

BEN Dual-AIR - Technical specifications

Release 20260409	Specification	Details	Unit	Mono and Dual-AIR	Exhaust-AIR
Dimensions	Dimensions BEN Dual-AIR	width x depth x height	mm	600 x 550 x 808	600 x 550 x 808
	Dimensions packaging	width x depth x height	mm	710 x 600 x 898	710 x 600 x 898
	Weight unpacked	no decimals	kg	84	84
	Weight packed	no decimals	kg	87	87
Electrical	Mains connection BEN + (3kW backup heater)		V AC , HZ	1~NPE 230V-50Hz / 2~2NPE 230V-50Hz	1~NPE 230V-50Hz / 2~2NPE 230V-50Hz
	Fuse		A	1x32 / 2x16 B-type	1x32 / 2x16 B-type
	Total rated input current / max. rated input current		A	28.5 / 31.4	28.5 / 31.4
	Max. power consumption		W	6555	6555
	Mains connection BEN + (6kW backup heater)		V AC , HZ	3~NPE 400V-50Hz	3~NPE 400V-50Hz
	Fuse		A	3x16 B-type	3x16 B-type
	Total rated input current / max. rated input current		A	42.9 / 47.1	42.9 / 47.1
	Max. power consumption		W	9855	9855
	Mains connection BEN hybrid		V AC , HZ	1~NPE 230V-50Hz	1~NPE 230V-50Hz
	Fuse		A	1x16 B-type	1x16 B-type
	Total rated input current / max. rated input current		A	13.3 / 14.2	13.3 / 14.2
	Max power consumption		W	3255	3255
	IP class	IPXX		IP20	IP20
Refrigerant	Type			R290	R290
	GWP/CO2 equivalent			3	3
	Amount	grams	gr	450	450

Application limits	Min. / max. water temp	min. / max.	dgC	18 / 70	18 / 70
	Min. / max. outdoor air temp for heat pump	min. / max.	dgC	-15 / 40	-15 / 40
	Installation room conditions	max. / min. temp. / humidity	dgC / RH	35 / 5 / 55%	
	Transport conditions	max. / min. temp. / humidity	dgC / RH	40 / 5 / 70%	
	Min. CH flow		L/min	6	6
	Min. / max. CH flow	max. with tank/ max. without tank	L/min	18 / 24.5 @ 25kPa	18 / 24.5 @ 25kPa
	Max. pressure CH system		Bar	3	3
	Min. volume system		L	40	40
	Min. leaving temp. (exhaust) air	In heating mode	dgC	-20	-20
	Max leaving temp. (exhaust) air	In cooling mode	dgC	60	60
	Expansion vessel volume			8	8
	Heating power HP	min. / max.	kW	1.5 / 5	1.5 / 5
CH specifications	Heating power HP	min. / max.	kW	1.5 / 5	1.5 / 5
	Electric backup	ALL-E / Hybrid	kW	1.5 - 6 / n.a	1.5 - 6 / n.a
	Performance			Ecodesign average climate	
	Space heating energy efficiency class	LT / MT		A+++ / A++	A+++ / A+++
	Energy efficiency (η_s)	LT / MT	%	175 / 140	194 / 156
	Rated heat output (Prated)	LT / MT	kW	4.6 / 4.6	4.6 / 4.6
Sound	Sound power level acc. to EN12102 (LwA)	Indoor @ A7W55	dB(A)	46	46
	Sound power range acc. to EN12102 (LwA)	Indoor	dB(A)	45 - 61	41 - 58
Ventilation	Min. HP exhaust airflow			n.a.	90
	Airflow range outdoor air		m3/h	0 - 1000	
	Airflow range exhaust air	min. / max.	m3/h	75 - 350	75- 350
	Min. airflow in exhaust air heat pump operation		m3/h	75	90

	Design pressure drop ventilation system		Pa	150Pa @ 350m3/h	150Pa @ 350m3/h
	Design pressure drop outdoor air system		Pa	150Pa @ 1,000m3/h	n.a
Connections	CH connections	Dimensions	mm	22	22
	Air connections	outdoor air supply / return / exhaust air	mm	250 / 250 / 160	250 / 250 / 160
Connectivity	Bluetooth			BLE	BLE
	GSM			LTE-M / NB-IoT /2G	LTE-M / NB-IoT /2G
	Wi-Fi			2.4 GHz	2.4 GHz
	Zigbee			2.4 GHz	2.4 GHz
	RF			optionally available via RS485 bridge	optionally available via RS485 bridge
	Modbus			yes	yes
	OpenTherm			yes	yes