+ PRODUCT

- Controller included
- Water temperature up to 85 °C
- DHW temperature up to 70 °C
- Cascade of up to 8 units

Technology

GREEN FIN TREATMENT EXCHANGERS

User functions

QUIET MODE · WI-FI · TEMPERATURE LOCK · MODE LOCK

Installer functions

ALARM OUTPUT · BMS COMPATIBLE · TECHNICIAN TEST MODE

Heating

PROGRAMMABLE TIMER · WEEKLY TIMER · COOLING MODE OPERATIONAL UP TO 48 °C OUTDOOR · HEATING MODE OPERATIONAL DOWN TO -25 °C OUTDOOR · UNIT ON/OFF OUTPUT · HIGH TEMPERATURE UP TO 85 °C · DOMESTIC HOT WATER (OPTIONAL) · FLOOR HEATING/ COOLING · HIGH-TEMPERATURE RADIATOR · LOW-TEMPERATURE RADIATOR · BOILER REPLACEMENT · BOILER BACK-UP · FAN COIL · WATER PROGRAM

NEW

WELLEA MAX

Communal heat pump with R290 natural fluid

HEATING A+++ · FLUID R290 · SG Ready Smart Heat Pumps



SUSTAINABLE DEVELOPMENT

- Energy savings thanks to A+++ energy class.
- Full capacity maintained down to –10 °C without electric backup heater.
- Natural refrigerant with low environmental impact, GWP = 0.02.

USER

- Ideal for multi-family buildings.
- Keep your existing cast-iron radiators with 75 °C water temperature.
- Quiet operation.

INSTALLER

- Customisable weather compensation curve.
- High temperature up to 85 °C.
- Specific anti-corrosion treatment.
- Cascade operation up to 560 kW.

TECHNOLOGY

- Dual EVI compressor with R290.
- Operation down to –25 °C.
- HP Keymark certified.
- Continuous heating during defrost.

TECHNICAL DATA

OUTDOOR UNIT			EDHX-500R-04T35	EDHX-600R-04T35	EDHX-700R-04T35
Code			**7MB140055**	**7MB140056**	**7MB140057**
Phase				*Three-phase*	
HEATING MODE					
Air +7°C Water 30/35°C	Heating capacity	kW	50.00	60.00	70.00
	Power input	kW	10.64	13.95	17.50
	COP		**4.70**	**4.30**	**4.00**
Air -7°C Water 30/35°C	Heating capacity	kW	50.00	60.00	60.00
	Power input	kW	18.87	26.09	26.09
	COP		**2.65**	**2.30**	**2.30**
Air +7°C Water 47/55°C	Heating capacity	kW	50.00	60.00	70.00
	Power input	kW	15.15	19.61	23.73
	COP		**3.30**	**3.06**	**2.95**
Air -7°C Water 47/55°C	Heating capacity	kW	50.00	60.00	60.00
	Power input	kW	22.22	33.33	33.33
	COP		**2.25**	**1.80**	**1.80**
Air +7°C Water 55/65°C	Heating capacity	kW	50.00	60.00	70.00
	Power input	kW	17.86	22.22	27.45
	COP		**2.80**	**2.70**	**2.55**
Air -7°C Water 55/65°C	Heating capacity	kW	50.35	55.00	56.11
	Power input	kW	31.32	35.43	36.58
	COP		**1.61**	**1.55**	**1.53**
Air +7°C Water 60/75°C	Heating capacity	kW	50.65	54.84	55.96
	Power input	kW	28.68	32.28	31.44
	COP		**1.77**	**1.70**	**1.78**
Air -7°C Water 60/75°C	Heating capacity	kW	41.50	42.79	43.66
	Power input	kW	31.24	32.69	33.69
	COP		**1.33**	**1.31**	**1.30**
COOLING MODE					
Air 35°C Water 12/7°C	Cooling capacity	kW	50.00	60.00	65.00
	Power input	kW	15.15	20.00	23.21
	EER		**3.30**	**3.00**	**2.80**
Air 35°C Water 23/18°C	Cooling capacity	kW	50.00	60.00	70.00
	Power input	kW	10.42	13.33	16.87
	EER		**4.80**	**4.50**	**4.15**
PERFORMANCES					
Energy label (average climate)	Water outlet at 35°C		A+++		
	Water outlet at 55°C		A+++	A+++	A++
Seasonal efficiency (average climate)	Water outlet at 35°C	%	185	181	177
	Water outlet at 55°C	%	153	151	147
SCOP (average climate)	Water outlet at 35°C		4.70	4.60	4.50
	Water outlet at 55°C		3.90	3.85	3.76
Sound level		dB(A)	80	84	87
Sound pressure level (1m)		dB(A)	64	68	70
Sound pressure level quiet mode (2m)		dB(A)	55	55	55
OPERATING LIMITS					
Outdoor air temperature	Cooling	°C	-15/48		
	Heating	°C	-25/43		
	Domestic hot water	°C	-25/43		
HYDRAULIC CIRCUIT					
Max water pressure drop		mCE	30		
Max water pressure		bar	6		
Expension vessel		L	12		
Pipe diameter (water)			DN50		
POWER SUPPLY					
Phase/Voltage/Frequency			3P/380-415V/50-60Hz		
Apparent power		kVA	45	46.4	47.1
Maximum input current		A	65	67	68
Circuit breaker type			C curve		
Remote controller connection cable (shielded)			5x0.75	5x0.75	5x0.75
INSTALLATION AND OTHERS					
Airflow		m^3/h	28 670		
Refrigerant/GWP			**R290/0.02**		
Charge		kg	2 x 2.8		
Unit dimensions (WxHxD)		mm	2000x1880x960		
Package dimensions (WxHxD)		mm	2085x2050x1030		
Net weight/Gross weight		kg	615/640		

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