Addendum to installation manual

EKHBRD011ABV1X
EKHBRD014ABV1X
EKHBRD016ABV1X

EKHBRD011ABY1X
EKHBRD014ABY1X
EKHBRD016ABY1X

Addendum to installation manual

CONTENTS

The original instructions are written in English. All other languages are translations of the original instructions.

General information

Thank you for purchasing this unit.

This unit is a special unit of the EKBRD series: EKHBRD***X**. This unit can also be connected to an EMRQ outdoor unit. For general installation and operation, the supplied installation and operation manuals must be used.

Some additional attention points are explained in this addendum. They are specific for the EKHBRD***X** series in combination with an EMRQ outdoor unit. Please read this information carefully. It overrules the standard information foreseen in the installation and operation manual.

Combination

The unit is the indoor part of the air to water heat pump system. The unit can only be combined with an ERSQ, ERRQ or EMRQ outdoor unit.

Connecting to a benefit kWh rate power supply

The EKHBRD***X** indoor unit and ERSQ and ERRQ outdoor unit can be connected to a benefit kWh rate power supply.

Due to compressor reliability reasons, the EMRQ outdoor unit **cannot** be connected to a benefit kWh rate power supply.

Connecting to an EMRQ outdoor unit

For connection and installation of an EKHBRD***X** to an EMRQ outdoor unit, follow the instructions as described in the installation manual of the EMRQ outdoor unit. Special attention points are mentioned below.

Field settings

Field setting [7-01] bottom plate heater cannot be used.

Field piping

Piping between refrigerant branch kit and indoor unit

Pipe size for direct connection to indoor unit must be the same size as the connection size of the indoor unit.

EKHBRD*X	
Discharge gas pipe	**Liquid pipe**
Ø15.9 mm	Ø9.5 mm

Capacity index to be allocated to EKHBRD***X** unit

The index as described in the table below, can be used to check the connection ratios and to select the refrigerant branch kits.

Indoor unit	Capacity index
EKHBRD011***X**	100
EKHBRD014***X**	125
EKHBRD016***X**	140

Field settings table

First code	Second code	Setting name	Installer setting at variance with default value				Default value	Range	Step	Unit
			Date	Value	Date	Value				
0	**Remote control setup**									
	00	User permission level					2	2~3	1	—
	01	Room temperature compensation value					0	–5~5	0.5	°C
	02	Not applicable. Do not change the default value.					1	—	—	—
	03	Status: space heating schedule timer mode Method 1=1 / Method 2=0					1 (ON)	0/1	—	—
	04	Not applicable. Do not change the default value.					1	—	—	—
1	**Automatic storage timing for domestic water heating**									
	00	Status: night time storage					1 (ON)	0/1	—	—
	01	Night time storage start time					1:00	0:00~23:00	1:00	hour
	02	Status: day time storage					0 (OFF)	0/1	—	—
	03	Day time storage start time					15:00	0:00~23:00	1:00	hour
2	**Automatic set back function**									
	00	Status: set back operation					1 (ON)	0/1	—	—
	01	Set back operation start time					23:00	0:00~23:00	1:00	hour
	02	Set back operation stop time					5:00	0:00~23:00	1:00	hour
3	**Weather dependent set point**									
	00	Low ambient temperature (Lo_A)					–10	–20~5	1	°C
	01	High ambient temperature (Hi_A)					15	10~20	1	°C
	02	Set point at low ambient temperature (Lo_Ti)					70	25~80	1	°C
	03	Set point at high ambient temperature (Hi_Ti)					45	25~80	1	°C
4	**Disinfection function**									
	00	Status: disinfection operation					1 (ON)	0/1	—	—
	01	Disinfection operation day selection					Fri	Mon~Sun	—	—
	02	Disinfection operation start time					23:00	0:00~23:00	1:00	hour
5	**Automatic set back and disinfection set point**									
	00	Set point: disinfection operation temperature					70	60~75	5	°C
	01	Disinfection operation time duration					10	5~60	5	min
	02	Leaving water set back temperature					5	0~10	1	°C
	03	Room set back temperature					18	17~23	1	°C
	04	Not applicable. Do not change the default value.					0	—	—	—
6	**Option setup**									
	00	Domestic hot water tank installed					0 (OFF)	0/1	—	—
	01	Optional room thermostat installed					0 (OFF)	0/1	—	—
	02	Optional backup heater installed					0 (OFF)	0/1	—	—
	03	Optional solar kit installed					0 (OFF)	0/1	—	—
	04	Benefit kWh power supply mode					0	0/2	1	—
7	**Option setup**									
	00	Optional bottom plate heater installed					1 (ON)	0/1	—	—
	01	Not applicable. Do not change the default value.					0	—	—	—
	02	Multiple set point pattern					0 (A)	0/1	—	—
	03	Multiple set point 1					0 (OFF)	0/1	—	—
	04	Multiple set point 2					0 (OFF)	0/1	—	—
8	**Option setup**									
	00	Remote controller temperature control					1 (ON)	0/1	—	—
	01	Backup heater kit optional setting					1 (ON)	0/1	—	—
	02	Emergency mode					0 (OFF)	0/1	—	—
	03	Status: low noise level					1	1~3	1	—
	04	Status: freeze-up prevention					0	0~2	1	—

First code	Second code	Setting name	Installer setting at variance with default value				Default value	Range	Step	Unit
			Date	Value	Date	Value				
9	**Automatic temperature compensation**									
	00	Leaving water temperature compensation value (heating)					0	–2~2	0.2	°C
	01	Domestic hot water tank compensation value					0	–5~5	0.5	°C
	02	Thermo ON/OFF admission					0	–5~5	0.5	°C
	03	Not applicable. Do not change the default value.					0	—	—	—
	04	Not applicable. Do not change the default value.					0	—	—	—
A	**Option setup**									
	00	Current limitation.					0	0~2	1	—
	01	Not applicable. Do not change the default value.					0	—	—	—
	02	Set point: heating required temperature difference for leaving and returning water					10	3~15	1	°C
	03	Set point: multiple set point 1 required temperature value					35	25~80	1	°C
	04	Set point: multiple set point 2 required temperature value					65	25~80	1	°C
b	**Domestic hot water set points**									
	00	Set point: reheat minimum temperature					35	35~65	1	°C
	01	Set point: reheat maximum temperature					45	35~75	1	°C
	02	Status: weather dependent domestic water heating					1 (ON)	0/1	—	—
	03	Set point: storage temperature					70	45~75	1	°C
	04	Automatic maximum domestic hot water storage temperature					70	55~75	1	°C
C	**Leaving water temperature limits**									
	00	Set point: heating leaving water maximum temperature					80	37~80	1	°C
	01	Set point: heating leaving water minimum temperature					25	25~37	1	°C
	02	Not applicable. Do not change the default value.					20	—	—	—
	03	Not applicable. Do not change the default value.					5	—	—	—
	04	Not applicable. Do not change the default value.					0	—	—	—
d	**Domestic water heating retention times**									
	00	Set point: minimum time for domestic water heating					10	5~20	1	—
	01	Set point: maximum time for domestic water heating					30	10~60	5	—
	02	Set point: interval minimum stop time of domestic water heating					15	5~30	5	—
	03	Not applicable. Do not change the default value.					15	—	—	—
	04	Not applicable. Do not change the default value.					40	—	—	—
E	**Service mode**									
	00	Vacuum mode R134a					0	0/1	—	—
	01	Not applicable. Do not change the default value.					0	—	—	—
	02	Not applicable. Do not change the default value.					0	—	—	—
	03	Not applicable. Do not change the default value.					1	—	—	—
	04	Pump only operation					0	0~25	1	—
F	**Option setup continued**									
	00	Not applicable. Do not change the default value.					5	—	—	—
	01	Not applicable. Do not change the default value.					0	—	—	—
	02	Not applicable. Do not change the default value.					1	—	—	—
	03	Not applicable. Do not change the default value.					10	—	—	—
	04	Not applicable. Do not change the default value.					50	—	—	—

4PW62640-1 00000005

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4PW62640-1 03.2011