

# INSTRUCTION MANUAL

## (FOR CENTRAL HEATING AND AIR-CONDITIONING : A C F - 1 )

#### MODEL (SENSITIVE HEAT EXCHANGER)

24HEC12P 24HEC15P 24HEC25P 24HEC35P 24HEC35P

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### **派**派 協立エアテック 株式会社

KYORITSU AIR TECH INC.

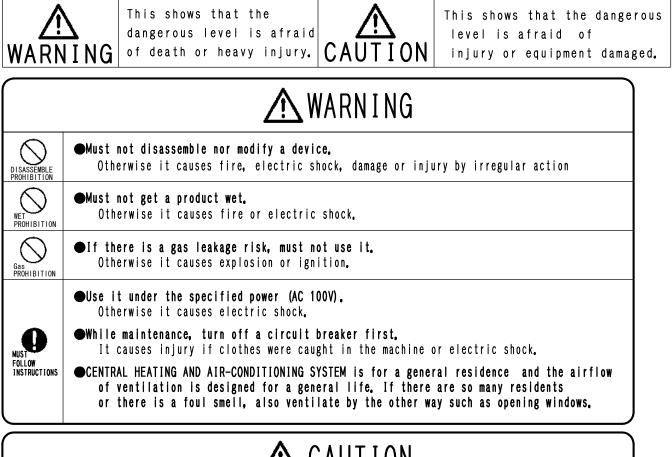
THIS INSTRUCTION MANUAL CAN BE REVISED BY IMPROVEMENT OF PRODUCTS WITHOUT A NOTICE.

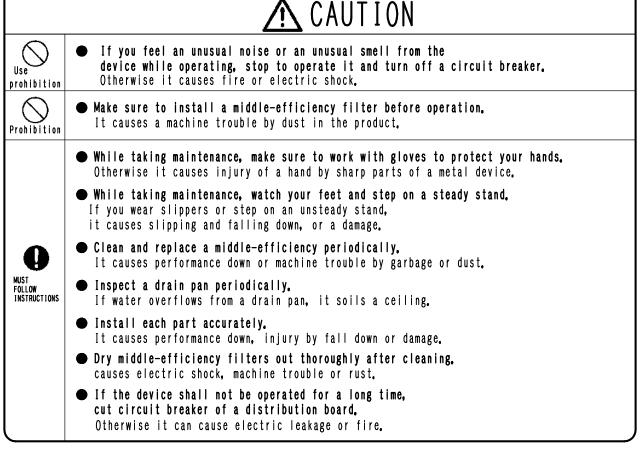
24 HECOP INSTRUCTION MANUAL

FOR CUSTOMERS

# 1. OBEY THE PROCEDURE FOR SAFTY

Make sure to read this "OBEY THE PROCEDURE FOR SAFTY" before using this product
 Here is written about important matters regarding to safety.
 Follow them to avoid be injuring and/or damaging.





## 2. OUTLINE OF CENTRAL HEATING AND AIR-CONDITIONING SYSTEM

## Prevent you from Sick House Syndrome

Sick House Syndrome as a present problem means that human may experience eye, nose, and throat irritation, stuffiness, "spaciness", skin rashes, headaches, nausea, flu-like symptoms. And the residents in a new built or renewal house often have such symptoms. One of the cause's opinions is a chemical matter emitted from building materials, furniture or daily necessities. Especially women, old people or babies are hazardous to their health to occupy as a result of airborne pollutants. So the Japanese Building Standards Act was amended to discharge chemical matters by mechanical ventilation. This product obeys the Act.

#### Indoor to be comfortable space This product gives air conditioning in whole house, so any room is comfortable in all season.

### Change supply air into healthy air

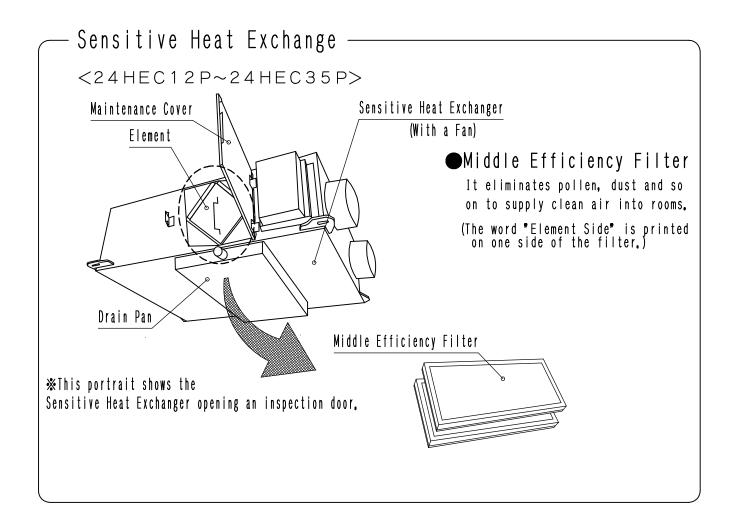
Recently outdoor air pollution increases gradually. So this product supplies fresh air through a middle-efficiency filter from outdoor air to eliminate pollen, fine particles and dust.

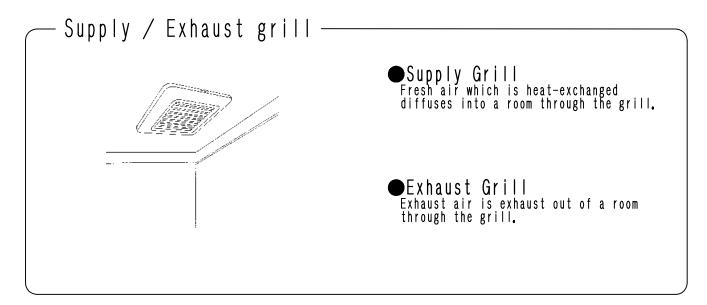


Energy saving ventilation system with a sensitive heat exchanger for all rooms

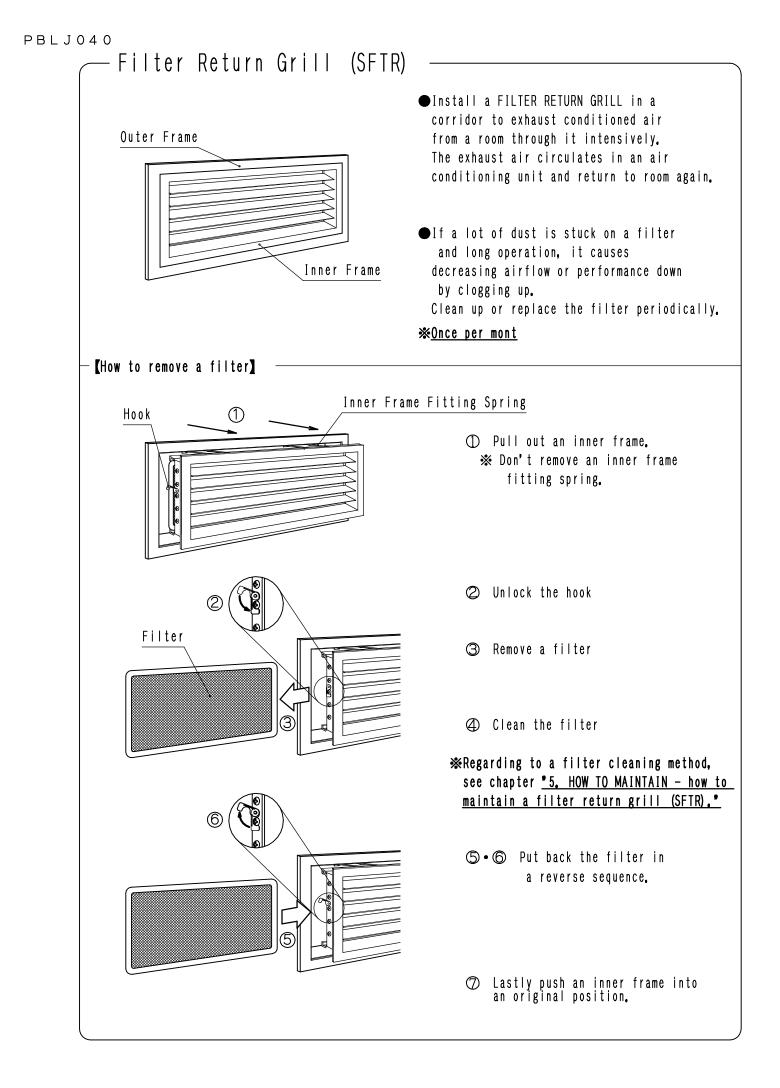
## Central heating and air-conditioning system can continue to supply fresh air into indoor and exhaust dirty air to outdoor by 24 hours operating.

# $\boldsymbol{\exists}$ . Description of the product and function

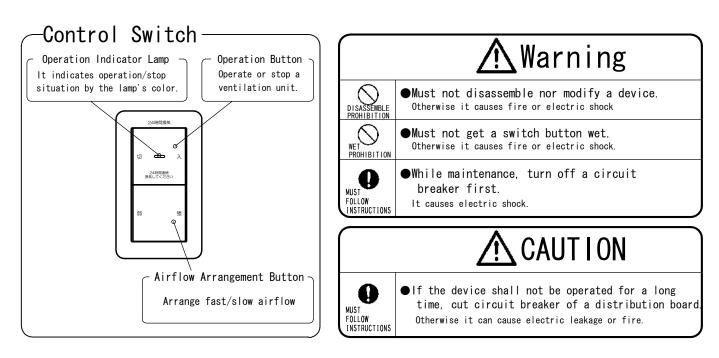


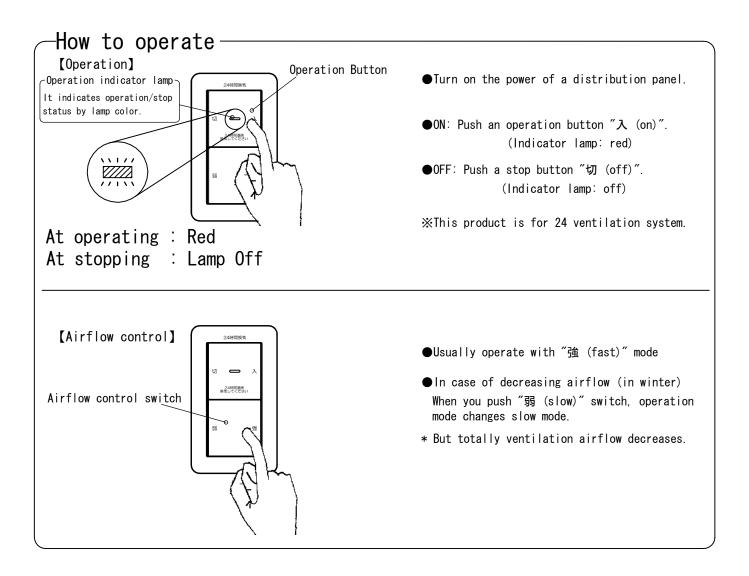


24 HEC DP INSTRUCTION MANUAL



# 4. HOW TO OPERATE





# 5. HOW TO MAINTENANCE

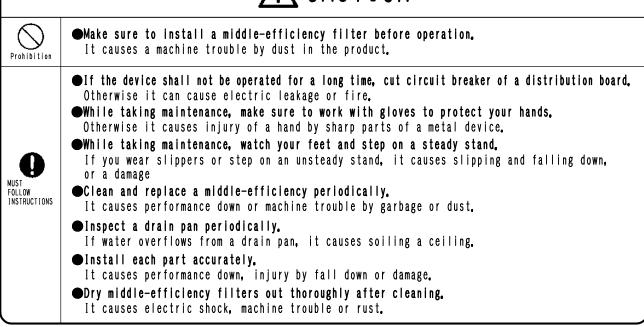
# <u>∧</u>Warning

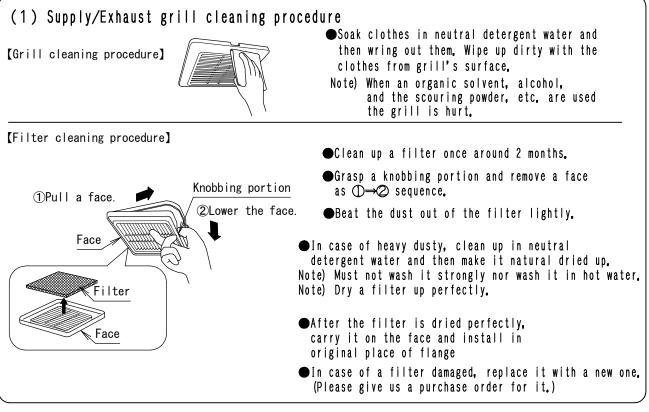


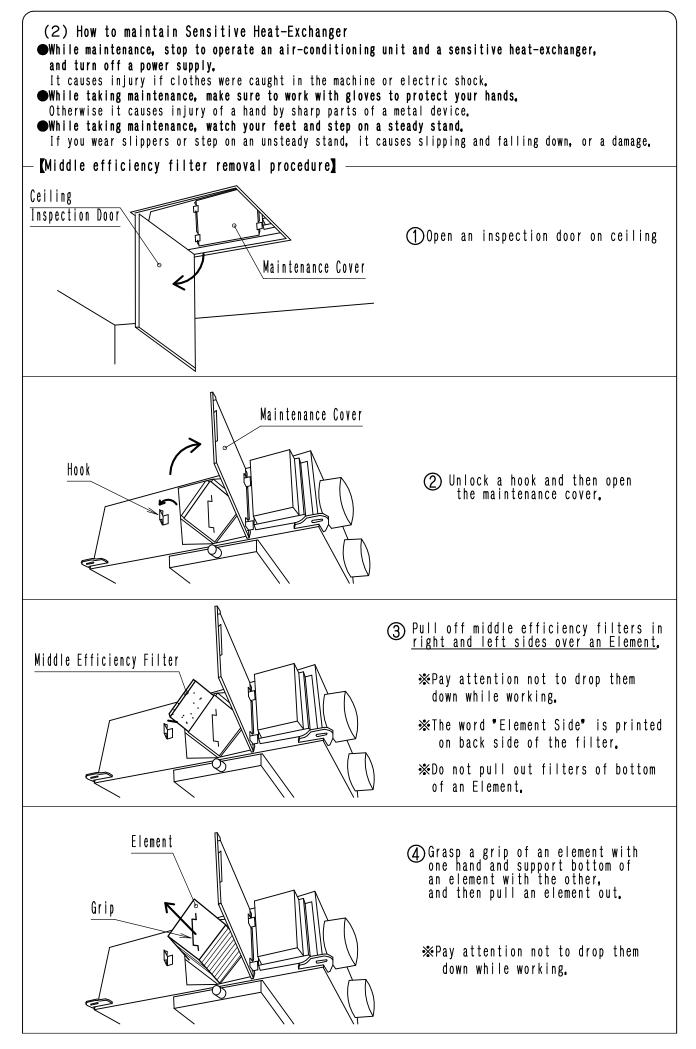
Must not disassemble nor modify "HOUSEECO 24". Otherwise it causes fire or electric shock

•While maintenance, turn off a circuit breaker first. It causes injury if clothes were caught in the machine or electric shock.

# \Lambda CAUTION







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[Middle efficiency filter cleaning procedure] -
☆A middle efficiency filter of SFTR or a sensitive heat-exchanger
  should be cleaned once per a month.
 • When you clean a filter, clean up in neutral detergent water
                                                                        Middle efficiency filter
  and then make it natural dried up.
Note) Must not wash it strongly
      nor wash it in hot water.
 • If a middle efficiency filter is broken or damaged,
  replace it with a new filter.
 • When you order it, please contact us.
 (See a chapter "6. Inspection and after sale Service" about contact to us.)
[How to inspect a drain pan] -
                                                                                     Outlet
₩When you clean a middle efficiency filter, inspect a drain pan too.
   Check "whether water is discharged fully from a drain pan"
    after you had pulled out a middle efficiency filter/element.
                                                                        b
 • If water is not discharged well, remove garbage around a outlet
                                                                                    Drain Pan
   because water can be stopped by the garbage.
   (If water overflows from a drain pan, it causes soiling a ceiling.)
[Note for installation] -
 • Install a middle efficiency filter whose
    "element printed side" should be set in the body as a below illustration.
                                                           Middle efficiency filter
       "エレメント"(Element) printed
                                                       Element
                         Eliminator
                     (Splash Prevention Filter)
Note) Check whether a middle efficiency filter is dried out thoroughly before installation.
Note) Must not pull an Eliminator (Splash Prevention Filter) out of the product.
       Otherwise it causes electric shock, machine trouble or rust by splashed water.
       Furthermore it causes soiling a ceiling.
 • Put back the filter in a reverse sequence as
   "5. HOW TO MAINTENANCE - Middle efficiency filter removal procedure"
 • Make sure to install a middle-efficiency filter before operation.
   Otherwise it causes a machine trouble by dust in the product.

    Check whether it is usual operation after putting back a middle efficiency filter.
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(3) How to clean a switch button
Soak a cloth in neutral detergent water or tepid water and wring out the cloth tightly, and then wipe the stains from a switch button with the cloth.
Note) Don't use an organic solvent, an alcohol or polishing powder. Otherwise they can damage a switch button.
Note) Must not wash a switch button in water because it causes machine trouble.

## 6. INSPECTION AND AFTER-SALE SERVICE

≪Machine Trouble Possible≫

- ●If you feel "machine trouble possible" in operating or after executing maintenance, check as following.
- Even if you cannot repair it or you find out under mentioned irregular condition, you should stop to operate it and contact a representative shop or us printed on this back cover.

Sign	Cause	Restoration				
●No wind (airflow) blows. ●Airflow does not blow enough.	<ul> <li>Isn't an airflow control board of a supply grill or an exhaust grill closed?</li> <li>Aren't blades of FD closed?</li> <li>Does main power supply on?</li> <li>Is a filter cleaned up?</li> </ul>	<ul> <li>Rotate an airflow control board to open and then inspect that airflow discharges.</li> <li>Open an inspection door and then check that FD is not closed.</li> <li>Check a power supply on.</li> <li>Check that a filter does not clog up.</li> </ul>				
●No operating	<ul> <li>Does main power supply on?</li> <li>Isn't a circuit breaker turned off?</li> </ul>	<ul> <li>Check a power supply on.</li> <li>Check that a circuit breaker does not turn off.</li> </ul>				

#### ≪After-sale Service≫

Request after-sale service to a representative shop or us in that time, give the information as following.

Product Name: 24 Hours Ventilation System	Description (details) of trouble/irregular
Model: 24HEC12PM ~ 24HEC35PM	Your name, your address and phone number

●Please call to our Call Center for an order of a filter or a thermal fuse. 092-947-6158 (Call Center)

# 7. PRODUCT SPECIFICATION

Model		24 HEC12 P				24HEC15P			
Rated Power	V	AC 100							
Operating Frequency	Ηz	50 60		50		60			
Notch		Normal	Low	Normal	Low	Normal	Low	Normal	Low
Airflow (Volume)	m³∕h	120	100	120	105	150	125	150	130
Outlet velocity static pressure	Рa	94	63	135	73	102	70	160	75
Rated Current	А	1.2	0.9	1.3	1.0	1.3	0.9	1.4	1.1
Consumption Power	W	105	88	130	97	120	90	140	108
Noise Level	dB(A)	34.7	31.0	36.5	31.0	34	28.1	36.2	25.7
Thermal Exchange Ra	te		65	5%			62	2%	
Pre-Filter			A	method o	f weight	measureme	nt 829	%	
Weight	Weight Approx. 27kg								

Model		24HEC25P				24HEC35P			
Rated Power	V	AC 100							
Operating Frequency	Ηz	50 6		0	50		60		
Notch		Normal	Low	Normal	Low	Normal	Low	Normal	Low
Airflow (Volume)	m³∕h	250	205	250	185	350	310	350	315
Outlet velocity static pressure	Рa	87	66	109	65	107	90	170	95
Rated Current	А	1.4	1.3	1.7	1.6	1.8	1.5	2.0	1.8
Consumption Power	W	142	128	166	151	176	150	196	180
Noise Level	dB(A)	25.4	21.0	26.1	19.0	29.6	25.4	31.2	24.7
Thermal Exchange Rate		67%	68%	67%	69%	66%			
Pre-Filter			A	method o	f weight	measureme	nt 829	%	
Weight	Approx. 44kg				Approx. 47kg				

●Noise level was measured at 1.5m under the center of a product.

And because it was measured in the anechoic chamber,

it can be different from a real site by such an echo.

# <u>A (LETTER OF) GUARANTEE</u>

Product Name	CENTRAL HEATING AND AIR-CONDITIONING	MODEL	2 4 H E C 🗆 P	
a free repair		m of a gua	etter promises that you can receive rantee when it shall be troubled ter of guarantee.	
1) When the p Instruction		a package	under following the prescribed procedures of or a package, the shop you purchased,	
show this	demand a free repair because of guarantee to the shop you purc eeded if a site is in an island	chased or ou	ur company. But traveling expenses	
3) In case of	f a change of address, consult	with the s	hop you purchased it before.	
4) This guara	antee is valid in only Japan.			
5) This guara in case o		Please und	derstand that we shall not reissue the guaran	tee
			ervice even in term of guarantee. sassembly, modify or wrong repair.	
			purchase, moving a place, drop down or your i	mistake.
③ Trouble o lightenin	or damage is caused by fire, da	mage from s lood, abno	salt water, gassed damage, earthquake, rmal weather or the other natural disaster.	
④ Trouble o	or damage is caused by differer	nt installa	tion or wrong work from correct way of ed procedure in a product or a package.	
⑤ Trouble o	or damage is caused by differer	nt power or	voltage from specified one.	
⑥ The produ	uct is not used in a house, but	used in a	business place.	
	no guarantee.			
			shop's sign or wrong description on a letter	of guaran
∦ This letter of a guara	ntee under the specified condit	ou can rece ion. But i	is charged a ree. ive a free repair work of the product in the t is not a restriction for your legal right. ease contact a shop you purchased or our comp.	
In term of guarantee	One year from purchased	year	month date	
	Name		Phone	
Customer	Address			
	Name		Phone	
Shop	Address		I	
KYORITSU A	LIR TECH INC Head Office : 1034-4 Oaza Wada, Sasaguri-Mac TEL:092-947-6101 FAX:092-94		-Gun, Fukuoka, 811-2414, JAPAN	
	CALL CENTER:			
	<b>TEL : 092-947-6158</b> On Line from Monday to Friday	9:00 <b>~</b> 17:0	00 (except holidays)	