

Technical Data

EJHA-AV3



TABLE OF CONTENTS

EJHA-AV3

1	Features	4
	EJHA-AV3	4
2	Specifications	5
3	Options	9
4	Capacity tables	10
	Heating Capacity Tables	10
5	Centre of gravity	12
6	Piping diagrams	13
7	Wiring diagrams	14
	Wiring Diagrams - Single Phase	14
8	External connection diagrams	16
9	Sound data	18
	Sound Pressure Spectrum	18
10	Operation range	19
11	Hydraulic performance	20
	Static Pressure Drop Unit	20

1 Features

1 - 1 EJHA-AV3

- › Combination of air to water heat pump with any gas condensing boiler
- › Easy installation: connection to outdoor without refrigerant
- › Small capacity outdoor unit

1

2 Specifications


2 - 1 EJHA-AV3

Technical specifications				EJHA04AV3	
Heating capacity	Min.		kW	3.83 (1)	
	Nom.		kW	4.53 (1)	
Power input	Heating	Nom.	kW	0.850 (1)	
COP				4.49 (1)	
Dimensions	Unit	Height	mm	745	
		Width	mm	845	
		Depth	mm	329	
	Packed unit	Height	mm	787	
		Width	mm	912	
	Depth	mm	329		
Weight	Unit		kg	45.0	
	Packed unit		kg	47	
Packing	Material			Carton I EPS	
	Weight		kg	2	
Heat exchanger	Length		mm	805	
	Rows	Quantity		2	
	Fin pitch		mm	1.40	
	Passes	Quantity		3	
	Stages	Quantity		24	
	Tube type			7.0 Hi-XD	
	Fin	Type		Waffle fin (PE)	
				Propeller fan	
Fan	Type			Propeller fan	
	Quantity			1	
	Discharge direction			Horizontal	
	Air flow rate	Heating	High	m ³ /min	28.3
Fan motor	Quantity			1	
	Model			ARW34W8P50DA	
	Speed	Heating	Nom.	rpm	800
	Output			W	50
	Drive				Brushless
Compressor	Quantity			1	
	Model			1YC25GXD3#C	
	Type			Hermetically sealed swing compressor	
	Output		W	800.0	
PED	Category			Category II	
Operation range	Heating	Ambient	Min.	°CDB	-14
Operation range	Heating	Ambient	Max.	°CWB	25
	Domestic	Ambient	Min.	°CDB	-14
	hot water		Max.	°CDB	35
Sound power level	Heating	Nom.		dB(A)	58.7
Sound pressure level	Heating	Nom.		dB(A)	37.0
	Night quiet mode	Heating		dB(A)	34.6
Refrigerant	Type			R-32	
	GWP			675.0	
	Charge		kg	0.560	
	Charge		TCO ₂ Eq	0.380	
	Control				Expansion valve (electronic type)
	Circuits	Quantity			1
Refrigerant oil	Type			FW68DA	
	Charged volume		l	0.4	
Defrost control				Outdoor heat exchanger and ambient sensor	
Capacity control	Method			Inverter controlled	
Safety devices	Item	01			High pressure (pressure switch)
		02			Overload relay
	03				Fuse
	04				Pressure relief valve
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	11.5 (1)
General	Supplier/ Manufacturer details	Name and address			Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 301 00
LW(A) Sound power level (according to EN14825)				dB(A)	58.7
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825

2 Specifications

2 - 1 EJHA-AV3

2

Technical specifications				EJHA04AV3	
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	1,698	
	Other	Pck (Crankcase heater mode)	kW	0.000	
		Poff (Off mode)	kW	0.013	
		Psb (Standby mode)	kW	0.013	
		Pto (Thermostat off)	kW	0.013	
Space heating  Average climate water outlet 55°C	General	Annual energy consumption	kWh	2,786	
		ηs (Seasonal space heating efficiency)	%	101	
		Prated at -10°C	kW	3.5	
		Qhe Annual energy consumption (GCV)	Gj	10	
		SCOP		2.60	
		Seasonal space heating eff. class		A+	
		A Condition (7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0
			COPd		1.81
			Pdh	kW	2.1
			PERd	%	72.4
	B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1.0	
		COPd		2.42	
		Pdh	kW	1.9	
		PERd	%	96.8	
Cdh (Degradation heating)			1.0		
COPd			3.48		
C Condition (7°CDB/-6°CWB)	Pdh	kW	2.4		
	PERd	%	139.2		
	Cdh (Degradation heating)		1.0		
D Condition (12°CDB/11°CWB)	COPd		4.63		
	Pdh	kW	2.6		
	PERd	%	185.2		
Tol (temperature operating limit)	COPd		1.49		
	Pdh	kW	1.9		
	PERd	%	59.6		
	TOL	°C	-10		
	WTOL	°C	55		
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.6		
	Tbiv (bivalent temperature)	COPd		2.49	
		Pdh	kW	2.5	
		PERd	%	99.6	
		Tbiv	°C	-3	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	1,410
			ηs (Seasonal space heating efficiency)	%	130
			Prated at 2°C	kW	3.5
			Qhe Annual energy consumption (GCV)	Gj	5
Cdh (Degradation heating)				1.0	
B Condition (2°CDB/-1°CWB)		COPd		2.18	
		Pdh	kW	2.5	
		PERd	%	87.2	
		Cdh (Degradation heating)		1.0	
C Condition (7°CDB/-6°CWB)		COPd		2.95	
		Pdh	kW	2.3	
		PERd	%	118.0	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0

2 Specifications

2 - 1 EJHA-AV3

Technical specifications				EJHA04AV3		
Space heating	Warm climate water outlet 55°C	D Condition (12°CDB/11°CWB)	COPd	4.50		
			Pdh	kW	2.6	
			PERd	%	180.0	
		(bivalent temperature)	Tbiv	COPd	2.56	
			Pdh	kW	2.9	
			PERd	%	102.4	
		Average climate water outlet 35°C	General	Tbiv	°C	4
				Annual energy consumption	kWh	2,427
				ηs (Seasonal space heating efficiency)	%	116
	Prated at -10°C			kW	3.5	
	Qhe Annual energy consumption (GCV)			Gj	9	
	SCOP				2.98	
	Seasonal space heating eff. class			A		
	A Condition (-7°CDB/-8°CWB)		COPd	2.00		
			Pdh	kW	2.3	
			PERd	%	80.0	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0			
		COPd	2.88			
		Pdh	kW	1.9		
	C Condition (7°CDB/6°CWB)	PERd	%	115.2		
		Cdh (Degradation heating)	1.0			
		COPd	4.57			
	D Condition (12°CDB/11°CWB)	Pdh	kW	2.5		
		PERd	%	182.8		
		Cdh (Degradation heating)	1.0			
	Tol (temperature operating limit)	COPd	COPd	5.64		
			Pdh	kW	2.8	
		TOL	PERd	%	225.6	
			WTOL	°C	35	
Tbiv (bivalent temperature)	COPd	COPd	1.75			
		Pdh	kW	2.1		
		PERd	%	70.0		
TOL	°C	TOL	-10			
		WTOL	35			
		Tbiv	°C	3		
Tbiv (bivalent temperature)	COPd	COPd	2.40			
		Pdh	kW	2.6		
		PERd	%	96.0		
TOL	°C	Tbiv	°C	-3		
		WTOL	35			

2 Specifications

2 - 1 EJHA-AV3

2

Technical specifications				EJHA04AV3
Space heating	Average climate water outlet 35°C	Average climate water outlet 35°C	Rated heat output supplementary capacity	1.5
		Warm climate water outlet 35°C	General	Annual energy consumption
	η_s (Seasonal space heating efficiency)		%	174
	Prated at 2°C		kW	3.5
	Qhe Annual energy consumption (GCV)		Gj	4
B Condition (2°CDB/1°CWB)	Cd _h (Degradation heating)		1.0	
	COP _d		2.93	
	Pd _h		kW	3.5
C Condition (7°CDB/6°CWB)	Cd _h (Degradation heating)		117.2	
	COP _d		1.0	
	Pd _h		kW	4.44
D Condition (12°CDB/11°CWB)	Cd _h (Degradation heating)		2.5	
	COP _d		177.6	
	Pd _h		kW	1.0
Tbiv (bivalent temperature)	COP _d		5.61	
	Pd _h	kW	2.8	
	PER _d	%	224.4	
	COP _d		2.93	
	Pd _h	kW	3.5	
	PER _d	%	117.2	
	Tbiv	°C	2	

Electrical specifications				EJHA04AV3
Power supply	Name			V3
	Phase			1~
	Frequency		Hz	50
	Voltage		V	220-240
Voltage range	Min.		%	5
	Max.		%	-5
Current	Maximum running current	Heating	A	10.3
	Recommended fuses		A	20
Wiring connections	For power supply	Quantity		2G

(1) Heating: leaving condenser water temp. 35°C; Dt 5°C; ambient air temp. 7°CDB, 6°CWB

3 Options

3-1 Options

EJHA-AV3

Kit availability for ·*JHA04AAV3·

Reference	Description	[C-02]=0 (Non-third-party boiler)	[C-02]=1 (Third-party boiler)
EKRUHML* (8)	User interface	o	o
EKPCCAB* (5)	PC cable	o	o
EKHWS150D3V3 (7)	Domestic hot water tank ·150l 1~230V·	o	---
EKHWS180D3V3 (7)	Domestic hot water tank ·180l 1~230V·	o	---
EKHWS200D3V3 (7)	Domestic hot water tank ·200l 1~230V·	o	---
EKHWS250D3V3 (7)	Domestic hot water tank ·250l 1~230V·	o	---
EKHWS300D3V3 (7)	Domestic hot water tank ·300l 1~230V·	o	---
EKHWP300B (6)	Domestic hot water tank with solar connection	o	---
EKHWP500B (6)	Domestic hot water tank with solar connection	o	---
EKHWP300PB (6)	Domestic hot water tank with solar connection	o	---
EKHWP500PB (6)	Domestic hot water tank with solar connection	o	---
EKRSCA1	Remote sensor for outdoor	o	o
BRP069A61	LAN adapter for smartphone control + Smart Grid applications	o	o
BRP069A62 (9)	LAN adapter for smartphone control	o	o
FWXV15AVEB	Heat pump convector	o	o
FWXV20AVEB	Heat pump convector	o	o
EKVKHPC (4)	Heat pump convector valve kit	o	o
EKRTWA	Wired room thermostat	o	---
EKRTR1	Wireless room thermostat	o	---
EKRTETS (3)	External sensor room thermostat	o	---
EKBPH04JH	Bottom plate heater	o	o
EKBALLV1	Shut-off valves	o	o
EKADDONJH (8)	Connection kit for third-party gas boiler: pump	---	o
EKADDONJH2 (8)	Connection kit for third-party gas boiler: pump cables + non-return valves	---	o
EKTH3	Thermistor kit for ·OSO*D· tank	o	---
EKTH4	Thermistor kit for ·Rotex· tank	o	---
EKHY3PART (2)	Connection kit for third-party tank	o	---

Notes

- (2) If the system contains a third-party tank, then ·EKHY3PART· and ·EKTH3· are required.
- (3) Can only be used in combination with the wireless room thermostat.
- (4) This valve kit is not mandatory for heating-only outdoor units.
- (5) Data cable for connection with PC.
- (6) To connect, use ·EKDVCLPT3HX + EKTH4·.
- (7) To connect, use ·EKTH3·.
- (8) Mandatory option
- (9) Only for ·EJHA04AAV3·.

Kit availability for domestic hot water tanks

Reference	Description	*KHWP*			
		300B	500B	300PB	500PB
EKHWP*	Domestic hot water tank with solar connection	o	o	o	o
*KSRPS4A	Solar kit	o	o	o	o

Kit availability for ·*HY2KOMB*AA·

Reference	Description	[C-02]=0 (Non-third-party boiler)		[C-02]=1 (Third-party boiler)
		*HY2KOMB28AA	*HY2KOMB32AA	Third-party boiler
EKHY093467	Boiler cover	o	o	---
EKPS076227	Gas conversion kit ·G25·	---	o	---
EKPS076217	Gas conversion kit ·G25·	o	---	---
EKHY075787	Gas conversion kit ·G31·	---	o	---
EKPS075867	Gas conversion kit ·G31·	o	---	---
EKHY090707	Dual pipe conversion kit	o	o	---
EKHY090717	Concentric connection set ·80/125·	o	o	---
EKGF1A	Flue gas flap valve	o	o	---

Remark Other combinations than mentioned in this combination table are prohibited.

4 Capacity tables

4 - 1 Heating Capacity Tables

4

EJHA-AV3

Tamb [°C]	EWC [°C]	LWC [°C]	EJHA04AAV3	
			HC [kW]	COP
7/6	30	35	3,98	4,55
2/1	30	35	2,97	3,78
-7/-8	30	35	3,53	2,69
7/6	40	45	3,8	3,3
2/1	40	45		
-7/-8	40	45		
7/6	47	55	3,32	2,5

Symbols

Tamb = Ambient Temperature
 Inlet water temperature (EWC)
 Outlet water temperature (LWC)

HC : Heating capacity at maximum operating frequency, measured according to EN 14511
 COP: Coefficient of Performance/Energy efficiency ratio according to EN 14511.

Conditions
Heating capacity

Capacity according to standard EN 14511 and valid for heated water range $\Delta T = 3\sim 8^{\circ}\text{C}$.

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4 Capacity tables

4 - 1 Heating Capacity Tables

EJHA-AV3

Maximum peak capacity (100%)	EJHA04AAV3	LWC [°C]	30		35		40		45		50		55	
		Tamb [°C]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]
		-10	3,53	1,22	3,47	1,29	3,21	1,30	2,94	1,32	2,68	1,34		
	-7	3,95	1,24	3,89	1,32	3,52	1,31	3,14	1,29	2,79	1,27	2,47	1,30	
	-2	4,58	1,25	4,12	1,25	3,66	1,24	3,24	1,23	2,86	1,22	2,48	1,19	
	2	4,95	1,20	4,41	1,20	3,91	1,20	3,40	1,19	2,90	1,16	2,49	1,15	
	7	4,75	0,97	4,65	1,08	4,54	1,18	4,36	1,28	4,18	1,37	4,06	1,47	
	12	5,08	0,86	4,86	0,94	4,62	1,02	4,39	1,09	4,16	1,16	3,92	1,22	
	15	5,47	0,82	5,17	0,89	4,87	0,96	4,56	1,02	4,25	1,07	3,94	1,12	
	20	5,75	0,66	5,30	0,73	4,85	0,79	4,31	0,83	3,80	0,85	3,38	0,88	

Maximum integrated capacity (100%)	EJHA04AAV3	LWC [°C]	30		35		40		45		50		55	
		Tamb [°C]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]
		-10	1,80	1,10	2,05	1,18	2,16	1,21	2,10	1,25	2,28	1,28		
	-7	2,15	1,07	2,34	1,17	2,31	1,18	2,24	1,19	2,14	1,18	2,04	1,23	
	-2	2,96	1,16	2,89	1,17	2,77	1,17	2,63	1,18	2,48	1,18	2,29	1,17	
	2	3,61	1,17	3,46	1,18	3,27	1,19	3,03	1,18	2,75	1,15	2,49	1,15	
	7	4,75	0,97	4,65	1,08	4,54	1,18	4,36	1,28	4,18	1,37	4,06	1,47	
	12	5,08	0,86	4,86	0,94	4,62	1,02	4,39	1,09	4,16	1,16	3,92	1,22	
	15	5,47	0,82	5,17	0,89	4,87	0,96	4,56	1,02	4,25	1,07	3,94	1,12	
	20	5,75	0,66	5,30	0,73	4,85	0,79	4,31	0,83	3,80	0,85	3,38	0,88	

Integrated capacity (90%)	EJHA04AAV3	LWC [°C]	30		35		40		45		50		55	
		Tamb [°C]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]
		-10	1,69	1,03	1,81	1,06	1,91	1,08	1,85	1,11	2,02	1,15		
	-7	2,06	1,03	2,06	1,05	2,03	1,06	1,98	1,07	1,91	1,08	1,81	1,12	
	-2	2,63	1,04	2,55	1,05	2,47	1,06	2,36	1,07	2,21	1,07	2,04	1,07	
	2	3,21	1,04	3,08	1,06	2,94	1,08	2,71	1,07	2,46	1,06	2,22	1,05	
	7	4,29	0,88	4,19	0,98	4,09	1,08	3,93	1,16	3,76	1,24	3,64	1,34	
	12	4,59	0,77	4,39	0,85	4,18	0,93	3,97	1,00	3,75	1,06	3,53	1,12	
	15	4,95	0,74	4,68	0,81	4,40	0,87	4,12	0,93	3,84	0,98	3,55	1,02	
	20	5,22	0,60	4,80	0,67	4,39	0,72	3,91	0,76	3,44	0,78	3,05	0,81	

Integrated capacity (70%)	EJHA04AAV3	LWC [°C]	30		35		40		45		50		55	
		Tamb [°C]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]
		-10	1,28	0,81	1,38	0,84	1,45	0,87	1,41	0,90	1,52	0,92		
	-7	1,56	0,81	1,57	0,84	1,56	0,85	1,52	0,87	1,45	0,89	1,36	0,94	
	-2	2,03	0,82	1,98	0,84	1,92	0,86	1,82	0,88	1,69	0,89	1,54	0,89	
	2	2,51	0,83	2,41	0,86	2,29	0,88	2,10	0,88	1,89	0,88	1,70	0,88	
	7	3,39	0,71	3,30	0,79	3,22	0,87	3,08	0,95	2,94	1,02	2,84	1,10	
	12	3,65	0,62	3,47	0,69	3,30	0,75	3,12	0,82	2,95	0,88	2,77	0,93	
	15	3,94	0,59	3,72	0,65	3,49	0,71	3,27	0,77	3,04	0,81	2,80	0,85	
	20	4,18	0,48	3,85	0,54	3,52	0,59	3,13	0,63	2,73	0,66	2,41	0,70	

Integrated capacity (50%)	EJHA04AAV3	LWC [°C]	30		35		40		45		50		55	
		Tamb [°C]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]
		-10	0,91	0,63	0,98	0,65	1,02	0,68	0,98	0,71	1,05	0,73		
	-7	1,13	0,63	1,13	0,65	1,11	0,67	1,07	0,69	1,00	0,70	0,93	0,77	
	-2	1,48	0,64	1,44	0,66	1,38	0,68	1,30	0,69	1,19	0,71	1,07	0,73	
	2	1,85	0,64	1,77	0,67	1,67	0,69	1,52	0,70	1,35	0,70	1,20	0,72	
	7	2,52	0,55	2,45	0,62	2,38	0,69	2,27	0,75	2,16	0,81	2,07	0,88	
	12	2,75	0,49	2,61	0,54	2,47	0,60	2,33	0,65	2,19	0,70	2,04	0,76	
	15	2,99	0,46	2,82	0,51	2,63	0,57	2,45	0,62	2,26	0,66	2,07	0,71	
	20	3,19	0,38	2,92	0,43	2,65	0,48	2,34	0,52	2,03	0,55	1,77	0,59	

Symbols

- HC Heating capacity at maximum operating frequency, measured according to EN 14511
- PI Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.
- LWC Leaving water condensor temperature [°C]
- Tamb Ambient temperature; RH (heating) = 85%

Conditions

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range $\Delta T = 3\text{--}8\text{°C}$.

Power input

Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.

Notes

The capacity and the power input are at maximum operation.

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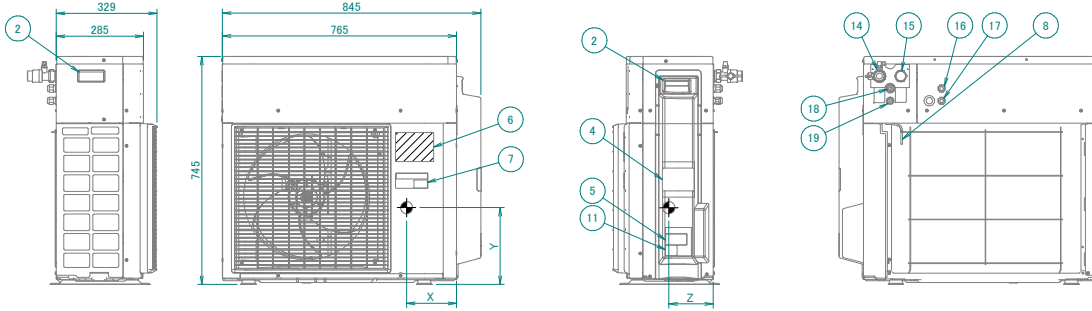
5 Centre of gravity

5 - 1 Centre of Gravity

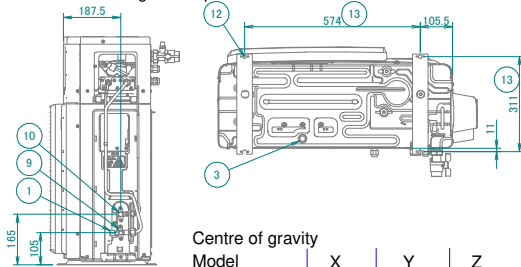
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EJHA-AV3

- 1 Service port
- 2 Handle
- 3 Drain outlet
- 4 Nameplate
- 5 Caution label
- 6 Manufacturer label
- 7 Brand name label
- 8 Outdoor air temperature thermistor
- 9 Gas stop valve -9.5 CuT-
- 10 Liquid stop valve -6.4 CuT-
- 11 Product liability label
- 12 4 holes for anchor bolts
- 13 Pitch of foundation bolt holes
- 14 Water in connection -1" M-
- 15 Water out connection -1" M-
- 16 Wiring intake (high voltage wiring)
- 17 Wiring intake (low voltage wiring)
- 18 Wiring intake (power supply)
- 19 Wiring intake (low voltage wiring)



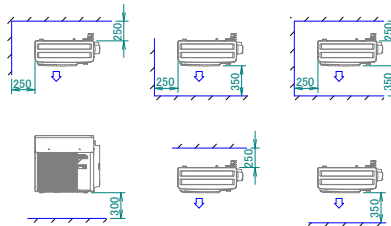
In case of removing the stop valve cover.



Centre of gravity

Model	X	Y	Z
EJHA04AAV3	0.255m	0.363m	0.144m

Minimum space for air passage
Wall height on air outlet side < 1200 mm



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7 Wiring diagrams

7-1 Wiring Diagrams - Single Phase

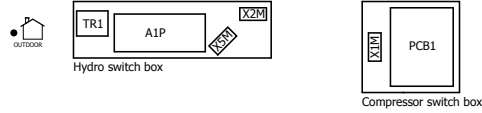
EJHA-AV3



NOTES to go through before starting the unit

- X4M : Main terminal
- : Earth wiring
- 15 : Wire number 15
- Ⓛ : Field supply
- ① : Several wiring possibilities
- [Option symbol] : Option
- [Wiring depending on model symbol] : Wiring depending on model
- [switch box symbol] : switch box
- [PCB symbol] : PCB

POSITION IN SWITCH BOX



- User installed options:
- LAN adapter
 - Main supply pump
 - Ext. outdoor thermistor
 - Bottom plate heater

LEGEND (Outdoor Hydro)

Part n°	Description
A1P	Main PCB
A13P	* LAN adapter
A14P	# User interface PCB
B1PR	Refrigerant pressure sensor
E2H	* Bottom plate heater
FU1 (A1P)	Fuse T 5 A 250 V
FU3	* Fuse
K*R (A1P)	Magnetic relay
M1P	* Main supply pump
M2P	# Domestic hot water pump
Q*DI	# Earth leakage circuit breaker
R1T	# Thermistor (water out)
R1T (A14P)	* Ambient sensor user interface
R3T	Thermistor (liquid)
R4T	Thermistor (water in)
R6T	* Ext. outdoor ambient thermistor
TR1	Power supply transformer
X*A	Connector
X*M	Terminal strip

LEGEND (Indoor Boiler Box)

Part n°	Description
A2P	# Boiler PCB
A3P	* Receiver PCB (wireless On/OFF thermostat)
A3P	* Heat pump convactor
A4P	* On/OFF thermostat (PC=power circuit)
M3S	* 3 way valve for domestic hot water
Q*DI	# Earth leakage circuit breaker
R1H (A3P)	* Humidity sensor
R1T (A3P)	* Ambient sensor On/OFF thermostat
R2T	* Ext. indoor floor/ambient thermistor
R5T	* Domestic hot water thermistor
R6T	Leaving water thermistor
X*	# Connector

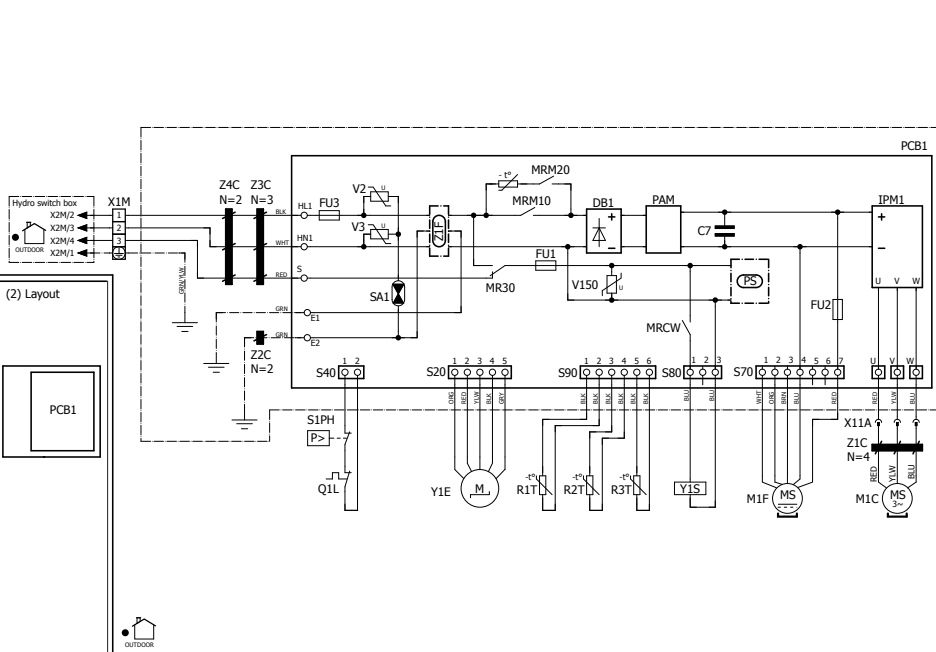
* : optional
: field supply

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(1) Connection diagram



(4) Legend

Part n°	Description
C7 (PCB1)	Capacitor
DB1 (PCB1)	Rectifier bridge
E1, E2 (PCB1)	Connector
FU1 (PCB1)	Fuse T 3,15 A 250 V
FU2 (PCB1)	Fuse T 3,15 A 250 V
FU3 (PCB1)	Fuse T 20 A 250 V
H*1 (PCB1)	Connector
IPM1 (PCB1)	Intelligent power module
MRCW (PCB1)	Magnetic relay (Y15)
MRM*, MR30 (PCB1)	Magnetic relay
M1C	Compressor motor
M1F	Fan motor
PAM (PCB1)	Pulse-amplitude modulation
PCB1	Printed circuit board (main)
PS (PCB1)	Switching power supply
Q1L	Thermal protector
R1T	Thermistor (outdoor)
R2T	Thermistor (heat exchanger)
R3T	Thermistor (discharge)
S1PH	High pressure switch
SA1 (PCB1)	Surge arrester
S* (PCB1)	Connector
U, V, W (PCB1)	Connector
V* (PCB1)	Varistor
X1M	Connector
X11A	Connector
X*M	Terminal strip
Y1E	Electronic expansion valve
Y1S	Reversing solenoid valve coil
Z*C	Noise filter (ferrite core)
Z1F (PCB1)	Noise filter

(3) Notes

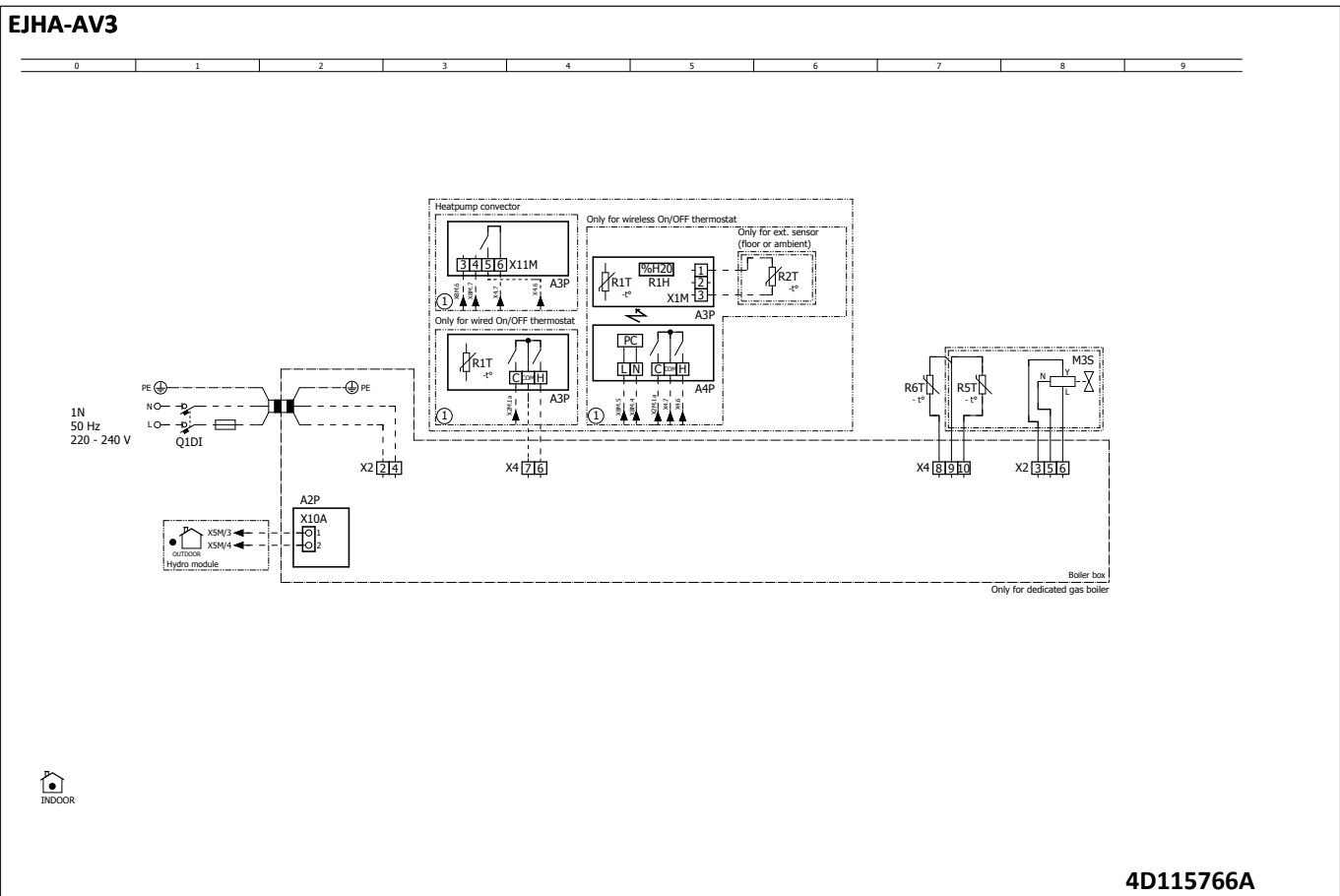
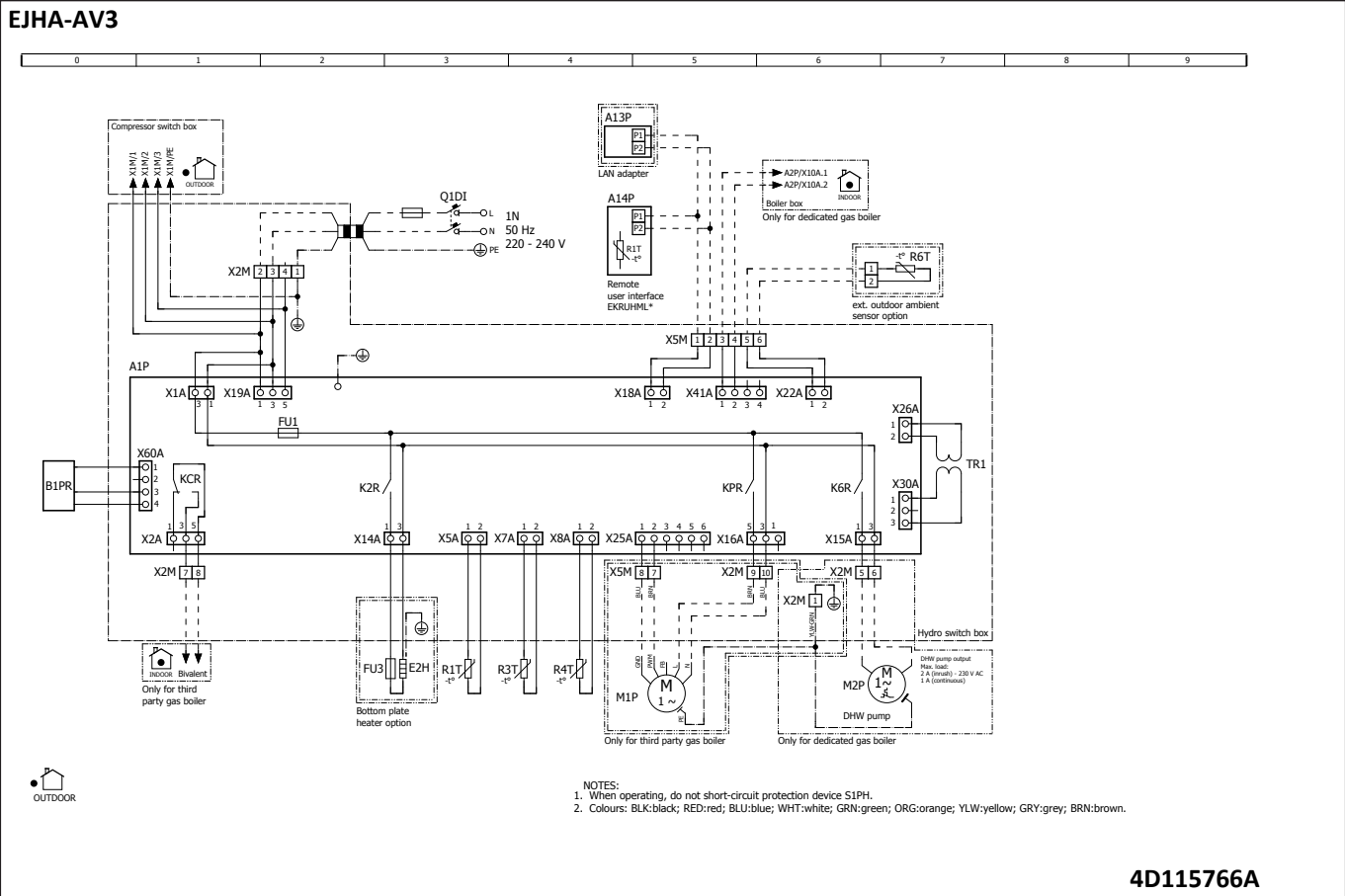
- : Connector
- X1M : Main terminal
- : Earth wiring
- Ⓛ : Field supply
- [Option symbol] : Option
- [Wiring depending on model symbol] : Wiring depending on model
- [switch box symbol] : switch box
- [PCB symbol] : PCB
- [Protective earth symbol] : Protective earth
- [Field wire symbol] : Field wire
- [Earth symbol] : Earth

NOTES:
1. When operating, do not short-circuit protection device S1PH.
2. Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green; ORG:orange; YLW:yellow; GRY:grey; BRN:brown.

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7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase









8 External connection diagrams


8 - 1 External Connection Diagrams

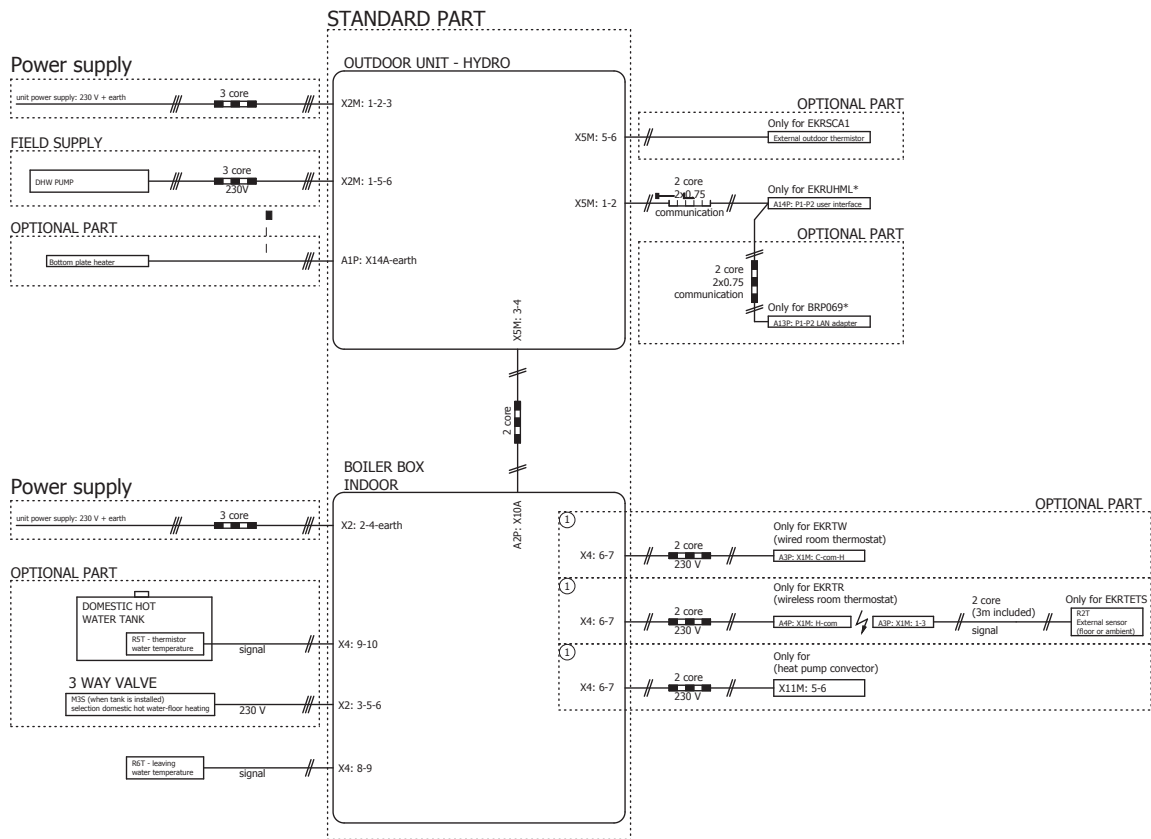
EJHA-AV3

Electrical connection diagram Daikin Monobloc - Dedicated gas boiler

For more details
please check unit wiring

TYPICAL CONFIGURATION		
		
		Standard: 2 low voltage wires
		2 low voltage wires

- Notes:
- In case of signal cable: keep minimum distance to power cables > 5 cm
 - Available heaters: see combination table
 -  : field supplied
 - Field setting: [C-02]=0



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8 External connection diagrams


8 - 1 External Connection Diagrams

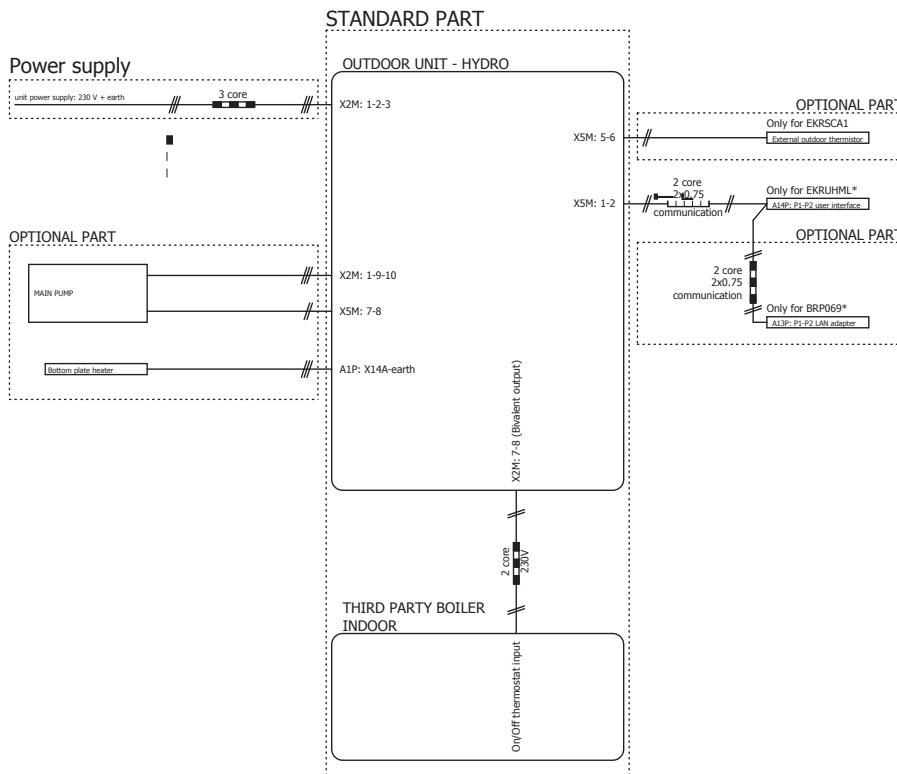
EJHA-AV3

Electrical connection diagram Daikin Monobloc - Third party gas boiler

For more details
please check unit wiring

TYPICAL CONFIGURATION		
		
		Standard: 2 high voltage wires
		2 low voltage wires

- Notes:
- In case of signal cable: keep minimum distance to power cables > 5 cm
 - Available heaters: see combination table
 -  : field supplied
 - Field setting: [C-02]=1



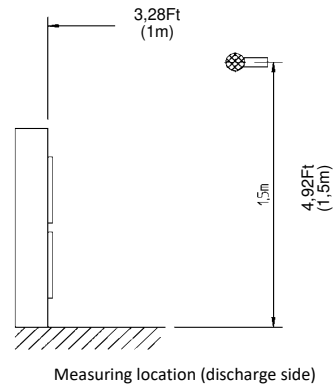
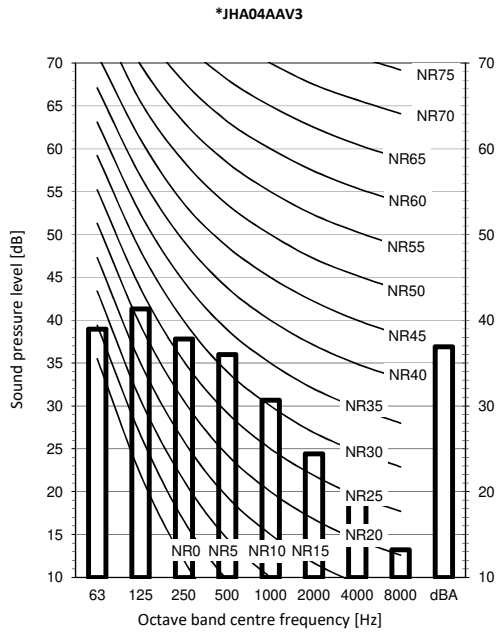
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9 Sound data

9 - 1 Sound Pressure Spectrum

9

EJHA-AV3



Notes

1. Data is valid at free field condition.
Measured in a semi-anechoic chamber
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μPa
5. If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

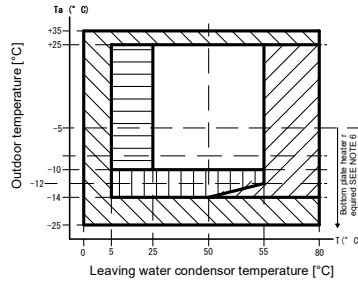
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10 Operation range

10 - 1 Operation Range

EJHA-AVA3

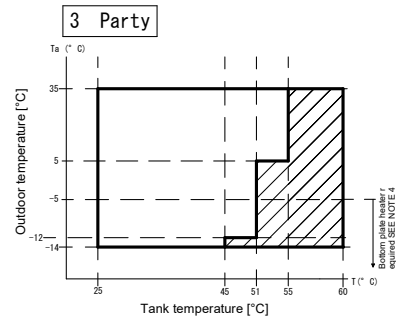
SH operation range



Notes:

- 1) = Boiler operation only
- 2) = Operation of outdoor unit is possible, but is no guarantee of outdoor capacity. If the outdoor temperature is below -14° C the outdoor unit will stop. Boiler operation will continue.
- 3) = Boiler operation (maximum condenser leaving water temperature is 55° C)
- 4) = Outdoor unit operation if set point is larger or equal to 25° C. Boiler operation possible
- 5) The use of glycol is highly recommended for freeze-up prevention. If no glycol is used, the installation of thermostatic drain valves is mandatory, in accordance with recommendation in installation manual. When glycol is used, thermostatic drain valves cannot be used.
- 6) If climate conditions are expected with 3 or more consecutive days with outside temperatures below -5° C and maximum relative humidity, then the use of bottom plate heater EKBPH04JH is mandatory. If the bottom plate heater is not installed, the operation range of the outdoor unit has to be restricted up to -5° C through the field settings according the installation manual.

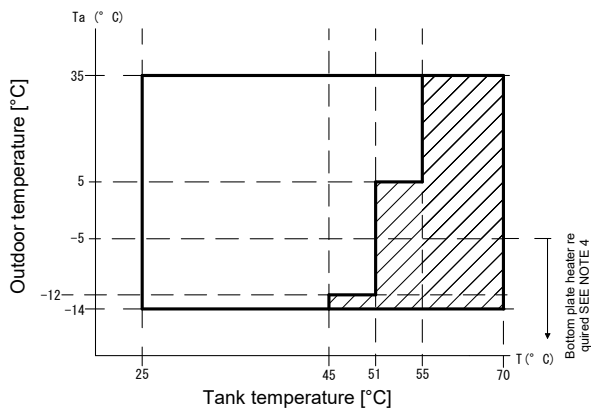
Tank domestic hot water



Notes:

- 1) = Boiler operation
- 2) Required options: EKHY3PART (only 3 way valve) + EKTH3
- 3) Tank settings (Max limit setpoint): [E-07]=6
- 4) If climate conditions are expected with 3 or more consecutive days with outside temperatures below -5° C and maximum relative humidity, then the use of bottom plate heater EKBPH04JH is mandatory.

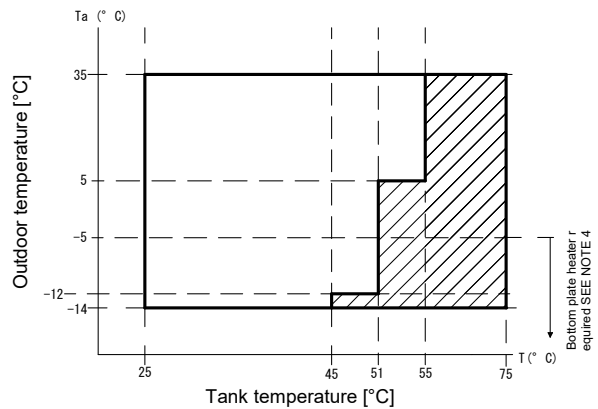
OSO / 3 Party with equal specs as OSO



Notes:

- 1) = Boiler operation
- 2) Required options:
 - a) OSO: EKTH3
 - b) 3 Party: EKHY3PART (only 3 way valve) + EKTH3
- 3) Tank settings (Max limit setpoint):
 - a) OSO: [E-07]=0
 - b) 3 Party: [E-07]=6
- 4) If climate conditions are expected with 3 or more consecutive days with outside temperatures below -5° C and maximum relative humidity, then the use of bottom plate heater EKBPH04JH is mandatory.
- 5) Coil surface > 1.05m²
Tank thermistor: top part of HP coil. Small overlap.

ROTEX



Notes:

- 1) = Boiler operation
- 2) Required option: EKTH4 + EKDVCP3HX (only 3 way valve)
- 3) Tank settings (Max limit setpoint): [E-07]=4
- 4) If climate conditions are expected with 3 or more consecutive days with outside temperatures below -5° C and maximum relative humidity, then the use of bottom plate heater EKBPH04JH is mandatory.

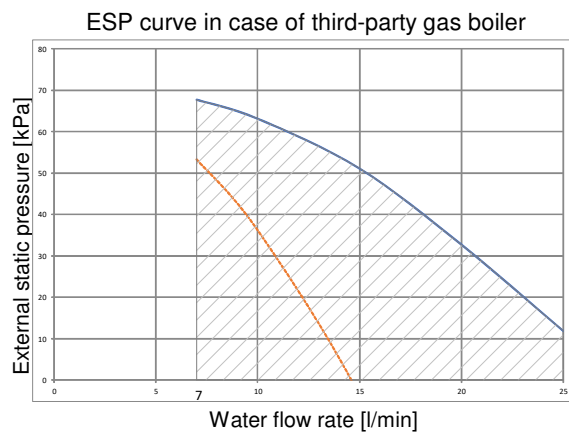
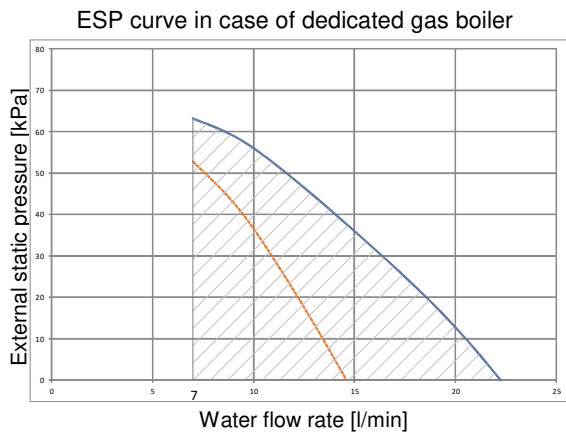
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11 Hydraulic performance

11 - 1 Static Pressure Drop Unit

11

EJHA-AV3



— Maximum ESP ·
·(1" 1m <-->)·

- - Minimum ESP ·
(1" 89m <-->)·

— Maximum ESP ·
(1" 1m <-->)·

- - Minimum ESP ·
(1" 123m <-->)·

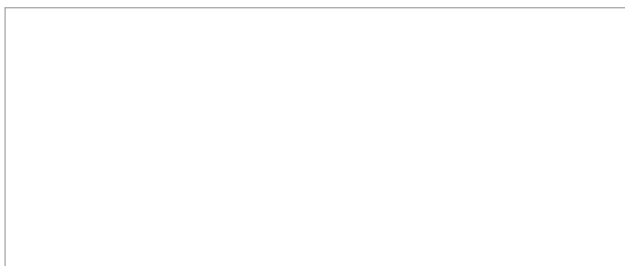
Notes

1. Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction.

See also the minimum and maximum allowed water flow range in the technical specifications.

2. Water quality must be according to EU directive 98/83 EC.

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EEEN22

02/2022



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