

1.1 General information

1.1.1 General notes

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No type of modification must be made to the equipment without prior, written authorization from the manufacturer.



NOTE

This air conditioner has been designed for standard air conditioning for human beings. For use in other applications, please contact your HITACHI dealer or service contractor.

1.1.2 Introduction

HITACHI proudly announces the newest R32 range of air-to-water heat pumps in its award-winning YUTAKI range.

YUTAKI units produce heating and domestic hot water like any oil or gas boiler, but transforming renewable energy from the outside air into heat. Air to water heat pumps extract the free energy present in the air, which is enough to heat a home up to a comfortable temperature, even on the coldest winter day. Every kW of electricity used to power the heat pump can yield up to more than 5 kW of energy for heating; this provides savings of up to 80% on heating expenses compared to a traditional fossil fuel boiler.

The new R32 YUTAKI series, based on state-of-the-art technology, does not only achieve an outstanding performance in space heating but also provides domestic hot water with high efficiency. Additionally, cooling operation for summer can also be provided installing the dedicated "Cooling kit" accessory of HITACHI.

The system is simple to control; its new user controller (PC-ARFH1E) improves the acclaimed and successful design used with the existing LCD controller and provides a great deal of new functions like: wizard start-up configuration, auto cool/heat, improved timer, etc.

1.1.2.1 Overview of YUTAKI R32 system

The wide range of YUTAKI products is basically divided in two types of system:

- Split system
- Monobloc system

◆ Split system - YUTAKI S, YUTAKI S COMBI

It consists of one outdoor unit and one indoor unit. The outdoor unit extracts the heat present in the air, increases its refrigerant temperature and transmits it to the water circuit using the plate heat exchanger of the indoor unit, where the heat is taken to radiators (fan-coils), underfloor heating components or both (2nd temperature area).

Two types of indoor unit can be used in heating split systems:

YUTAKI S

The indoor unit of YUTAKI S is designed for space heating, in wall-mounted installation. It is convenient for new installations with low capacity requirements (Well insulated installations, high efficiency radiators...).

1.3.3 Accessory code list

Model	Ref.
For all series	A
For YUTAKI S units	S
For YUTAKI S COMBI units	SC
For YUTAKI M units	M

◆ Cooling kit accessories

Accessory	Ref.	Name	Code	Figure
ATW-CKS-01	S	Cooling operation kit for YUTAKI S (For 2.0~3.0HP)	7E549927	
ATW-CKSC-01	SC	Cooling operation kit for YUTAKI S COMBI (For 2.0~6.0HP)	7E549930	
ATW-CKM-01	M	Cooling operation kit for YUTAKI M (For 2 ~ 6HP)	7E549931	

◆ Control accessories

Accessory	Ref.	Name	Code	Figure
NEW PC-ARFH1E	A	Unit controller Wired room thermostat for YUTAKI units (Languages EN, ES, DE, FR, IT, NL, SL)	7E543011	
NEW PC-ARFH1E-02	A	Unit controller Wired room thermostat for YUTAKI units (Languages EN, DA, SV, FI, PT, HR, EL)	7E543012	
NEW PC-ARFH1E-03	A	Unit controller Wired room thermostat for YUTAKI units (Languages EN, PL, UK, HU, RO, SL, CS)	7E543013	
ATW-RTU-04	A	Wireless ON/OFF thermostat (Receiver + Room thermostat)	7E543003	
NEW ATW-RTU-07	A	Wireless Intelligent thermostat (Receiver + Room thermostat)	70543015	
ATW-RTU-06	A	Wireless Intelligent thermostat for 2nd circuit (Only Room thermostat. For Intelligent thermostat application)	7E543005	

◆ Temperature sensor accessories

Accessory	Ref.	Name	Code	Figure
ATW-2OS-02	A	2nd. outdoor temperature sensor	9E500017	
ATW-ITS-01	A	Indoor wired room temperature sensor	7E549932	
ATW-WTS-02Y	A	Universal water temperature sensor	9E500004	

◆ Water circuit accessories

Accessory	Ref.	Name	Code	Figure
ATW-2TK-06	SC	2nd zone mixing kit (Integrable in YUTAKI S COMBI 200 L model)	7E549951	
ATW-2TK-07	A	2nd zone mixing kit (Wall mounted model)	7E549952	
DHWT-200S-3.0H2E	S M	Domestic hot water tank (200 L)	70544002	
DHWT-300S-3.0H2E		Domestic hot water tank (300 L)	70544003	
ATW-HSK-01	A	Hydraulic separator	7E549905	
ATW-AQT-01	A	Aquastat security	7E549907	
ATW-3WV-01	A	3-way valve (Internal thread and spring return)	7E549906	
ATW-WCV-01	A	Water check valve	9E500014	

Accessory	Ref.	Name	Code	Figure
WEH-6E	M	Water electric heater	90500002	
ATW-DPOV-01	A	Differential pressure overflow valve	7E549916	

