

Heating

Product Information

FTC2B Flow Temperature Controller
For use with PUIHZ-(H)W50-140VHA(2)/YHA2
Ecodan Monobloc Air Source Heat Pumps

Making a
World of
Difference



Designed to
interface with
third party or
BEMS controls



Certificate Number: MCS-HP0002
Product Type: Heat Pumps
Product Reference: PUIHZ-W50VHA2-85S, PUIHZ-W85VHA2-85S,
PUIHZ-W120VHA2-85S, PUIHZ-W140VHA2-85S

The FTC2B has been developed to allow the Ecodan PUIHZ range to interface with third party or BEMS (Building Energy Management System) controls. A combination of volt free and voltage inputs allow the Ecodan PUIHZ monobloc range to be used in applications where only simple on/off and temperature control is required.

Functions that can be controlled by third party controls:

- On/Off heating mode
- On/Off heating ECO mode
- On/Off hot water mode
- On/Off holiday mode
- On/Off legionella mode
- Change water flow temperature

Functions that can be monitored by third party controls:

- Unit running
- Error
- Defrost

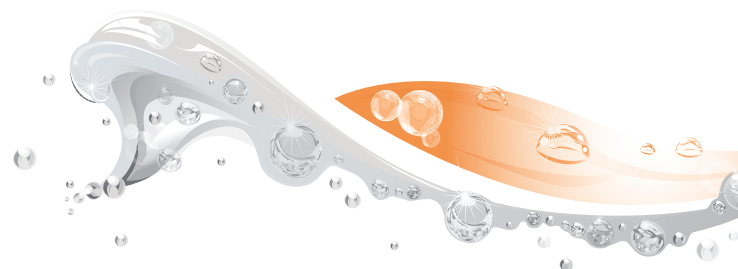
The ability to interface with third party controls opens up a huge number of application opportunities. Many processes simply require a heat source that provides hot water, without polished end user controls. The FTC2B controller allows the Ecodan PUIHZ to be used in these applications. FTC2B inputs and outputs can be used in conjunction with local BEMS.

Application Examples

- Leisure centres
- Agriculture
- Industrial process heating
- Under soil heating



Air Conditioning | Heating
Ventilation | Controls



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Renewable Heating Technology

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OUTDOOR UNIT		PUHZ-W50VHA2(-BS)	PUHZ-W85VHA2(-BS)	PUHZ-HW112VHA(-BS)	PUHZ-HW140VHA2(-BS)	PUHZ-HW140YHA2(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++	A++	A++	A++	A++
	η_s	127%	128%	125%	126%	126%
	SCOP	3.25	3.27	3.20	3.22	3.22
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A++	A++	A++	A++	A++
	η_s	162%	162%	164%	157%	157%
	SCOP	4.12	4.12	4.18	3.99	3.99
HEATING*1 (A-3/W35)	Capacity (kW)	4.8	8.3	11.0	14.0	14.0
	Power Input (kW)	1.63	2.96	3.65	4.81	4.81
	COP	2.95	2.80	3.01	2.91	2.91
OPERATING AMBIENT TEMPERATURE (°C DB)		-15 ~ +35°C	-20 ~ +35°C	-20 ~ +35°C	-25 ~ +35°C	-25 ~ +35°C
SOUND PRESSURE LEVEL AT 1m (dBA)*2,3		45	48	53	53	53
LOW NOISE MODE (dBA)*2		40	42	46	46	46
WATER DATA	Pipework Size (mm)	22	22	28	28	28
	Flow Rate (l/min)	14.3	25.8	32.1	40.1	40.1
	Water Pressure Drop (kPa)	12	13.5	6.3	9	9
	Height	740	943	1350	1350	1350
DIMENSIONS (mm)	Width	950	950	1020	1020	1020
	Depth	330+30*4	330+30*4	330+30*4	330+30*4	330+30*4
	Height	740	943	1350	1350	1350
WEIGHT (kg)		64	77	133	134	148
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
	Phase	Single	Single	Single	Single	3
	Nominal Running Current [MAX] (A)	5.4 [13]	10.3 [23]	11.2 [29.5]	14.9 [35]	5.1 [13]
	Fuse Rating - MCB Sizes (A)*5	16	25	32	40	16

*1 Under normal heating conditions at outdoor temp: -3°CDB / -4°CWB, outlet water temp 35°C, inlet water temp 30°C.

*2 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 35°C, inlet water temp 30°C as tested to BS EN14511.

*3 Sound power level of the PUHZ-W50VHA2 is 61dBA, PUHZ-W85VHA2 is 62.5dBA, PUHZ-W112VHA is 65dBA, PUHZ-HW140VHA2 is 65.5dBA, PUHZ-HW140YHA2 is 67.5dBA. Tested to BS EN12102.

*4 Grille

*5 MCB Sizes BS EN60898-2 & BS EN60947-2

η_s is the seasonal space heating energy efficiency (SSHEE) η_w is the water heating energy efficiency



FTC2B		PAC-IF032B-E
Dimensions (mm)	Width	336
	Depth	69
	Height	278
Weight (kg)		2.4
Operating Ambient Temperature (°C DB)		0~+35°C (RH<80%)
Electrical Data	Electrical Supply	Powered from outdoor unit (240v)
	Phase	Single



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