tecnici operativi),
- i progetti di norma nazionali (UNI), europei (CEN) e internazionali (ISO) in corso di elaborazione.

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# NORME PUBBLICATE ORGANIZZATE PER SOTTOCOMITATI E COMMISSIONI TECNICHE



## SC 1 – “TRASMISSIONE DEL CALORE E FLUODINAMICA”

### CT 201 “Isolanti e isolamento termico - Materiali”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 88	UNI EN 13494:2019	Isolanti termici per edilizia - Determinazione della resistenza a trazione del collante e dell'intonaco di base al materiale isolante termico
CEN/TC 88	UNI EN 13495:2019	Isolanti termici per edilizia - Determinazione della resistenza allo strappo dei sistemi di isolamento termico per l'esterno (cappotti) (prova del blocco di schiuma espanso)
CEN/TC 88	UNI EN 14064-1:2019	Isolanti termici per edilizia - Prodotti sfusi di lana minerale (MW) realizzati in sito - Parte 1: Specifiche per i prodotti sfusi prima dell'installazione
CEN/TC 88	UNI EN 15101-1:2019	Isolanti termici per edilizia - Isolamento termico realizzato in sito con prodotti di cellulosa sfusa (LFCI) - Parte 1: Specifiche per i prodotti prima della messa in opera
CEN/TC 88	UNI EN ISO 16535:2019	Isolanti termici per edilizia - Determinazione dell'assorbimento d'acqua a lungo termine per immersione
CEN/TC 88	UNI EN ISO 16536:2019	Isolanti termici per edilizia - Determinazione dell'assorbimento d'acqua per diffusione su lungo periodo
CEN/TC 88	UNI EN ISO 29767:2019	Isolanti termici per edilizia - Determinazione dell'assorbimento d'acqua per immersione parziale su breve periodo
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 163/SC 3	ISO 21105-1:2019	Performance of buildings — Building enclosure thermal performance verification and commissioning — Part 1: General requirements
ISO/TC 163/SC 3	ISO 17738-2:2019	Thermal insulation products — Exterior insulation and finish systems (EIFS) — Part 2: Installation
ISO/TC 163/SC 3	ISO 17738-3:2019	Thermal insulation products — Exterior insulation and finish systems (EIFS) — Part 3: Design requirements

### CT 202 “Isolanti e isolamento - Metodi di calcolo e di prova (UNI/TS 11300-1)”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 163/SC 1	ISO 16535:2019	Thermal insulating products for building applications — Determination of long-term water absorption by immersion
ISO/TC 163/SC 1	ISO 16536:2019	Thermal insulating products for building applications -- Determination of long-term water absorption by diffusion
ISO/TC 163/SC 1	ISO 29767:2019	Thermal insulating products for building applications — Determination of short-term water absorption by partial immersion
ISO/TC 205	ISO 19454:2019	Building environment design — Indoor environment — Daylight opening design for sustainability principles in visual environment



## SC 2 – “EFFICIENZA ENERGETICA E GESTIONE DELL'ENERGIA”

### CT 212 “Uso razionale e gestione dell'energia”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/CLC/JTC 15	UNI CEI EN 17267:2019	Piano di misurazione e monitoraggio - Progettazione ed attuazione - Principi per la raccolta dei dati energetici
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 301	ISO 50021:2019	Energy management and energy savings — General guidelines for selecting energy savings evaluators
ISO/TC 301	ISO/TS 50044:2019	Energy saving projects (EnSPs) — Guidelines for economic and financial evaluation
ISO/TC 301	ISO 50045:2019	Technical guidelines for the evaluation of energy savings of thermal power plants
ISO/TC 301	ISO 50046:2019	General methods for predicting energy savings



## SC 3 – “GENERATORI DI CALORE E IMPIANTI IN PRESSIONE”

### CT 221 “Progettazione e costruzione di attrezzature a pressione e di forni industriali”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME NAZIONALI CTI PUBBLICATE DA UNI NEL 2019</b>		
CT 221	UNI/PdR 55:2019	Prassi di Riferimento: Linee guida per l'applicazione delle raccolte ISPESL VSR-VSG-M-S nell'ambito della Direttiva 2014/68/UE
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 54	UNI EN 13445-3:2019	Recipienti a pressione non esposti a fiamma - Parte 3: Progettazione
CEN/TC 54	UNI EN 13445-6:2019	Recipienti a pressione non esposti a fiamma - Parte 6: Requisiti per la progettazione e la costruzione di recipienti a pressione e parti in pressione realizzati in ghisa sferoidale
CEN/TC 54	UNI CEN/TS 13445-501:2019	Recipienti a pressione non esposti a fiamma - Parte 501: Emissione acustica per recipienti a pressione

### CT 223 “Esercizio e dispositivi di protezione delle installazioni a pressione”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME NAZIONALI CTI PUBBLICATE DA UNI NEL 2019</b>		
CT 223	UNI/TS 11752:2019	Locali destinati al posizionamento di generatori di vapore e/o acqua surriscaldata e delle attrezzature ausiliarie



## SC 4 – “SISTEMI E MACCHINE PER LA PRODUZIONE DI ENERGIA”

### CT 232 “Sistemi di compressione ed espansione”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 118	ISO 28927-1:2019	Hand-held portable power tools — Test methods for evaluation of vibration emission — Part 1: Angle and vertical grinders
ISO/TC 118	ISO 28927-8:2009/Amd 2:2019	Hand-held portable power tools — Test methods for evaluation of vibration emission — Part 8: Saws, polishing and filing machines with

#### CT 232 "Sistemi di compressione ed espansione"

Organo Tecnico	Codice Norma	Titolo Norma
		reciprocating action and small saws with oscillating or rotating action — Amendment 2: Oscillating knives (vibrating screen removal tools)
ISO/TC 118	ISO 8573-4:2019	Compressed air — Contaminant measurement — Part 4: Particle content

#### CT 234 "Motori - Commissione Mista CTI-CUNA"

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 70	ISO 2710-2:2019	Reciprocating internal combustion engines — Vocabulary — Part 2: Terms for engine maintenance
ISO/TC 70	ISO 8178-9:2019	Reciprocating internal combustion engines — Exhaust emission measurement — Part 9: Test cycles and test procedures for measurement of exhaust gas smoke emissions from compression ignition engines using an opacimeter
ISO/TC 70	ISO 8178-3:2019	Reciprocating internal combustion engines — Exhaust emission measurement — Part 3: Test procedures for measurement of exhaust gas smoke emissions from compression ignition engines using a filter type smoke meter



### SC 5 – "CONDIZIONAMENTO DELL'ARIA, VENTILAZIONE E REFRIGERAZIONE"

#### CT 241 "Impianti di climatizzazione: progettazione, installazione, collaudo e prestazioni (UNI/TS 11300-3)"

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 156	UNI EN 13141-1:2019	Ventilazione per gli edifici - Verifica delle prestazioni di componenti per gli edifici residenziali - Parte 1: Apparecchi per il trasferimento d'aria montati esternamente o internamente
CEN/TC 156	UNI EN 14134:2019	Ventilazione per gli edifici - Misura della prestazione e controllo per i sistemi di ventilazione residenziale
CEN/TC 156	UNI EN 16798-1:2019	Prestazione energetica degli edifici - Ventilazione per gli edifici - Parte 1: Parametri di ingresso dell'ambiente interno per la progettazione e la valutazione della prestazione energetica degli edifici in relazione alla qualità dell'aria interna, all'ambiente termico, all'illuminazione e all'acustica - Modulo M1-6
CEN/TC 156	UNI EN 17192:2019	Ventilazione per gli edifici - Condotte - Condotte non metalliche - Requisiti e metodi di prova
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 117	ISO 12759-2:2019	Fans — Efficiency classification for fans — Part 2: Standard losses for drive components
ISO/TC 117	ISO 12759-3:2019	Fans — Efficiency classification for fans — Part 3: Fans without drives at maximum operating speed
ISO/TC 117	ISO 12759-4:2019	Fans — Efficiency classification for fans — Part 4: Driven fans at maximum operating speed

## CT 242 "Materiali, componenti e sistemi per la depurazione e la filtrazione di aria, gas e fumi"

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 195	UNI EN 1822-1:2019	Filtri per l'aria ad alta efficienza (EPA, HEPA e ULPA) - Parte 1: Classificazione, prove di prestazione, marcatura
CEN/TC 195	UNI EN ISO 21083-1:2019	Metodo di prova per misurare l'efficienza di materiali filtranti per aria nei confronti di nanomateriali sferici – Parte 1: Intervallo di dimensioni delle particelle compreso tra 20 nm e 500 nm
CEN/TC 195	UNI CEN ISO/TS 21083-2:2019	Metodo di prova per misurare l'efficienza di materiali filtranti per aria nei confronti di nanomateriali sferici - Parte 2: Intervallo di dimensioni delle particelle compreso tra 3 nm e 30 nm
CEN/TC 195	UNI EN ISO 29463-2:2019	Filtri e materiali filtranti ad alta efficienza per la rimozione di particelle nell'aria - Parte 2: Produzione di aerosol, apparecchiature di misura e statistica del conteggio delle particelle
CEN/TC 195	UNI EN ISO 29463-3:2019	Filtri e materiali filtranti ad alta efficienza per la rimozione di particelle nell'aria - Parte 3: Prova su fogli piani di materiale filtrante
CEN/TC 195	UNI EN ISO 29463-4:2019	Filtri e materiali filtranti ad alta efficienza per la rimozione di particelle nell'aria - Parte 4: Metodo di prova per la determinazione di perdite in elementi filtranti - Metodo a scansione
CEN/TC 195	UNI EN ISO 29463-5:2019	Filtri e materiali filtranti ad alta efficienza per la rimozione di particelle nell'aria - Parte 5: Metodo di prova per la determinazione dell'efficienza di elementi filtranti
CEN/TC 195	UNI EN ISO 29464:2019	Depurazione dell'aria e di altri gas – Terminologia
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 142	ISO 15714:2019	Method of evaluating the UV dose to airborne microorganisms transiting in-duct ultraviolet germicidal irradiation devices
ISO/TC 142	ISO/TS 21083-2:2019	Test method to measure the efficiency of air filtration media against spherical nanomaterials — Part 2: Size range from 3 nm to 30 nm

## CT 243 "Impianti di raffrescamento: pompe di calore, condizionatori, scambiatori, compressori"

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 113	UNI EN 12102-2:2019	Condizionatori d'aria, refrigeratori di liquido, pompe di calore, raffreddatori di processo e deumidificatori con compressori azionati elettricamente - Determinazione del livello di potenza sonora - Parte 2: Scaldacqua a pompa di calore
CEN/TC 113	UNI EN 14825:2019	Condizionatori d'aria, refrigeratori di liquido e pompe di calore, con compressore elettrico, per il riscaldamento e il raffrescamento degli ambienti - Metodi di prova e valutazione a carico parziale e calcolo del rendimento stagionale
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 86/SC 6	ISO 19967-1:2019	Heat pump water heaters — Testing and rating for performance — Part 1: Heat pump water heater for hot water supply
ISO/TC 86/SC 6	ISO 16358-1:2013/Amd 1:2019	Air-cooled air conditioners and air-to-air heat pumps — Testing and calculating methods for seasonal performance factors — Part 1: Cooling seasonal performance factor — Amendment 1
ISO/TC 86/SC 6	ISO/TR 16494-2:2019	Heat recovery ventilators and energy recovery ventilators — Method of test for performance — Part 2: Assessment of measurement uncertainty of performance parameters
ISO/TC 86/SC 6	ISO 19967-2:2019	Heat pump water heaters — Testing and rating for performance — Part 2: Heat pump water heaters for space heating

#### CT 244 "Impianti frigoriferi: sicurezza e protezione dell'ambiente"

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 182	UNI EN 13136:2019	Impianti di refrigerazione e pompe di calore - Dispositivi di limitazione della pressione e relative tubazioni - Metodi di calcolo

#### CT 245 "Impianti frigoriferi: refrigerazione industriale e commerciale"

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 44	UNI EN 16825:2019	Armadi e tavoli refrigerati per uso professionale - Classificazione, requisiti e condizioni di prova – (Sostituita dalla UNI EN ISO 22041:2019)
CEN/TC 44	UNI EN 16838:2019	Vetrina espositiva e pozzetto per gelato artigianale - Classificazione, requisiti e prova delle prestazioni e dei consumi energetici
CEN/TC 44	UNI EN 16855-2:2019	Celle frigorifere – Definizione, prestazione dell'isolamento termico e metodi di prova – Parte 2: Celle frigorifere personalizzate
CEN/TC 44	UNI EN 17032:2019	Abbattitori di temperatura per la refrigerazione e la congelazione per uso professionale - Classificazione, requisiti e condizioni di prova
CEN/TC 44	UNI EN ISO 22041:2019	Armadi e tavoli refrigerati per uso professionale – Prestazioni e consumi energetici
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 86/SC 7	ISO 22041:2019	Refrigerated storage cabinets and counters for professional use — Performance and energy consumption



### SC 6 – "RISCALDAMENTO"

#### CT 251 "Impianti di riscaldamento - Progettazione, fabbisogni di energia e sicurezza (UNI/TS 11300-2 e 11300-4)"

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME NAZIONALI CTI PUBBLICATE DA UNI NEL 2019</b>		
CT 251	UNI/TS 11300-2:2019	Prestazioni energetiche degli edifici - Parte 2: Determinazione del fabbisogno di energia primaria e dei rendimenti per la climatizzazione invernale, per la produzione di acqua calda sanitaria, per la ventilazione e per l'illuminazione in edifici non residenziali

#### **NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019**

ISO/TC 205	ISO 11855-7:2019	Building environment design — Design, dimensioning, installation and control of embedded radiant heating and cooling systems — Part 7: Input parameters for the energy calculation
ISO/TC 205	ISO 19455-1:2019	Planning for functional performance testing for building commissioning — Part 1: Secondary hydronic pump, system and associated controls
ISO/TC 205	ISO 18566-6:2019	Building environment design — Design, test methods and control of hydronic radiant heating and cooling panel systems — Part 6: Input parameters for the energy calculation

#### CT 252 "Impianti di riscaldamento - Esercizio, conduzione, manutenzione, misure in campo e ispezioni"

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME NAZIONALI CTI PUBBLICATE DA UNI NEL 2019</b>		
TC 252	UNI 10389-1:2019	Misurazioni in campo - Generatori di calore - Parte 1: Apparecchi alimentati a combustibile liquido e/o gassoso



**CT 253 “Componenti degli impianti di riscaldamento - Produzione del calore, generatori a combustibili liquidi, gassosi e solidi”**

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME NAZIONALI CTI PUBBLICATE DA UNI NEL 2019</b>		
CT 253	EC 1-2019 UNI 8065:2019	Trattamento dell'acqua negli impianti per la climatizzazione invernale ed estiva, per la produzione di acqua calda sanitaria e negli impianti solari termici
CT 253	UNI 8065:2019	Trattamento dell'acqua negli impianti per la climatizzazione invernale ed estiva, per la produzione di acqua calda sanitaria e negli impianti solari termici

**CT 254 “Componenti degli impianti di riscaldamento - Emissione del calore (radiatori, convettori, pannelli a pavimento, soffitto, parete, strisce radianti)”**

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME NAZIONALI CTI PUBBLICATE DA UNI NEL 2019</b>		
CT 254	UNI 11741:2019	Attività professionali non regolamentate - Installatori di sistemi radianti idronici a bassa differenza di temperatura - Requisiti di conoscenza, abilità e competenza
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 130	UNI EN 215:2019	Valvole termostatiche per radiatori - Requisiti e metodi di prova

**CT 257 “Stufe, caminetti e barbecue ad aria e acqua (con o senza caldaia incorporata)”**

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 295	UNI EN 16510-1:2019	Apparecchi di riscaldamento domestici a combustibile solido - Parte 1: Requisiti generali e metodi di prova

**CT 258 “Canne fumarie”**

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 166	UNI EN 1443:2019	Camini - Requisiti generali
CEN/TC 166	UNI EN 13216-1:2019	Camini - Metodi di prova per sistemi camino - Parte 1: Metodi di prova generali
CEN/TC 166	UNI EN 13384-1:2019	Camini - Metodi di calcolo termo e fluido dinamico - Parte 1: Camini asserviti a un unico apparecchio a combustione
CEN/TC 166	UNI EN 13384-2:2019	Camini - Metodi di calcolo termo e fluido dinamico - Parte 2: Camini asserviti a più apparecchi a combustione
CEN/TC 166	UNI EN 16475-3:2019	Camini - Accessori - Parte 3: Regolatori di tiraggio, dispositivi di apertura a impianto fermo e dispositivi per l'aria secondaria di tipo combinato - Requisiti e metodi di prova



**SC 7 – “TECNOLOGIE DI SICUREZZA”**

**CT 266 “Sicurezza degli impianti a rischio di incidente rilevante”**

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME NAZIONALI CTI PUBBLICATE DA UNI NEL 2019</b>		
CT 266	UNI 10617:2019	Stabilimenti con pericolo di incidente rilevante - Sistemi di gestione della sicurezza - Requisiti essenziali



## SC 8 – “MISURE TERMICHE, REGOLAZIONE E CONTABILIZZAZIONE”

### CT 271 “Contabilizzazione del calore”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 20189</b>		
CT 276	UNI EN 1434-1:2019	Contatori di calore - Parte 1: Requisiti generali
CT 276	UNI EN 1434-2:2019	Contatori di calore - Parte 2: Requisiti costruttivi
CT 276	UNI EN 1434-4:2019	Contatori di calore - Parte 4: Prove per l'approvazione del modello
CT 276	UNI EN 1434-5:2019	Contatori di calore - Parte 5: Prove per la verifica prima
CT 276	UNI EN 1434-6:2019	Contatori di calore - Parte 6: Installazione, messa in servizio, controllo e manutenzione

### CT 272 “Sistemi di automazione e controllo per la gestione dell'energia e del comfort negli edifici”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 247	UNI EN 12098-1:2019	Prestazione energetica degli edifici - Regolazioni per impianti di riscaldamento - Parte 1: Dispositivi di regolazione per gli impianti di riscaldamento ad acqua calda - Moduli M3-5, 6, 7, 8
CEN/TC 247	UNI EN 12098-3:2019	Prestazione energetica degli edifici - Regolazioni per impianti di riscaldamento - Parte 3: Dispositivi di regolazione per gli impianti di riscaldamento elettrici - Moduli M3-5, 6, 7, 8
CEN/TC 247	UNI EN 12098-5:2019	Prestazione energetica degli edifici - Regolazioni per impianti di riscaldamento - Parte 5: Programmatori delle fasi di avvio-interruzione degli impianti di riscaldamento - Moduli M3-5, 6, 7, 8
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 205	ISO 22510:2019	Open data communication in building automation, controls and building management — Home and building electronic systems — KNXnet/IP communication



## SC 9 – “FONTI ENERGETICHE: RINNOVABILI, TRADIZIONALI, SECONDARIE”

### CT 281 “Energia solare”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 312	UNI EN 12976-2:2019	Impianti solari termici e loro componenti - Impianti prefabbricati - Parte 2: Metodi di prova
<b>NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019</b>		
ISO/TC 180	ISO 22975-5:2019	Solar energy — Collector components and materials — Part 5: Insulation material durability and performance

### CT 282 “Biocombustibili solidi”

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME NAZIONALI CTI PUBBLICATE DA UNI NEL 2019</b>		
CT 282	UNI/TS 11765:2019	Biocombustibili solidi - Linee guida per la determinazione della qualità mediante spettrometria nel vicino infrarosso
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 335	UNI EN ISO 14780:2019	Biocombustibili solidi - Preparazione del campione

#### CT 282 "Biocombustibili solidi"

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 335	UNI EN ISO 20023:2019	Biocombustibili solidi - Sicurezza di gestione del pellet - Movimentazione e stoccaggio in sicurezza del pellet di legno in applicazioni domestiche e in altre applicazioni di piccola scala

#### NORME ISO DI COMPETENZA CTI PUBBLICATE DA ISO NEL 2019

ISO/TC 238	ISO 14780:2017/Amd 1:2019	Solid biofuels — Sample preparation — Amendment 1
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#### CT 287 "Combustibili fossili, serbatoi non in pressione e stazioni di servizio"

Organo Tecnico	Codice Norma	Titolo Norma
<b>NORME CEN DI COMPETENZA CTI PUBBLICATE DA UNI NEL 2019</b>		
CEN/TC 265	UNI EN 12285-3:2019	Serbatoi in acciaio fabbricati in officina - Parte 3: Serbatoi cilindrici orizzontali a singola pelle e doppia pelle per lo stoccaggio sotterraneo di liquidi, infiammabili e non infiammabili che inquinano l'acqua, per il riscaldamento e il raffrescamento degli edifici

# PROGETTI DI NORMA NAZIONALI, CEN E ISO IN ELABORAZIONE



## SC 1 – “TRASMISSIONE DEL CALORE E FLUODINAMICA”

### CT 201 “Isolanti e isolamento termico - Materiali”

Organo Tecnico	Codice Norma	Titolo Norma
CT 201	UNI/TR	Isolanti termici per edilizia. Linee guida su caratteristiche prestazionali, modalità di utilizzo e posa in opera
CEN/TC 88	EN 14305:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made cellular glass (CG) products - Specification
CEN/TC 88	EN 14307:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made extruded polystyrene foam (XPS) products - Specification
CEN/TC 88	EN 14306:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made calcium silicate (CS) products - Specification
CEN/TC 88	EN 14314:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made phenolic foam (PF) products - Specification
CEN/TC 88	EN 14313:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made polyethylene foam (PEF) products - Specification
CEN/TC 88	EN 15501:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made expanded perlite (EP) and exfoliated vermiculite (EV) products - Specification
CEN/TC 88	EN 14309:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made products of expanded polystyrene (EPS) - Specification
CEN/TC 88	prEN ISO 16546	Thermal insulating products for building applications - Determination of freeze-thaw resistance (ISO/DIS 16546:2019)
CEN/TC 88	prEN ISO 29470	Thermal insulating products for building applications - Determination of the apparent density (ISO/DIS 29470:2019)
CEN/TC 88	prEN ISO 16534	Thermal insulating products for building applications - Determination of compressive creep (ISO/DIS 16534:2019)
CEN/TC 88	prEN 15732	Light weight fill and thermal insulation products for civil engineering applications (CEA) - Expanded clay lightweight aggregate products (LWA)
CEN/TC 88	EN 13497:2018/prA1	Thermal insulation products for building applications - Determination of the resistance to impact of external thermal insulation composite systems (ETICS)
CEN/TC 88		Thermal insulation products for buildings — Factory made reflective insulation products (RI) — Specification
CEN/TC 88	prEN ISO 29469	Thermal insulating products for building applications - Determination of compression behaviour
CEN/TC 88		Thermal insulating products — Determination of ageing by settlement — Part 3: Determination of settlement for blown or injected loose fill insulation for closed cavities, simulating humidity and temperature cycling
CEN/TC 88		Thermal insulation products — Determination of ageing by settlement — Part 2: Blown loose fill and injected insulation for cavity walls and timber and steel framed walls, simulating vibration
CEN/TC 88	prEN ISO 18393-1	Thermal insulation products — Determination of ageing by settlement — Part 1: Blown loose-fill insulation for ventilated attics, humidity and temperature cycling

## CT 201 "Isolanti e isolamento termico - Materiali"

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 88		Thermal insulation products — Determination of ageing by settlement — Part 4: Blown loose-fill insulation for ventilated attics, vibration
CEN/TC 88	FprEN 16854	Thermal insulation products for building equipment and industrial installations - Determination of soot fire resistance of thermal insulation products for the use in chimneys
CEN/TC 88	FprEN 16977	Thermal insulation products for buildings - Factory made calcium silicate (CS) products - Specification
CEN/TC 88	FprEN 17139	Thermal insulation products for building - Factory made vegetal fibres based products (VFBP)
CEN/TC 88	FprEN 14063-1	Thermal insulation products for buildings - In-situ formed expanded clay lightweight aggregate products - Part 1: Specification for the loose-fill products before installation
CEN/TC 88	FprEN 17140	Thermal insulation products for buildings - Factory made Vacuum Insulation Panels (VIP) - Specification
CEN/TC 88	prEN ISO 9229 rev	Thermal insulation - Vocabulary
CEN/TC 88	EN 13162:2012+A1:2015/prA2	Thermal insulation products for buildings - Factory made mineral wool (MW) products - Specification
CEN/TC 88	EN 13163:2012+A2:2016/prA3	Thermal insulation products for buildings - Factory made expanded polystyrene (EPS) products - Specification
CEN/TC 88	EN 13164:2012+A1:2015/prA2	Thermal insulation products for buildings - Factory made extruded polystyrene foam (XPS) products - Specification
CEN/TC 88	EN 13165:2012+A2:2016/prA3	Thermal insulation products for buildings - Factory made rigid polyurethane foam (PU) products - Specification
CEN/TC 88	EN 13166:2012+A2:2016/prA3	Thermal insulation products for buildings - Factory made phenolic foam (PF) products - Specification
CEN/TC 88	EN 13167:2012+A1:2015/prA2	Thermal insulation products for buildings - Factory made cellular glass (CG) products - Specification
CEN/TC 88	EN 13168:2012+A1:2015/prA2	Thermal insulation products for buildings - Factory made wood wool (WW) products - Specification edit
CEN/TC 88	EN 13169:2012+A1:2015/prA2	Thermal insulation products for buildings - Factory made expanded perlite board (EPB) products - Specification
CEN/TC 88	EN 13170:2012+A1:2015/prA2	Thermal insulation products for buildings - Factory made products of expanded cork (ICB) - Specification
CEN/TC 88	EN 13171:2012+A1:2015/prA2	Thermal insulation products for buildings - Factory made wood fibre (WF) products - Specification
CEN/TC 88	EN 16069:2012+A1:2015/prA2	Thermal insulation products for buildings - Factory made products of polyethylene foam (PEF) - Specification
CEN/TC 88	EN 14303:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made mineral wool (MW) products - Specification
CEN/TC 88	EN 14304:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made flexible elastomeric foam (FEF) products - Specification edit
CEN/TC 88	EN 14308:2015/prA1	Thermal insulation products for building equipment and industrial installations - Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products - Specification edit
ISO/TC 163/SC 3	ISO/DIS 8144-2	Thermal insulation - Mineral wool mats for ventilated roof spaces - Part 2: Specification for horizontal applications with unrestricted ventilation
ISO/TC 163/SC 3	ISO/DIS 8144-1	Thermal insulation - Mineral wool mats for ventilated roof spaces - Part 1: Specification for applications with restricted ventilation
ISO/TC 163/SC 3	ISO/DIS 21239	Thermal insulation products for building — Reflective insulating products — Specification

### CT 201 "Isolanti e isolamento termico - Materiali"

Organo Tecnico	Codice Norma	Titolo Norma
ISO/TC 163/SC 3	ISISO/DIS 22097	Thermal insulation for buildings — Reflective insulation products — Determination of thermal performance
ISO/TC 163/SC 3	ISO/AWI 24260	Thermal insulation products - Hemp fiber mat and board - Specification
ISO/TC 163/SC 3	ISO/DIS 17738-1	Thermal insulation products — Exterior insulation finish systems — Part 1: Materials
ISO/TC 163/SC 3	ISO/AWI 21105-2	Performance of buildings - Building enclosure thermal performance verification and commissioning - Part 2: Building envelope assembly(s)
ISO/TC 163/SC 3	ISO/CD 8145	Thermal insulation - Mineral wool board for over-deck insulation of roofs - Specification
ISO/TC 163/SC 3	ISO/DIS 22482	Thermal insulation products — Aerogel blanket for buildings — Determination of physical properties
ISO/TC 163/SC 3	ISO/WD 24285	Thermal insulation for building equipment and industrial applications — Cellular Glass products — Specification

### CT 202 "Isolanti e isolamento - Metodi di calcolo e di prova (UNI/TS 11300-1)"

Organo Tecnico	Codice Norma	Titolo Norma
CT 202		Rilevazione in opera della trasmittanza termica mediante termografia all'infrarosso – Metodo speditivo
CT 202		Isolanti termici per edilizia. Linee guida su caratteristiche prestazionali, modalità di utilizzo e posa in opera
CT 202		Abaco delle strutture costituenti l'involucro opaco degli edifici - Parametri termofisici
CT 202	UNI/TS 11300-2	Prestazione energetica degli edifici - Fabbricato
CT 202	UNI 10351 rev	Materiali e prodotti per edilizia - Proprietà termoigrometriche - Procedura per la scelta dei valori di progetto
CT 202	UNI 10349-1 rev	Riscaldamento e raffrescamento degli edifici - Dati climatici - Parte 1: Medie mensili per la valutazione della prestazione termo-energetica dell'edificio e metodi per ripartire l'irradianza solare nella frazione diretta e diffusa e per calcolare l'irradianza solare su di una superficie inclinata
CT 202		Prestazioni energetiche degli edifici - Assunzioni di base e condizioni al contorno per la corretta applicazione di metodi per il calcolo delle prestazioni energetiche e dei carichi termici di progetto in regime dinamico
CEN/TC 089	prEN ISO 6781-1	Performance of buildings - Detection of heat air and moisture irregularities in buildings by infrared methods - Part 1 General Procedures
CEN/TC 089	prEN ISO 6781-2	Performance of buildings - Detection of heat, air and moisture irregularities in buildings by infrared methods - Part 2: Equipment Requirements
CEN/TC 089	prEN ISO 12241 rev	Thermal insulation for building equipment and industrial installations - Calculation rules
CEN/TC 089	prEN ISO 52022-5	Energy performance of buildings - Thermal, solar and daylight properties of building components and elements - Part 5: Calculation procedures - Adaptive building envelope elements
CEN/TC 089	prEN ISO 22097	Thermal insulation for buildings - Reflective insulation products - Determination of thermal performance (ISO/DIS 22097:2019) edit
CEN/TC 089	prEN ISO 12571 rev	Hygrothermal performance of building materials and products - Determination of hygroscopic sorption properties
CEN/TC 089	prEN ISO 52016-5	Energy performance of buildings – Energy needs for heating and cooling, internal temperatures and sensible and latent heat loads – Part 5: Specific criteria and validation procedures
CEN/TC 089	prEN ISO 12569 rev	Thermal performance of buildings and materials - Determination of specific airflow rate in buildings - Tracer gas dilution method

ISO/TC 163	ISO/FDIS 9229	Thermal insulation - Vocabulary
ISO/TC 163/SC 1	ISO/DIS 16534	Thermal insulating products for building applications - Determination of compressive creep
ISO/TC 163/SC 1	ISO/DIS 29470	Thermal insulating products for building applications - Determination of the apparent density
ISO/TC 163/SC 1	ISO/DIS 16546	Thermal insulating products for building applications - Determination of freeze-thaw resistance
ISO/TC 163/SC 1	ISO/DIS 19467-2	Thermal Performance of windows and doors — Determination of solar heat gain coefficient using solar simulator — Part 2: Centre of glazing
ISO/TC 163/SC 1	ISO/WD 23327	Hygrothermal performance of building materials and products — Determination of moisture sorption/desorption properties in response to temperature variation
ISO/TC 163/SC 1	ISO/CD 21901	Test method for thermal diffusivity of thermal insulation - Periodic heat method
ISO/TC 163/SC 1	ISO/AWI 23766	Thermal insulating products for industrial installations - Determination of the coefficient of linear thermal expansion at sub-ambient temperatures
ISO/TC 163/SC 1	ISO/WD 24144	Thermal insulation — Test method for Specific heat capacity of thermal insulation for buildings in the high temperature range — DSC method
ISO/TC 163/SC 1	ISO/AWI 29465	Thermal insulating products for building applications — Determination of length and width
ISO/TC 163/SC 1	ISO/AWI 29466	Thermal insulating products for building applications — Determination of thickness
ISO/TC 163/SC 1	ISO/AWI 29468	Thermal insulating products for building applications — Determination of flatness
ISO/TC 163/SC 1	ISO/AWI 29469	Thermal insulating products for building applications — Determination of compression behaviour
ISO/TC 163/SC 1	ISO/AWI 29766	Thermal insulating products for building applications — Determination of tensile strength parallel to faces
ISO/TC 163/SC 1	ISO/AWI 29768	Thermal insulating products for building applications — Determination of linear dimensions of test specimens
ISO/TC 163/SC 1	ISO/AWI 29770	Thermal insulating products for building applications — Determination of thickness for floating-floor insulating products
ISO/TC 163/SC 1	ISO/CD 6781-1	Performance of buildings — Detection of heat, air and moisture irregularities in buildings by infrared methods — Part 1: General Procedures
ISO/TC 163/SC 1	ISO/AWI 12569	Thermal performance of buildings and materials — Determination of specific airflow rate in buildings — Tracer gas dilution method
ISO/TC 163/SC 1	ISO/WD 12571	Hygrothermal performance of building materials and products — Determination of hygroscopic sorption properties
ISO/TC 163/SC 1	ISO 24353:2008/CD Amd 1	Hygrothermal performance of building materials and products — Determination of moisture adsorption/desorption properties in response to humidity variation — Amendment 1
ISO/TC 163/SC 2	ISO/WD 12241	Thermal insulation for building equipment and industrial installations — Calculation rules
ISO/TC 163/SC 2	ISO/WD 52016-3	Energy performance of buildings — Energy needs for heating and cooling, internal temperatures and sensible and latent heat loads — Part 3: Calculation procedures regarding adaptive building envelope elements
ISO/TC 163/SC 2	ISO/WD 52016-5	Energy performance of buildings — Energy needs for heating and cooling, internal temperatures and sensible and latent heat loads — Part 5: Specific criteria and validation procedures
ISO/TC 205	ISO/DIS 22185-1	Diagnosing moisture damage in buildings and implementing countermeasures — Part 1: Principles, nomenclature and moisture transport mechanisms

ISO/TC 205	ISO/DIS 52032	Energy performance of buildings — Method for calculation of system energy requirements and system efficiencies — Space distribution systems (DHW, heating and cooling), Module M3-6, M4-6, M8-6
ISO/TC 205	ISO/DIS 52120-1	Energy performance of buildings - Contribution of building automation and controls and building management - Part 1: Modules M10-4,5,6,7,8,9,10
ISO/TC 205	ISO/PRF TR 52120-2	Energy performance of buildings - Contribution of building automation and controls and building management - Part 2: Explanation and justification of ISO 52120-1
ISO/TC 205	ISO/DIS 52127-1	Energy performance of buildings - Building management system - Part 1: Module M10-12
ISO/TC 205	ISO/PRF TR 52127-2	Energy performance of buildings - Building automation, controls and building management - Part 2: Explanation and justification of ISO 52127-1

#### CT 204 “Direttiva EPBD”

Organo Tecnico	Codice Norma	Titolo Norma
CT 204	UNI/TS 11300-1	Prestazione energetica degli edifici - Inquadramento generale
CT 204	UNI/TS 11300-5	Prestazione energetica degli edifici - Ascensori, scale mobili e marciapiedi mobili
CT 204	UNI/TS 11300-6	Prestazione energetica degli edifici - Illuminazione
CT 204	prUNI/TS 11300-7	Prestazione energetica degli edifici – Sottosistemi di utilizzazione – Accumulo elettrico
CEN/TC 371	prEN 17423	Energy performance of buildings - Determination and reporting of Primary Energy Factors (PEF) and CO2 emission coefficient - General Principles, Module M1-7



## SC 2 – “EFFICIENZA ENERGETICA E GESTIONE DELL'ENERGIA”

#### CT 212 “Uso razionale e gestione dell'energia”

Organo Tecnico	Codice Norma	Titolo Norma
CT 212		Contratto di prestazione energetica (EPC) – Requisiti energetici minimi
CT 212		Attività professionali non regolamentate - Esperti in gestione dell'energia. Requisiti di conoscenza, abilità e competenza
CEN/CLC/JTC 14	prEN 17463	Methodology for the Valuation of Energy Related Investments (ValERI)
CEN/CLC/JTC 14	prEN 16247-1 rev	Energy audits - Part 1: General requirements
CEN/CLC/JTC 14	prEN 16247-2 rev	Energy audits - Part 2: Buildings
CEN/CLC/JTC 14	prEN 16247-3 rev	Energy audits - Part 3: Processes
CEN/CLC/JTC 14	prEN 16247-4 rev	Energy audits - Part 4: Transport
CEN/CLC/JTC 14	prEN XXX	Energy Performance Contracting - Minimum requirements
CEN/CLC/JTC 14	prEN 16325 rev	Guarantees of Origin related to energy - Guarantees of Origin for Electricity and Hydrogen
ISO/TC 301	ISO/FDIS 50049	Calculation methods for energy efficiency and energy consumption variations at country, region and city levels: relation to energy savings and other factors



ISO/TC 301	ISO/FDIS 50004	Energy management systems - Guidance for the implementation, maintenance and improvement of an energy management system
ISO/TC 301	ISO/CD 50009	Guidance for multiple organizations implementing a common (ISO50001) EnMS
ISO/TC 301	ISO/CD 50005.2	Energy management systems - Modular implementation of the energy management system ISO 50001 including the use of energy performance evaluation techniques
ISO/TC 301	ISO/DIS 50003	Energy management systems — Requirements for bodies providing audit and certification of energy management systems
ISO/TC 301	ISO/AWI 50010	Energy management and energy savings - Guidance for zero net energy in operations
ISO/TC 301	ISO/WD 50006	ISO 50006 Energy management systems — Evaluating Energy Performance using Energy Baselines and Energy Performance Indicators

### CT 213 “Diagnosi energetiche negli edifici”

**Organo Tecnico**   **Codice Norma**

CT 213

**Titolo Norma**

Diagnosi Energetiche – Linee guida per le diagnosi energetiche degli edifici

### CT 214 “Diagnosi energetiche nei processi”

**Organo Tecnico**   **Codice Norma**

CT 214

**Titolo Norma**

Diagnosi energetiche nei processi – Linee guida



## SC 3 – “GENERATORI DI CALORE E IMPIANTI IN PRESSIONE”

### CT 221 “Progettazione e costruzione di attrezzature a pressione e di forni industriali”

**Organo Tecnico**   **Codice Norma**

CT 221

**Titolo Norma**

Riparazione di attrezzature a pressione in esercizio originariamente progettate e costruite in conformità alle raccolte ISPESL VSR, VSG, M, S ed F (specifica tecnica)

CEN/TC 54   prEN 13445-4 rev

Unfired pressure vessels - Part 4: Fabrication

CEN/TC 54   prEN 13445-5 rev

Unfired pressure vessels - Part 5: Inspection and testing

CEN/TC 54   prEN 13445-6 rev

Unfired pressure vessels - Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron

CEN/TC 54   prEN 13445-8 rev

Unfired pressure vessels - Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys

CEN/TC 54   prEN 13445-10 rev

Unfired pressure vessels - Part 10: Additional requirements for pressure vessels of nickel and nickel alloys

CEN/TC 54   EN 13445-4:2014/prA3

Unfired pressure vessels - Part 4: Fabrication

CEN/TC 54   prEN 286-1 rev

Simple unfired pressure vessels designed to contain air or nitrogen - Part 1: Pressure vessels for general purposes

CEN/TC 54   EN 13445-3:2014/prA19

Unfired pressure vessels - Part 3: Design

CEN/TC 54   EN 13445-2:2014/prA7

Unfired pressure vessels - Part 2: Materials

CEN/TC 54   EN 13445-2:2014/prA8

Unfired pressure vessels - Part 2: Materials

CEN/TC 54   EN 13445-8:2014/prA2

Unfired pressure vessels - Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys

CEN/TC 54   EN 13445-4:2014/FprA2

Unfired pressure vessels - Part 4: Fabrication

CEN/TC 54   EN 13445-3:2014/prA12

Unfired pressure vessels - Part 3: Design

CEN/TC 54   EN 13445-5:2014/FprA2

Unfired pressure vessels - Part 5: Inspection and testing

CEN/TC 54	prEN 764-7 rev	Pressure equipment - Part 7: Safety systems for unfired pressure equipment
CEN/TC 54	prEN 13445-11	Unfired pressure vessels - Part 11: Additional requirements for pressure vessels of titanium and titanium alloys
CEN/TC 54	EN 13445-3:2014/prA14	Unfired pressure vessels - Part 3: Design
CEN/TC 54	EN 13445-3:2014/prA15	Unfired pressure vessels - Part 3: Design
CEN/TC 54		EN 13445 Unfired pressure vessels – Part 14: Additional requirements for pressure equipment and pressure components fabricated with additive manufacturing method
CEN/TC 54	FprEN 15776	Unfired pressure vessels - Requirements for the design and fabrication of pressure vessels and pressure vessel parts constructed from cast iron with an elongation after fracture equal or less than 15% edit
CEN/TC 54	prEN 13445-12	Unfired pressure vessels - Part 12: Additional requirements for pressure vessels of copper and copper alloys
CEN/TC 54	EN 13445-3:2014/prA20:2019	Unfired pressure vessels - Part 3: Design
CEN/TC 54	EN 13445-10:2015/prA1:2019	Unfired pressure vessels - Part 10: Additional requirements for pressure vessels of nickel and nickel alloys
CEN/TC 54	prEN 286-2 rev	Simple unfired pressure vessels designed to contain air or nitrogen - Part 2: Pressure vessels for air braking and auxiliary systems for motor vehicles and their trailers edit
CEN/TC 54	prEN 286-3 rev	Simple unfired pressure vessels designed to contain air or nitrogen - Part 3: Steel pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock
CEN/TC 54	prEN 286-4 rev	Simple unfired pressure vessels designed to contain air or nitrogen - Part 4: Aluminium alloy pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock edit
CEN/TC 54	EN 13445-3:2014/prA16:2019	Unfired pressure vessels - Part 3: Design
CEN/TC 54	prEN 13445-1 rev	Unfired pressure vessels - Part 1: General
CEN/TC 54	prEN 13445-2 rev	Unfired pressure vessels - Part 2: Materials
CEN/TC 54	prEN 13445-3 rev	Unfired pressure vessels - Part 3: Design
CEN/TC 186	prEN 746-2 rev	Industrial thermoprocessing equipment - Part 2: Safety requirements for combustion and fuel handling systems
CEN/TC 186	prEN 746-3 rev	Industrial thermoprocessing equipment - Part 3: Safety requirements for the generation and use of atmosphere gases
CEN/TC 186	prEN 746-1 rev	Industrial thermoprocessing equipment - Part 1: Common safety requirements for industrial thermoprocessing equipment
CEN/TC 186	prEN 746-11	Industrial thermoprocessing equipment - Part 11: Safety requirements for protective systems
CEN/TC 186	prEN ISO 13574	Industrial furnaces and associated processing equipment - Vocabulary
CEN/TC 269	prEN 12952-9 rev	Water-tube boilers and auxiliary installations - Part 9: Requirements for firing systems for pulverized solid fuels for the boiler
CEN/TC 269	prEN 12952-10 rev	Water-tube boilers and auxiliary installations - Part 10: Requirements for safeguards against excessive pressure
CEN/TC 269	prEN 12952-16 rev	Water-tube boilers and auxiliary installations - Part 16: Requirements for grate and fluidized-bed firing systems for solid fuels for the boiler
CEN/TC 269	FprEN 12953-5	Shell boilers - Part 5: Inspection during construction, documentation and marking of pressure parts of the boiler
CEN/TC 269	prEN 12953-7 rev	Shell boilers - Part 7 : Requirements for firing systems for liquid and gaseous fuels for the boilers

CEN/TC 269	prEN 12953-8 rev	Shell boilers - Part 8: Requirements for safeguards against excessive pressure
CEN/TC 269	prEN 12953-10 rev	Shell boilers - Part 10: Requirements for feedwater and boiler water quality (Revision of EN 12953-10:2003-09)
CEN/TC 269	prEN 12952-12 rev	Water tube boilers and auxiliary installations - Part 12: Requirements for boiler feedwater and boiler water quality (Revision of EN 12952-12:2003-09)
CEN/TC 269	prEN 12953-9 rev	Shell boilers - Part 9: Requirements for limiting devices of the boiler and accessories
CEN/TC 269	prEN 12952-11 rev	Water-tube boilers and auxiliary installations - Part 11: Requirements for limiting devices of the boiler and accessories
CEN/TC 269	prEN 12953-6 rev	Shell Boilers - Part 6: Requirements for equipment for the boiler
CEN/TC 269	EN 12952-1:2015/prA1	Water-tube boilers and auxiliary installations - Part 1: General
CEN/TC 269	prEN 12952-8 rev	Water-tube boilers and auxiliary installations - Part 8: Requirements for firing systems for liquid and gaseous fuels for the boiler
CEN/TC 269	prEN 12952-2 rev	Water-tube boilers and auxiliary installations - Part 2: Materials for pressure parts of boilers and accessories
CEN/TC 269	prEN 12952-5 rev	Water-tube boilers and auxiliary installations - Part 5: Workmanship and construction of pressure parts of the boiler
CEN/TC 269	prEN 12952-6 rev	Water-tube boilers and auxiliary installations - Part 6: Inspection during construction; documentation and marking of pressure parts of the boiler
ISO/TC 244	ISO/AWI 13574	Industrial furnaces and associated processing equipment - Vocabulary
ISO/TC 244	ISO/DIS 23495	Industrial furnaces and associated processing equipment — Safety requirements for steel converter and associated equipment
ISO/TC 244	ISO/AWI 13577-2	Industrial furnaces and associated processing equipment — Safety — Part 2: Combustion and fuel handling systems
ISO/TC 244	ISO/AWI 13577-4	Industrial furnace and associated processing equipment — Safety — Part 4: Protective systems

#### CT 222 “Integrità strutturale degli impianti a pressione”

Organo Tecnico	Codice Norma	Titolo Norma
CT 222	UNI 11325-4	Attrezzature a pressione - Messa in servizio ed utilizzazione delle attrezzature e degli insiemi a pressione - Parte 4: Metodi operativi per la valutazione di integrità di attrezzature a pressione operanti in regime di scorrimento viscoso applicabili nell'ambito della procedura di valutazione di cui alla UNI/TS 11325-2

#### CT 223 “Esercizio e dispositivi di protezione delle installazioni a pressione”

Organo Tecnico	Codice Norma	Titolo Norma
CT 223		Monitoraggio dei parametri di esercizio di attrezzature a pressione (specifica tecnica)

#### CT 223/GL01 “Dispositivi di protezione e controllo degli impianti a pressione - Gruppo Misto CTI-UNI”

Organo Tecnico	Codice Norma	Titolo Norma
CT223/GL 01		Prove di tipo per la valutazione delle prestazioni dei dispositivi di sicurezza per la protezione contro le sovrappressioni
ISO/TC 185	ISO/DIS 4126-3	Safety devices for protection against excessive pressure — Part 3: Safety valves and bursting disc safety devices in combination
ISO/TC 185	ISO/AWI 4126-10	Safety devices for protection against excessive pressure — Part 10: Sizing of safety valves for gas/liquid two-phase flow



## SC 4 – “SISTEMI E MACCHINE PER LA PRODUZIONE DI ENERGIA”

### CT 231 “Centrali elettriche e turbine a gas per uso industriale”

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 399	prEN ISO 21789	Gas turbine applications - Safety
ISO/TC 192	ISO/FDIS 21905	Gas turbine exhaust systems with or without waste heat recovery
ISO/TC 192	ISO/CD 21789	Gas turbine applications — Safety
ISO/TC 192	ISO/WD 3977-2	Gas turbines — Procurement — Part 2: Standard reference conditions and ratings

### CT 232 “Sistemi di compressione ed espansione”

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 232	prEN ISO 11011-1	Compressed air - Energy efficiency - Assessment
ISO/TC 118	ISO/AWI 28927-8	Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 8: Saws, polishing and filing machines with reciprocating action and small saws with oscillating or rotating action
ISO/TC 118	ISO/DIS 28927-13	Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 13: Fastener driving tools
ISO/TC 118	ISO/TR 27609	Vibration in hand-held tools — Vibration measurement methods for grinders — Evaluation of round-robin test
ISO/TC 118	ISO/WD 22484	Performance Test Code for Electric Driven Low Pressure Air Compressor Packages
ISO/TC 118	ISO/CD 11011-1	Compressed air - Energy efficiency - Assessment
ISO/TC 118	ISO/TR 12942	Compressors — Classification — Complementary information to ISO 5390
ISO/TC 118	ISO/WD 18623-2.2	Air compressors and compressed air systems — Compressed air system — Part 2: Good practice

### CT 234 “Motori - Commissione Mista CTI-CUNA”

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 270	prEN ISO 11102-1 rev	Reciprocating internal combustion engines - Handle starting equipment - Part 1: Safety requirements and tests (ISO/DIS 11102-1:2020)
CEN/TC 270	prEN ISO 8528-10	EN ISO 8178-10: Reciprocating internal combustion engine driven alternating current generating sets Part 10: Measurement of airborne noise by the enveloping surface method
ISO/TC 70	ISO/FDIS 4548-5	Methods of test for full-flow lubricating oil filters for internal combustion engines - Part 5: Test for hydraulic pulse durability
ISO/TC 70	ISO/FDIS 3046-6	Reciprocating internal combustion engines - Performance - Part 6: Overspeed protection
ISO/TC 70	ISO/DIS 8528-3	Reciprocating internal combustion engine driven alternating current generating sets - Part 3: Alternating current generators for generating sets
ISO/TC 70	ISO/DIS 11102-1	Reciprocating internal combustion engines — Handle starting equipment — Part 1: Safety requirements and tests
ISO/TC 70	ISO/FDIS 8178-1	Reciprocating internal combustion engines — Exhaust emission measurement — Part 1: Test-bed measurement systems of gaseous and particulate emissions
ISO/TC 70	ISO/FDIS 8178-4	Reciprocating internal combustion engines — Exhaust emission measurement — Part 4: Steady-state and transient test cycles for different engine applications
ISO/TC 70	ISO/FDIS 4548-5	Methods of test for full-flow lubricating oil filters for internal combustion engines - Part 5: Test for hydraulic pulse durability

#### CT 234 "Motori - Commissione Mista CTI-CUNA"

Organo Tecnico	Codice Norma	Titolo Norma
ISO/TC 70	ISO/FDIS 6798-2	Reciprocating internal combustion engines — Measurement of sound power level using sound pressure — Part 2: Survey method
ISO/TC 70	ISO/FDIS 6798-1	Reciprocating internal combustion engines — Measurement of sound power level using sound pressure — Part 1: Engineering method
ISO/TC 70/SC 7	ISO/CD 4548-6	Methods of test for full-flow lubricating oil filters for internal combustion engines - Part 6: Static burst pressure test
ISO/TC 70/SC 8	ISO/DIS 8178-5	Reciprocating internal combustion engines — Exhaust emission measurement — part 5: Test fuels
ISO/TC 70/SC 8	ISO/NP 8178-2	Reciprocating internal combustion engines - Exhaust emission measurement - Part 2: Measurement of gaseous and particulate exhaust emissions under field conditions

#### CT 235 "Teleriscaldamento e Teleraffrescamento"

Organo Tecnico	Codice Norma	Titolo Norma
CT 235	UNI/PdR	Linee guida di pronto intervento e gestione delle emergenze per il servizio di Teleriscaldamento e Teleraffrescamento
CT 235	UNI/PdR	Linee guida per le caratteristiche e la gestione del fluido termovettore nelle reti di Teleriscaldamento e Teleraffrescamento



### SC 5 – "CONDIZIONAMENTO DELL'ARIA, VENTILAZIONE E REFRIGERAZIONE"

#### CT 241 "Impianti di climatizzazione: progettazione, installazione, collaudo e prestazioni (UNI/TS 11300-3)"

Organo Tecnico	Codice Norma	Titolo Norma
CT 241	UNI 10829 rev	Beni di interesse storico e artistico - Condizioni ambientali di conservazione - Misurazione ed analisi
CT 241	prUNI 10339-1	Impianti aeraulici per la climatizzazione - Parte 1: classificazione e prescrizioni relative a componenti e sistemi aeraulici
CEN/TC 156	prEN 13141-5 rev	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 5: Cowls and roof outlet terminal devices edit
CEN/TC 156	FprEN ISO 12759-2	Fans - Efficiency classification for fans - Part 2: Standard losses for drive components (ISO/FDIS 12759-2:2018)
CEN/TC 156	prEN ISO 12759-3	Fans - Efficiency classification for fans - Part 3: Fans without drives at maximum operating speed (ISO/DIS 12759-3:2016)
CEN/TC 156	prEN ISO 12759-5	Fans - Efficiency classification for fans - Part 5: Jet fans (ISO/DIS 12759-5:2019)
CEN/TC 156	FprEN 17170	Fans - Safety requirements
CEN/TC 156	FprEN 17166	Fans - Procedures and methods to determine the energy efficiency for the electrical input power range of 125 W up to 500 kW
CEN/TC 156	prEN 17291	Fans - Procedures and methods to determine and evaluate the energy efficiency of nonresidential unidirectional ventilation units
CEN/TC 156	prEN 13142	Ventilation for buildings - Components/products for residential ventilation - Required and optional performance characteristics
CEN/TC 156	prEN 13141-4	Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 4: Aerodynamic, electrical power and acoustic performance of unidirectional ventilation units
CEN/TC 156	prEN 13141-7	Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 7: Performance testing of ducted mechanical supply and exhaust ventilation units (including heat recovery)

**CT 241 "Impianti di climatizzazione: progettazione, installazione, collaudo e prestazioni (UNI/TS 11300-3)"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 156	prEN 13141-8	Ventilation for buildings - Performance testing components/products for residential ventilation - Part of 8: Performance testing of non-ducted mechanical supply and exhaust ventilation units (including heat recovery)
CEN/TC 156	EN ISO 5801:2017/prA1	Fans - Performance testing using standardized airways - Amendment 1
CEN/TC 156	prEN ISO 13350	Fans - Performance testing of jet fans (ISO/DIS 13350:2018)
CEN/TC 156	EN 16798-5-1:2017/prA1	Energy performance of buildings - Ventilation for buildings - Part 5-1: Calculation methods for energy requirements of ventilation and air conditioning systems (Modules M5-6, M5-8, M6-5, M6-8, M7-5, M7-8) - Method 1: Distribution and generation
CEN/TC 156	prEN ISO 13351 rev	Fans - Dimensions
CEN/TC 156	EN 16282-7:2017/prA1	Equipment for commercial kitchens - Components for ventilation in commercial kitchens - Part 7: Installation and use of fixed fire suppression systems
CEN/TC 156	EN 16282-3:2016/prA1	Equipment for commercial kitchens - Components for ventilation in commercial kitchens - Part 3: Kitchen ventilation ceilings; design and safety requirements
CEN/TC 156	prEN 15780 rev	Ventilation for buildings - Ductwork - Cleanliness of ventilation systems
CEN/TC 156	prEN 15650	Ventilation for buildings - Fire dampers
ISO/TC 117	ISO/CD TR 27327-3	Air curtains - Test methods to determine energy effectiveness
ISO/TC 117	ISO/DIS 12759-5	Fans — Efficiency classification for fans — Part 5: Jet fans
ISO/TC 117	ISO/DIS 12759-6	Fans — Efficiency classification for fans — Part 6: Calculation of the fan energy index
ISO/TC 117	ISO/CD 13348	Industrial fans - Tolerances, methods of conversion and technical data presentation
ISO/TC 117	ISO 5801:2017/CD Amd 1	Fans - Performance testing using standardized airways
ISO/TC 117	ISO/DTR 16219	Fans - System effect factors
ISO/TC 117	ISO/DIS 13350	Fans - Performance testing of jet fans
ISO/TC 117	ISO/AWI 13351	Fans — Dimensions

**CT 242 "Materiali, componenti e sistemi per la depurazione e la filtrazione di aria, gas e fumi"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 195	prEN ISO 12249-2	Particulate air filters for general ventilation - Part 2: Method of calculation for the energy performance of air cleaning devices and for the classification of the energy performance
CEN/TC 195	prEN ISO 29461-2	Air intake filter system for rotary machinery – Test methods – Part 2: Cleanable (pulse jet) filter system
CEN/TC 195	prEN ISO 29461-1 rev	Air intake filter systems for rotary machinery - Test methods - Part 1: Static filter elements
CEN/TC 195	prEN ISO 29463-5 rev	ISO 29463-5 High-efficiency filters and filter media for removing particles in air - Part 5: Test method for filter elements
CEN/TC 195	prEN 15805 rev	Particulate air filters for general ventilation - Standardised dimensions
CEN/TC 195	prEN ISO 10121-3	EN ISO 10121- 3 Test method for assessing the performance of gas-phase air cleaning media and devices for general ventilation - Part 3: Classification system for treatment of make-up air
CEN/TC 195	prEN ISO 29462 rev	Field testing of general ventilation filtration devices and systems for in situ removal efficiency by particle size and resistance to airflow
CEN/TC 195	prEN ISO 15957 rev	Test dusts for evaluating air cleaning equipment
CEN/TC 195	prEN ISO 16890-2 rev	Air filters for general ventilation - Part 2: Measurement of fractional efficiency and air flow resistance

**CT 242 "Materiali, componenti e sistemi per la depurazione e la filtrazione di aria, gas e fumi"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 195	prEN ISO 16890-4 rev	Air filters for general ventilation - Part 4: Conditioning method to determine the minimum fractional test efficiency
ISO/TC 142	ISO/DIS 22031	Sampling and test method for cleanable filter media taken from filters of systems in operation
ISO/TC 142	ISO/AWI 16313-1	Laboratory test of dust collection systems utilizing porous filter media online cleaned using pulses of compressed gas - Part 1: Systems not utilizing integrated fans
ISO/TC 142	ISO/AWI 29461-1	Air intake filter systems for rotary machinery - Test methods - Part 1: Static filter elements
ISO/TC 142	ISO/CD 16890-2	Air filters for general ventilation — Part 2: Measurement of fractional efficiency and air flow resistance
ISO/TC 142	ISO/CD 16890-4	Air filters for general ventilation — Part 4: Conditioning method to determine the minimum fractional test efficiency
ISO/TC 142	ISO/CD 29462	Field testing of general ventilation filtration devices and systems for in situ removal efficiency by particle size and resistance to airflow
ISO/TC 142	ISO/AWI 10121-3	Test method for assessing the performance of gas-phase air cleaning media and devices for general ventilation — Part 3: Classification system for treatment of make-up air
ISO/TC 142	ISO/AWI 15957	Test dusts for evaluating air cleaning equipment
ISO/TC 142	ISO/AWI 29461-7	Air filter intake systems for rotary machinery — Test methods — Part 7: Filter element endurance test in fog and mist environments
ISO/TC 142	ISO/AWI 29463-5	ISO 29463-5 High-efficiency filters and filter media for removing particles in air — Part 5: Test method for filter elements
ISO/TC 142	IEC/WD 63086-2-1	Household and similar electrical air cleaning appliances - Methods for measuring the performance — Part 2-1: Particular requirements for determination of reduction of particles
ISO/TC 142	IEC/WD 63086-2-6	Household and similar electrical air cleaning appliances – Methods for measuring the performance — Part 2-6: Particular requirements for fresh-air air cleaners

**CT 243 "Impianti di raffrescamento: pompe di calore, condizionatori, scambiatori, compressori"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CT 243	UNI 10389-3	Misurazioni in campo - Generatori di calore - Parte 3: Macchine frigorifere/pompa di calore
CEN/TC 110	prEN 308 rev	Heat exchangers - Test procedures for establishing performance of air to air and flue gases heat recovery devices
CEN/TC 113	EN 13215:2016/prA1	Condensing units for refrigeration - Rating conditions, tolerances and presentation of manufacturer's performance data
CEN/TC 113	prEN 1397	Heat exchangers - Hydronic room fan coil units - Test procedures for establishing the performance
CEN/TC 113		EN 15879-2, Testing and rating of direct exchange ground coupled heat pumps with electrically driven compressors for space heating and/or cooling. Part 2: Water(brine)-to-direct exchange and direct exchange-to-direct exchange heat pumps
CEN/TC 113	prEN 14511-2 rev	Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 2: Test conditions
CEN/TC 113	prEN 14511-3 rev	Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 3: Test methods

**CT 243 "Impianti di raffrescamento: pompe di calore, condizionatori, scambiatori, compressori"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 113	prEN 14511-1 rev	Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 1: Terms and definitions
CEN/TC 113	prEN 12102-1 rev	Air conditioners, liquid chilling packages, heat pumps, process chillers and dehumidifiers with electrically driven compressors - Determination of the sound power level - Part 1: Air conditioners, liquid chilling packages, heat pumps for space heating and cooling, dehumidifiers and process chillers
CEN/TC 113	prEN 14825 rev	Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling - Testing and rating at part load conditions and calculation of seasonal performance
CEN/TC 113		Roof-top units
CEN/TC 113	prEN 14511-4 rev	Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 4: Requirements
CEN/TC 113	prEN 16583	Heat exchangers - Hydronic room fan coils units - Determination of the sound power level
ISO/TC 86/SC 4	ISO/FDIS 916	Testing of refrigerating systems
ISO/TC 86/SC 6	ISO/DIS 21773	Method of test and characterization of performance for energy recovery components
ISO/TC 86/SC 6	ISO/DIS 21978	Heat pump water heater - Testing and rating at part load conditions and calculation on seasonal coefficient of performance for space heating
ISO/TC 86/SC 6	ISO/DIS 13256-2	Water-source heat pumps - Testing and rating for performance - Part 2: Water-to-water and brine-to-water heat pumps
ISO/TC 86/SC 6	ISO/DIS 13256-1	Water-source heat pumps - Testing and rating for performance - Part 1: Water-to-air and brine-to-air heat pumps
ISO/TC 86/SC 6	ISO 18326:2018/CD Amd 1	Non-ducted portable air-cooled air conditioners and air-to-air heat pumps having a single exhaust duct - Testing and rating for performance - Amendment 1
ISO/TC 86/SC 6	ISO 15042:2017/DAMd 1	Multiple split-system air conditioners and air-to-air heat pumps - Testing and rating for performance - Amendment 1
ISO/TC 86/SC 6	ISO 13253:2017/DAMd 1	Ducted air-conditioners and air-to-air heat pumps - Testing and rating for performance - Amendment 1
ISO/TC 86/SC 6	ISO 5151:2017/DAMd 1	Non-ducted air conditioners and heat pumps - Testing and rating for performance - Amendment 1

**CT 244 "Impianti frigoriferi: sicurezza e protezione dell'ambiente"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 182	prEN 12693	Refrigerating systems and heat pumps - Safety and environmental requirements - Positive displacement refrigerant compressors
CEN/TC 182	prEN 13313 rev	Refrigerating systems and heat pumps - Competence of personnel (ISO/DIS 22712:2018)
CEN/TC 182	FprEN 14276-2 rev	Pressure equipment for refrigerating systems and heat pumps - Part 2: Piping - General requirements
CEN/TC 182	FprEN 14276-1	Pressure equipment for refrigerating systems and heat pumps - Part 1: Vessels - General requirements
CEN/TC 182	prEN ISO 21922	Refrigerating systems and heat pumps - Valves - Requirements, testing and marking (ISO/DIS 21922:2018)
CEN/TC 182	FprEN 14624	Performance of portable locating leak detectors and of fixed gas detectors for all refrigerants



#### CT 244 "Impianti frigoriferi: sicurezza e protezione dell'ambiente"

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 182	EN 378-1:2016/prA1:2019	Refrigerating systems and heat pumps - Safety and environmental requirements - Part 1: Basic requirements, definitions, classification and selection criteria
CEN/TC 182	EN 378-2:2016/prA1	Refrigerating systems and heat pumps - Safety and environmental requirements - Part 2: Design, construction, testing, marking and documentation
CEN/TC 182	EN 378-3:2016/prA1	Refrigerating systems and heat pumps - Safety and environmental requirements - Part 3: Installation site and personal protection
ISO/TC 86/SC 1	ISO/DIS 21922	Refrigerating systems and heat pumps - Valves - Requirements, testing and marking
ISO/TC 86/SC 1	ISO/DIS 22712	Refrigerating systems and heat pumps - Competence of personnel
ISO/TC 86/SC 1	ISO 5149-2:2014/DAM 1	Refrigerating systems and heat pumps — Safety and environmental requirements — Part 2: Design, construction, testing, marking and documentation - AMENDMENT 1
ISO/TC 86/SC 1	ISO 5149-1:2014/DAM 2	Refrigerating systems and heat pumps — Safety and environmental requirements — Part 1: Definitions, classification and selection criteria - AMENDMENT 2
ISO/TC 86/SC 1	ISO 5149-3:2014/DAM 1	Refrigerating systems and heat pumps — Safety and environmental requirements — Part 3: Installation site - AMENDMENT 1
ISO/TC 86/SC 8	ISO 817:2014/DAMd 2	Refrigerants — Designation and safety classification — Amendment 2
ISO/TC 86/SC 8	ISO/CD 17584	Refrigerant properties

#### CT 245 "Impianti frigoriferi: refrigerazione industriale e commerciale"

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 44	prEN ISO 22044	Commercial beverage coolers - Classification, requirements and test conditions
CEN/TC 44	prEN ISO 22043	Ice-cream freezers - Classification, requirements and test conditions (ISO/DIS 22043:2019) edit
CEN/TC 44	prEN 17432	Packaged refrigerating units for walk-in cold rooms - Classification, performance and energy consumption testing edit
CEN/TC 44	prEN ISO 22042	Blast chillers and freezers cabinets for professional use - Classification, requirements and test conditions
ISO/TC 86/SC 7	ISO/DIS 22043	Ice-cream freezers - Classification, requirements and test conditions
ISO/TC 86/SC 7	ISO/DIS 22042	Blast chillers and freezers cabinets for professional use — Classification, requirements and test conditions
ISO/TC 86/SC 7	ISO/AWI 22044	Commercial beverage coolers — Classification, requirements and test conditions

#### CT 246 "Metodologie di prova e requisiti per mezzi di trasporto coibentati - Interfaccia CEN/TC 413 - Commissione Mista CTI-CUNA"

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 413	prEN 17516	Testing methodologies for refrigerating devices for insulated means of transport - Part 2: Eutectic cooling devices



## SC 6 – “RISCALDAMENTO”

### CT 251 “Impianti di riscaldamento - Progettazione, fabbisogni di energia e sicurezza (UNI/TS 11300-2 e 11300-4)”

Organo Tecnico	Codice Norma	Titolo Norma
CT 251	UNI/TS 11300-3-1	Prestazione energetica degli edifici - Sottosistemi di utilizzazione - Emissione
CT 251	UNI/TS 11300-3-2	Prestazione energetica degli edifici - Sottosistemi di utilizzazione - Distribuzione
CT 251	UNI/TS 11300-3-3	Prestazione energetica degli edifici - Sottosistemi di utilizzazione - Accumulo termico
CT 251	UNI/TS 11300-3-4	Prestazione energetica degli edifici - Sottosistemi di utilizzazione - Recupero di calore dai piatti doccia
CT 251	UNI/TS 11300-4-1	Prestazione energetica degli edifici - Sottosistemi di generazione - Pompe di calore
CT 251	UNI/TS 11300-4-2	Prestazione energetica degli edifici - Sottosistemi di generazione - Cogenerazione
CEN/TC 228	prEN ISO 11855-1 rev	Building environment design - Design, dimensioning, installation and control of embedded radiant heating and cooling systems - Part 1: Definition, symbols, and comfort criteria
CEN/TC 228	prEN ISO 11855-3 rev	Building environment design - Design, dimensioning, installation and control of embedded radiant heating and cooling systems - Part 3: Design and dimensioning
CEN/TC 228	prEN ISO 11855-4 rev	Building environment design -- Design, dimensioning, installation and control of embedded radiant heating and cooling systems -- Part 4: Dimensioning and calculation of the dynamic heating and cooling capacity of Thermo Active Building Systems (TABS)
CEN/TC 228	prEN ISO 11855-5 rev	Building environment design -- Design, dimensioning, installation and control of embedded radiant heating and cooling systems -- Part 5: Installation
CEN/TC 228	prEN ISO 11855-2 rev	Building environment design - Design, dimensioning, installation and control of embedded radiant heating and cooling systems - Part 2: Determination of the design heating and cooling capacity
CEN/TC 228		Heating systems and water based cooling systems in buildings - Heat recovery from waste water
CEN/TC 228	EN 15316-4-2:2017/prA1	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
CEN/TC 228	EN 15316-4-8:2017/prA1	Energy performance of buildings - Method for calculation of system energy requirements and system efficiencies - Part 4-8: Space heating generation systems, air heating and overhead radiant heating systems, including stoves (local), Module M3-8-8
CEN/TC 228	EN 15316-5:2017/prA1	Energy performance of buildings - Method for calculation of system energy requirements and system efficiencies - Part 5: Space heating and DHW storage systems (not cooling), Module M3-7, M8-7
CEN/TC 228	EN 15316-4-4:2017/prA1	Energy performance of buildings - Method for calculation of system energy requirements and system efficiencies - Part 4-4: Heat generation systems, building-integrated cogeneration systems, Module M8-3-4, M8-8-4, M8-11-4
CEN/TC 228	EN 15316-4-1:2017/prA1	Energy performance of buildings - Method for calculation of system energy requirements and system efficiencies - Part 4-1: Space heating and DHW generation systems, combustion systems (boilers, biomass), Module M3-8-1, M8-8-1
ISO/TC 205	ISO/AWI 24359-1	Building commissioning process planning — Part 1: New buildings

**CT 251 "Impianti di riscaldamento - Progettazione, fabbisogni di energia e sicurezza (UNI/TS 11300-2 e 11300-4)"**

Organo Tecnico	Codice Norma	Titolo Norma
ISO/TC 205	ISO/WD TR 18566-5	Building environment design - Design, test methods and control of hydronic radiant heating and cooling panel systems - Part 5: Ceiling mounted radiant panels
ISO/TC 205	ISO/DIS 11855-1	Building environment design -- Design, dimensioning, installation and control of embedded radiant heating and cooling systems -- Part 1: Definition, symbols, and comfort criteria
ISO/TC 205	ISO/DIS 11855-2	Building environment design -- Design, dimensioning, installation and control of embedded radiant heating and cooling systems -- Part 2: Determination of the design heating and cooling capacity
ISO/TC 205	ISO/DIS 11855-3	Building environment design -- Design, dimensioning, installation and control of embedded radiant heating and cooling systems -- Part 3: Design and dimensioning
ISO/TC 205	ISO/DIS 11855-4	Building environment design - Design, dimensioning, installation and control of embedded radiant heating and cooling systems - Part 4: Dimensioning and calculation of the dynamic heating and cooling capacity of Thermo Active Building Systems (TABS)
ISO/TC 205	ISO/AWI 11855-5	Building environment design - Design, dimensioning, installation and control of embedded radiant heating and cooling systems - Part 5: Installation

**CT 252 "Impianti di riscaldamento - Esercizio, conduzione, manutenzione, misure in campo e ispezioni"**

Organo Tecnico	Codice Norma	Titolo Norma
CT 252	UNI 10389-2	Misurazioni in campo - Generatori di calore - Parte 2: Apparecchi alimentati a biocombustibile solido non polverizzato
CT 252	UNI 10389-4	Misurazioni in campo - Generatori di calore - Parte 4: Impianti di teleriscaldamento e teleraffrescamento

**CT 253 "Componenti degli impianti di riscaldamento - Produzione del calore, generatori a combustibili liquidi, gassosi e solidi"**

Organo Tecnico	Codice Norma	Titolo Norma
CT 253		Caratteristiche e trattamento delle acque dei circuiti di raffreddamento e di umidificazione
CT 253	prUNI 10412	Impianti di riscaldamento ad acqua calda - Requisiti di sicurezza - Requisiti specifici per impianti con generatori di calore alimentati da combustibili liquidi, gassosi, solidi polverizzati o con generatori di calore elettrici
CEN/TC 47	FprEN 12514	Components for supply systems for consuming units with liquid fuels
CEN/TC 47	prEN ISO 23553-1 rev	Safety and control devices for oil burners and oil-burning appliances - Particular requirements - Part 1: Automatic and semi-automatic valves
CEN/TC 57	FprEN 303-5 rev	Heating boilers - Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW - Terminology, requirements, testing and marking
CEN/TC 57		Central heating boilers — Main Specification for indirectly heated unvented (closed) metallic pressurized buffer tanks — Requirements, testing and marking

**CT 254 "Componenti degli impianti di riscaldamento - Emissione del calore (radiatori, convettori, pannelli a pavimento, soffitto, parete, strisce radianti)"**

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 130	prEN 1264-1 rev	Water based surface embedded heating and cooling systems - Part 1: Definitions and symbols
CEN/TC 130	prEN 1264-4 rev	Water based surface embedded heating and cooling systems - Part 4: Installation

**CT 254 "Componenti degli impianti di riscaldamento - Emissione del calore (radiatori, convettori, pannelli a pavimento, soffitto, parete, strisce radianti)"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 130	prEN 1264-5 rev	Water based surface embedded heating and cooling systems - Part 5: Heating and cooling surfaces embedded in floors, ceilings and walls - Determination of the thermal output
CEN/TC 130	prEN 1264-2 rev	Water based surface embedded heating and cooling systems - Part 2: Floor heating: Prove methods for the determination of the thermal output using calculation and test methods
CEN/TC 130	prEN 1264-3 rev	Water based surface embedded heating and cooling systems - Part 3: Dimensioning
ISO/TC 205	ISO/WD 24365	Radiators and convectors — Methods and rating for determining the heat output
ISO/TC 205	ISO/FDIS 52031	Energy performance of buildings — Method for calculation of system energy requirements and system efficiencies — Space emission systems (heating and cooling)

**CT 256 "Impianti geotermici a bassa temperatura con pompa di calore"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 451		Water wells
CEN/TC 451		Borehole heat exchangers

**CT 257 "Stufe, caminetti e barbecue ad aria e acqua (con o senza caldaia incorporata)"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CT 257	prUNI 10683	Generatori di calore alimentati a legna o altri biocombustibili solidi - Verifica, installazione, controllo e manutenzione
CEN/TC 46	EN 16647:2015/prA1	Fireplaces for liquid fuels - Decorative appliances producing a flame using alcohol based or gelatinous fuel - Use in private households
CEN/TC 295		Residential solid fuel burning appliances — Part 2-5: Slow heat release appliances fired by solid fuel — Requirements and test methods
CEN/TC 295	prEN 15821 rev	Multi-firing sauna stoves fired by natural wood logs - Requirements and test methods
CEN/TC 295	prEN 16510-2-6	Residential solid fuel burning appliances - Part 2-6: Mechanically by wood pellets fed roomheaters, inset appliances and cookers
CEN/TC 295	prEN 15821 rev	Multi-firing sauna stoves fired by natural wood logs - Requirements and test methods

**CT 258 "Canne fumarie"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CT 258		Impianti alimentati a combustibile liquido e solido, per uso civile, in esercizio - Linee guida per la verifica dell'idoneità al funzionamento in sicurezza
CEN/TC 166	FprEN 16475-1	Chimneys - Accessories - Part 1: Chimneys silencers - Requirements and test methods
CEN/TC 166	FprEN 16475-6	Chimneys - Accessories - Part 6: Access components - Requirements and test methods
CEN/TC 166	prEN 1856-1 rev	Chimneys - Requirements for metal chimneys - Part 1: System chimney products
CEN/TC 166	FprEN 1457-1 rev	Chimney - Clay/ceramic flue liners - Part 1: Flue liners operating under dry conditions - Requirements and test methods
CEN/TC 166	FprEN 1457-2 rev	Chimneys - Clay/ceramic flue liners - Part 2: Flue liners operating under wet conditions - Requirements and test methods

### CT 258 "Canne fumarie"

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 166	FprEN 16475-4	Chimneys - Accessories - Part 4: Flue dampers - Requirements and test methods
CEN/TC 166	EN 16475-7:2016/FprA1	Chimneys - Accessories - Part 7: Rain caps - Requirements and test methods
CEN/TC 166	prEN 1856-2 rev	Chimneys - Requirements for metal chimneys - Part 2: Metal flue liners and connecting flue pipes
CEN/TC 166	EN 16475-7:2016+A1	Chimneys - Accessories - Part 7: Rain caps - Requirements and test methods
CEN/TC 297	prEN 13084-1 rev	Free-standing chimneys - Part 1: General requirements
CEN/TC 297	prEN 13084-6 rev	Free-standing chimneys - Part 6: Steel liners - Design and execution
CEN/TC 297	prEN 13084-7 rev	Free-standing chimneys - Part 7: Product specifications of cylindrical steel fabrications for use in single wall steel chimneys and steel liners



## SC 7 – "TECNOLOGIE DI SICUREZZA"

### CT 266 "Sicurezza degli impianti a rischio di incidente rilevante"

Organo Tecnico	Codice Norma	Titolo Norma
CT 266	UNI 10616 rev	Stabilimenti con pericolo di incidente rilevante - Sistemi di gestione della sicurezza - Linee guida per l'applicazione della UNI 10617
CT 266	UNI/TS	Linee guida per la gestione di eventi NaTech nell'ambito degli stabilimenti con pericolo di incidente rilevante



## SC 8 – "MISURE TERMICHE, REGOLAZIONE E CONTABILIZZAZIONE"

### CT 271 "Contabilizzazione del calore"

Organo Tecnico	Codice Norma	Titolo Norma
TC 271		Linea guida per la valutazione tecnico-economica per l'installazione dei sistemi di contabilizzazione e termoregolazione
CEN/TC 176	prEN 1434-4 rev	Thermal energy meters - Part 4: Pattern approval tests
CEN/TC 176		Installation of thermal energy meters – Guidelines for the selection, installation and operation of thermal energy meters
CEN/TC 176	prEN 1434-6 rev	Thermal energy meters - Part 6: Installation, commissioning, operational monitoring and maintenance
CEN/TC 176	prEN 1434-1 rev	Thermal energy meters - Part 1: General requirements
CEN/TC 176	prEN 1434-2 rev	Thermal energy meters - Part 2: Constructional requirements
CEN/TC 176	prEN 1434-5 rev	Thermal energy meters - Part 5: Initial verification tests

### CT 272 "Sistemi di automazione e controllo per la gestione dell'energia e del comfort negli edifici"

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 247	prEN ISO 52120-1	Energy performance of buildings - Contribution of building automation and controls and building management - Part 1: Modules M10-4,5,6,7,8,9,10 (ISO/DIS 52120-1:2020)
CEN/TC 247	prEN ISO 52127-1	Energy performance of buildings - Building management system - Part 1: Module M10-12 (ISO/DIS 52127-1: 2019)

## CT 272 “Sistemi di automazione e controllo per la gestione dell'energia e del comfort negli edifici”

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 247	prCEN/TR 52120-2	Energy performance of buildings - Contribution of building automation and controls and building management - Part 2: Explanation and justification of ISO 52120-1
CEN/TC 247	prCEN/TR 52127-2	Energy performance of buildings - Building automation, controls and building management - Part 2: Explanation and justification of ISO 52127-1
CEN/TC 247	prEN 13321-1 rev	Open data communication in building automation, controls and building management - Home and building electronic system - Part 1: Product and system requirements
CEN/TC 247	prEN ISO 16484-6	Building automation and control systems (BACS) - Part 6: Data communication conformance testing (ISO/DIS 16484-6:2019)
CEN/TC 247	EN ISO 16484-5:2017/prA1	Building automation and control systems (BACS) - Part 5: Data communication protocol - Amendment 1 (ISO 16484-5:2017/DAM 1:2019)
CEN/TC 247	prEN 14908-9	Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 9: Wireless Communication in ISM bands
CEN/TC 247	prEN 14908-8	Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 8: Communication using Broadband over Power Line Networks - with internet protocols
CEN/TC 247	prEN 12098-5 rev	Energy Performance of Buildings - Controls for heating systems - Part 5: Start-stop schedulers for heating systems - Modules M3-5,6,7,8
CEN/TC 247	prCEN/TR 12098-8 rev	Controls for heating systems - Part 8: Accompanying TR EN 12098-5 - Modules M3-5,6,7,8
ISO/TC 205	ISO 16484-5:2017 FDAM 1	Building automation and control systems (BACS) - Part 5: Data communication protocol - AMENDMENT 1
ISO/TC 205	ISO/FDIS 16484-6	Building automation and control systems (BACS) - Part 6: Data communication conformance testing



## SC 9 – “FONTI ENERGETICHE: RINNOVABILI, TRADIZIONALI, SECONDARIE”

### CT 281 “Energia solare”

Organo Tecnico	Codice Norma	Titolo Norma
CT 281		Impianti solari termici – Requisiti degli installatori (<35kW)
CEN/TC 312	FprEN 12975	Solar collectors - General requirements
CEN/TC 312	FprEN 12976-1 rev	Thermal solar systems and components - Factory made systems - Part 1: General requirements
CEN/TC 312	prEN ISO 9488 rev	Solar energy - Vocabulary
ISO/TC 180	ISO/CD 9488	Solar energy - Vocabulary
ISO/TC 180	ISO/AWI 22975-4	Solar energy — Collector components and materials — Part 4: Part 4: Glazing material durability and performance
ISO/TC 180/SC1	ISO/AWI 9847	Solar energy — Calibration of field pyranometers by comparison to a reference pyranometer
ISO/TC 180/SC 1	ISO/CD 9845-1	Solar energy - Reference solar spectral irradiance at the ground at different receiving conditions - Part 1: Direct normal and hemispherical solar irradiance for air mass 1,5
ISO/TC 180/SC 4	ISO/CD 24194	Solar energy — Collector fields — Check of performance

## CT 282 "Biocombustibili solidi"

Organo Tecnico	Codice Norma	Titolo Norma
CEN/TC 335	FprEN ISO 20024	Solid biofuels - Safe handling and storage of solid biofuel pellets in commercial and industrial applications (ISO/FDIS 20024:2019)
CEN/TC 335	FprEN ISO 20049-1	Solid biofuels - Determination of self-heating of pelletized biofuels - Part 1: Isothermal calorimetry (ISO/FDIS 20049-1:2020)
CEN/TC 335	FprEN ISO 21404	Solid biofuels - Determination of ash melting behaviour (ISO/FDIS 21404:2019)
CEN/TC 335	FprEN ISO 21945	Solid biofuels - Simplified sampling method for small scale applications (ISO/FDIS 21945:2019)
CEN/TC 335	prEN ISO 17225-7 rev	Solid biofuels - Fuel specifications and classes - Part 7: Graded non-woody briquettes
CEN/TC 335	prEN ISO 18846-2	Solid biofuels - Determination of fines content in quantities of pellets - Part 2: Simplified method
CEN/TC 335	prEN ISO 17225-4	Solid biofuels - Fuel specifications and classes - Part 4: Graded wood chips (ISO/DIS 17225-4:2020)
CEN/TC 335	EN ISO 18135:2017/prA1	Solid Biofuels - Sampling - Amendment 1
CEN/TC 335	prEN ISO 17225-1 rev	Solid biofuels - Fuel specifications and classes - Part 1: General requirements
CEN/TC 335	prEN ISO 17225-2 rev	Solid biofuels - Fuel specifications and classes - Part 2: Graded wood pellets
CEN/TC 335	prEN ISO 17225-3 rev	prEN ISO 17225-3 rev Solid biofuels - Fuel specifications and classes - Part 3: Graded wood briquettes
CEN/TC 335	prEN ISO 17225-5 rev	Solid biofuels - Fuel specifications and classes - Part 5: Graded firewood
CEN/TC 335	prEN ISO 17225-6 rev	Solid biofuels - Fuel specifications and classes - Part 6: Graded non-woody pellets
CEN/TC 335	prEN ISO 16559	Solid biofuels - Terminology, definitions and descriptions
CEN/TC 335	prEN ISO 23343-1	Solid Biofuels - Determination of sorption and its effect on durability of thermally treated biomass fuels -- Part 1: Part 1 Pellets
CEN/TC 335	prCEN ISO/TS 20049-2	Solid biofuels - Determination of self-heating of pelletized biofuels - Part 2: Basket heating tests
CEN/TC 335	prEN ISO 20048-2	Solid biofuels - Determination of off-gassing and oxygen depletion characteristics - Part 2: Operational method for screening of carbon monoxide off-gassing
CEN/TC 335	prEN ISO 21596	Solid biofuels — Determination of grindability — Hardgrove type method for thermally treated biomass fuels
CEN/TC 335	prCEN ISO/TS 20048-1	Solid biofuels - Determination of off-gassing and oxygen depletion characteristics - Part 1: Laboratory method for the determination of off-gassing and oxygen depletion using closed containers
ISO/TC 238	ISO/FDIS 20024	Solid biofuels — Safe handling and storage of solid biofuel pellets in commercial and industrial applications
ISO/TC 238	ISO/PRF TS 20048-1	Solid biofuels — Determination of off-gassing and oxygen depletion characteristics — Part 1: Laboratory method for the determination of off-gassing and oxygen depletion using closed containers
ISO/TC 238	ISO/FDIS 20049-1	Solid biofuels - Determination of self-heating of pelletized biofuels - Part 1: Isothermal calorimetry
ISO/TC 238	ISO/CD 20048-2	Solid biofuels - Determination of off-gassing and oxygen depletion characteristics - Part 2: Operational method for screening of carbon monoxide off-gassing
ISO/TC 238	ISO/FDIS 21945	Solid Biofuels - Simplified sampling method for small scale applications
ISO/TC 238	ISO/AWI 21596	Solid biofuels - Determination of grindability - Hardgrove type method for thermally treated biomass fuels

**CT 282 "Biocombustibili solidi"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
ISO/TC 238	ISO/PRF TS 17225-9.2	Solid biofuels—Fuel specification and classes - Part 9: Graded hog fuel for industrial use
ISO/TC 238	ISO/CD 18846-2	Solid biofuels - Determination of fines content in quantities of pellets - Part 2: Simplified method
ISO/TC 238	ISO/CD 23343-1	Solid Biofuels - Determination of water sorption and its effect on durability of thermally treated biomass fuelS - Part 1: Pellets
ISO/TC 238	ISO/CD TR 23437	Solid biofuels - Determination of bridging behaviour of bulk biofuels
ISO/TC 238	ISO/DIS 16559	Solid biofuels — Terminology, definitions and descriptions
ISO/TC 238	ISO/CD TS 20049-2	Solid biofuels — Determination of self-heating of pelletized biofuels — Part 2: Basket heating tests
ISO/TC 238	ISO/CD 17225-5	Solid biofuels — Fuel specifications and classes — Part 5: Graded firewood
ISO/TC 238	ISO/CD 17225-6	Solid biofuels — Fuel specifications and classes — Part 6: Graded non-woody pellets
ISO/TC 238	ISO/CD 17225-7	Solid biofuels — Fuel specifications and classes — Part 7: Graded non-woody briquettes
ISO/TC 238	ISO/DIS 17225-1	Solid biofuels — Fuel specifications and classes — Part 1: General requirements
ISO/TC 238	ISO/DIS 17225-2	Solid biofuels — Fuel specifications and classes — Part 2: Graded wood pellets
ISO/TC 238	ISO/DIS 17225-3	Solid biofuels — Fuel specifications and classes — Part 3: Graded wood briquettes
ISO/TC 238	ISO/DIS 17225-4	Solid biofuels — Fuel specifications and classes — Part 4: Graded wood chips
ISO/TC 238	ISO 18135:2017/AWI Amd 1	Solid Biofuels — Sampling — Amendment 1

**CT 283 "Energia dai rifiuti"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CT 283		Caratterizzazione dei rifiuti e dei CSS in termini di contenuto di biomassa ed energetico
CT 283		Impianti di co-combustione, incenerimento e co-incenerimento - Determinazione della frazione di energia rinnovabile prodotta dall'impianto mediante la misura del 14C al camino
CEN/TC 343	prEN ISO 21912	Solid recovered fuels — Safe handling and storage of solid recovered fuels
CEN/TC 343	prEN ISO 21660-3	Solid recovered fuels - Determination of moisture content using the oven dry method - Part 3: Moisture in general analysis sample (ISO/DIS 21660-3:2019)
CEN/TC 343	prEN ISO 21663	Solid recovered fuels - Methods for the determination of carbon (C), hydrogen (H), nitrogen (N) and sulphur (S) by the instrumental method (ISO/DIS 21663:2019)
CEN/TC 343	prEN ISO 21640	Solid recovered fuels - Specifications and classes
CEN/TC 343	prEN ISO 21654	Solid recovered fuels - Determination of calorific value (ISO/DIS 21654:2019)
CEN/TC 343	prEN ISO 21645	Solid recovered fuels - Methods for sampling
CEN/TC 343	prEN ISO 21637	Solid recovered fuels - Terminology, definitions and descriptions (ISO/DIS 21637:2019)
CEN/TC 343	prEN ISO 21911	Solid recovered fuels - Determination of self-heating
CEN/TC 343	prEN ISO 21656	Solid recovered fuels - Determination of ash content (ISO/DIS 21656:2019)



**CT 283 "Energia dai rifiuti"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 343	prEN ISO 22167	Solid recovered fuels - Determination of the content of volatile matter (ISO/DIS 22167:2019)
CEN/TC 343	prEN ISO 21644	Solid recovered fuels - Methods for the determination of biomass content (ISO/DIS 21644:2019)
CEN/TC 343	prEN ISO 21646	Solid recovered fuels - Sample preparation
CEN/TC 343	prEN ISO 4349	prEN ISO 4349 Solid recovered fuels – Method for the determination of the Recycling-Index
ISO/TC 300	ISO/DIS 21640	Solid recovered fuels - Specifications and classes
ISO/TC 300	ISO/CD 21911	Solid recovered fuels - Determination of self-heating
ISO/TC 300	ISO/DIS 21912	Solid recovered fuels - Safe handling and storage of solid recovered fuels
ISO/TC 300	ISO/AWI TR 21916	Solid recovered fuels - Guidance for specification of solid recovered fuels (SRF) for selected uses
ISO/TC 300	ISO/DIS 21637	Solid recovered fuels - Terminology, definitions and descriptions
ISO/TC 300	ISO/DIS 21644	Solid recovered fuels - Methods for the determination of biomass content
ISO/TC 300	ISO/DIS 21654	Solid recovered fuels - Determination of calorific value
ISO/TC 300	ISO/DIS 21656	Solid recovered fuels - Determination of ash content
ISO/TC 300	ISO/DIS 21660-3	Solid recovered fuels - Determination of moisture content using the oven dry method — Part 3: Moisture in general analysis sample
ISO/TC 300	ISO/DIS 21663	Solid recovered fuels - Methods for the determination of carbon (C), hydrogen (H), nitrogen (N) and sulphur (S) by the instrumental method
ISO/TC 300	ISO/DIS 22167	Solid recovered fuels - Determination of content of volatile matter
ISO/TC 300	ISO/CD 22940	Solid recovered fuels - Determination of elemental composition by X-ray fluorescence
ISO/TC 300	ISO/DIS 21645	Solid recovered fuels - Methods for sampling
ISO/TC 300	ISO/CD 21646	Solid recovered fuels - Sample preparation

**CT 284 "Biogas da fermentazione anaerobica e syngas biogenico"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CT 284	UNI/TS 11567 rev	Linee guida per la qualificazione degli operatori economici (organizzazioni) della filiera di produzione del biometano ai fini della tracciabilità e del bilancio di massa
CEN/TC 408	prEN ISO 23306	Specification of liquefied natural gas as a fuel for marine applications
ISO/TC 255	ISO/FDIS 22580	Flares for Combustion of Biogas
ISO/TC 255	ISO/AWI TR 23585	Safety and Environment Guidelines for Biogas
ISO/TC 255	ISO/DIS 23590	Household biogas system requirements: design, installation, operation, maintenance and safety
ISO/TC 255	ISO/CD 24252	Biogas systems - non-household and non-gasification

**CT 285 "Bioliquidi per uso energetico"**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CT 285	UNI/TS 11429 rev	Qualificazione degli operatori economici della filiera per la produzione di biocarburanti e bioliquidi
CT 285		Classificazione e specifiche dei sottoprodotti per uso energetico - Sottoprodotti del processo di raffinazione degli oli e grassi animali e vegetali

**CT 287 “Combustibili liquidi fossili, serbatoi non in pressione e stazioni di servizio”**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 265	prEN 14620-5 rev	Design and manufacture of site built, vertical, cylindrical, flat bottomed, steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between -5 °C and -196 °C - Part 5: Testing, drying, purging and cool-down
CEN/TC 265	prEN 14620-1 rev	Design and manufacture of site built, vertical, cylindrical, flat bottomed, steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between -5 °C and -196 °C - Part 1: General
CEN/TC 265	prEN 14620-6	Design and manufacture of site built, vertical, cylindrical, flat bottomed, steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between -5 °C and -196 °C - Part 6: Tanks for storage of liquid oxygen, nitrogen, argon, ammonia and other liquefied non-hydrocarbon gases
CEN/TC 265	prEN 14620-2 rev	Design and manufacture of site built, vertical, cylindrical, flat bottomed, steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between -5 °C and -196 °C - Part 2: Metallic components
CEN/TC 265	prEN 14620-3 rev	Design and manufacture of site built, vertical, cylindrical, flat bottomed, steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between -5 °C and -196 °C - Part 3: Concrete components
CEN/TC 265	prEN 14620-4 rev	Design and manufacture of site built, vertical, cylindrical, flat bottomed, steel tanks for the storage of refrigerated, liquefied gases with operating temperatures between -5 °C and -196 °C - Part 4: Insulation components
CEN/TC 265	prEN 14620-6	Design and manufacture of site built, vertical, cylindrical, flat-bottomed tank systems for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -196 °C - Part 6: Specific requirements for the design and construction of tank systems for the storage of liquid oxygen, liquid nitrogen or liquid argon
CEN/TC 265	prEN 14620-7	Design and manufacture of site built, vertical, cylindrical, flat-bottomed tank systems for the storage of refrigerated, liquefied gases with operating temperatures between 0 °C and -196 °C - Part 7: Specific requirements for the design and construction of tank systems for the storage of liquefied ammonia
CEN/TC 265		Workshop fabricated cylindrical vertical metallic tanks single & double skin, for the storage of flammable and non-flammable water polluting liquids
CEN/TC 393	prEN 13617-1 rev	Petrol filling stations - Part 1: Safety requirements for construction and performance of metering pumps, dispensers and remote pumping units
CEN/TC 393	prEN 13617-2 rev	Petrol filling stations - Part 2: Safety requirements for construction and performance of safe breaks for use on metering pumps and dispensers
CEN/TC 393	prEN 13617-3 rev	Petrol filling stations - Part 3: Safety requirements for construction and performance of shear valves
CEN/TC 393	prEN 13617-4 rev	Petrol filling stations - Part 4: Safety requirements for construction and performance of swivels for use on metering pumps and dispensers
CEN/TC 393	prEN 13012	Petrol filling stations - Construction and performance of automatic nozzles for use on fuel dispensers

**SC 10 – “TERMOENERGETICA AMBIENTALE E SOSTENIBILITA”****CT 291 “Criteri di sostenibilità delle biomasse - Biocarburanti - Commissione Mista CTI-CUNA”**

<b>Organo Tecnico</b>	<b>Codice Norma</b>	<b>Titolo Norma</b>
CEN/TC 383	FprCEN/TS 16214-2	Sustainability criteria for the production of biofuels and bioliquids for energy applications - Principles, criteria, indicators and verifiers - Part 2: Conformity assessment including chain of custody and mass balance



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