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Indoor unit E*ST30D-****D
Outdoor unit PUD-SWM120YAA(-BS)



A++



A



41 dB

60 dB



- 12 kW
- 12 kW
- 12 kW

2019

811/2013

BH79V003K23



Mitsubishi Electric Erp Directive Related Product Information: erp.mitsubishielectric.eu/erp

Table with columns for Outdoor unit, Indoor unit, and various performance metrics (kW, kWh, etc.) for different models and conditions. The table is organized into sections for medium-temperature and low-temperature applications.

Details and precautions on installation, maintenance and assembly can be found in the installation and/or operation manuals. This information is based on COMMISSION DELEGATED REGULATION (EU) No 813/2013.

English	Portuguese	Spanish	French	German	Italian	Spanish
Energy	Energia	Energía	Energie	Energie	Energia	Energía
Power	Poderes	Poderes	Leistung	Potenza	Potenza	Potencia
Water	Água	Agua	Eau	Wasser	Acqua	Agua
Oil	Petróleo	Petróleo	Pétrole	Öl	Petrolio	Petróleo
Coal	Carvão	Carbón	Charbon	Kohle	Carbone	Carbón
Natural Gas	Gás Natural	Gas Natural	Gaz naturel	Erdgas	Gas naturale	Gas natural
Renewable Energy	Energia Renovável	Energía renovable	Énergie renouvelable	Erneuerbare Energien	Energie rinnovabile	Energía renovable
Solar Energy	Energia Solar	Energía solar	Énergie solaire	Solarenergie	Energie solare	Energía solar
Wind Energy	Energia Eólica	Energía eólica	Énergie éolienne	Windenergie	Energie eolica	Energía eólica
Hydro Energy	Energia Hidráulica	Energía hidráulica	Énergie hydraulique	Wasserkraft	Energie idraulica	Energía hidráulica
Geothermal Energy	Energia Geotérmica	Energía geotérmica	Énergie géothermique	Geothermie	Energie geotermica	Energía geotérmica
Bioenergy	Energia Biomassa	Energía biomasa	Énergie biomasse	Bioenergie	Energie biomassa	Energía biomasa
Nuclear Energy	Energia Nuclear	Energía nuclear	Énergie nucléaire	Kernenergie	Energie nucleare	Energía nuclear
Energy Efficiency	Eficiência Energética	Eficiencia energética	Efficacité énergétique	Energieeffizienz	Efficienza energetica	Eficiencia energética
Energy Conservation	Conservação de Energia	Conservación de energía	Économie d'énergie	Energieeinsparung	Conservazione dell'energia	Conservación de energía
Energy Storage	Armazenamento de Energia	Almacenamiento de energía	Stockage d'énergie	Energiespeicherung	Conservazione dell'energia	Almacenamiento de energía
Energy Production	Produção de Energia	Producción de energía	Production d'énergie	Energieerzeugung	Produzione di energia	Producción de energía
Energy Distribution	Distribuição de Energia	Distribución de energía	Distribution d'énergie	Energieverteilung	Distribuzione di energia	Distribución de energía
Energy Demand	Demanda de Energia	Demanda de energía	Demande d'énergie	Energiebedarf	Domanda di energia	Demanda de energía
Energy Policy	Política Energética	Política energética	Politique énergétique	Energiepolitik	Politica energetica	Política energética
Energy Market	Mercado de Energia	Mercado de energía	Marché de l'énergie	Energiemarkt	Mercato dell'energia	Mercado de energía
Energy Investment	Investimento em Energia	Inversión en energía	Investissement énergétique	Energieinvestition	Investimento in energia	Inversión en energía
Energy Research	Pesquisa em Energia	Investigación en energía	Recherche énergétique	Energieforschung	Ricerca in energia	Investigación en energía
Energy Innovation	Inovação em Energia	Innovación en energía	Innovation énergétique	Energieinnovation	Innovazione in energia	Innovación en energía
Energy Security	Segurança Energética	Seguridad energética	Sécurité énergétique	Energiesicherheit	Sicurezza energetica	Seguridad energética
Energy Transition	Transição Energética	Transición energética	Transition énergétique	Energiewende	Transizione energetica	Transición energética
Energy Access	Acesso à Energia	Acceso a la energía	Accès à l'énergie	Energiezugang	Accesso all'energia	Acceso a la energía
Energy Quality	Qualidade da Energia	Calidad de la energía	Qualité de l'énergie	Energiequalität	Qualità dell'energia	Calidad de la energía
Energy Reliability	Confiabilidade da Energia	Confiabilidad de la energía	Fiabilité de l'énergie	Energiezuverlässigkeit	Affidabilità dell'energia	Confiabilidad de la energía
Energy Sustainability	Sustentabilidade da Energia	Sostenibilidad de la energía	Durabilité de l'énergie	Energiehaltbarkeit	Sostenibilità dell'energia	Sostenibilidad de la energía
Energy Resilience	Resiliência da Energia	Resiliencia de la energía	Résilience de l'énergie	Energieelastizität	Resilienza dell'energia	Resiliencia de la energía
Energy Flexibility	Flexibilidade da Energia	Flexibilidad de la energía	Flexibilité de l'énergie	Energieflexibilität	Flessibilità dell'energia	Flexibilidad de la energía
Energy Diversity	Diversidade da Energia	Diversidad de la energía	Diversité de l'énergie	Energievielfalt	Diversità dell'energia	Diversidad de la energía
Energy Decarbonization	Descarbonização da Energia	Descarbonización de la energía	Décarbonation de l'énergie	Energieentkarbonisierung	Decarbonazione dell'energia	Descarbonización de la energía
Energy Digitalization	Digitalização da Energia	Digitalización de la energía	Digitalisation de l'énergie	Energie digitalisierung	Digitalizzazione dell'energia	Digitalización de la energía
Energy Smart Grids	Redes Inteligentes de Energia	Redes inteligentes de energía	Smart grids	Smart Grids	Reti intelligenti	Redes inteligentes de energía
Energy Storage Solutions	Soluções de Armazenamento de Energia	Soluciones de almacenamiento de energía	Solutions de stockage d'énergie	Energiespeicherungslösungen	Soluzioni di conservazione dell'energia	Soluciones de almacenamiento de energía
Energy Distribution Networks	Redes de Distribuição de Energia	Redes de distribución de energía	Réseaux de distribution d'énergie	Energieverteilungsnetze	Reti di distribuzione dell'energia	Redes de distribución de energía
Energy Demand Management	Gestão da Demanda de Energia	Gestión de la demanda de energía	Gestion de la demande d'énergie	Energiefrage-Management	Gestione della domanda di energia	Gestión de la demanda de energía
Energy Policy Frameworks	Quadros de Política Energética	Marcos de política energética	Cadres de politique énergétique	Energiepolitik-Rahmenwerke	Quadri di politica energetica	Marcos de política energética
Energy Market Reforms	Reformas do Mercado de Energia	Reformas del mercado de energía	Réformes du marché de l'énergie	Energiemarkt-Reformen	Riforme del mercato dell'energia	Reformas del mercado de energía
Energy Investment Incentives	Incentivos para Investimento em Energia	Incentivos para inversión en energía	Incentifs pour l'investissement énergétique	Energieinvestitionsanreize	Incentivi per l'investimento in energia	Incentivos para inversión en energía
Energy Research Funding	Financiamento da Pesquisa em Energia	Financiación de la investigación en energía	Financement de la recherche énergétique	Energieforschungsförderung	Finanziamento della ricerca in energia	Financiación de la investigación en energía
Energy Innovation Ecosystems	Ecossistemas de Inovação em Energia	Ecosistemas de innovación en energía	Écosystèmes d'innovation énergétique	Energieinnovation-Ökosysteme	Ecosistemi di innovazione in energia	Ecosistemas de innovación en energía
Energy Security Measures	Medidas de Segurança Energética	Medidas de seguridad energética	Mesures de sécurité énergétique	Energiesicherheitsmaßnahmen	Misure di sicurezza energetica	Medidas de seguridad energética
Energy Transition Strategies	Estratégias de Transição Energética	Estrategias de transición energética	Stratégies de transition énergétique	Energiewendestrategien	Strategie di transizione energetica	Estrategias de transición energética
Energy Access Programs	Programas de Acesso à Energia	Programas de acceso a la energía	Programmes d'accès à l'énergie	Energiezugangsprogramme	Programmi di accesso all'energia	Programas de acceso a la energía
Energy Quality Standards	Padrões de Qualidade da Energia	Normas de calidad de la energía	Normes de qualité de l'énergie	Energiequalitätsstandards	Standard di qualità dell'energia	Normas de calidad de la energía
Energy Reliability Indicators	Indicadores de Confiabilidade da Energia	Indicadores de confiabilidad de la energía	Indicateurs de fiabilité de l'énergie	Energiezuverlässigkeitsindikatoren	Indicatori di affidabilità dell'energia	Indicadores de confiabilidad de la energía
Energy Sustainability Metrics	Métricas de Sustentabilidade da Energia	Métricas de sostenibilidad de la energía	Métriques de durabilité de l'énergie	Energiehaltbarkeitsmetriken	Metriche di sostenibilità dell'energia	Métricas de sostenibilidad de la energía
Energy Resilience Assessments	Avaliações de Resiliência da Energia	Evaluaciones de resiliencia de la energía	Évaluations de résilience de l'énergie	Energieelastizitätsbewertungen	Valutazioni di resilienza dell'energia	Evaluaciones de resiliencia de la energía
Energy Flexibility Solutions	Soluções de Flexibilidade da Energia	Soluciones de flexibilidad de la energía	Solutions de flexibilité de l'énergie	Energieflexibilitätslösungen	Soluzioni di flessibilità dell'energia	Soluciones de flexibilidad de la energía
Energy Diversity Initiatives	Iniciativas de Diversidade da Energia	Iniciativas de diversidad de la energía	Initiatives de diversité de l'énergie	Energievielfalt-Initiativen	Iniziative di diversità dell'energia	Iniciativas de diversidad de la energía
Energy Decarbonization Pathways	Caminhos para a Descarbonização da Energia	Caminos para la descarbonización de la energía	Cheminements pour la décarbonation de l'énergie	Energieentkarbonisierungspfade	Percorsi per la decarbonazione dell'energia	Caminos para la descarbonización de la energía
Energy Digitalization Strategies	Estratégias de Digitalização da Energia	Estrategias de digitalización de la energía	Stratégies de digitalisation de l'énergie	Energie digitalisierungsstrategien	Strategie di digitalizzazione dell'energia	Estrategias de digitalización de la energía
Energy Smart Grid Development	Desenvolvimento de Redes Inteligentes de Energia	Desarrollo de redes inteligentes de energía	Développement de smart grids	Energie smart grids-Entwicklung	Sviluppo di reti intelligenti	Desarrollo de redes inteligentes de energía
Energy Distribution Network Expansion	Expansão das Redes de Distribuição de Energia	Expansión de las redes de distribución de energía	Expansion des réseaux de distribution d'énergie	Energieverteilungsnetz-Erweiterung	Espansione delle reti di distribuzione dell'energia	Expansión de las redes de distribución de energía
Energy Demand Management Programs	Programas de Gestão da Demanda de Energia	Programas de gestión de la demanda de energía	Programmes de gestion de la demande d'énergie	Energiefrage-Management-Programme	Programmi di gestione della domanda di energia	Programas de gestión de la demanda de energía
Energy Policy Review	Revisão da Política Energética	Revisión de la política energética	Revue de la politique énergétique	Energiepolitik-Überprüfung	Revisione della politica energetica	Revisión de la política energética
Energy Market Integration	Integração do Mercado de Energia	Integración del mercado de energía	Intégration du marché de l'énergie	Energiemarkt-Integration	Integrazione del mercato dell'energia	Integración del mercado de energía
Energy Investment Attraction	Atração de Investimento em Energia	Atracción de inversión en energía	Attraction de l'investissement énergétique	Energieinvestitionsattraktion	Attrazione di investimenti in energia	Atracción de inversión en energía
Energy Research Collaboration	Colaboração em Pesquisa em Energia	Colaboración en investigación en energía	Collaboration de recherche énergétique	Energieforschungszusammenarbeit	Collaborazione nella ricerca in energia	Colaboración en investigación en energía
Energy Innovation Support	Apoio à Inovação em Energia	Apoyo a la innovación en energía	Aide à l'innovation énergétique	Energieinnovationsunterstützung	Supporto all'innovazione in energia	Apoyo a la innovación en energía
Energy Security Enhancement	Melhorias da Segurança Energética	Mejoras de seguridad energética	Améliorations de la sécurité énergétique	Energiesicherheitsverbesserungen	Miglioramenti della sicurezza energetica	Mejoras de seguridad energética
Energy Transition Acceleration	Aceleração da Transição Energética	Aceleración de la transición energética	Accélération de la transition énergétique	Energiewende-Beschleunigung	Accelerazione della transizione energetica	Aceleración de la transición energética
Energy Access Expansion	Expansão do Acesso à Energia	Expansión del acceso a la energía	Expansion de l'accès à l'énergie	Energiezugangserweiterung	Espansione dell'accesso all'energia	Expansión del acceso a la energía
Energy Quality Improvement	Melhorias da Qualidade da Energia	Mejoras de calidad de la energía	Méliorations de la qualité de l'énergie	Energiequalitätsverbesserungen	Miglioramenti della qualità dell'energia	Mejoras de calidad de la energía
Energy Reliability Strengthening	Fortalecimento da Confiabilidade da Energia	Fortalecimiento de la confiabilidad de la energía	Renforcement de la fiabilité de l'énergie	Energiezuverlässigkeitstärkung	Rafforzamento dell'affidabilità dell'energia	Fortalecimiento de la confiabilidad de la energía
Energy Sustainability Promotion	Promoção da Sustentabilidade da Energia	Promoción de la sostenibilidad de la energía	Promotion de la durabilité de l'énergie	Energiehaltbarkeitförderung	Promozione della sostenibilità dell'energia	Promoción de la sostenibilidad de la energía
Energy Resilience Building	Construção de Resiliência da Energia	Construcción de resiliencia de la energía	Construction de résilience de l'énergie	Energieelastizitätsaufbau	Costruzione di resilienza dell'energia	Construcción de resiliencia de la energía
Energy Flexibility Implementation	Implementação de Soluções de Flexibilidade da Energia	Implementación de soluciones de flexibilidad de la energía	Implémentation de solutions de flexibilité de l'énergie	Energieflexibilitätsimplementierung	Implementazione di soluzioni di flessibilità dell'energia	Implementación de soluciones de flexibilidad de la energía
Energy Diversity Expansion	Expansão das Iniciativas de Diversidade da Energia	Expansión de las iniciativas de diversidad de la energía	Expansion des initiatives de diversité de l'énergie	Energievielfalt-Erweiterung	Espansione delle iniziative di diversità dell'energia	Expansión de las iniciativas de diversidad de la energía
Energy Decarbonization Commitment	Compromisso com a Descarbonização da Energia	Compromiso con la descarbonización de la energía	Engagement de décarbonation de l'énergie	Energieentkarbonisierungszusammenhang	Impegno per la decarbonazione dell'energia	Compromiso con la descarbonización de la energía
Energy Digitalization Acceleration	Aceleração da Digitalização da Energia	Aceleración de la digitalización de la energía	Accélération de la digitalisation de l'énergie	Energie digitalisierungsbeschleunigung	Accelerazione della digitalizzazione dell'energia	Aceleración de la digitalización de la energía
Energy Smart Grid Deployment	Implantação de Redes Inteligentes de Energia	Implantación de redes inteligentes de energía	Implémentation de smart grids	Energie smart grids-Einsatz	Impiego di reti intelligenti	Implantación de redes inteligentes de energía
Energy Distribution Network Modernization	Modernização das Redes de Distribuição de Energia	Modernización de las redes de distribución de energía	Modernisation des réseaux de distribution d'énergie	Energieverteilungsnetz-Modernisierung	Modernizzazione delle reti di distribuzione dell'energia	Modernización de las redes de distribución de energía
Energy Demand Management Optimization	Otimização da Gestão da Demanda de Energia	Optimización de la gestión de la demanda de energía	Optimisation de la gestion de la demande d'énergie	Energiefrage-Management-Optimierung	Ottimizzazione della gestione della domanda di energia	Optimización de la gestión de la demanda de energía
Energy Policy Update	Atualização da Política Energética	Actualización de la política energética	Mise à jour de la politique énergétique	Energiepolitik-Update	Aggiornamento della politica energetica	Actualización de la política energética
Energy Market Reform Implementation	Implementação das Reformas do Mercado de Energia	Implementación de las reformas del mercado de energía	Implémentation des réformes du marché de l'énergie	Energiemarkt-Reform-Einführung	Implementazione delle riforme del mercato dell'energia	Implementación de las reformas del mercado de energía
Energy Investment Incentive Introduction	Introdução de Incentivos para Investimento em Energia	Introducción de incentivos para inversión en energía	Introduction d'incentifs pour l'investissement énergétique	Energieinvestitionsanreize-Einführung	Introduzione di incentivi per l'investimento in energia	Introducción de incentivos para inversión en energía
Energy Research Funding Increase	Aumento do Financiamento da Pesquisa em Energia	Aumento de la financiación de la investigación en energía	Augmentation du financement de la recherche énergétique	Energieforschungsförderung-Erhöhung	Aumento del finanziamento della ricerca in energia	Aumento de la financiación de la investigación en energía
Energy Innovation Support Expansion	Expansão do Apoio à Inovação em Energia	Expansión del apoyo a la innovación en energía	Expansion de l'aide à l'innovation énergétique	Energieinnovationsunterstützung-Erweiterung	Espansione del supporto all'innovazione in energia	Expansión del apoyo a la innovación en energía
Energy Security Enhancement Measures	Medidas de Melhorias da Segurança Energética	Medidas de mejoras de seguridad energética	Mesures d'améliorations de la sécurité énergétique	Energiesicherheitsverbesserungsmaßnahmen	Misure di miglioramenti della sicurezza energetica	Medidas de mejoras de seguridad energética
Energy Transition Acceleration Strategies	Estratégias de Aceleração da Transição Energética	Estrategias de aceleración de la transición energética	Stratégies d'accélération de la transition énergétique	Energiewende-Beschleunigungsstrategien	Strategie di accelerazione della transizione energetica	Estrategias de aceleración de la transición energética
Energy Access Expansion Programs	Programas de Expansão do Acesso à Energia	Programas de expansión del acceso a la energía	Programmes d'expansion de l'accès à l'énergie	Energiezugangserweiterungsprogramme	Programmi di espansione dell'accesso all'energia	Programas de expansión del acceso a la energía
Energy Quality Improvement Initiatives	Iniciativas de Melhorias da Qualidade da Energia	Iniciativas de mejoras de calidad de la energía	Initiatives de améliorations de la qualité de l'énergie	Energiequalitätsverbesserungsinitiativen	Iniziative di miglioramenti della qualità dell'energia	Iniciativas de mejoras de calidad de la energía
Energy Reliability Strengthening Measures	Medidas de Fortalecimento da Confiabilidade da Energia	Medidas de fortalecimiento de la confiabilidad de la energía	Mesures de renforcement de la fiabilité de l'énergie	Energiezuverlässigkeitstärkungsmaßnahmen	Misure di rafforzamento dell'affidabilità dell'energia	Medidas de fortalecimiento de la confiabilidad de la energía
Energy Sustainability Promotion Activities	Atividades de Promoção da Sustentabilidade da Energia	Actividades de promoción de la sostenibilidad de la energía	Activités de promotion de la durabilité de l'énergie	Energiehaltbarkeitförderungsaktivitäten	Attività di promozione della sostenibilità dell'energia	Actividades de promoción de la sostenibilidad de la energía
Energy Resilience Building Initiatives	Iniciativas de Construção de Resiliência da Energia	Iniciativas de construcción de resiliencia de la energía	Initiatives de construction de résilience de l'énergie	Energieelastizitätsaufbauinitiativen	Iniziative di costruzione di resilienza dell'energia	Iniciativas de construcción de resiliencia de la energía
Energy Flexibility Implementation Programs	Programas de Implementação de Soluções de Flexibilidade da Energia	Programas de implementación de soluciones de flexibilidad de la energía	Programmes d'implémentation de solutions de flexibilité de l'énergie	Energieflexibilitätsimplementierungsprogramme	Programmi di implementazione di soluzioni di flessibilità dell'energia	Programas de implementación de soluciones de flexibilidad de la energía
Energy Diversity Expansion Initiatives	Iniciativas de Expansão das Iniciativas de Diversidade da Energia	Iniciativas de expansión de las iniciativas de diversidad de la energía	Initiatives d'expansion des initiatives de diversité de l'énergie	Energievielfalt-Erweiterungsinitiativen	Iniziative di espansione delle iniziative di diversità dell'energia	Iniciativas de expansión de las iniciativas de diversidad de la energía
Energy Decarbonization Commitment Statements	Declarações de Compromisso com a Descarbonização da Energia	Declaraciones de compromiso con la descarbonización de la energía	Déclarations d'engagement de décarbonation de l'énergie	Energieentkarbonisierungszusammenhang-Äußerungen	Dichiarazioni di impegno per la decarbonazione dell'energia	Declaraciones de compromiso con la descarbonización de la energía
Energy Digitalization Acceleration Strategies	Estratégias de Aceleração da Digitalização da Energia	Estrategias de aceleración de la digitalización de la energía	Stratégies d'accélération de la digitalisation de l'énergie	Energie digitalisierungsbeschleunigungsstrategien	Strategie di accelerazione della digitalizzazione dell'energia	Estrategias de aceleración de la digitalización de la energía
Energy Smart Grid Deployment Programs	Programas de Implantação de Redes Inteligentes de Energia	Programas de implantación de redes inteligentes de energía	Programmes d'implémentation de smart grids	Energie smart grids-Einsatzprogramme	Programmi di impiego di reti intelligenti	Programas de implantación de redes inteligentes de energía
Energy Distribution Network Modernization Initiatives	Iniciativas de Modernização das Redes de Distribuição de Energia	Iniciativas de modernización de las redes de distribución de energía	Initiatives de modernisation des réseaux de distribution d'énergie	Energieverteilungsnetz-Modernisierungsinitiativen	Iniziative di modernizzazione delle reti di distribuzione dell'energia	Iniciativas de modernización de las redes de distribución de energía
Energy Demand Management Optimization Programs	Programas de Otimização da Gestão da Demanda de Energia	Programas de optimización de la gestión de la demanda de energía	Programmes d'optimisation de la gestion de la demande d'énergie	Energiefrage-Management-Optimierungsprogramme	Programmi di ottimizzazione della gestione della domanda di energia	Programas de optimización de la gestión de la demanda de energía
Energy Policy Update Initiatives	Iniciativas de Atualização da Política Energética	Iniciativas de actualización de la política energética	Initiatives de mise à jour de la politique énergétique	Energiepolitik-Updateinitiativen	Iniziative di aggiornamento della politica energetica	Iniciativas de actualización de la política energética
Energy Market Reform Implementation Programs	Programas de Implementação das Reformas do Mercado de Energia	Programas de implementación de las reformas del mercado de energía	Programmes d'implémentation des réformes du marché de l'énergie	Energiemarkt-Reform-Einführungsprogramme	Programmi di implementazione delle riforme del mercato dell'energia	Programas de implementación de las reformas del mercado de energía
Energy Investment Incentive Introduction Programs	Programas de Introdução de Incentivos para Investimento em Energia	Programas de introducción de incentivos para inversión en energía	Programmes d'introduction d'incentifs pour l'investissement énergétique	Energieinvestitionsanreize-Einführungsprogramme	Programmi di introduzione di incentivi per l'investimento in energia	Programas de introducción de incentivos para inversión en energía
Energy Research Funding Increase Initiatives	Iniciativas de Aumento do Financiamento da Pesquisa em Energia	Iniciativas de aumento de la financiación de la investigación en energía	Initiatives d'augmentation du financement de la recherche énergétique	Energieforschungsförderung-Erhöhunginitiativen	Iniziative di aumento del finanziamento della ricerca in energia	Iniciativas de aumento de la financiación de la investigación en energía
Energy Innovation Support Expansion Programs	Programas de Expansão do Apoio à Inovação em Energia	Programas de expansión del apoyo a la innovación en energía	Programmes d'expansion de l'aide à l'innovation énergétique	Energieinnovationsunterstützung-Erweiterungsprogramme	Programmi di espansione del supporto all'innovazione in energia	Programas de expansión del apoyo a la innovación en energía
Energy Security Enhancement Measures Implementation	Implementação das Medidas de Melhorias da Segurança Energética	Implementación de las medidas de mejoras de seguridad energética	Implémentation des mesures d'améliorations de la sécurité énergétique	Energiesicherheitsverbesserungsmaßnahmen-Einführung	Implementazione delle misure di miglioramenti della sicurezza energetica	Implementación de las medidas de mejoras de seguridad energética
Energy Transition Acceleration Strategies Implementation	Implementação das Estratégias de Aceleração da Transição Energética	Implementación de las estrategias de aceleración de la transición energética	Implémentation des stratégies d'accélération de la transition énergétique	Energiewende-Beschleunigungsstrategien-Einführung	Implementazione delle strategie di accelerazione della transizione energetica	Implementación de las estrategias de aceleración de la transición energética
Energy Access Expansion Programs Implementation	Implementação dos Programas de Expansão do Acesso à Energia	Implementación de los programas de expansión del acceso a la energía	Implémentation des programmes d'expansion de l'accès à l'énergie	Energiezugangserweiterungsprogramme-Einführung	Implementazione dei programmi di espansione dell'accesso all'energia	Implementación de los programas de expansión del acceso a la energía
Energy Quality Improvement Initiatives Implementation	Implementação das Iniciativas de Melhorias da Qualidade da Energia	Implementación de las iniciativas de mejoras de calidad de la energía	Implémentation des initiatives de améliorations de la qualité de l'énergie	Energiequalitätsverbesserungsinitiativen-Einführung	Implementazione delle iniziative di miglioramenti della qualità dell'energia	Implementación de las iniciativas de mejoras de calidad de la energía
Energy Reliability Strengthening Measures Implementation	Implementação das Medidas de Fortalecimento da Confiabilidade da Energia	Implementación de las medidas de fortalecimiento de la confiabilidad de la energía	Implémentation des mesures de renforcement de la fiabilité de l'énergie	Energiezuverlässigkeitstärkungsmaßnahmen-Einführung	Implementazione delle misure di rafforzamento dell'affidabilità dell'energia	Implementación de las medidas de fortalecimiento de la confiabilidad de la energía
Energy Sustainability Promotion Activities Implementation	Implementação das Atividades de Promoção da Sustentabilidade da Energia	Implementación de las actividades de promoción de la sostenibilidad de la energía	Implémentation des activités de promotion de la durabilité de l'énergie	Energiehaltbarkeitförderungsaktivitäten-Einführung	Implementazione delle attività di promozione della sostenibilità dell'energia	Implementación de las actividades de promoción de la sostenibilidad de la energía
Energy Resilience Building Initiatives Implementation	Implementação das Iniciativas de Construção de Resiliência da Energia	Implementación de las iniciativas de construcción de resiliencia de la energía	Implémentation des initiatives de construction de résilience de l'énergie	Energieelastizitätsaufbauinitiativen-Einführung	Iniziative di costruzione di resilienza dell'energia	Implementación de las iniciativas de construcción de resiliencia de la energía
Energy Flexibility Implementation Programs Implementation	Implementação dos Programas de Implementação de Soluções de Flexibilidade da Energia	Implementación de los programas de implementación de soluciones de flexibilidad de la energía	Implémentation des programmes d'implémentation de solutions de flexibilité de l'énergie	Energieflexibilitätsimplementierungsprogramme-Einführung	Programmi di implementazione di soluzioni di flessibilità dell'energia	Implementación de los programas de implementación de soluciones de flexibilidad de la energía
Energy Diversity Expansion Initiatives Implementation	Implementação das Iniciativas de Expansão das Iniciativas de Diversidade da Energia	Implementación de las iniciativas de expansión de las iniciativas de diversidad de la energía	Implémentation des initiatives d'expansion des initiatives de diversité de l'énergie	Energievielfalt-Erweiterungsinitiativen-Einführung	Iniziative di espansione delle iniziative di diversità dell'energia	Implementación de las iniciativas de expansión de las iniciativas de diversidad de la energía
Energy Decarbonization Commitment Statements Implementation	Implementação das Declarações de Compromisso com a Descarbonização da Energia	Implementación de las declaraciones de compromiso con la descarbonización de la energía	Implémentation des déclarations d'engagement de décarbonation de l'énergie	Energieentkarbonisierungszusammenhang-Äußerungen-Einführung	Dichiarazioni di impegno per la decarbonazione dell'energia	Implementación de las declaraciones de compromiso con la descarbonización de la energía
Energy Digitalization Acceleration Strategies Implementation	Implementação das Estratégias de Aceleração da Digitalização da Energia	Implementación de las estrategias de aceleración de la digitalización de la energía	Implémentation des stratégies d'accélération de la digitalisation de l'énergie	Energie digitalisierungsbeschleunigungsstrategien-Einführung	Strategie di accelerazione della digitalizzazione dell'energia	Implementación de las estrategias de aceleración de la digitalización de la energía
Energy Smart Grid Deployment Programs Implementation	Implementação dos Programas de Implantação de Redes Inteligentes de Energia	Implementación de los programas de implantación de redes inteligentes de energía	Implémentation des programmes d'implémentation de smart grids	Energie smart grids-Einsatzprogramme-Einführung	Programmi di impiego di reti intelligenti	Implementación de los programas de implantación de redes inteligentes de energía
Energy Distribution Network Modernization Initiatives Implementation	Implementação das Iniciativas de Modernização das Redes de Distribuição de Energia	Implementación de las iniciativas de modernización de las redes de distribución de energía	Implémentation des initiatives de modernisation des réseaux de distribution d'énergie	Energieverteilungsnetz-Modernisierungsinitiativen-Einführung	Iniziative di modernizzazione delle reti di distribuzione dell'energia	Implementación de las iniciativas de modernización de las redes de distribución de energía
Energy Demand Management Optimization Programs Implementation	Implementação dos Programas de Otimização da Gestão da Demanda de Energia	Implementación de los programas de optimización de la gestión de la demanda de energía	Implémentation des programmes d'optimisation de la gestion de la demande d'énergie	Energiefrage-Management-Optimierungsprogramme-Einführung	Programmi di ottimizzazione della gestione della domanda di energia	Implementación de los programas de optimización de la gestión de la demanda de energía
Energy Policy Update Initiatives Implementation	Implementação das Iniciativas de Atualização da Política Energética	Implementación de las iniciativas de actualización de la política energética	Implémentation des initiatives de mise à jour de la politique énergétique	Energiepolitik-Updateinitiativen-Einführung	Iniziative di aggiornamento della politica energetica	Implementación de las iniciativas de actualización de la política energética
Energy Market Reform Implementation Programs Implementation	Implementação dos Programas de Implementação das Reformas do Mercado de Energia	Implementación de los programas de implementación de las reformas del mercado de energía	Implémentation des programmes d'implémentation des réformes du marché de l'énergie	Energiemarkt-Reform-Einführungsprogramme-Einführung	Programmi di implementazione delle riforme del mercato dell'energia	Implementación de los programas de implementación de las reformas del mercado de energía
Energy Investment Incentive Introduction Programs Implementation	Implementação dos Programas de Introdução de Incentivos para Investimento em Energia	Implementación de los programas de introducción de incentivos para inversión en energía	Implémentation des programmes d'introduction d'incentifs pour l'investissement énergétique	Energieinvestitionsanreize-Einführungsprogramme-Einführung	Programmi di introduzione di incentivi per l'investimento in energia	Implementación de los programas de introducción de incentivos para inversión en energía
Energy Research Funding Increase Initiatives Implementation	Implementação das Iniciativas de Aumento do Financiamento da Pesquisa em Energia	Implementación de las iniciativas de aumento de la financiación de la investigación en energía	Implémentation des initiatives d'augmentation du financement de la recherche énergétique	Energieforschungsförderung-Erhöhunginitiativen-Einführung	Iniziative di aumento del finanziamento della ricerca in energia	Implementación de las iniciativas de aumento de la financiación de la investigación en energía
Energy Innovation Support Expansion Programs Implementation	Implementação dos Programas de Expansão do Apoio à Inovação em Energia	Implementación de los programas de expansión del apoyo a la innovación en energía	Implémentation des programmes d'expansion de l'aide à l'innovation énergétique	Energieinnovationsunterstützung-Erweiterungsprogramme-Einführung	Programmi di espansione del supporto all'innovazione in energia	Implementación de los programas de expansión del apoyo a la innovación en energía
Energy Security Enhancement Measures Implementation	Implementação das Medidas de Melhorias da Segurança Energética	Implementación de las medidas de mejoras de seguridad energética	Implémentation des mesures d'améliorations de la sécurité énergétique	Energiesicherheitsverbesserungsmaßnahmen-Einführung	Implementazione delle misure di miglioramenti della sicurezza energetica	Implementación de las medidas de mejoras de seguridad energética
Energy Transition Acceleration Strategies Implementation	Implementação das Estratégias de Aceleração da Transição Energética					

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	128	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	10.6	kW	T _j = - 7 °C	COP _d	1.94	-
Degradation co-efficient (**)	C _{dh}	1.00	-				
T _j = + 2 °C	P _{dh}	6.5	kW	T _j = + 2 °C	COP _d	3.13	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	5.3	kW	T _j = + 7 °C	COP _d	4.73	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.3	kW	T _j = +12 °C	COP _d	6.94	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	10.6	kW	T _j = bivalent temperature	COP _d	1.94	-
T _j = operation limit temperature	P _{dh}	8.0	kW	T _j = operation limit temperature	COP _d	1.57	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.8	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	7377	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	6.500	kWh
Annual electricity consumption	AEC	1431	kWh
Water heating energy efficiency			
η_{wh}			
121			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	176	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	10.6	kW	T _j = - 7 °C	COP _d	2.85	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	6.5	kW	T _j = + 2 °C	COP _d	4.51	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	5.6	kW	T _j = + 7 °C	COP _d	5.83	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	7.86	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	10.6	kW	T _j = bivalent temperature	COP _d	2.85	-
T _j = operation limit temperature	P _{dh}	8.1	kW	T _j = operation limit temperature	COP _d	1.58	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.8	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	5371	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	6.500	kWh
Annual electricity consumption	AEC	1431	kWh
Water heating energy efficiency			
η_{wh}			
121			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T_j).

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	108	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.3	kW	Tj = - 7 °C	COPd	2.43	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.03	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	3.8	kW	Tj = + 7 °C	COPd	4.42	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	6.67	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.6	kW	Tj = bivalent temperature	COPd	1.28	-
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.57	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	8.7	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.25	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	3.8	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	9994	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	7.730	kWh
Annual electricity consumption	AEC	1700	kWh
Water heating energy efficiency			
η_{wh}			
102			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	139	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.3	kW	T _j = - 7 °C	COP _d	3.46	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 2 °C	COP _d	3.81	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.13	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	5.5	kW	T _j = +12 °C	COP _d	7.24	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	10.1	kW	T _j = bivalent temperature	COP _d	1.98	-
T _j = operation limit temperature	P _{dh}	8.0	kW	T _j = operation limit temperature	COP _d	1.57	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.3	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.03	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	3.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items				Rated air flow rate, outdoors	-	2640	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)				
Annual energy consumption	Q _{HE}	7717	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	102	%
Declared load profile	XL						
Daily electricity consumption	Q _{elec}	7.730	kWh				
Annual electricity consumption	AEC	1700	kWh				

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	149	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	12.0	kW	Tj = + 2 °C	COPd	1.85	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.17	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	5.2	kW	Tj = +12 °C	COPd	5.31	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	1.85	-
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.57	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	4128	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	5.470	kWh
Annual electricity consumption	AEC	1203	kWh
Water heating energy efficiency			
η_{wh}			
145			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	215	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	12.0	kW	T _j = + 2 °C	COP _d	3.24	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	7.7	kW	T _j = + 7 °C	COP _d	4.90	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	6.88	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	12.0	kW	T _j = bivalent temperature	COP _d	3.24	-
T _j = operation limit temperature	P _{dh}	8.0	kW	T _j = operation limit temperature	COP _d	1.57	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	2864	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	5.470	kWh
Annual electricity consumption	AEC	1203	kWh
Water heating energy efficiency			
η_{wh}			
145			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T_j).

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	128	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	10.6	kW	T _j = - 7 °C	COP _d	1.94	-
Degradation co-efficient (**)	C _{dh}	1.00	-				
T _j = + 2 °C	P _{dh}	6.5	kW	T _j = + 2 °C	COP _d	3.13	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	5.3	kW	T _j = + 7 °C	COP _d	4.73	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.3	kW	T _j = +12 °C	COP _d	6.94	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	10.6	kW	T _j = bivalent temperature	COP _d	1.94	-
T _j = operation limit temperature	P _{dh}	8.0	kW	T _j = operation limit temperature	COP _d	1.57	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.8	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)				
Annual energy consumption	Q _{HE}	7377	kWh				

For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	η_{wh}	121	%
Daily electricity consumption	Q _{elec}	6.500	kWh				
Annual electricity consumption	AEC	1431	kWh				

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	176	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	10.6	kW	T _j = - 7 °C	COP _d	2.85	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	6.5	kW	T _j = + 2 °C	COP _d	4.51	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	5.6	kW	T _j = + 7 °C	COP _d	5.83	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	7.86	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	10.6	kW	T _j = bivalent temperature	COP _d	2.85	-
T _j = operation limit temperature	P _{dh}	8.1	kW	T _j = operation limit temperature	COP _d	1.58	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.8	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items				Rated air flow rate, outdoors	-	2640	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)				
Annual energy consumption	Q _{HE}	5371	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	121	%
Declared load profile	XL						
Daily electricity consumption	Q _{elec}	6.500	kWh				
Annual electricity consumption	AEC	1431	kWh				

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T_j).

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	108	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.3	kW	Tj = - 7 °C	COPd	2.43	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.03	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	3.8	kW	Tj = + 7 °C	COPd	4.42	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	6.67	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.6	kW	Tj = bivalent temperature	COPd	1.28	-
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.57	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	8.7	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.25	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	3.8	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	9994	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	7.730	kWh
Annual electricity consumption	AEC	1700	kWh
Water heating energy efficiency			
η_{wh}			
102			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	139	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.3	kW	T _j = - 7 °C	COP _d	3.46	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 2 °C	COP _d	3.81	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.13	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	5.5	kW	T _j = +12 °C	COP _d	7.24	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	10.1	kW	T _j = bivalent temperature	COP _d	1.98	-
T _j = operation limit temperature	P _{dh}	8.0	kW	T _j = operation limit temperature	COP _d	1.57	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.3	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.03	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	3.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items				Rated air flow rate, outdoors	-	2640	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)				
Annual energy consumption	Q _{HE}	7717	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	102	%
Declared load profile	XL						
Daily electricity consumption	Q _{elec}	7.730	kWh				
Annual electricity consumption	AEC	1700	kWh				

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	149	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	12.0	kW	Tj = + 2 °C	COPd	1.85	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.17	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	5.2	kW	Tj = +12 °C	COPd	5.31	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	1.85	-
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.57	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	4128	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	5.470	kWh
Annual electricity consumption	AEC	1203	kWh
Water heating energy efficiency			
η_{wh}			
145			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	EHST30D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	215	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	12.0	kW	T _j = + 2 °C	COP _d	3.24	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	7.7	kW	T _j = + 7 °C	COP _d	4.90	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	6.88	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	12.0	kW	T _j = bivalent temperature	COP _d	3.24	-
T _j = operation limit temperature	P _{dh}	8.0	kW	T _j = operation limit temperature	COP _d	1.57	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	2864	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	5.470	kWh
Annual electricity consumption	AEC	1203	kWh
Water heating energy efficiency			
η_{wh}			
145			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T_j).
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	128	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	10.6	kW	Tj = - 7 °C	COPd	1.94	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	3.13	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.3	kW	Tj = + 7 °C	COPd	4.73	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.3	kW	Tj = +12 °C	COPd	6.94	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.6	kW	Tj = bivalent temperature	COPd	1.94	-
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.57	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.8	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	7377	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	6.500	kWh
Annual electricity consumption	AEC	1431	kWh
Water heating energy efficiency			
η_{wh}			
121			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	176	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	10.6	kW	T _j = - 7 °C	COP _d	2.85	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	6.5	kW	T _j = + 2 °C	COP _d	4.51	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	5.6	kW	T _j = + 7 °C	COP _d	5.83	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	7.86	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	10.6	kW	T _j = bivalent temperature	COP _d	2.85	-
T _j = operation limit temperature	P _{dh}	8.1	kW	T _j = operation limit temperature	COP _d	1.58	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.8	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	5371	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	6.500	kWh
Annual electricity consumption	AEC	1431	kWh
Water heating energy efficiency			
η_{wh}			
121			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(T_j).

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	108	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.3	kW	T _j = - 7 °C	COP _d	2.43	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	4.4	kW	T _j = + 2 °C	COP _d	3.03	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	4.42	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	6.67	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	8.6	kW	T _j = bivalent temperature	COP _d	1.28	-
T _j = operation limit temperature	P _{dh}	8.0	kW	T _j = operation limit temperature	COP _d	1.57	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.7	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.25	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	3.8	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items				Rated air flow rate, outdoors	-	2640	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)				
Annual energy consumption	Q _{HE}	9994	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	102	%
Declared load profile	XL						
Daily electricity consumption	Q _{elec}	7.730	kWh				
Annual electricity consumption	AEC	1700	kWh				

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	139	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.3	kW	Tj = - 7 °C	COPd	3.46	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 2 °C	COPd	3.81	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.9	kW	Tj = + 7 °C	COPd	5.13	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	5.5	kW	Tj = +12 °C	COPd	7.24	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.57	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	10.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.03	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	3.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	7717	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	7.730	kWh
Annual electricity consumption	AEC	1700	kWh
Water heating energy efficiency			
η_{wh}			
102			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	149	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	12.0	kW	Tj = + 2 °C	COPd	1.85	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.17	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	5.2	kW	Tj = +12 °C	COPd	5.31	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	1.85	-
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.57	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	4128	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	5.470	kWh
Annual electricity consumption	AEC	1203	kWh
Water heating energy efficiency			
η_{wh}			
145			
%			

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUD-SWM120YAA(-BS)
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.0	kW	Seasonal space heating energy efficiency	η_s	215	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	12.0	kW	T _j = + 2 °C	COP _d	3.24	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	7.7	kW	T _j = + 7 °C	COP _d	4.90	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	6.88	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	12.0	kW	T _j = bivalent temperature	COP _d	3.24	-
T _j = operation limit temperature	P _{dh}	8.0	kW	T _j = operation limit temperature	COP _d	1.57	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	T _{designh}	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
				Type of energy input	Electrical		

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dB(A)
Annual energy consumption	Q _{HE}	2864	kWh
Rated air flow rate, outdoors			
-			
2640			
m ³ /h			

For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Q _{elec}	5.470	kWh
Annual electricity consumption	AEC	1203	kWh
Water heating energy efficiency			
η_{wh}			
145			
%			

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.