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Air source heat pump packages with carbon dioxide as refrigerants

二氧化碳空气源热泵机组

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Table of Contents

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

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This document was drafted by: China Academy of Building Research Co., Ltd., Tsinghua University, Hefei General Machinery Research Institute Co., Ltd., Tus-Research Jing Energy Environmental Science Research Institute (Beijing) Co., Ltd., Heilongjiang Aikede Technology Co., Ltd., Chongqing Midea General Refrigeration Equipment Co., Ltd.

Co., Ltd., Peking University, Ningbo Meike CO2 Heat Pump Technology Co., Ltd., Fujian

Snowman Group Co., Ltd., Jiangsu Sujing Group Co., Ltd.

Qingdao Haier Air Conditioner Co., Ltd., Tianjin University, Qingdao Hisense Hitachi Air Conditioning System Co., Ltd., Bitzer Refrigeration Technology (China) Co., Ltd.

Co., Ltd., Guangdong Midea Refrigeration Equipment Co., Ltd., Denso (China) Investment Co., Ltd. Shanghai Technology Center, Qingdao Haier Kaili Refrigeration Equipment Co., Ltd., Tongfang Smart Energy Co., Ltd., Hisense Air Conditioning Co., Ltd., Jinan Gongda JieNeng Technology Development Co., Ltd., Sunrise East Holding Co., Ltd., Shaanxi Yide New Energy Technology Co., Ltd., Guangdong Phoenix Energy Saving Equipment Co., Ltd., Gangneng Technology (Wuxi) Co., Ltd., Guangdong Newent New Energy Technology Co., Ltd., China Construction Third Engineering Bureau Installation Engineering Co., Ltd., Zhejiang Zhengli Bioenergy Technology Co., Ltd.

Company, CECEP Urban Energy Conservation Research Institute Co., Ltd., Taijia Air Conditioning System (Jiangsu) Co., Ltd., Hangzhou Wenger Technology Co., Ltd., Wuxi Tong Fang Artificial Environment Co., Ltd., Shandong Tiangang Energy Technology Co., Ltd., Zhejiang Science and Trade Industry Co., Ltd., Hangzhou Dazhan Electromechanical Technology Co., Ltd.

Co., Ltd., Aoke Environmental Technology Co., Ltd., Shenzhen Zhonghong Low Carbon Building Technology Co., Ltd., Meirui Environmental Technology (Suzhou) Co., Ltd., Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China Architecture Northwest Design Institute Co., Ltd., Xi'an Jiaotong University, Tianjin Commercial University, Beijing Institute of Technology University of Science and Technology, China Special Equipment Testing and Research Institute, China National Institute of Standardization, China Refrigeration and Air-conditioning Industry Association, Huazhong University of Science and Technology, Hefei Tongji University Mechanical and Electrical Products Testing Institute Co., Ltd., Shanghai Jiaotong University, SINOMACH General Machinery Technology Co., Ltd., Jianke Environmental Energy Technology Co., Ltd., China Energy Conservation Association, Science and Technology and Industrialization Development Center of the Ministry of Housing and Urban-Rural Development, and Anhui University of Technology.

The main drafters of this document are: Lu Bin, Jiang Peixue, Xu Wei, Shi Lin, Li Xiaoyu, Zhou Kun, Zhu Yinhai, Han Xingwang, Yan Libo, Lu Jia, Yao Jiangang, Zhang Xinrong, Pan Hao, An Qingsong, Zhang Wenqiang, Wang Fei, Zhou Hongliang, Li Conghui, Tian Jian, Yuan Jing, Bie Qingfeng, Zhang Zhentao, Yin Yaling, Wang Changlin, Lei Pengfei, Cao Feng, Zhao Misheng, Jiang Yuyan, Huang Yimeng, Mao Xianjun, He Hui, Zhao Liman, Sun Bin, Meng Shaofeng, Wang Rujin, He Ming, Liu Wei, Huang Guohua, Shi Yang, Shao Ying, Xiong Dan, Xu Defeng, Li Minxia, Xu Xinhua, Dai Baomin, Wang Zhenchuan, Niu Xiaowen, Kong Lingbo, Liu Xiaohong, Chen Leixin, Zhao Min, Yu Si, Zhang Huan, Du Yuji, Zheng Mingyu, Zhao Hengyi, Chen Peixuan, Hu Bin, Tang Liangliang, Wang Xuan, Yang Qiang, Zeng Bo, Zhuang Yong, Meng Jie, Liang Chuanzhi, Yang Chun, Wang Dong, Tang Feng,

Wang Tiansheng and Ma Li.

Carbon dioxide air source heat pump unit

1 Scope

This document specifies the types and basic parameters, technical requirements, test methods, inspection rules and standards of carbon dioxide air source heat pump units.

Requirements for marking, packaging, transportation and storage.

This document is applicable to the production of heating hot water, domestic hot water, industrial hot water, etc. by using air as the heat source and carbon dioxide as the refrigerant through heat exchange with air.

Design, manufacture and inspection of heat pump units for industrial (commercial) hot water or steam production.

2 Normative references

GB/T 150.4-2024

GB/T 1576-2018

GB/T 2423.17

GB 2894-2008

GB/T 4208-2017

GB/T 5226.1-2019

GB/T 9068-1988

GB/T 9237

GB/T 10870-2014

GB/T 13306

GB/T 13384

GB/T 18430.1-2024

GB 25131-2010

GB/T 26572

GB/T 29044

3 Terms and definitions

The terms and definitions defined in JB/T 7249 and the following apply to this document.

3.1 Pump unit

Air source heat for producing heating hot water, domestic hot water, industrial (commercial) hot water or steam by using carbon dioxide as refrigerant to exchange heat with air